



# OILFIELD RESEARCH LABORATORIES

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

August 19, 1967

Sanders-Thoureen, Inc.  
P.O. Box 260  
Lake Worth, Florida 33460

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Inge Lease, Well No. 0-99, Elk County, Kansas, and submitted to our laboratory on August 15, 1967.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:rf

2 c. - Lake Worth, Florida  
2 c. - Chicago, Illinois  
2 c. - Bartlesville, Okla.



## OILFIELD RESEARCH LABORATORIES

-LOG-

Company Sanders-Thoureen, Inc. Lease Inge Well No. 0-99

<u>Depth Interval,</u>	<u>Description</u>
<u>Feet</u>	

652.0 - 653.0	- Gray, laminated, sandy shale.
653.0 - 656.0	- Gray shale.
656.0 - 658.0	- Gray, finely laminated sandstone and shale.
658.0 - 660.4	- Gray, finely laminated, shaly sandstone.
660.4 - 663.3	- Brown, fine grained, shaly sandstone.
663.3 - 666.9	- Gray shale.
666.9 - 669.0	- Gray, laminated, sandy shale.
669.0 - 671.3	- Gray, laminated, shaly sandstone.
671.3 - 673.4	- Gray, laminated, sandy shale.
673.4 - 676.7	- Brownish gray, shaly sandstone.
676.7 - 679.5	- Brown, fine grained sandstone.
679.5 - 680.6	- Gray shaly sandstone.
680.6 - 688.0	- Brown, fine grained sandstone.
688.0 - 694.6	- Light brown, fine grained sandstone.
694.6 - 695.5	- Light brown, slightly carbonaceous sandstone.
695.5 - 696.4	- Dark carbonaceous sandstone.
696.4 - 696.7	- Coal.
696.7 - 706.0	- Gray, finely laminated, shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sanders-Thoureen, Inc. Lease Inge Well No. 0-99

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			T Total	Ft.		
1	660.1	16.5	25	73	320	Imp.	1.0	1.0	320	0.00
2	661.1	14.1	26	37	284	Imp.	1.2	2.2	384	0.00
3	662.1	11.5	24	44	214	1.1	1.7	3.9	364	1.87
4	674.1	20.4	14	63	222	9.2	1.2	5.1	266	11.04
5	675.1	23.5	22	60	401	3.8	1.0	6.1	401	3.80
6	676.1	19.3	13	73	195	7.0	1.1	7.2	214	7.70
7	677.1	22.8	26	44	460	12.	0.9	8.1	414	10.80
8	678.1	23.0	43	44	767	38.	1.0	9.1	767	38.00
9	679.0	22.5	30	43	524	40.	0.9	10.0	472	36.00
10	679.8	14.9	5	89	58	1.6	1.1	11.1	64	1.76
11	680.7	25.4	41	39	809	56.	0.6	11.7	485	33.60
12	681.8	26.5	53	37	1,089	51.	1.2	12.9	1,307	61.20
13	683.1	23.9	50	34	927	123.	1.1	14.0	1,020	135.00
14	683.9	24.4	44	35	832	88.	1.0	15.0	832	88.00
15	685.0	24.0	37	42	689	161.	0.9	15.9	620	144.80
16	686.0	20.8	52	29	838	262.	1.0	16.9	838	262.00
17	687.1	25.8	32	43	640	177.	1.5	18.4	960	265.50
18	688.8	26.4	11	66	225	256.	1.5	19.9	338	384.00
19	690.1	24.3	16	59	302	198.	1.0	20.9	302	198.00
20	691.1	26.0	12	62	242	266.	1.1	22.0	266	292.70
21	692.1	24.6	11	68	210	206.	1.5	23.5	315	309.00
22	694.3	24.5	21	48	399	142.	1.5	25.0	598	213.00
23	695.4	26.2	8	70	162	156.	0.9	25.9	146	140.30
							Total		11,693	

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sanders-Thoureen, Inc.	Lease	Inge	Well No.	
				0-99	
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
659.4 - 676.7	659.4 - 676.7	5.0	48.8	24.41	
676.7 - 688.0	676.7 - 688.0	11.2	96.1	1,076.66	
688.0 - 695.5	688.0 - 695.5	7.5	204.9	1,537.00	
659.4 - 695.5	659.4 - 695.5	23.7	111.3	2,638.07	
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
659.4 - 676.7	7.2	17.0	20.8	271.	1,949
676.7 - 688.0	11.2	23.0	37.4	694	7,779
688.0 - 695.5	7.5	25.3	13.5	262	1,965
659.4 - 695.5	25.9	22.0	25.9	452	11,693