



OILFIELD RESEARCH LABORATORIES

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

August 31, 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-90, Elk County, Kansas, and submitted to our laboratory on August 29, 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 662.0 feet and the hole be plugged back to 668.0.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:rf

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

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Company Sanders-Thoureen, Inc. Lease Inge Well No. W-90

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

655.0 - 660.1	-	Gray, fine grained, shaly sandstone.
660.1 - 660.7	-	Brown, fine grained sandstone.
660.7 - 661.7	-	Light brown, laminated, shaly sandstone.
661.7 - 668.3	-	Brown, fine grained sandstone.
668.3 - 668.6	-	Laminated, micaceous, shaly sandstone.
668.6 - 671.7	-	Light brown to brown, fine grained sandstone.
671.7 - 673.0	-	Hard, gray, slightly calcareous sandstone.
673.0 - 677.1	-	Light brown to gray, fine grained sandstone.
677.1 - 677.5	-	Gray shale.
677.5 - 677.7	-	Coal.
677.7 - 680.0	-	Gray, laminated, shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-90

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	659.5	19.4	13	85	196	3.2	1.1	1.1	216	3.52
2	660.5	21.3	42	33	694	56.	0.6	1.7	416	33.60
3	661.5	18.3	22	58	312	13.	1.0	2.7	312	13.00
4	662.5	24.7	39	40	747	27.	1.3	4.0	971	35.10
5	663.5	24.7	35	39	670	28.	1.0	5.0	670	28.00
6	664.5	19.2	39	38	581	184.	1.0	6.0	581	184.00
7	665.5	19.5	38	40	574	169.	1.0	7.0	574	169.00
8	666.5	27.2	52	24	1,098	448.	0.9	7.9	988	403.25
9	667.5	25.4	45	39	886	192.	1.0	8.9	886	192.00
P-10	668.2	-	-	-	-	240.	0.3	9.2	-	72.00
10	668.5	18.3	30	67	425	-	0.3	9.5	127	-
11	669.5	26.2	26	51	529	150.	1.4	10.9	741	210.00
12	670.5	23.9	19	60	352	139.	1.0	11.9	352	139.00
13	671.5	20.0	26	50	403	13.	0.7	12.6	282	9.10
14	672.5	8.8	33	62	225	Imp.	1.3	13.9	292	0.00
15	673.5	24.2	16	78	300	184.	1.0	14.9	300	184.00
								Total	7,708	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease		Inge	Well No.
Sanders-Thoureen, Inc.				W-90
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
659.0 - 661.7	2.7	18.6	50.12	944
661.7 - 668.3	6.5	166.7	1,083.35	4,670
668.6 - 674.0	4.1	132.2	542.10	2,094
659.0 - 674.0	13.3	126.0	1,675.57	7,708
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
659.0 - 661.7	2.7	19.4	63.5	350
661.7 - 668.0	6.2	23.5	37.0	754
668.3 - 674.0	5.7	20.3	60.1	368
659.0 - 674.0	14.6	21.5	51.1	528