

OILFIELD RESEARCH LABORATORIES

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

May 26, 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. 25, 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 21, 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. 25
 Location 1320' FSL & 1320' 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	939.0	971.0
Bottom of Core	946.3	981.5
Top of Sand	939.0	971.0
Bottom of Sand	942.0	981.5
Total Feet of Permeable Sand	1.1	9.3

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
<u>Bartlesville Sand</u>		
30 - 35	1.1	1.1
<u>Tucker Sand</u>		
5 - 15	2.8	2.8
25 - 40	4.5	7.3
50 - 60	2.0	9.3

Average Permeability Millidarcys	35.0	29.7
Average Percent Porosity	12.9	18.2
Average Percent Oil Saturation	24.0	30.7
Average Percent Water Saturation.....	64.4	54.4
Average Oil Content, Bbls./A. Ft.	260.	432.
Total Oil Content, Bbls./Acre.....	779.	4,020.

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LOGName Conti Oil Corporation Lease Gerken Well No. 25

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

939.0 - 940.1	Brown sandstone.
940.1 - 942.0	Grayish brown very shaly sandstone.
942.0 - 943.0	Coal.
943.0 - 946.3	Gray shale.

TUCKER SAND

971.0 - 972.6	Brown sandstone.
972.6 - 973.8	Gray shale.
973.8 - 975.0	Brown sandstone containing a vertical fracture.
975.0 - 976.0	Brown slightly shaly sandstone.
976.0 - 976.8	Brown shaly sandstone.
976.8 - 981.5	Brown sandstone with scattered fine shale partings containing a vertical fracture.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Conti Oil Corporation Lease Gerken Well No. 25

