



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-78, Elk County, Kansas, and submitted to our laboratory on September 9, 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 696.5 feet and the hole plugged back to 701.0.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjjo

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

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- LOG -

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-78

Depth Interval, Description
Feet

688.0 - 689.3 - Gray laminated sandy shale
689.3 - 695.1 - Gray fine grained sandstone.
695.1 - 695.8 - Light brown laminated shaly sandstone.
695.8 - 696.9 - Light brown shaly sandstone.
696.9 - 699.0 - Brown fine grained shaly sandstone.
699.0 - 703.8 - Brown slightly calcareous sandstone.
703.8 - 706.9 - Light brown slightly calcareous sandstone.
706.9 - 708.2 - Hard calcareous sandstone.
708.2 - 709.1 - Brown slightly calcareous sandstone.
709.1 - 710.0 - Gray shale

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-78

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	694.5	22.6	9	68	77	158	2.0	1.1	1.1	174	2.20
2	695.5	18.8	26	65	91	379	29.	0.7	1.8	265	20.30
3	696.5	21.6	20	58	78	335	23.	1.1	2.9	369	25.30
4	697.5	22.3	30	46	76	519	45.	1.1	4.0	571	49.50
5	698.5	22.7	38	43	81	669	10.	1.0	5.0	669	10.00
6	699.5	21.2	23	64	87	378	125.	1.0	6.0	378	125.00
7	700.5	20.2	16	68	84	250	132.	1.0	7.0	250	132.00
8	701.5	23.4	25	44	69	454	50.	1.0	8.0	454	50.00
9	702.5	20.6	28	46	74	446	61.	1.0	9.0	446	61.00
10	703.5	20.8	29	58	87	468	166.	0.8	9.8	374	132.80
11	704.5	23.2	20	65	85	360	198.	1.2	11.0	432	237.60
12	705.5	23.2	18	70	88	324	169.	1.0	12.0	324	169.00
13	706.5	25.2	12	76	88	235	259.	0.9	12.9	212	233.10
14	707.5	6.1	3	74	77	14	6.4	1.3	14.2	18	8.32
15	708.5	19.2	28	47	75	416	30.	0.9	15.1	374	27.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sanders-Thoureen, Inc.	Lease	Inge	Well No.	W-78
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
694.0 - 696.9	694.0 - 696.9	2.9	16.5	47.80	808
696.9 - 705.0	696.9 - 705.0	8.1	98.6	797.90	3,574
705.0 - 709.1	705.0 - 709.1	4.1	106.7	437.42	928
694.0 - 709.1	694.0 - 709.1	15.1	85.0	1,283.12	5,310
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
694.0 - 696.9	2.9	21.3	17.3	63.5	279
696.9 - 705.0	8.1	21.9	26.0	54.4	441
705.0 - 709.1	4.1	17.3	14.1	67.5	226
694.0 - 709.1	15.1	20.5	21.1	59.7	352