

# OILFIELD RESEARCH LABORATORIES

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

May 4, 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 Corbett Lease, Well No. 9, 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 May 1, 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 Corbett Well No. 9  
 Location NW $\frac{1}{4}$   
 Section 18 Twp. 27S Rge. 20E County Neosho State Kansas

Elevation, Feet .....	
Name of Sand .....	Bartlesville
Top of Core .....	727.0
Bottom of Core .....	771.6
Top of Sand .....	(Tested) 727.5
Bottom of Sand .....	765.7
Total Feet of Permeable Sand .....	10.4

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 30	6.5	6.5
45 - 50	1.0	7.5
100 - 150	1.7	9.2
310 - 355	1.2	10.4

Average Permeability Millidarcys .....	64.8
Average Percent Porosity .....	16.9
Average Percent Oil Saturation .....	20.4
Average Percent Water Saturation .....	47.9
Average Oil Content, Bbls./A. Ft. ....	259.
Total Oil Content, Bbls./Acre .....	2,694.

## OILFIELD RESEARCH LABORATORIES

LOGName Conti Oil Corporation Lease Corbett Well No. 9

<u>Depth Interval, Feet</u>	<u>Description</u>
727.0 - 727.5	Gray and brown laminated shale and sandstone.
727.5 - 729.0	Brown sandstone.
729.0 - 729.8	Brown sandstone with scattered gray shale partings.
729.8 - 730.4	Gray and brown laminated shale and sandstone.
730.4 - 732.0	Gray shale with scattered brown sandstone partings.
732.0 - 733.5	Gray and brown laminated shale and sandstone.
733.5 - 733.7	Brown sandstone.
733.7 - 734.0	Alternate layers gray shale and brown sandstone.
734.0 - 734.5	Light brown sandstone.
734.5 - 735.2	Alternate layers gray shale and brown sandstone.
735.2 - 735.9	Light brown sandstone.
735.9 - 737.7	Gray shale with brown sandstone partings.
737.7 - 738.0	Brown sandstone.
738.0 - 739.6	Gray shale with scattered brown sandstone partings.
739.6 - 739.8	Brown shaly sandstone.
739.8 - 740.4	Gray shale.
740.4 - 740.6	Brown sandstone.
740.6 - 743.0	Gray shale.
743.0 - 754.0	No core.
754.0 - 757.3	Gray shale.
757.3 - 758.4	Gray shale with light brown sandstone partings.
758.4 - 760.0	Light brown sandstone with scattered gray shale partings.
760.0 - 760.5	Gray shale.
760.5 - 761.0	Light brown shaly sandstone.
761.0 - 762.3	Gray shale with light brown sandstone partings.
762.3 - 763.2	Alternate layers gray shale and light brown sandstone.

**OILFIELD RESEARCH LABORATORIES**

-2-

- 763.2 - 765.3 Gray and brown finely laminated shale and sandstone.
- 765.3 - 765.7 Light brown very shaly sandstone.
- 765.7 - 771.6 Gray shale with widely scattered brown sandstone partings.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Conti Oil Corporation Lease Corbett Well No. 9

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.		
1	727.7	19.1	14	42	56	108.	0.5	0.5	104	54.00
2	728.5	20.4	15	51	66	101.	1.0	1.5	237	101.00
3	729.5	15.7	20	44	64	7.2	0.8	2.3	195	5.76
4	730.3	14.1	24	59	83	0.83	0.6	2.9	158	0.50
5	732.4	15.8	26	60	86	4.1	1.5	4.4	479	6.15
6	733.6	17.3	17	39	56	145.	0.2	4.6	46	29.00
7	734.4	19.6	12	43	55	314.	0.5	5.1	92	157.00
8	735.5	19.8	15	48	63	352.	0.7	5.8	161	246.40
9	736.8	16.9	29	41	70	13.	1.0	6.8	380	13.00
10	737.8	14.0	32	40	72	27.	0.3	7.1	104	8.10
11	739.7	12.2	30	18	48	5.7	0.2	7.3	57	1.14
12	740.5	11.9	38	23	61	9.6	0.2	7.5	70	1.92
13	759.3	17.1	12	43	55	47.	1.0	8.5	159	47.00
14	760.8	17.8	15	49	64	5.4	0.5	9.0	104	2.70
15	763.5	16.9	18	49	67	0.48	1.0	10.0	236	0.48
16	765.5	12.9	28	63	91	0.28	0.4	10.4	112	0.11

# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease		Well No.
Conti Oil Corporation	Corbett		9
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
727.5 - 765.7	10.4	64.8	674.26
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation
727.5 - 765.7	10.4	16.9	47.9
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.
727.5 - 765.7	10.4	20.4	259
			Total Oil Content Bbls./Acre
			2,694