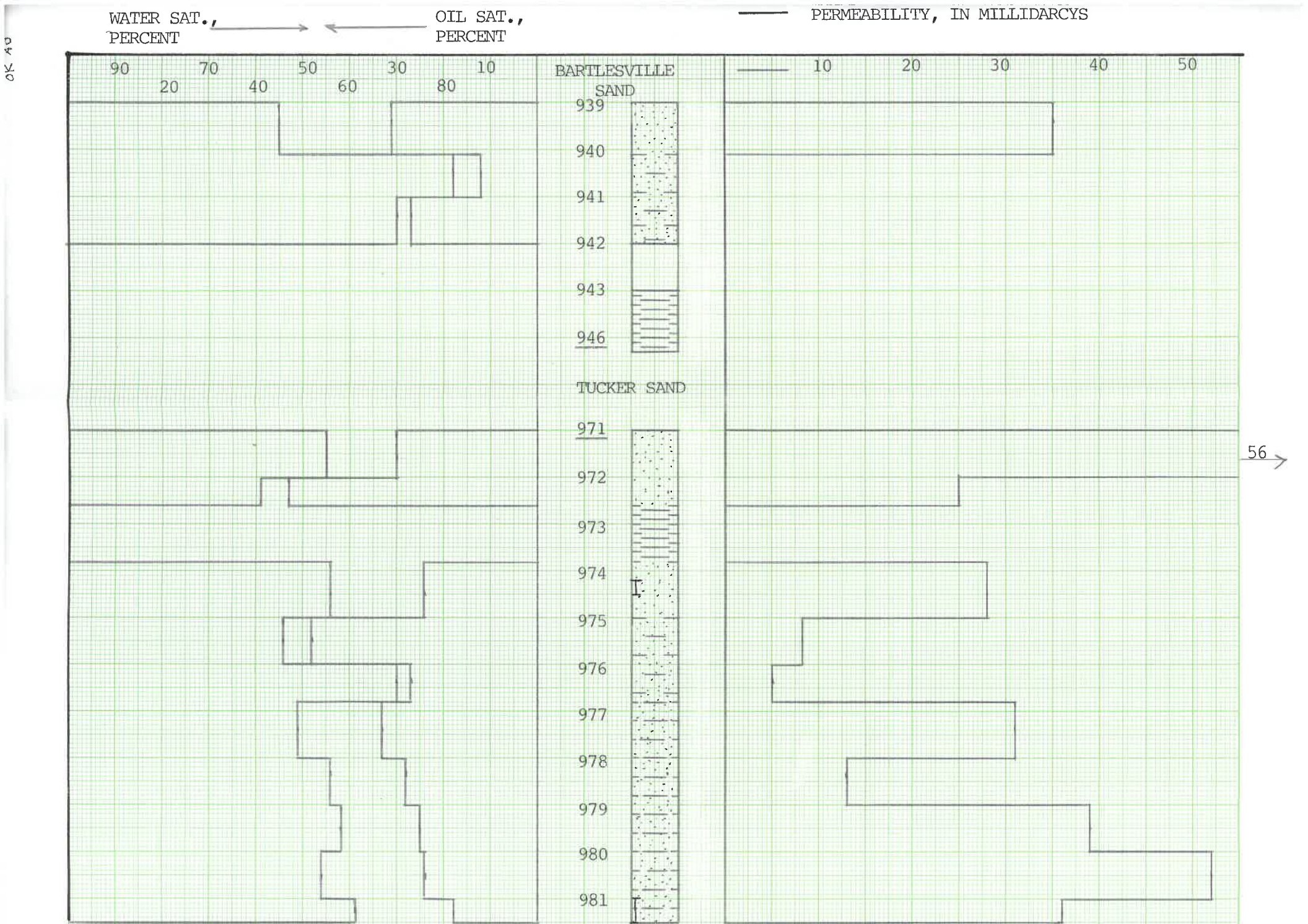
Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.	
			Oil	Water	Total			Ft.	Cum. Ft.			
1 2 3	839.4	17.9	31	45	76	431	35. Imp. Imp.	1.1	1.1	474	38.50	
	840.5	9.1	12	82	94			0.9	2.0	77	0.00	
	841.4	10.9	27	70	97			1.0	3.0	228	0.00	
4 5 6 7 8 9 10 11 12 13	<u>BARTLESVILLE SAND</u>						<u>TUCKER SAND</u>	1.0 0.6 1.2 1.0 0.8 1.2 1.0 1.0 1.0 0.5	1.0 1.6 2.8 3.8 4.6 5.8 6.8 7.8 8.8 9.3	454 459 440 648 263 553 382 341 354 126	56.00 15.00 33.60 8.30 4.00 37.20 13.00 39.00 52.00 18.00	
	971.6	19.5	30	55	85	454						56.
	972.5	18.6	53	41	94	765						25.
	974.5	19.7	24	56	80	367						28.
	975.5	17.4	48	46	94	648						8.3
	976.4	15.7	27	70	97	329						5.0
	977.4	18.0	33	49	82	461						31.
	978.4	17.6	28	56	84	382						13.
	979.5	17.6	25	58	83	341						39.
	980.5	19.0	24	54	78	354						52.
	981.3	18.0	18	61	79	251						36.

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Conti Oil Corporation		Lease	Gerken	Well No.	25
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
			<u>BARTLESVILLE SAND</u>			
	939.0 - 942.0	1.1	35.0	38.50		
			<u>TUCKER SAND</u>			
	971.0 - 981.5	9.3	29.7	276.10		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbbl./Acre
			<u>BARTLESVILLE SAND</u>			
	939.0 - 942.0	3.0	12.9	24.0	64.4	779
			<u>TUCKER SAND</u>			
	971.0 - 981.5	9.3	18.2	30.7	54.4	4,020



KEY:



COAL



SANDSTONE



SHALE



SHALY SANDSTONE



SANDSTONE WITH SHALE PARTINGS



FORMATION CONTAINING A VERTICAL FRACTURE

CONTINOIL CORPORATION

GERKEN LEASE

ALLIN COUNTY, KANSAS

WELL NO. 25

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
BARTLESVILLE SAND					
939.0 - 942.0	3.0	12.9	24.0	64.4	35.0
TUCKER SAND					
971.0 - 981.5	9.3	18.2	30.7	54.4	29.7

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CHANUTE, KANSAS
MAY, 1982

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