



OILFIELD RESEARCH LABORATORIES

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

September 5, 1967

Sanders-Thoureen, Inc.
P. O. Box 260
Lake Worth, Florida

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Inge Lease, Well No. W-91, Elk County, Kansas, and submitted to our laboratory on August 30, 1967.

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

It is recommended that the casing be set at 663.0 feet and the hole be plugged back to 669.0 feet.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

A handwritten signature in cursive script that reads "Benjamin R. Pearman". The signature is written in dark ink and is positioned above the printed name.

Benjamin R. Pearman

BRP:bl

4 c. - Lake Worth, Florida
2 c. - Bartlesville, Oklahoma

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-91

Location 1320' SNL & 1320' WEL, SE $\frac{1}{4}$

Section 34 Twp. 31S Rge. 12E County Elk State Kansas

Name of Sand	Stray
Top of Core	655.0
Bottom of Core	672.0
Top of ^{Pay} Sand	661.0
Bottom of ^{Pay} Sand	670.0
Total Feet of Permeable Sand	11.9
Total Feet of Floodable Sand	-

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	4.8	4.8
50 - 100	4.1	8.9
100 & above	3.0	11.9

Average Permeability Millidarcys	78.0
Average Percent Porosity	20.8
Average Percent Oil Saturation	37.8
Average Percent Water Saturation	48.5
Average Oil Content, Bbls./A. Ft.	587.
Total Oil Content, Bbls./Acre	6,989.
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 Sanders-Thoureen, Inc. Lease Inge Well No. W-91

Depth Interval, Description
Feet

655.0 - 655.8 - Gray finely laminated sandstone and shale.

655.8 - 660.0 - Gray fine grained shaly sandstone containing a sandstone and shale streak.

660.0 - 665.2 - Brown fine grained slightly shaly sandstone containing a laminated sandstone and shale streak.

665.2 - 672.0 - Brown fine grained slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-91

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	660.5	22.7	22	53	75	387	10.	1.0	387	10.00	
2	661.5	22.2	34	38	72	584	31.	1.0	584	31.00	
3	662.5	22.5	38	46	84	662	78.	0.9	586	70.20	
4	663.5	22.2	41	38	79	706	97.	1.0	706	97.00	
5	664.5	24.9	49	35	84	946	76.	1.2	1,135	91.20	
6	665.5	22.3	41	41	82	710	44.	0.8	568	35.20	
7	666.5	20.9	37	47	84	599	156.	1.0	599	156.00	
8	667.5	18.8	32	61	93	466	14.	1.0	466	14.00	
9	668.5	10.6	46	53	99	378	45.	1.0	378	45.00	
10	669.5	20.3	45	42	87	708	135.	1.0	708	135.00	
11	670.5	20.5	34	52	86	540	169.	1.0	540	169.00	
12	671.5	17.1	25	69	94	332	75.	1.0	332	75.00	
Total								- - -	6,989		

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sanders-Thoureen, Inc.	Lease	Inge	Well No.	W-91	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	660.0 - 661.0	1.0	10.0	10.00		
	661.0 - 670.0	8.9	75.8	674.60		
	670.0 - 672.0	2.0	122.0	244.00		
	660.0 - 672.0	11.9	78.0	928.60		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
	660.0 - 661.0	1.0	22.0	53.0	387	387
	661.0 - 670.0	8.9	41.5	45.3	644	5,730
	670.0 - 672.0	2.0	29.5	60.5	436	872
	660.0 - 672.0	11.9	37.8	48.5	587	6,989