● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

April 11, 1962

Langdon & Finch
309 East 5th
Ottawa, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Rockhold Lease, Well No. 1, Douglas County, Kansas, and submitted to our laboratory on April 9, 1962.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:rf

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Langdon & Finch Lease Rockhold Well No. 1

Location NE N½ SW

Section 25 Twp. 14S Rge. 20E County Douglas State Kansas

Name of Sand	Squirrel
Top of Core	808.9
Bottom of Core	820.4
Top of Sand	812.2
Bottom of Sand	817.5
Total Feet of Permeable Sand	2.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
1 - 10	2.0	2.0
10 & above	0.5	2.5

Average Permeability Millidarcys	5.9
Average Percent Porosity	15.6
Average Percent Oil Saturation	18.6
Average Percent Water Saturation	75.2
Average Oil Content, Bbls./A. Ft.	224.
Total Oil Content, Bbls./Acre	737.
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 Langdon & Finch Lease Rockhold Well No. 1

Depth Interval, Feet	Description
808.9 - 812.2	Sandy shale.
812.2 - 813.7	Shaley sandstone.
813.7 - 817 5	Gray and light brown, shaley sandstone
817.5 - 820.4	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Langdon & Finch Lease Rockhold 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	813.8	11.5	14	82	96	125	14.	0.5	0.5	63	7.00
2	814.6	18.6	16	69	85	230	6.6	1.0	1.5	230	6.60
3	815.9	16.1	20	78	98	250	1.1	1.0	2.5	250	1.10
4	816.7	13.6	23	75	98	243	Imp.	0.8	3.3	194	0.00
								Total	---------	737	