

OILFIELD RESEARCH LABORATORIES

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

May 27, 1982

Conti Oil Corporation
1420 South Santa Fe
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary cores taken from the Gerken Lease, Well No. 17, located in Allen County, Kansas.

The cores were sampled and sealed in plastic bags by a representative of the client and were submitted to our laboratory on May 24, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/kas

5 c to Chanute, Kansas

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Conti Oil Corporation Lease Gerken Well No. 17
 Location 660' FSL & 660' FWL, SW $\frac{1}{4}$
 Section 7 Twp. 26S Rge. 19E County Allen State Kansas

Elevation, Feet

Name of Sand.....	Bartlesville	Tucker
Top of Core	835.0	971.0
Bottom of Core	844.3	986.6
Top of Sand	835.0	971.0
Bottom of Sand	844.3	984.3
Total Feet of Permeable Sand	8.5	13.5

Distribution of Permeable Sand:
 Permeability Range
 Millidarcys

Feet

Cum. Ft.

	Feet	Cum. Ft.
<u>BARTLESVILLE SAND</u>		
0 - 20	3.2	3.2
20 - 50	3.2	6.4
50 & Over	2.1	8.5
<u>TUCKER SAND</u>		
0 - 20	5.0	5.0
20 - 50	8.0	13.0
50 & Over	0.5	13.5

Average Permeability Millidarcys	62.7	25.7
Average Percent Porosity	18.7	18.1
Average Percent Oil Saturation	23.7	24.4
Average Percent Water Saturation.....	51.4	54.7
Average Oil Content, Bbls./A. Ft.....	351.	342.
Total Oil Content, Bbls./Acre.....	3,267.	4,617.

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LOGName Conti Oil Corporation Lease Gerken Well No. 17

<u>Depth Interval, Feet</u>	<u>Description</u>
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BARTLESVILLE SAND

835.0 - 835.8	Grayish light brown very shaly sandstone.
835.8 - 841.0	Light brown sandstone.
841.0 - 842.2	Light brown slightly shaly sandstone.
842.2 - 844.3	Light brown sandstone.

TUCKER SAND

971.0 - 972.1	Brown slightly shaly sandstone.
972.1 - 973.0	Brown shaly sandstone.
973.0 - 984.5	Brown sandstone.
984.5 - 984.7	Gray shale.
984.7 - 985.2	Coal.
985.2 - 986.6	Gray shale with coal partings.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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	835.4	13.2	10	82	102	Imp.	0.8	0.8	82	0.00
2	836.4	20.6	23	54	368	25.	1.2	2.0	442	30.00
3	837.4	20.4	35	48	554	47.	1.0	3.0	554	47.00
4	838.5	18.1	26	57	365	13.	1.0	4.0	365	13.00
5	839.5	18.0	29	54	405	13.	1.0	5.0	405	13.00
6	840.5	19.4	25	49	376	44.	1.0	6.0	376	44.00
7	841.5	17.0	19	67	251	7.4	1.2	7.2	301	8.88
8	842.5	20.9	25	61	405	60.	1.0	8.2	405	60.00
9	843.5	19.7	20	44	306	288.	1.1	9.3	337	316.80
					<u>TUCKER SAND</u>					
10	971.6	17.4	27	49	365	6.8	1.1	1.1	402	7.48
11	972.6	18.4	28	45	400	3.1	0.9	2.0	360	2.79
12	973.7	15.8	22	59	270	11.	1.0	3.0	270	11.00
13	974.5	17.4	25	55	338	21.	1.0	4.0	338	21.00
14	975.6	17.0	29	46	383	25.	1.0	5.0	383	25.00
15	976.6	17.2	26	55	347	18.	1.0	6.0	347	18.00
16	977.5	18.1	28	52	393	36.	1.0	7.0	393	36.00
17	978.5	19.2	25	53	372	47.	1.0	8.0	372	47.00
18	979.5	16.0	15	70	186	17.	1.0	9.0	186	17.00
19	980.5	18.4	29	55	414	23.	1.0	10.0	414	23.00
20	981.4	19.9	24	56	371	44.	1.0	11.0	371	44.00
21	982.6	19.0	22	57	324	22.	1.0	12.0	324	22.00
22	983.5	19.8	13	59	200	46.	1.0	13.0	200	46.00
23	984.4	20.7	32	53	514	52.	0.5	13.5	257	26.00

Company Conti Oil Corporation

Lease

Gerken

Well No. 17

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Conti Oil Corporation	Lease	Gerken	Well No.					
				17					
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.					
			<u>BARTLESVILLE SAND</u>						
	835.0 - 844.3	8.5	62.7	532.68					
			<u>TUCKER SAND</u>						
	971.0 - 984.5	13.5	25.7	346.27					
					Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
			<u>BARTLESVILLE SAND</u>						
	835.0 - 844.3	9.5	18.7		23.7	51.4	351	3,267	
			<u>TUCKER SAND</u>						
	971.0 - 984.5	13.5	18.1		24.4	54.7	342	4,617	

PERCENT

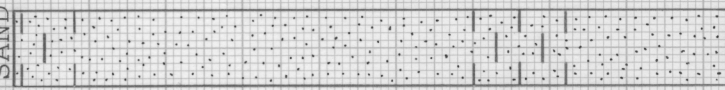
100

80

60

20

BARTLESVILLE SAND



835
836
837
838
839
840
841
842
843
844

10

80

30

60

50

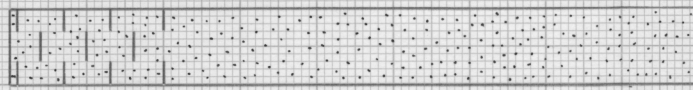
40

70

20

90

TUCKER SAND



971
972
973
974
975
976
977
978
979
980



979

980

981

982

983

984

985

986

KEY:



SANDSTONE



SHALE



SHALY SANDSTONE



SHALE WITH COAL PARTINGS



COAL

CONTI OIL CORPORATION

GERKEN LEASE

ALLEN COUNTY, KANSAS

WELL NO. 17

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
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BARTLESVILLE SAND

835.0 - 844.3	9.5	18.7	23.7	51.4	62.7
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TUCKER SAND

971.0 - 984.5	13.5	18.1	24.4	54.7	25.7
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OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 MAY, 1982

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