



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

December 19, 1966

Jack Hobson
2073 $\frac{1}{2}$ North Dort Highway
Flint 6, Michigan

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Floyd Dotson Lease, Well No. 1, Bourbon County, Kansas, and submitted to our laboratory on December 16, 1966.

might be well 2

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

John L. Pate
John L. Pate

JLP:rf

5 c. - Flint, Michigan
1 c. - Ft. Scott, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Jack Hobson Lease Floyd Dotson Well No. 1 2?
 Location 1485' WEL & 2475' NSL
 Section 27 Twp. 23S Rge. 24E County Bourbon State Kansas
 Name of Sand - - - - - Bartlesville
 Top of Core - - - - - 285.0
 Bottom of Core - - - - - 301.0
 Top of Sand - - - - - 285.0
 Bottom of Sand - - - - - 301.0
 Total Feet of Permeable Sand - - - - - 15.0
 Total Feet of Floodable Sand - - - - -
 Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	0.7	0.7
1 - 100	4.2	4.9
100 - 500	6.6	11.5
500 & above	3.5	15.0

 Average Permeability Millidarcys - - - - - 288.0
 Average Percent Porosity - - - - - 19.2
 Average Percent Oil Saturation - - - - - 17.6
 Average Percent Water Saturation - - - - - 71.4
 Average Oil Content, Bbls./A. Ft. - - - - - 260.
 Total Oil Content, Bbls./Acre - - - - - 4,171.
 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 - - - - - 827.

-LOG-

Company Jack Hobson Lease Floyd Dotson Well No. 1Depth Interval, Description
Feet

285.0 - 286.6	-	Brown and gray, coarse grained, slightly calcareous sandstone.
286.6 - 290.6	-	Light brown, coarse grained, calcareous sandstone.
290.6 - 291.3	-	Light brown, coarse grained, slightly calcareous sandstone and coal.
291.3 - 292.5	-	Light brown, coarse grained, calcareous sandstone.
292.5 - 301.0	-	Brownish gray, coarse grained, slightly calcareous sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Jack Hobson Lease Floyd Dotson 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			Ft.	Cum. Ft.		
1	285.1	16.4	32	45	407	148.	0.6	0.6	244	88.90
2	286.1	27.2	34	43	716	285.	1.0	1.6	716	285.00
3	287.1	17.8	26	57	359	8.3	1.0	2.6	359	8.30
4	288.1	19.1	28	52	414	8.8	1.0	3.6	414	8.80
5	289.1	11.6	21	74	189	15.	1.0	4.6	189	15.00
6	290.1	11.3	24	54	210	Imp.	1.0	5.6	210	0.00
7	291.1	16.7	25	53	324	0.38	0.7	6.3	227	0.27
8	292.1	10.1	7	89	55	1.3	1.2	7.5	66	1.56
9	293.1	16.8	17	69	221	514.	1.1	8.6	243	565.00
10	294.1	21.9	14	80	238	203.	1.0	9.6	238	203.00
11	295.1	24.2	14	82	262	467.	1.0	10.6	262	467.00
12	296.1	21.6	12	83	201	371.	1.0	11.6	201	371.00
13	297.1	23.0	12	76	214	155.	1.0	12.6	214	155.00
14	298.1	22.6	11	84	193	605.	1.0	13.6	193	605.00
15	299.1	22.9	11	83	196	421.	1.0	14.6	196	421.00
16	300.1	22.9	8	90	142	804.	1.4	16.0	199	1125.00
Total							-----		4,171	

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease	Well No.			
Jack Hobson		Floyd Dorson	1			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity, Ft. x Md.			
285.0 - 286.6	1.6	23.4	373.90			
286.6 - 292.5	4.9	6.9	33.93			
292.5 - 301.0	8.5	460.0	3,912.00			
285.0 - 301.0	15.0	288.0	4,319.83			
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content, Bbl./A. Ft.	Total Oil Content, Bbls./Acre
285.0 - 286.6	1.6	23.1	33.2	43.7	600	960
286.6 - 292.5	5.9	14.2	21.2	64.6	249	1,465
292.5 - 301.0	8.5	21.9	12.2	81.0	206	1,746
285.0 - 301.0	16.0	19.2	17.6	71.4	260	4,171