



# 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 Tucker Sand core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/dlb

5 c to Chanute, Kansas

- REGISTERED ENGINEERS -

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

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

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

Elevation, Feet .....  
 Name of Sand ..... Tucker  
 Top of Core ..... 954.0  
 Bottom of Core ..... 969.6  
 Top of Sand ..... 954.0  
 Bottom of Sand ..... 969.6  
 Total Feet of Permeable Sand ..... 12.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.8	2.8
10 - 20	3.0	5.8
20 - 40	2.3	8.1
40 - 66	4.5	12.6

Average Permeability Millidarcys ..... 29.9  
 Average Percent Porosity ..... 21.5  
 Average Percent Oil Saturation ..... 20.9  
 Average Percent Water Saturation ..... 33.1  
 Average Oil Content, Bbls./A. Ft. .... 350.  
 Total Oil Content, Bbls./Acre ..... 4,408.

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LOGName Conti Oil Corporation Lease Gerken Well No. 30

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>TUCKER SAND</u>
954.0 - 954.9	Grayish light brown shaly sandstone.
954.9 - 957.0	Light brown sandstone.
957.0 - 958.4	Light brown sandstone with scattered fine gray shale partings.
958.4 - 960.5	Gray and brown finely laminated shale and sandstone.
960.5 - 960.7	Brown slightly shaly sandstone.
960.7 - 961.6	Gray and brown laminated shale and sandstone.
961.6 - 961.9	Light brown sandstone.
961.9 - 963.0	Light brown slightly shaly sandstone.
963.0 - 963.6	Light brown sandstone.
963.6 - 969.0	Brown sandstone.
969.0 - 969.6	Brown slightly shaly sandstone.

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**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE I-B**

Company Conti Oil Corporation Lease Gerken Well No. 30

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	954.5	18.8	17	45	62	248	1.5	0.9	0.9	223	1.35
2	955.5	23.3	11	40	51	199	41.	1.1	2.0	219	45.10
3	956.6	21.7	14	42	56	236	26.	1.0	3.0	236	26.00
4	957.5	21.0	10	47	57	163	14.	0.7	3.7	114	9.80
5	958.3	22.4	12	42	54	209	24.	0.7	4.4	146	16.80
6	960.6	19.9	18	33	51	278	6.7	0.2	4.6	56	1.34
7	961.7	21.5	5	37	42	83	19.	0.3	4.9	25	5.70
8	962.5	20.1	20	26	46	312	8.9	1.1	6.0	343	9.79
9	963.5	22.8	20	25	45	354	39.	0.6	6.6	212	23.40
10	964.5	23.5	31	25	56	565	65.	1.4	8.0	791	91.00
11	965.5	21.7	32	23	55	539	46.	1.0	9.0	539	46.00
12	966.5	23.8	30	31	61	554	58.	1.0	10.0	554	58.00
13	967.4	20.3	24	34	58	378	19.	1.0	11.0	378	19.00
14	968.5	20.1	22	27	49	343	18.	1.0	12.0	343	18.00
15	969.5	18.9	26	29	55	381	8.7	0.6	12.6	229	5.22

