

# OILFIELD RESEARCH LABORATORIES

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

August 26, 1980

Triangle Petroleum Company  
Box 1047  
Independence, Kansas 67301

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Miller Lease, Well No. 5, Montgomery County, Kansas, and submitted to our laboratory on August 2, 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

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Triangle Petroleum Company Lease Miller Well No. 5

Location 565' ESL & 1255' FEL NW $\frac{1}{4}$

Section 14 Twp. 31S Rge. 16E County Montgomery State Kansas

Elevation, Feet . . . . .	
Name of Sand . . . . .	Bartlesville
Top of Core . . . . .	837.0
Bottom of Core . . . . .	845.5
Top of Sand . . . . .	837.0
Bottom of Sand . . . . .	845.5
Total Feet of Permeable Sand . . . . .	6.5

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.5	2.5
1 & Above	4.0	6.5

Average Permeability Millidarcys . . . . .	1.1
Average Percent Porosity . . . . .	11.7
Average Percent Oil Saturation . . . . .	39.2
Average Percent Water Saturation . . . . .	42.6
Average Oil Content, Bbls./A. Ft. . . . .	348.
Total Oil Content, Bbls./Acre . . . . .	2,960.

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LOG

Name Triangle Petroleum Company Lease Miller Well No. 5

DEPTH INTERVAL  
FEET

DESCRIPTION

837.0 - 845.5

Light brown very shaly sandstone.

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**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE 1-B**

Company Triangle Petroleum Company Lease Miller Well No. 5

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	837.5	12.8	43	43	86	427	Imp.	1.0	1.0	427	0.00
2	838.5	11.0	42	56	98	358	0.28	1.0	2.0	358	0.28
3	839.5	14.0	36	36	72	391	1.2	1.0	3.0	391	1.20
4	840.5	13.5	28	41	69	293	1.9	1.0	4.0	293	1.90
5	341.5	9.5	36	53	89	265	1.1	1.0	5.0	265	1.10
6	842.5	11.9	47	29	76	434	2.0	1.0	6.0	434	2.00
7	843.5	7.1	51	47	98	281	Imp.	1.0	7.0	281	0.00
8	844.5	13.0	31	40	71	313	0.34	1.0	8.0	313	0.34
9	845.3	13.4	38	35	73	395	0.92	0.5	8.5	198	0.46

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Triangle Petroleum Company Lease Miller Well No. 5

Permeability  
Capacity  
Ft. x Md.

Average  
Permeability,  
Millidarcys

Feet of Core  
Analyzed

Depth Interval,  
Feet

7.28

1.1

6.5

837.0 - 845.5

Total Oil  
Content  
Bbls./Acre

Average  
Oil Content  
Bbl./A. Ft.

Average  
Percent Water  
Saturation

Average  
Percent Oil  
Saturation

Average  
Percent  
Porosity

Feet of Core  
Analyzed

Depth Interval,  
Feet

2,960

348

42.6

39.2

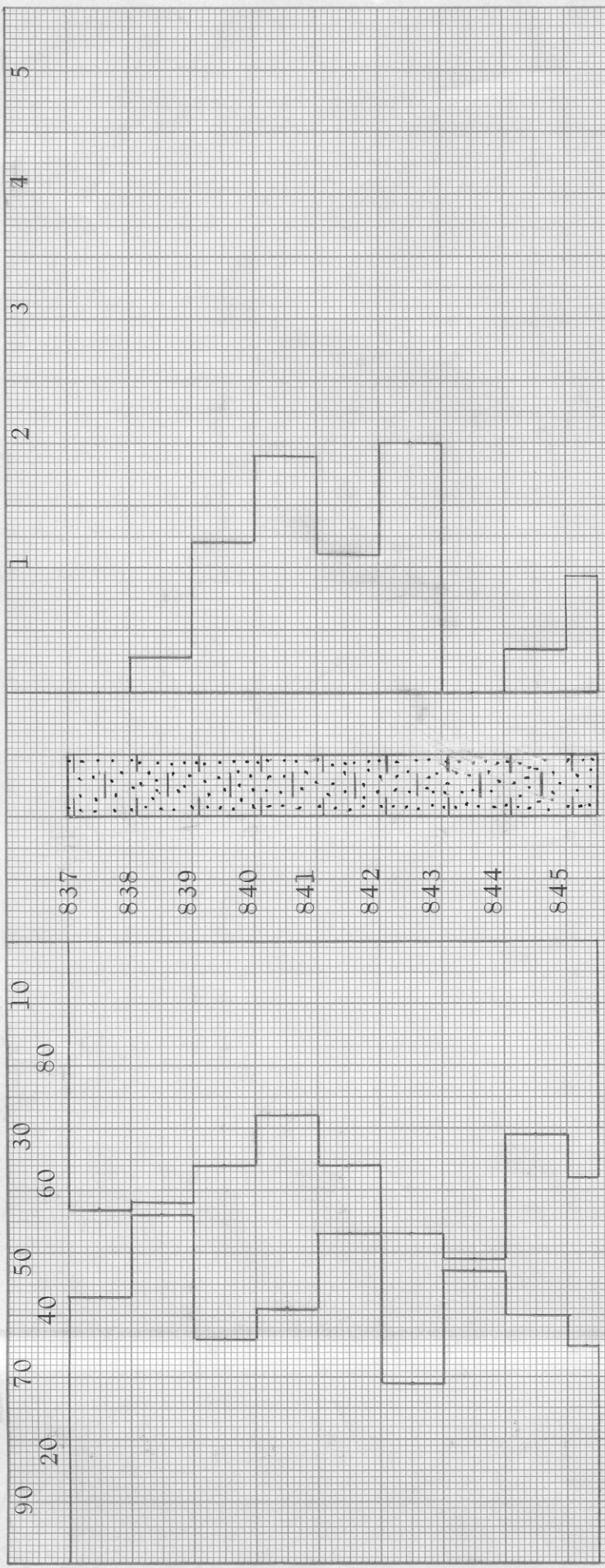
11.7

8.5

837.0 - 845.5

WATER SAT., ———→ OIL SAT.,  
PERCENT PERCENT

————— PERMEABILITY, IN MILLIDARCY



KEY:

▨ SHALY SANDSTONE

# TRIANGLE PETROLEUM COMPANY, INC.

MILLER LEASE  
MONTGOMERY COUNTY, KANSAS  
WELL NO. 5

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCY
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837.0 - 845.5	8.5	11.7	39.2	42.6	1.1
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