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

March 26, 1982

Conti Oil Corporation
P. O. Box 24
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Dudley Lease, Well No. 18, located in Neosho County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on March 24, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

Sanford A. Michel

SAM/kas

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company: Conti Oil Corporation Lease: Dudley Well No. 18

Location: 3795' EWL & 1485' NSL, SE¼

Section: 24 Twp.: 29S Rge.: 17E County: Neosho State: Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	864.0
Bottom of Core	884.0
Top of Sand (Tested)	865.3
Bottom of Sand	884.0
Total Feet of Permeable Sand	12.3

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 7	3.7	3.7
11 - 25	2.5	6.2
39 - 78	3.8	10.0
120 - 134	2.3	12.3

Average Permeability Millidarcys	47.8
Average Percent Porosity	16.2
Average Percent Oil Saturation	30.2
Average Percent Water Saturation	47.9
Average Oil Content, Bbls./A. Ft.	395.
Total Oil Content, Bbls./Acre	5,181.

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LOG

Name Conti Oil Corporation Lease Dudley Well No. 18

Depth Interval, Feet	Description
864.0 - 865.3	Gray very shaly sandstone.
865.3 - 866.7	Grayish light brown very shaly sandstone.
866.7 - 867.2	Grayish light brown very shaly sandstone with gray shale partings.
867.2 - 868.0	Gray slightly calcareous very shaly sandstone.
868.0 - 872.5	Gray shale containing a vertical fracture.
872.5 - 873.0	Light brown very shaly sandstone with gray shale partings containing a vertical fracture.
873.0 - 873.8	Light brown sandstone.
873.8 - 874.2	Gray and brown finely laminated shale and sandstone containing a vertical fracture.
874.2 - 875.0	Light brown sandstone with scattered fine shale partings containing a vertical fracture.
875.0 - 877.6	Light brown sandstone.
877.6 - 877.8	Brown sandstone with coal partings.
877.8 - 880.1	Brown sandstone.
880.1 - 880.6	Gray and brown laminated shale and sandstone.
880.6 - 882.7	Brown sandstone.
882.7 - 884.0	Brown slightly shaly sandstone with scattered gray shale partings.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Conti Oil Corporation Lease Dudley Well No. 18

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	865.7	14.3	21	52	73	233	1.6	0.7	0.7	163	1.12
2	866.6	11.7	15	42	57	136	0.66	0.7	1.4	95	0.46
3	867.5	9.4	12	83	95	88	Imp.	0.8	2.2	70	0.00
4	872.6	14.8	28	58	86	322	0.78	0.5	2.7	161	0.39
5	873.4	15.8	18	57	75	221	22.	0.8	3.5	177	17.60
6	874.7	15.7	13	48	61	158	52.	0.8	4.3	126	41.60
7	875.6	17.7	21	59	80	288	77.	1.0	5.3	288	77.00
8	876.5	17.6	51	23	74	696	74.	1.0	6.3	696	74.00
9	877.5	16.0	29	54	83	360	11.	0.6	8.9	216	6.60
10	878.5	17.6	39	29	68	533	133.	1.3	8.2	693	172.90
11	879.4	18.7	36	33	69	522	121.	1.0	9.2	522	121.00
12	880.4	15.6	28	55	83	339	4.6	0.5	9.7	170	2.30
13	881.4	18.7	39	48	79	566	23.	1.1	10.8	623	25.30
14	882.4	17.8	37	54	91	511	39.	1.0	11.8	511	39.00
15	883.3	16.6	40	48	88	515	6.6	1.3	13.1	670	8.58

