



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

July 22, 1968

Winwell Exploration Company
1011 Commercial National Bank Bldg.
Shreveport, Louisiana 71101

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the Bennitt Lease, Well No. 7, Chautauqua County, Kansas, and submitted to our laboratory on July 18, 1968.

This core was sampled, sealed, and submitted to our laboratory by the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dlp

5 c. - Shreveport, Louisiana
3 c. - Magnolia, Arkansas
1 c. - Wichita, Kansas

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GENERAL INFORMATION & SUMMARY

Company Winwell Exploration Company Lease Bennitt Well No. 7

Location 500' South & 1800' West of Northeast Corner

Section 18 Twp. 32S Rge. 12E County Chautauqua State Kansas

Name of Sand	- - - - -	Wayside
Top of Core	- - - - -	803.0
Bottom of Core	- - - - -	827.0
Top of Sand	-(Cored) - - - - -	803.0
Bottom of Sand	-(Received) - - - - -	816.0
Total Feet of Permeable Sand	- - - - -	11.8
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	3.0	3.0
10 - 50	4.0	7.0
50 - 100	2.8	9.8
100 & above	2.0	11.8

Average Permeability Millidarcys	- - - - -	49.6
Average Percent Porosity	- - - - -	18.7
Average Percent Oil Saturation	- - - - -	26.4
Average Percent Water Saturation	- - - - -	47.1
Average Oil Content, Bbls./A. Ft.	- - - - -	417.
Total Oil Content, Bbls./Acre	- - - - -	6,747.
Average Percent Oil Recovery by Laboratory Flooding Tests	- - - - -	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	- - - - -	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	- - - - -	
Total Calculated Oil Recovery, Bbls./Acre	- - - - -	
Packer Setting, Feet	- - - - -	
Viscosity, Centipoises @	- - - - -	
A. P. I. Gravity, degrees @ 60 °F	- - - - -	
Elevation, Feet	- - - - -	

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Company Winwell Exploration Co. Lease Bennitt Well No. 7

Depth Interval, Feet,	Description
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803.0 - 806.0	Grayish brown shaly sandstone.
806.0 - 807.0	Core not received.
807.0 - 809.0	Light brown shaly sandstone.
809.0 - 813.0	Brown fine grained sandstone.
813.0 - 816.0	Brown slightly shaly sandstone.
816.0 - 818.0	Core not received.
818.0 - 819.0	Gray sandy shale.
819.0 - 822.0	Core not received.
822.0 - 823.0	Gray sandy shale.
823.0 - 825.0	Core not received.
825.0 - 827.0	Gray laminated sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Winwell Exploration Company Lease Bennitt Well No. 7

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			Ft.	Cum. Ft.		
1	803.5	18.2	21	55	76	-	1.2	1.2	356	-
2	805.0	22.1	19	47	66	-	1.0	2.2	326	-
3	805.5	21.5	24	55	79	51.	0.8	3.0	320	40.80
4	807.5	20.1	26	45	71	92.	1.0	4.0	406	92.00
5	808.5	21.7	38	34	72	37.	1.0	5.0	640	37.00
6	809.5	19.9	32	39	71	44.	1.0	6.0	494	44.00
7	810.5	22.1	28	34	62	109.	1.0	7.0	480	109.00
8	811.5	23.4	33	33	66	77.	1.0	8.0	600	77.00
9	812.5	21.1	36	31	67	131.	1.0	9.0	590	131.00
10	813.5	23.4	36	36	72	34.	1.0	10.0	654	34.00
11	814.5	14.9	38	34	72	19.	1.0	11.0	440	19.00
12	815.5	18.6	26	52	78	6.5	1.0	12.0	375	6.50
13	818.5	18.4	20	76	96	3.6	1.0	13.0	300	3.60
14	822.5	13.9	10	76	86	9.6	1.0	14.0	108	9.60
15	825.5	14.5	16	73	89	Imp.	1.0	15.0	180	0.00
16	827.0	17.6	35	62	97	Imp.	1.0	16.0	478	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company <u>Winwell Exploration Company</u>		Lease <u>Bennitt</u>		Well No. <u>7</u>	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
803.0 - 808.0	1.8	57.2	102.80		
808.0 - 815.0	7.0	64.4	451.00		
815.0 - 827.0	3.0	6.6	19.70		
803.0 - 827.0	11.8	49.6	573.50		
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
803.0 - 808.0	4.0	20.3	22.4	352	1,408
808.0 - 815.0	7.0	20.9	34.4	557	3,898
815.0 - 827.0	5.0	16.6	21.4	488	1,441
803.0 - 827.0	16.0	18.7	26.4	417	6,747