

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

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CHANUTE, KANSAS
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October 6, 1961

Mr. C.H. Fitze
P.O. Box 822
Parsons, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Cable tool core taken from the Hines Lease, Well No. 1, Neosho County, Kansas, and submitted to our laboratory on October 2, 1961.

This core was sampled and the samples sealed in jars and brought in by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Carl L. Pate

CLP:rf

1 c. - Jesse G. Edwards
2 c. - Ralph H. Viney

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GENERAL INFORMATION & SUMMARY

Company C. H. Fitze Lease Hines Well No. 1

Location S¹/₂ SE SW

Section 10 Twp. 28S Rge. 19E County Neosho State Kansas

Name of Sand	-	Bartlesville
Top of Core	-	626.5
Bottom of Core	-	649.9
Top of Sand	(Received)	626.5
Bottom of ^{Pay} Sand	-	636.0
Total Feet of Permeable Sand	-	16.5
Total Feet of Floodable Sand	-	-

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.	
0 - 10	4.0	4.0	
10 - 40	4.0	8.0	
40 - 80	4.0	12.0	
80 - 150	2.0	14.0	
150 & above	2.5	16.5	
Average Permeability Millidarcys	-	-	69.9
Average Percent Porosity	-	-	20.7
Average Percent Oil Saturation	-	-	31.4
Average Percent Water Saturation	-	-	49.7
Average Oil Content, Bbls./A. Ft.	-	-	495.
Total Oil Content, Bbls./Acre	-	-	11,084.
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	-	-	

LOGCompany C.H. Fitze Lease Hines Well No. 1Depth Interval, Description
Feet

626.5 - 629.0 - Dark brown sandstone.
629.0 - 636.0 - Brown and dark carbonaceous sandstone.
636.0 - 639.0 - Laminated sandstone and shale.
639.0 - 643.0 - Grayish brown, coarse grained, slightly shaley sandstone.
643.0 - 645.0 - Laminated sandstone and shale.
645.0 - 646.0 - Grayish brown, coarse grained sandstone.
646.0 - 649.9 - Laminated sandstone and shale.
649.9 - 650.0 - Coal.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company C.H. Fitze Lease Hines Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	627.5	23.1	39	33	72	700	237.	1.5	1,050	355.50	
2	628.5	22.8	35	26	61	619	120.	1.0	619	120.00	
3	629.5	21.7	37	25	62	623	48.	1.0	623	48.00	
4	630.5	17.8	35	40	75	484	21.	1.0	484	21.00	
5	631.5	19.4	30	35	65	451	94.	1.0	451	94.00	
6	632.5	19.9	50	21	71	772	46.	1.0	772	46.00	
7	633.5	19.4	41	35	76	617	24.	1.0	617	24.00	
8	634.5	16.8	31	49	80	404	63.	1.0	404	63.00	
9	635.5	17.9	41	24	65	570	48.	1.0	570	48.00	
10	636.5	12.3	33	56	89	315	Fractured	1.0	315	0.00	
11	637.5	15.6	30	45	75	363	Imp.	1.0	363	28.00	
12	639.5	22.3	23	65	88	398	2.8	1.0	398	11.00	
13	640.5	22.6	26	63	89	456	11.	1.0	456	3.40	
14	641.5	22.7	24	66	90	423	3.4	1.0	423	11.00	
15	642.5	23.5	28	59	87	511	11.	1.0	511	1.40	
16	643.5	17.2	21	68	89	280	1.4	1.0	280	0.00	
17	644.5	18.8	35	56	91	510	Imp.	1.0	510	277.00	
18	645.5	27.6	29	62	91	621	277.	1.0	621	0.00	
19	646.5	23.8	18	72	90	332	Imp.	1.0	332	0.00	
20	647.5	24.7	17	74	91	326	Imp.	1.0	326	2.70	
21	648.5	25.6	31	59	90	615	2.7	1.0	615	0.00	
22	649.5	17.0	29	64	93	382	Imp.	0.9	344	0.00	
Total									11,084		

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Hines	Well No.		
C.H. Fitze			1		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
626.5 - 636.0	9.5	86.3	819.50		
639.0 - 649.0	7.0	47.8	334.50		
626.5 - 649.0	16.5	69.9	1,154.00		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
626.5 - 636.0	9.5	37.8	22.1	588	5,590
636.0 - 649.9	12.9	21.2	62.7	426	5,494
626.5 - 649.9	22.4	20.7	49.7	495	11,084