



OILFIELD RESEARCH LABORATORIES

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

August 29, 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. 0-82, Elk County, Kansas, and submitted to our laboratory on August 26, 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 653.5 and that the well be plugged back to 663.0.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
rf.

Benjamin R. Pearman

BRP:rf

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

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Sanders-Thoureen, Inc. Lease Inge Well No. 0-82

Location _____

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

Name of Sand - - - - - Stray

Top of Core - - - - - 652.0

Bottom of Core - - - - - 679.0

Top of ^{Pay}Sand - - - - - 654.0

Bottom of ^{Pay}Sand - - - - - 663.9

Total Feet of Permeable Sand - - - - - 18.8

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10	2.0	2.0
10 - 50	5.0	7.0
50 - 100	2.3	9.3
100 - 200	7.7	17.0
200 & above	1.8	18.8

Average Permeability Millidarcys - - - - - 104.0

Average Percent Porosity - - - - - 21.8

Average Percent Oil Saturation - - - - - 31.8

Average Percent Water Saturation - - - - - 54.5

Average Oil Content, Bbls./A. Ft. - - - - - 535.

Total Oil Content, Bbls./Acre - - - - - 10,061.

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 - - - - -

OILFIELD RESEARCH LABORATORIES

-LOG-

Company Sanders-Thoureen, Inc. Lease Inge Well No. 0-82

Depth Interval, Feet	Description
-------------------------	-------------

652.0 - 652.7	Gray, laminated sandstone and shale.
---------------	--------------------------------------

652.7 - 654.0	Light brown, shaly sandstone.
---------------	-------------------------------

654.0 - 658.7	Brown, slightly shaly sandstone.
---------------	----------------------------------

658.7 - 662.4	Brown, slightly calcareous sandstone.
---------------	---------------------------------------

662.4 - 662.7	Light brown, shaly sandstone.
---------------	-------------------------------

662.7 - 663.9	Brown, slightly calcareous sandstone.
---------------	---------------------------------------

663.9 - 670.8	Light brown, slightly calcareous sandstone.
---------------	---

670.8 - 671.0	Gray carbonaceous sandstone.
---------------	------------------------------

671.0 - 671.4	Gray, laminated, sandy shale.
---------------	-------------------------------

671.4 - 671.8	Coal.
---------------	-------

671.8 - 675.3	Light brown, finely laminated, shaly sandstone.
---------------	---

675.3 - 679.0	Gray, finely laminated, shaly sandstone.
---------------	--

Oilfield Research Laboratories

TABLE 1-B

Company			Sanders-Thoureen, Inc.			Lease			Inge			Well No.			0-82		
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	652.5	18.2	1	88	89	14	0.37	0.7	0.7	10	0.26						
2	653.5	20.2	20	64	84	313	10.	1.3	2.0	406	13.00						
3	654.5	23.5	46	32	78	838	35.	1.0	3.0	838	35.00						
4	655.5	21.4	33	48	81	547	49.	1.0	4.0	547	49.00						
5	656.5	23.4	43	42	85	781	61.	1.0	5.0	781	61.00						
6	657.5	24.4	50	39	89	946	30.	1.0	6.0	946	30.00						
7	658.5	21.0	40	44	84	651	11.	0.7	6.7	456	7.70						
8	659.5	19.8	44	39	83	675	88.	1.3	8.0	876	114.40						
9	660.5	20.6	45	39	84	719	266.	1.0	9.0	719	266.00						
10	661.5	24.2	36	39	75	674	128.	1.4	10.4	942	179.20						
11	662.5	17.3	37	59	96	496	38.	0.3	10.7	149	11.40						
12	663.5	16.8	48	44	92	624	173.	1.2	11.9	749	207.60						
13	664.5	22.8	29	51	80	513	150.	1.1	13.0	564	165.00						
14	665.5	22.9	22	66	88	391	166.	1.0	14.0	391	166.00						
15	666.5	21.0	21	67	88	342	116.	1.0	15.0	342	116.00						
16	667.5	23.2	17	76	93	306	145.	1.0	16.0	306	145.00						
17	668.5	24.9	16	76	92	309	143.	1.0	17.0	309	143.00						
18	669.5	22.2	17	77	94	293	44.	1.0	18.0	293	44.00						
19	670.5	24.3	29	67	96	546	253.	0.8	18.8	437	202.40						
Total								-----		10,061							

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sanders-Thoureen, Inc.	Lease	Inge	Well No.	0-82
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
652.0 - 654.0	2.0	6.6	13.26		
654.0 - 663.9	9.9	97.1	961.30		
663.9 - 670.8	6.9	142.3	981.40		
652.0 - 670.8	18.8	104.0	1,955.96		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
652.0 - 654.0	2.0	19.5	13.4	72.4	416
654.0 - 663.9	9.9	21.6	42.6	41.1	7,003
663.9 - 670.8	6.9	23.0	21.5	68.4	2,642
652.0 - 670.8	18.8	21.8	31.8	54.5	10,061