

OILFIELD RESEARCH LABORATORIES

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

June 11, 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. 32, 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 9, 1982. This report consists of the results of the Tucker 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. 32
 Location SW $\frac{1}{4}$
 Section 7 Twp. 26S Rge. 19E County Allen State Kansas

Elevation, Feet
 Name of Sand..... Tucker
 Top of Core 960.0
 Bottom of Core 977.2
 Top of Sand (Tested) 962.9
 Bottom of Sand 977.2
 Total Feet of Permeable Sand (Tested) 10.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.3	2.3
30 - 40	5.5	7.8
40 - 60	3.1	10.9

Average Permeability Millidarcys 33.2
 Average Percent Porosity 21.4
 Average Percent Oil Saturation 22.4
 Average Percent Water Saturation..... 33.9
 Average Oil Content, Bbls./A. Ft. 368.
 Total Oil Content, Bbls./Acre..... 4,016.

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LOG

Name Conti Oil Corporation Lease Gerken Well No. 32

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>TUCKER SAND</u>
960.0 - 962.9	Gray very shaly sandstone.
962.9 - 964.5	Brown sandstone.
964.5 - 967.4	Gray very shaly sandstone.
967.4 - 968.5	Brown sandstone.
968.5 - 969.7	Alternate layers gray shale and brown sandstone.
969.7 - 972.5	Brown sandstone.
972.5 - 973.6	Brown slightly shaly sandstone.
973.6 - 974.5	Brown sandstone.
974.5 - 975.0	Grayish light brown shaly sandstone.
975.0 - 976.3	Brown sandstone.
976.3 - 977.2	Grayish brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Conti Oil Corporation Lease Gerken Well No. 32

TUCKER SAND

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	963.5	20.4	24	29	53	380	36.	1.0	1.0	380	36.00
2	964.4	21.1	34	19	53	557	36.	0.6	1.6	334	21.60
3	967.6	20.4	26	24	50	411	39.	0.6	2.2	247	23.40
4	968.4	20.6	22	22	44	352	31.	0.5	2.7	176	15.50
5	969.6	19.1	25	41	66	370	4.3	1.2	3.9	444	5.16
6	970.4	22.0	25	46	71	427	31.	1.0	4.9	427	31.00
7	971.6	23.0	16	39	55	286	36.	1.0	5.9	286	36.00
8	972.4	23.5	17	46	63	310	37.	0.8	6.7	248	29.60
9	973.5	21.1	27	30	57	442	9.4	1.1	7.8	486	10.34
10	974.3	22.7	21	45	66	370	43.	0.9	8.7	333	38.70
11	975.5	21.6	20	32	52	335	58.	1.3	10.0	436	75.40
12	976.4	20.9	15	19	34	243	43.	0.9	10.9	219	38.70

