

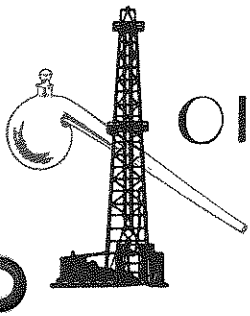
L. F. KEPLEY

CORE ANALYSIS REPORT

KEPLEY LEASE

WELL NO. 2

NEOSHO COUNTY, KANSAS



# OILFIELD RESEARCH LABORATORIES

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

January 9, 1975

Mr. L. F. Kepley  
4226 Gold  
Wichita, Kansas 67217

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary cores taken from the Kepley Lease, Well No. 2, Neosho County, Kansas, and submitted to our laboratory on January 2, 1975.

This core was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bl  
4 c to Wichita, Kansas  
1 c to Osage Drilling  
Chanute, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company L. F. Kepley Lease Kepley Well No. 2

Location 520' FSL & 1100' FWL, E $\frac{1}{2}$

Section 2 Twp. 28S Rge. 17E County Neosho State Kansas

Name of Sand	- - - - -	Squirrel
Top of Core	(Received) - - - - -	686.0
Bottom of Core	(Received) - - - - -	711.0
Top of Sand	Oil - - - - -	696.0
Bottom of Sand	(Analyzed) - - - - -	704.0
Total Feet of Permeable Sand	(Analyzed) - - - - -	5.7
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	3.7	3.7
1 & above	2.0	5.7

Average Permeability Millidarcys	- - - - -	1.5
Average Percent Porosity	- - - - -	13.9
Average Percent Oil Saturation	- - - - -	41.8
Average Percent Water Saturation	- - - - -	36.3
Average Oil Content, Bbls./A. Ft.	- - - - -	453.
Total Oil Content, Bbls./Acre	- - - - -	3,623.
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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## GENERAL INFORMATION & SUMMARY

Company L. F. Kepley Lease Kepley Well No. 2

Location 520' FSL & 1100' FWL, E $\frac{1}{2}$

Section 2 Twp. 28S Rge. 17E County Neosho State Kansas

Name of Sand	- - - - -	Lower Cattleman
Top of Core	(Received) - - - - -	819.8
Bottom of Core	(Received) - - - - -	826.0
Top of Sand	- - - - -	820.0
Bottom of Sand	- - - - -	825.2
Total Feet of Permeable Sand	- - - - -	5.2
Total Feet of Floodable Sand	- - - - -	

**Distribution of Permeable Sand:**  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 1	3.0	3.0
1 & above	2.2	5.2

Average Permeability Millidarcys	- - - - -	1.3
Average Percent Porosity	- - - - -	15.8
Average Percent Oil Saturation	- - - - -	34.0
Average Percent Water Saturation	- - - - -	45.0
Average Oil Content, Bbls./A. Ft.	- - - - -	416.
Total Oil Content, Bbls./Acre	- - - - -	2,162.
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	- - - - -	

OILFIELD RESEARCH LABORATORIES

-LOG-

Company L. F. Kepley Lease Kepley Well No. 2

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>	<u>Squirrel Sand</u>
686.0 - 689.0	- Dark gray sandy shale.	
689.0 - 693.5	- Gray sandy shale.	
693.5 - 696.0	- Gray calcareous sandstone.	
696.0 - 701.7	- Brown carbonaceous very shaly sandstone.	
701.7 - 711.0	- Dark gray carbonaceous very shaly sandstone.	

Lower Cattleman Sand

819.8 - 820.0	- Gray sandy shale.
820.0 - 824.2	- Brown very shaly sandstone.
824.2 - 825.2	- Dark carbonaceous shaly sandstone.
825.2 - 826.0	- Gray sandy shale.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

TABLE 1-B

Company L. F. Kepley

Lease Kepley

Well No. 2

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.		
<b>SQUIRREL SAND</b>											
1	696.5	14.7	52	29	81	594	0.35	1.0	1.0	594	0.35
2	697.6	13.5	44	33	77	461	1.2	1.0	2.0	461	1.20
3	698.7	13.0	27	36	63	273	6.1	1.0	3.0	273	6.10
4	699.6	13.3	37	38	75	382	0.55	1.0	4.0	382	0.55
5	700.6	14.2	45	27	72	496	0.16	1.0	5.0	496	0.16
6	701.6	13.3	41	31	72	423	0.51	0.7	5.7	296	0.36
7	702.6	14.8	42	45	87	483	Imp.	1.3	7.0	628	0.00
8	703.5	13.8	46	47	93	493	Imp.	1.0	8.0	493	0.00
<b>LOWER CATTLEMAN SAND</b>											
9	820.5	13.5	30	58	88	314	0.61	1.0	1.0	314	0.61
10	821.5	14.6	39	43	82	442	1.2	1.0	2.0	442	1.20
11	822.5	16.7	39	45	84	506	0.47	1.0	3.0	506	0.47
12	823.5	17.6	29	46	75	396	3.3	1.2	4.2	475	3.96
13	824.5	16.1	34	33	67	425	0.62	1.0	5.2	425	0.62