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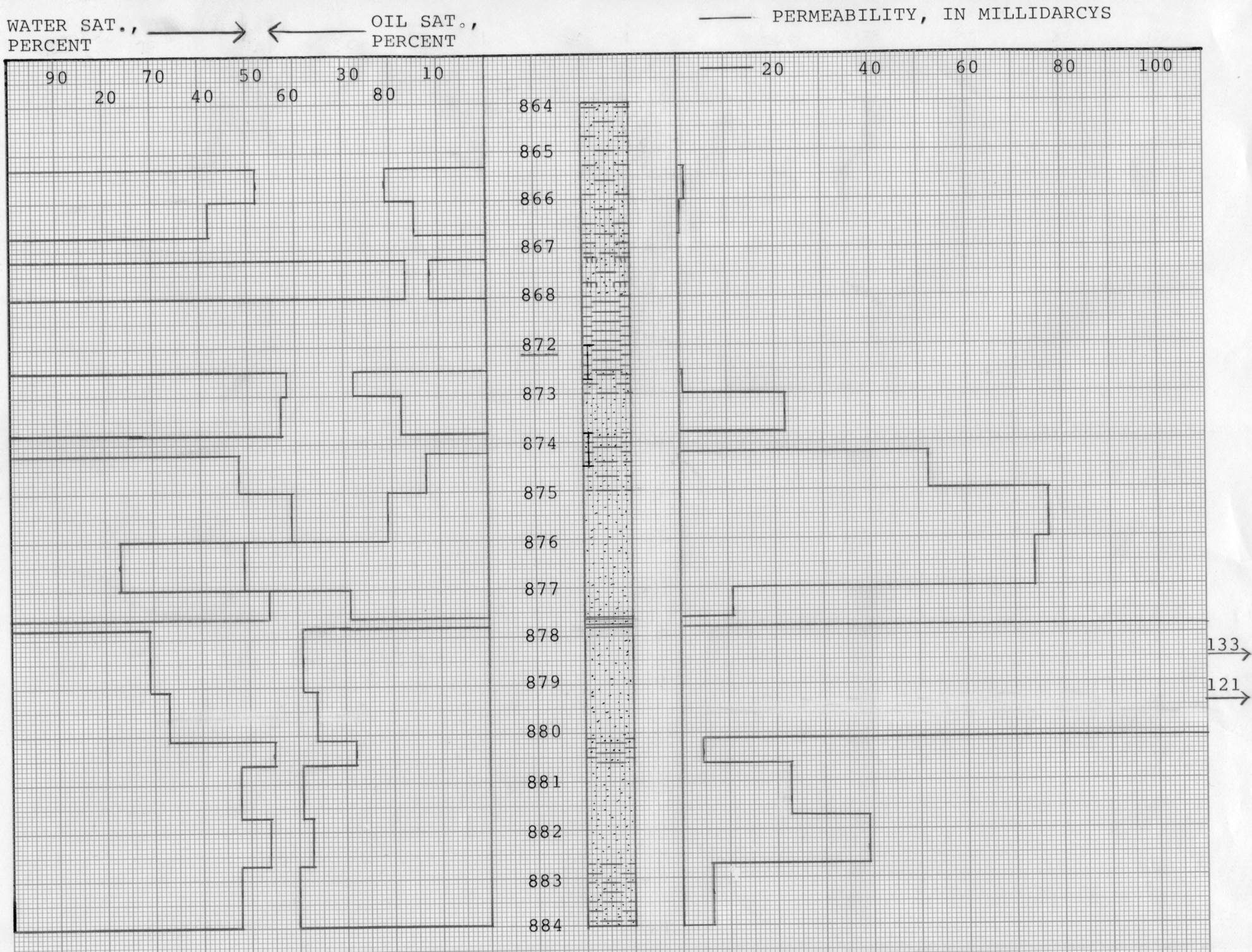
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company: Conti Oil Corporation Lease: Dudley Well No. 18

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
865.3 - 875.0	3.5	17.5	61.17
875.0 - 884.0	8.8	59.9	526.68
865.3 - 884.0	12.3	47.8	587.85

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
865.3 - 875.0	4.3	13.6	17.1	57.0	184	792
875.0 - 884.0	8.8	17.5	36.6	43.4	499	4,389
865.3 - 884.0	13.1	16.2	30.2	47.9	395	5,181


WATER SAT., PERCENT
OIL SAT., PERCENT
PERMEABILITY, IN MILLIDARCYS
90
70
50
30
10
20
40
60
80
20
40
60
80
100
864
865
866
867
868
872
873
874
875
876
877
878
879
880
881
882
883
884
133
121

KEY:

SANDSTONE

SHALE

SHALY SANDSTONE

SHALY CALCAREOUS SANDSTONE

SANDSTONE WITH SHALE PARTINGS

SHALY SANDSTONE WITH SHALE PARTINGS

LAMINATED SANDSTONE AND SHALE

FORMATION CONTAINING A VERTICAL FRACTURE

SANDSTONE WITH COAL PARTINGS

CONTI OIL CORPORATION

DUDLEY LEASE

WELL NO. 18

NEOSHO COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCYS
865.3 - 875.0	4.3	13.6	17.1	57.0	17.5
875.0 - 884.0	8.8	17.5	36.6	43.4	59.9
865.3 - 884.0	13.1	16.2	30.2	47.9	47.8

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CHANUTE, KANSAS
MARCH, 1982

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