



# OILFIELD RESEARCH LABORATORIES

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

December 11, 1980

C & W Oil Producers  
P. O. Box 8539  
Shawnee Mission, Kansas 66208

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Berryman Lease, Well No. 1, located in Miami County, Kansas and submitted to our laboratory on November 28, 1980.

The core samples were sealed in plastic bags by a representative of the client. In examining this core, it is assumed that each sample represents one foot of core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

5 c to Shawnee Mission, Ks.

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**GENERAL INFORMATION & SUMMARY**

Company C & W Oil Producers Lease Berryman Well No. 1  
 Location NE $\frac{1}{4}$  NE $\frac{1}{4}$   
 Section 27 Twp. 17S Rge. 22E County Miami State Kansas

Elevation, Feet . . . . .	-
Name of Sand . . . . .	Squirrel
Top of Core . . . . .	323.0
Bottom of Core . . . . .	343.6
Top of Sand . . . . . (Tested)	325.6
Bottom of Sand . . . . . (Tested)	343.6
Total Feet of Permeable Sand . . . . .	8.6

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	3.6	3.6
10 - 20	2.0	5.6
30 - 40	2.0	7.6
40 & Above	1.0	8.6

Average Permeability Millidarcys . . . . .	17.3
Average Percent Porosity . . . . .	16.5
Average Percent Oil Saturation . . . . .	37.1
Average Percent Water Saturation . . . . .	48.9
Average Oil Content, Bbls./A. Ft. . . . .	480.
Total Oil Content, Bbls./Acre . . . . .	4,606.

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LOGName C & W Oil Producers Lease Berryman Well No. 1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
323.0 - 326.0	Light brown and gray laminated slightly calcareous sandstone and shale.
327.0 - 328.0	Light brown slightly calcareous sandstone.
329.0 - 330.0	Light brown and gray laminated slightly calcareous sandstone and shale.
331.0 - 332.0	Light brown slightly calcareous sandstone.
333.0 - 334.0	Light brown slightly calcareous sandstone.
335.0 - 336.0	Light brown and gray laminated slightly calcareous sandstone and shale.
337.0 - 338.0	Light brown slightly calcareous sandstone.
339.0 - 340.0	Light brown slightly calcareous sandstone.
341.0 - 342.0	Brown and gray laminted slightly calcareous sandstone and shale.
343.0 - 343.6	Light brown and gray laminated slightly calcareous sandstone and shale.

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**RESULTS OF SATURATION & PERMEABILITY TESTS**

TABLE 1-B

Company C & W Oil Producers Lease Berryman Well No. 1

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	325.5	14.6	50	44	94	566	4.6	1.0	1.0	566	4.60
2	327.5	12.8	18	75	93	179	32.	1.0	2.0	179	32.00
3	329.5	15.1	37	53	90	433	0.50	1.0	3.0	433	0.50
4	331.5	15.5	44	35	79	529	11.	1.0	4.0	529	11.00
5	333.5	16.3	39	44	83	493	32.	1.0	5.0	493	32.00
6	335.5	20.2	41	41	82	643	3.8	1.0	6.0	643	3.80
7	337.5	13.8	17	76	93	182	18.	1.0	7.0	182	18.00
8	339.5	21.7	32	44	76	539	47.	1.0	8.0	539	47.00
9	341.5	21.2	43	36	79	707	Imp.	1.0	9.0	707	0.00
10	343.5	12.4	58	35	93	558	0.27	0.6	9.6	335	0.16

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.				
C & W Oil Producers	Berryman					
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
325.0 - 343.6	8.6	17.3	149.06			
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre	
325.0 - 343.6	9.6	37.1	48.9	480	4,606	