



OILFIELD RESEARCH LABORATORIES

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

September 27, 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-107, Elk County, Kansas, and submitted to our laboratory on September 23, 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 686.0 feet and that the well be plugged back to 694.0 feet.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:bjo

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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Sanders-Thoureen, Inc. Lease Inge Well No. W-107

Location 440' WEL & 660' SNL, SE/4

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

Name of Sand	- - - - -	Stray
Top of Core	- - - - -	682.0
Bottom of Core	- - - - -	707.0
Top of Sand	- - - - - (Tested) - - - - -	684.0
Bottom of Sand	- - - - - (Tested) - - - - -	698.0
Total Feet of Permeable Sand	- - - - -	13.0
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand: Permeability Range Millidarcys

	Feet	Cum. Ft.
24 - 50	5.3	5.3
50 - 100	2.7	8.0
100 - 200	3.0	11.0
200 & above	2.0	13.0

Average Permeability Millidarcys	- - - - -	103.9
Average Percent Porosity	- - - - -	21.5
Average Percent Oil Saturation	- - - - -	30.0
Average Percent Water Saturation	- - - - -	48.9
Average Oil Content, Bbls./A. Ft.	- - - - -	498.
Total Oil Content, Bbls./Acre	- - - - -	6,966
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	- - - - -	

- LOG -

Depth Interval, Feet	Description
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682.0 - 684.0	- Gray, brown laminated shaly sandstone.
684.0 - 685.0	- Sandy limestone.
685.0 - 690.3	- Brown slightly calcareous sandstone.
690.3 - 691.7	- Brown calcareous sandstone.
691.7 - 693.0	- Brown slightly calcareous sandstone.
693.0 - 694.0	- Brown laminated slightly calcareous slightly shaly sandstone.
694.0 - 695.0	- Brown slightly calcareous sandstone.
695.0 - 702.3	- Grayish light brown slightly calcareous sandstone.
702.3 - 703.0	- Shale.
703.0 - 703.2	- Coal.
703.2 - 707.0	- 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-107

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	684.5	13.5	11	82	115	Imp.	1.0	1.0	115	0.00
2	685.5	21.7	30	39	504	89.	1.0	2.0	504	89.00
3	686.5	23.4	36	36	651	118.	1.0	3.0	651	118.00
4	687.5	23.7	36	41	661	48.	1.0	4.0	661	48.00
5	688.5	21.4	30	47	498	38.	1.0	5.0	498	38.00
6	689.5	23.2	36	38	647	24.	1.3	6.3	841	31.20
7	690.5	15.3	40	39	474	46.	0.7	7.0	332	32.20
8	691.5	17.8	38	37	524	87.	0.7	7.7	366	60.90
9	692.5	22.6	38	41	666	49.	1.3	9.0	865	68.70
10	693.5	19.6	38	53	577	80.	1.0	10.0	577	80.00
11	694.5	18.8	34	35	496	149.	1.0	11.0	496	149.00
12	695.5	23.4	22	51	398	175.	1.0	12.0	398	175.00
13	696.5	27.4	21	64	445	256.	1.0	13.0	445	256.00
14	697.5	25.5	11	81	217	208.	1.0	14.0	217	208.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sanders-Thoureen, Inc.	Lease	Inge	Well No.	W-107
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
684.0 - 685.0	1.0	0.0	0.00		
685.0 - 695.0	10.0	71.0	710.00		
695.0 - 698.0	3.0	213.0	639.00		
684.0 - 698.0	13.0	103.9	1,349.00		
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
684.0 - 685.0	1.0	13.5	11.0	115	115
685.0 - 695.0	10.0	21.1	35.5	579	5,791
695.0 - 698.0	3.0	25.4	18.0	353	1,060
684.0 - 698.0	14.0	21.5	30.0	498	6,966