



OILFIELD RESEARCH LABORATORIES

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

September 16, 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. W-77, Elk County, Kansas, and submitted to our laboratory on September 12, 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 674.0 feet and the hole plugged back to 680.0.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bj0

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

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- LOG -

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-77

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

668.0 - 671.0	- Gray shaly sandstone.
671.0 - 671.7	- Gray laminated shaly sandstone.
671.7 - 672.6	- Gray sandstone.
672.6 - 673.0	- Gray laminated shaly sandstone.
673.0 - 673.6	- Hard gray calcareous sandstone.
673.6 - 677.7	- Brown fine grained sandstone.
677.7 - 685.1	- Brown slightly calcareous sandstone, with an angular fracture from 684.3 to 685.1.
685.1 - 686.5	- Hard calcareous sandstone with an angular fracture from 685.1 to 685.4

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-77

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	673.5	9.5	26	61	87	192	Imp.	0.6	0.6	115	0.00
2	674.5	22.3	32	46	78	554	38.	1.4	2.0	776	53.20
3	675.5	23.6	42	39	81	769	57.	1.0	3.0	769	57.00
4	676.5	25.1	48	34	82	935	93.	1.0	4.0	935	93.00
5	677.5	23.1	41	45	86	735	88.	0.7	4.7	514	61.60
6	678.5	21.9	35	47	82	594	149.	1.3	6.0	772	193.70
7	679.5	22.0	41	57	98	700	187.	1.0	7.0	700	187.00
8	680.5	22.2	44	43	87	758	191.	1.0	8.0	758	191.00
9	681.5	24.7	34	53	87	652	352.	1.0	9.0	652	352.00
10	682.5	22.5	28	56	84	489	173.	1.0	10.0	489	173.00
11	683.5	22.7	21	64	85	370	218.	1.0	11.0	370	218.00
12	684.5	15.2	29	63	92	342	36.	1.1	12.1	376	39.60
13	685.5	10.2	44	54	98	324	6.0	0.9	13.0	292	5.40
14	686.3	10.4	36	53	89	290	6.5	0.5	13.5	145	3.25

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.			
Sanders-Thoureen, Inc.	Inge	W-77			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
673.0 - 682.0	8.4	141.5	1,188.50		
682.0 - 686.5	4.5	97.6	439.25		
673.0 - 686.5	12.9	126.2	1,627.75		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre	
673.0 - 682.0	9.0	22.1	38.2	666	5,991
682.0 - 686.5	4.5	17.0	30.8	594	1,672
673.0 - 686.5	13.5	20.4	35.7	568	7,663