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SUMMARY OF PERMEABILITY & SATURATION TESTS

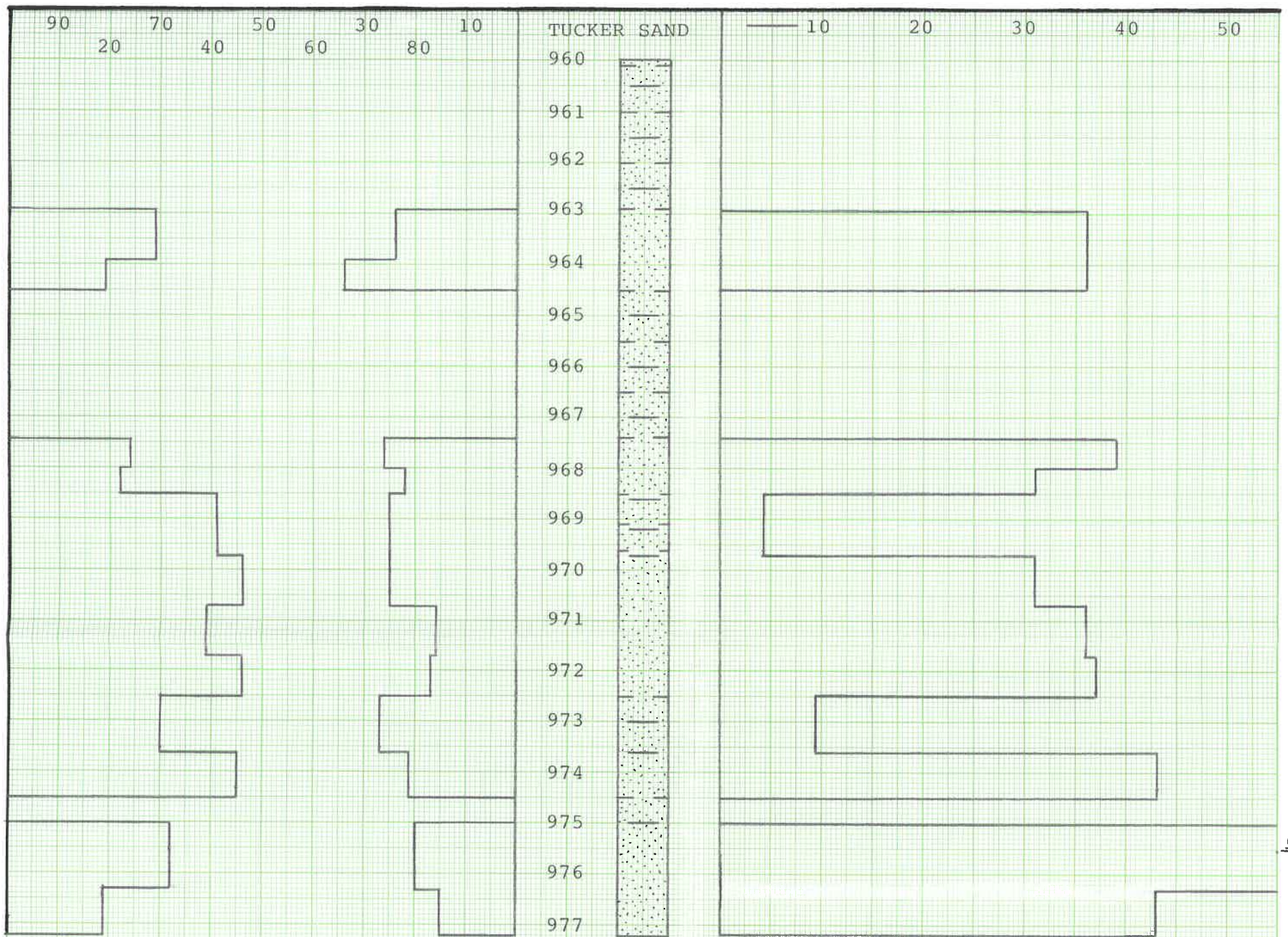
TABLE III

Company	Conti Oil Corporation	Lease	Gerken	Well No.	32								
		<u>TUCKER SAND</u>											
Depth Interval, Feet	962.9 - 977.2	Feet of Core Analyzed	10.9	Average Permeability, Millidarcys	33.2	Permeability Capacity Ft. x Md.	361.40						
Depth Interval, Feet	962.9 - 977.2	Feet of Core Analyzed	10.9	Average Percent Porosity	21.4	Average Percent Oil Saturation	22.4	Average Percent Water Saturation	33.9	Average Oil Content Bbl./A. Ft.	368	Total Oil Content Bbls./Acre	4,016

WATER SAT., PERCENT →

← OIL SAT., PERCENT

— PERMEABILITY, IN MILLIDARCYS



KEY:



SANDSTONE



SHALY SANDSTONE



ALTERNATE LAYERS OF SHALE AND SANDSTONE

CONTI OIL CORPORATION

GERKEN LEASE

WELL NO. 32

ALLEN COUNTY, KANSAS

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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TUCKER SAND					
962.9 - 977.2	10.9	21.4	22.4	33.9	33.2

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 CHANUTE, KANSAS
 JUNE, 1982. BL