PERMEABILITY, IN MILLIDARCYS

200  
160  
120  
80  
40

314 →

352 →

727

728

729

730

732

733

734

735

736

737

738

739

740

743

NO CORE

754

757

758

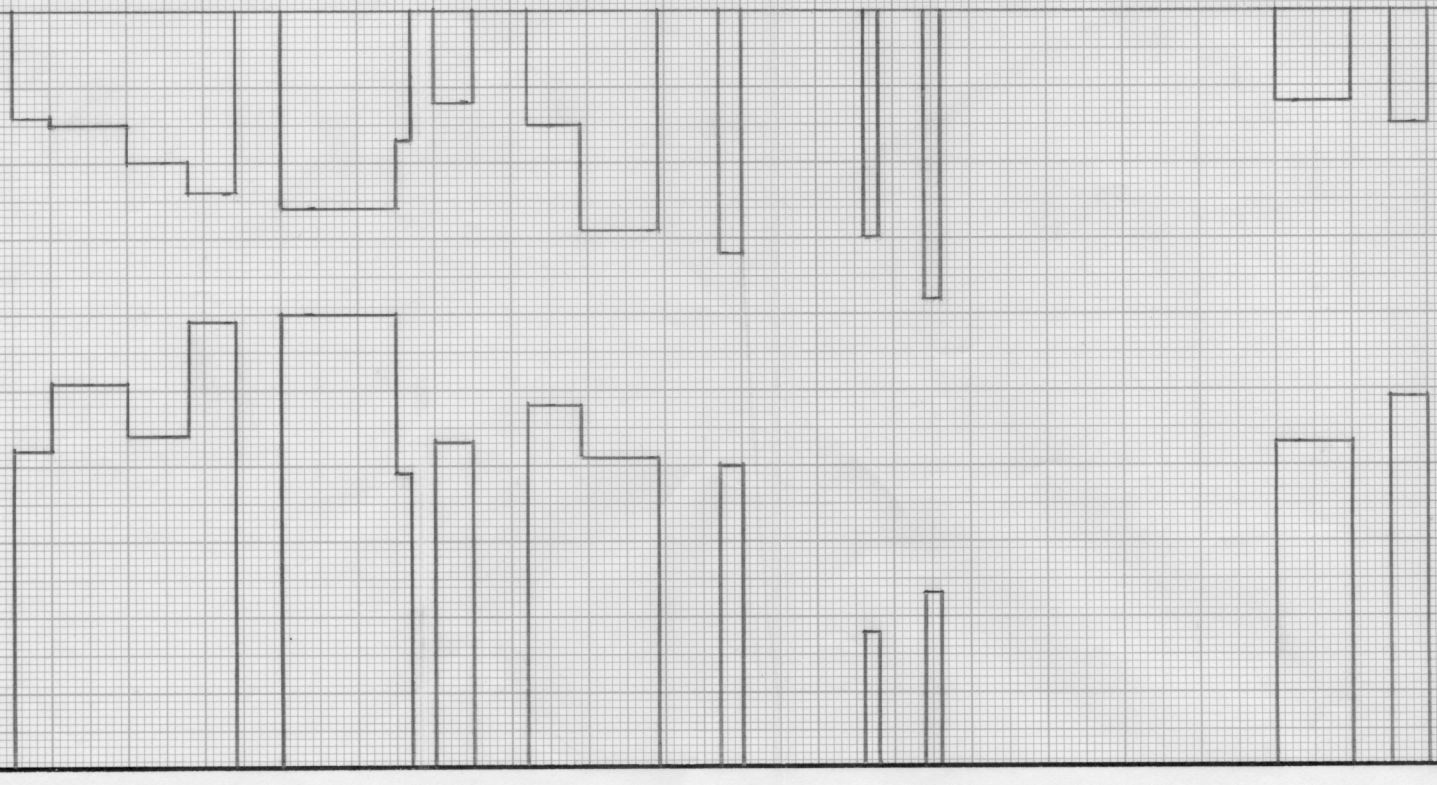
759

760

761


WATER SAT., PERCENT ←  
OIL SAT., PERCENT →


90  
70  
50  
30  
10





762  
763  
764  
765  
771


KEY:


 SANDSTONE


 SHALE

 SHALY SANDSTONE

 SANDSTONE WITH SHALE PARTINGS

 SHALE WITH SANDSTONE PARTINGS

 LAMINATED SANDSTONE AND SHALE

 ALTERNATE LAYERS OF SANDSTONE AND SHALE

# CONTI OIL CORPORATION

CORBETT LEASE

WELL NO. 9

NEOSHO COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCS
727.5 - 765.7	10.4	16.9	20.4	47.9	64.8

OILFIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS

MAY, 1982

PDC