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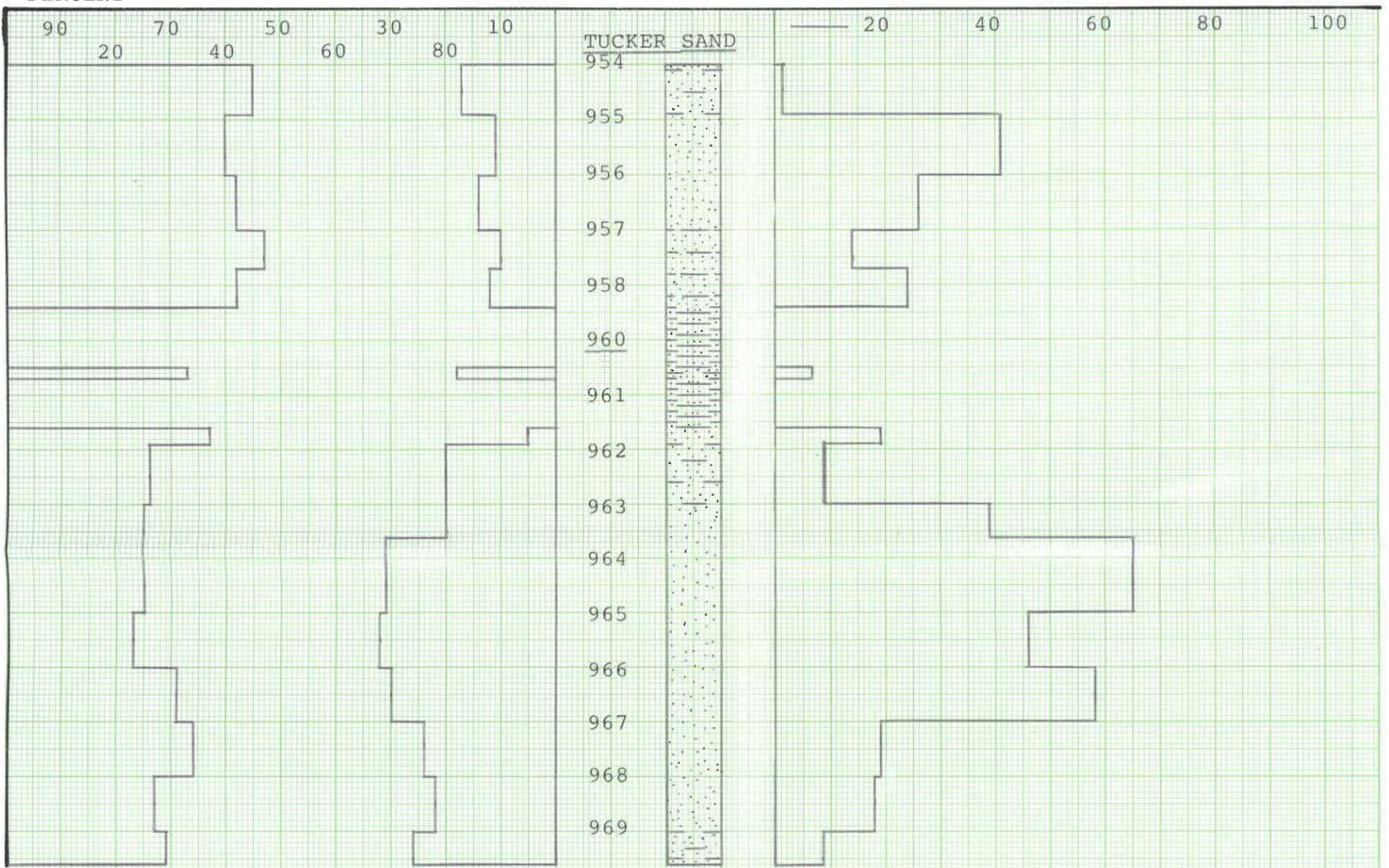
## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Gerken	Well No.			
Conti Oil Corporation			30			
<u>TUCKER SAND</u>						
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
954.0 - 961.9	4.9	21.7	106.09			
961.9 - 969.6	7.7	35.1	270.41			
954.0 - 969.6	12.6	29.9	376.50			
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
954.0 - 961.9	4.9	21.4	12.6	42.1	208	1,019
961.9 - 969.6	7.7	21.5	26.1	27.4	440	3,389
954.0 - 969.6	12.6	21.5	20.9	33.1	350	4,408

WATER SAT., PERCENT ← OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:



SANDSTONE



SHALY SANDSTONE



LAMINATED SANDSTONE AND SHALE



SANDSTONE WITH SHALE 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
TUCKER SAND					
954.0 - 961.9	4.9	21.4	12.6	42.1	21.7
961.9 - 969.6	7.7	21.5	26.1	27.4	35.1
954.0 - 969.6	12.6	21.5	20.9	33.1	29.9

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CHANUTE, KANSAS  
JUNE, 1982

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