

# OILFIELD RESEARCH LABORATORIES

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

June 15, 1982

Conti Oil Corporation  
1420 South Santa Fe  
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Gerken Lease, Well No. 30, located in Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on June 11, 1982. This report consists of the results of the Bartlesville Sand core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/dlb

5 c to Chanute, Kansas

**Oilfield Research Laboratories**  
**GENERAL INFORMATION & SUMMARY**

Company Conti Oil Corporation Lease Gerken Well No. 30  
 Location SW ¼  
 Section 7 Twp. 26S Rge. 19E County Allen State Kansas

Elevation, Feet .....

Name of Sand..... Bartlesville

Top of Core ..... 827.0

Bottom of Core ..... 846.9

Top of Sand ..... 827.0

Bottom of Sand ..... 846.9

Total Feet of Permeable Sand ..... 16.5

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	10.8	10.8
10 - 50	2.3	13.1
100 - 300	3.4	16.5

Average Permeability Millidarcys ..... 49.4

Average Percent Porosity ..... 19.5

Average Percent Oil Saturation ..... 25.6

Average Percent Water Saturation ..... 47.1

Average Oil Content, Bbls./A. Ft. .... 395.

Total Oil Content, Bbls./Acre ..... 7,625.

## OILFIELD RESEARCH LABORATORIES

LOGName Conti Oil Corporation Lease Gerken Well No. 30

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SAND</u>
827.0 - 827.6	Light brown shaly sandstone.
827.6 - 828.8	Grayish light brown very shaly sandstone.
828.8 - 830.0	Light brown sandstone.
830.0 - 830.6	Gray slightly sandy shale.
830.6 - 831.0	Light brown shaly sandstone.
831.0 - 832.1	Brown sandstone.
832.1 - 835.2	Grayish light brown very shaly sandstone.
835.2 - 835.8	Light brown shaly sandstone.
835.8 - 837.2	Light brown slightly shaly sandstone.
837.2 - 839.0	Light brown shaly sandstone.
839.0 - 839.5	Brown slightly shaly sandstone.
839.5 - 840.6	Brown shaly sandstone.
840.6 - 842.2	Gray very shaly sandstone.
842.2 - 843.5	Brown sandstone with scattered fine gray shale partings.
843.5 - 846.9	Brown sandstone with scattered fine coal partings.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE 1-B**

Company Conti Oil Corporation Lease Gerken Well No. 30

BARTLESVILLE SAND

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	827.5	13.1	38	58	386	1.8	0.6	0.6	232	1.08
2	828.6	19.6	19	43	289	0.84	1.2	1.8	347	1.01
3	829.6	22.1	34	43	583	12.	1.2	3.0	700	14.40
4	830.7	18.4	14	60	200	1.3	0.4	3.4	80	0.52
5	831.5	22.2	20	44	345	31.	1.1	4.5	380	34.10
6	832.4	17.1	24	55	318	0.26	0.9	5.4	286	0.23
7	833.6	15.5	11	62	132	0.23	1.0	6.4	132	0.23
8	834.5	16.0	21	58	261	Imp.	1.2	7.6	313	0.00
9	835.5	20.4	32	46	506	4.3	0.6	8.2	304	2.58
10	836.5	20.7	33	41	530	6.3	1.4	9.6	742	8.82
11	837.6	16.7	39	44	505	4.9	0.8	10.4	404	3.92
12	838.4	17.6	27	46	369	5.2	1.0	11.4	369	5.20
13	839.4	20.4	43	30	681	6.8	0.5	11.9	341	3.40
14	840.5	20.0	32	33	497	5.0	1.1	13.0	547	5.50
15	841.5	14.2	10	54	110	Imp.	1.6	14.6	176	0.00
16	842.7	20.1	29	40	452	10.	1.3	15.9	588	13.00
17	843.7	24.9	25	50	483	221.	0.5	16.4	242	110.50
18	844.5	24.3	24	49	452	221.	1.0	17.4	452	221.00
19	845.5	25.1	27	43	526	259.	1.0	18.4	526	259.00
20	846.4	24.6	27	49	515	145.	0.9	19.3	464	130.50

# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

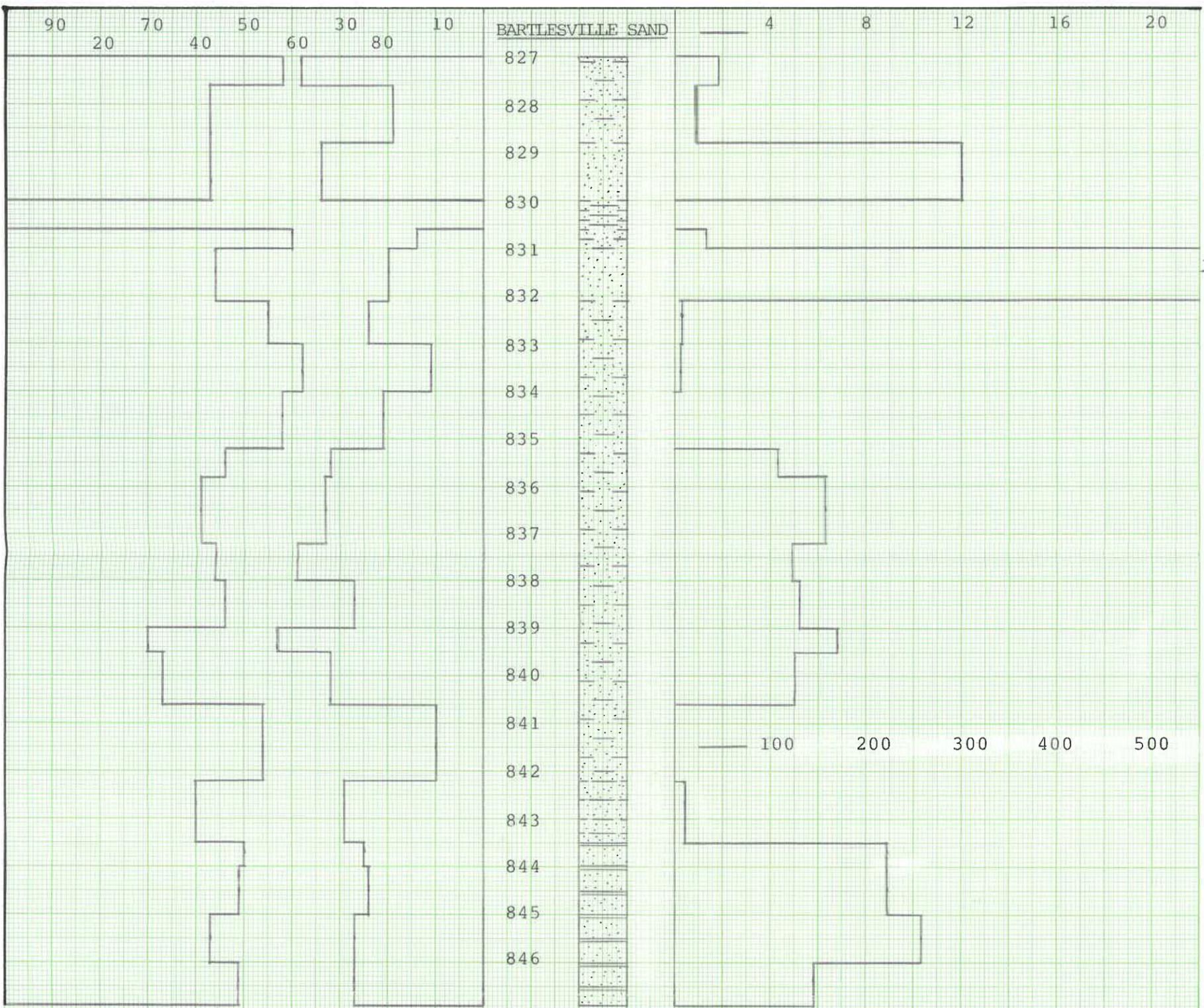
TABLE III

Company	Lease	Gerken	Well No.		
Conti Oil Corporation			30		
<u>BARTLESVILLE SAND</u>					
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
827.0 - 835.2	6.4	8.1	51.57		
835.2 - 840.6	5.4	5.5	29.42		
840.6 - 846.9	4.7	156.2	734.00		
827.0 - 846.9	16.5	49.4	814.99		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
827.0 - 835.2	7.6	22.6	51.5	325	2,470
835.2 - 840.6	5.4	33.4	40.3	501	2,707
840.6 - 846.9	6.3	22.5	47.5	389	2,448
827.0 - 846.9	19.3	25.6	47.1	395	7,625

WATER SAT., PERCENT

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:



SANDSTONE



SANDY SHALE



SHALY SANDSTONE



SANDSTONE WITH SHALE PARTINGS



SANDSTONE WITH COAL PARTINGS

# CONTI OIL CORPORATION

GERKEN LEASE

ALLEN COUNTY, KANSAS

WELL NO. 30

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
<u>BARTLESVILLE SAND</u>					
827.0 - 835.2	7.6	18.4	22.6	51.5	8.1
835.2 - 840.6	5.4	19.3	33.4	40.3	5.5
840.6 - 846.9	6.3	21.1	22.5	47.5	156.2
827.0 - 846.9	19.3	19.5	25.6	47.1	49.4

OILFIELD RESEARCH LABORATORIES  
 CHANUTE, KANSAS  
 JUNE, 1982

PDC