



OILFIELD RESEARCH LABORATORIES

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

May 22, 1980

Christie Oil Limited
904 West Thirteenth
Ottawa, Kansas 66067

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Ray Caylor Lease, Well No. 1, Franklin County, Kansas, and submitted to our laboratory on May 7, 1980.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/tem

5 c to Ottawa, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Christie Oil Limited Lease Ray Caylor Well No. 1
 Location NE $\frac{1}{4}$
 Section 34 Twp. 17S Rge. 21E County Franklin State Kansas

Elevation, Feet	
Name of Sand	Upper Squirrel
Top of Core	446.0
Bottom of Core	461.0
Top of Sand	446.0
Bottom of Sand	458.4
Total Feet of Permeable Sand	4.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 0.30	2.0	2.0
0.65 & Above	2.0	4.0

Average Permeability Millidarcys	0.52
Average Percent Porosity	12.8
Average Percent Oil Saturation	9.3
Average Percent Water Saturation	83.7
Average Oil Content, Bbls./A. Ft.	94.
Total Oil Content, Bbls./Acre	1,054.

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LOG

Name Christie Oil Limited Lease Ray Caylor Well No. 1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
446.0 - 455.8	Grayish light brown very shaly sandstone.
455.8 - 457.0	Gray sandy shale.
457.0 - 458.4	Grayish light brown very shaly sandstone.
458.4 - 461.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Christie Oil Limited Lease Ray Caylor 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	446.7	14.2	4	92	96	44	.69	1.0	1.0	44	0.69
2	447.6	13.5	17	77	94	178	0.29	1.0	2.0	178	0.29
3	448.5	11.6	3	92	95	27	0.15	1.0	3.0	27	0.15
4	449.5	13.1	9	84	93	92	0.95	1.0	4.0	92	0.95
5	450.5	12.9	15	80	95	150	Imp.	1.0	5.0	150	0.00
6	451.5	13.4	18	70	88	187	Imp.	1.0	6.0	187	0.00
7	452.5	9.8	3	77	80	23	Imp.	1.0	7.0	23	0.00
8	453.5	13.1	11	83	94	112	Imp.	1.0	8.0	112	0.00
9	454.5	13.5	6	90	96	63	Imp.	1.0	9.0	63	0.00
10	455.5	11.8	10	83	93	92	Imp.	0.8	9.8	74	0.00
11	457.5	13.6	7	90	97	74	Imp.	1.4	11.2	104	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Ray Caylor	Well No.
Christie Oil Limited			1
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
446.0 - 458.4	4.0	0.52	2.08
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Saturation	Average Oil Content Bbl./A. Ft.
446.0 - 458.4	11.2	9.3	94
		Average Percent Saturation	Total Oil Content Bbls./Acre
		12.8	83.7
		9.3	1,054