

# OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

June 4, 1980

Triangle Petroleum Company, Inc.  
211 East Laurel  
P.O. Box 1047  
Independence, Kansas 67301

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Shaw Lease, Well No. 10, Montgomery County, Kansas, and submitted to our laboratory on May 19, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

  
Sanford A. Michel

SAM/tem

20 c to Independence, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Triangle Petroleum Company, Inc. Lease Shaw Well No. 10  
 Location 1080' FSL & 860' FEL, SW $\frac{1}{4}$   
 Section 6 Twp. 34S Rge. 14E County Montgomery State Kansas

Elevation, Feet . . . . .	
Name of Sand . . . . .	Wayside
Top of Core . . . . .	695.0
Bottom of Core . . . . .	709.1
Top of Sand . . . . .	695.0
Bottom of Sand . . . . .	709.1
Total Feet of Permeable Sand . . . . .	14.1

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.6	2.6
10 - 20	5.2	7.8
20 - 35	3.4	11.2
45 & Above	2.9	14.1

Average Permeability Millidarcys . . . . .	24.9
Average Percent Porosity . . . . .	16.8
Average Percent Oil Saturation . . . . .	27.6
Average Percent Water Saturation . . . . .	57.5
Average Oil Content, Bbls./A. Ft. . . . .	357.
Total Oil Content, Bbls./Acre . . . . .	5,027.

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LOGName Triangle Petroleum Company, Inc. Lease Shaw Well No. 10

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
695.0 - 695.8	Brown sandstone.
695.8 - 699.9	Brown slightly calcareous sandstone.
699.9 - 701.1	Brown slightly calcareous slightly shaly sandstone.
701.1 - 703.3	Brown slightly calcareous sandstone.
703.3 - 703.9	Brown slightly shaly sandstone.
703.9 - 705.2	Brown slightly calcareous sandstone containing a vertical fracture.
705.2 - 706.0	Brown slightly calcareous slightly shaly sandstone containing a vertical fracture.
706.0 - 709.1	Brown slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Triangle Petroleum Company, Inc. Lease Shaw

Well No. 10

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	695.5	15.5	24	53	77	289	64.	0.8	0.8	231	51.20
2	696.5	15.8	28	54	82	343	56.	1.1	1.9	377	61.60
3	697.5	14.0	32	50	82	348	15.	1.0	2.9	348	15.00
4	698.5	17.6	20	60	80	273	17.	1.0	3.9	273	17.00
5	699.5	15.7	22	65	87	268	16.	1.0	4.9	268	16.00
6	700.2	17.8	26	63	89	359	9.2	1.2	6.1	431	11.04
7	701.5	16.9	26	65	91	341	13.	1.2	7.3	409	15.60
8	702.5	18.4	31	53	84	443	46.	1.0	8.3	443	46.00
9	703.5	17.8	26	59	85	359	7.4	0.6	8.9	215	4.44
10	704.5	19.4	25	56	81	376	31.	1.3	10.2	489	40.30
11	705.5	16.0	29	60	89	360	9.5	0.8	11.0	288	7.60
12	706.5	16.0	43	45	88	534	22.	1.0	12.0	534	22.00
13	707.5	13.9	30	65	95	324	17.	1.0	13.0	324	17.00
14	708.7	18.6	25	56	81	361	24.	1.1	14.1	397	26.40

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Triangle Petroleum Company, Inc. Lease Shaw Well No. 10

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
695.0 - 709.1	14.1	24.9	351.18

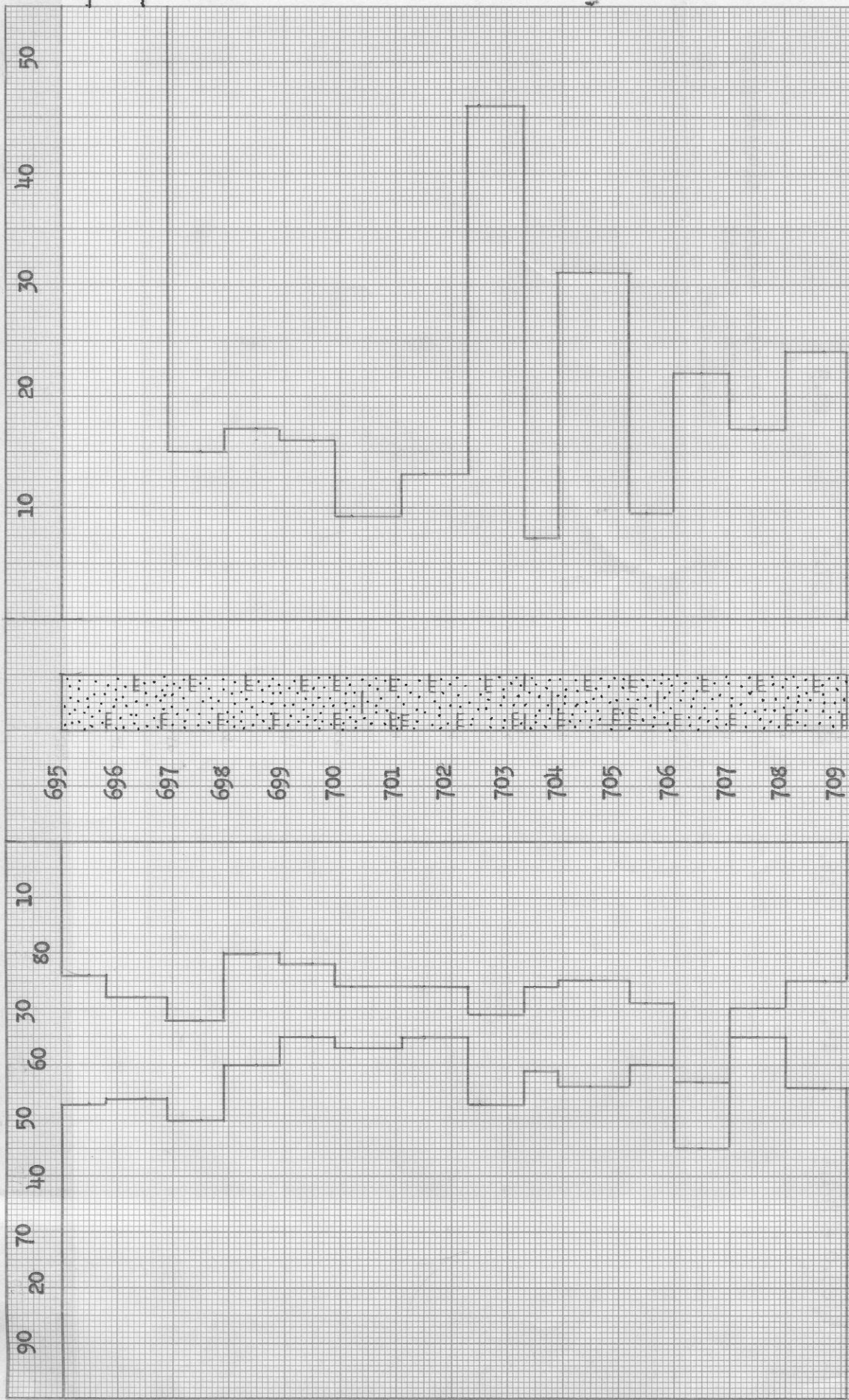
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
695.0 - 709.1	14.1	16.8	27.6	357	5,027

WATER SAT.,  
PERCENT

OIL SAT.,  
PERCENT

PERMEABILITY, IN MILLIDARCS

64 →  
56 →



KEY:

- SANDSTONE
- CALCAREOUS SHALY SANDSTONE
- CALCAREOUS SANDSTONE CONTAINING A VERTICAL FRACTURE

- CALCAREOUS SANDSTONE
- SHALY SANDSTONE
- CALCAREOUS SHALY SANDSTONE CONTAINING A VERTICAL FRACTURE

KEY:



SANDSTONE



CALCAREOUS SANDSTONE



CALCAREOUS SHALY SANDSTONE



SHALY SANDSTONE



CALCAREOUS SANDSTONE CONTAINING A VERTICAL FRACTURE



CALCAREOUS SHALY SANDSTONE CONTAINING A VERTICAL FRACTURE

# TRIANGLE PETROLEUM COMPANY, INC.

SHAW LEASE

WELL NO. 10

MONTGOMERY COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE	
		PERCENT POROSITY	PERCENT	SATURATION PERCENT	SATURATION PERCENT	SATURATION PERCENT	PERMEABILITY, MILLIDARCY'S		
695.0 - 709.1	14.1	16.8	27.6	57.5	24.9				

OILFIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS  
JUNE, 1980  
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