

OILFIELD RESEARCH LABORATORIES

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

August 22, 1966

Baker & Williams
128 North Main
Greenville, Kentucky

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Charles M. Blevins Lease, Well No. 1, Bourbon County, Kansas, and submitted to our laboratory on August 18, 1966.

This core was sampled and the samples sealed in plastic bags by a representative of Oilfield Research Laboratories. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:rf

5 c. - Greenville, Kentucky
3 c. - E. R. Henderson

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company	Baker & Williams		Lease	Charles M. Blevins		Well No.	1
Location	SW Corner, SW NW						
Section	15	Twp.	24S	Rge.	25E	County	Bourbon
						State	Kansas
Name of Sand						B'ville	Tucker
Top of Core						159.0	322.7
Bottom of Core						165.0	340.5
Top of Sand	(Tested)					159.0	322.7
Bottom of Sand	(Tested)					165.0	336.0
Total Feet of Permeable Sand						6.0	13.3
Total Feet of Floodable Sand							
Distribution of Permeable Sand:							
	Permeability Range		Feet		Cum. Ft.		
	Millidarcys						
B'ville	0 - 50		4.0		4.0		
	50 & above		2.0		6.0		
Tucker	3 - 20		2.0		2.0		
	20 - 50		2.0		4.0		
	50 - 100		7.4		11.4		
	100 & above		1.9		13.3		
Average Permeability Millidarcys						41.1	55.8
Average Percent Porosity						19.6	18.6
Average Percent Oil Saturation						30.0	25.4
Average Percent Water Saturation						38.0	52.4
Average Oil Content, Bbls./A. Ft.						460.	370.
Total Oil Content, Bbls./Acre						2,760.	4,927.
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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-LOG-

Company Baker & Williams Lease Charles M. Blevins Well No. 1

Depth Interval, Description
Feet

BARTLESVILLE SANDSTONE

159.0 - 161.0 - Dark brown, slightly shaly sandstone.

161.0 - 165.0 - Light brown, laminated, shaly sandstone.

165.0 - 322.7 - Drilled.

TUCKER SANDSTONE

322.7 - 336.0 - Light brown, laminated, slightly shaly sandstone.

336.0 - 340.5 - Dark shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company	Baker & Williams	Lease	Charles M. Blevins	Well No.	1
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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.		
					-BARTLESVILLE SANDSTONE-					
1	159.5	15.6	9	53	62	0.25	1.0	1.0	109	0.25
2	160.5	21.2	36	30	66	20.	1.0	2.0	591	20.00
3	161.5	20.6	28	35	63	84.	1.0	3.0	447	84.00
4	162.5	20.9	27	35	62	31.	1.0	4.0	437	31.00
5	163.5	21.4	30	39	69	89.	1.0	5.0	498	89.00
6	164.5	17.5	50	36	86	22.	1.0	6.0	678	22.00
					-TUCKER SANDSTONE-					
7	323.1	21.8	39	31	70	109.	0.9	0.9	593	98.10
8	324.1	18.9	42	32	74	127.	1.0	1.9	616	127.00
9	325.1	20.5	23	50	73	61.	1.0	2.9	366	61.00
10	326.1	20.0	25	53	78	51.	1.0	3.9	388	51.00
11	327.1	19.4	27	45	72	13.	1.0	4.9	406	13.00
12	328.1	16.9	19	59	78	62.	1.0	5.9	249	62.00
13	329.1	18.9	28	52	80	52.	1.0	6.9	411	52.00
14	330.1	20.6	30	48	78	61.	1.0	7.9	479	61.00
15	331.1	20.4	23	51	74	37.	1.0	8.9	364	37.00
16	332.1	12.2	24	53	77	25.	1.0	9.9	227	25.00
17	333.1	12.5	21	52	73	3.1	1.0	10.9	204	3.10
18	334.1	20.4	21	64	85	63.	1.0	11.9	332	63.00
19	335.1	19.3	14	78	92	63.	1.4	13.3	292	88.20

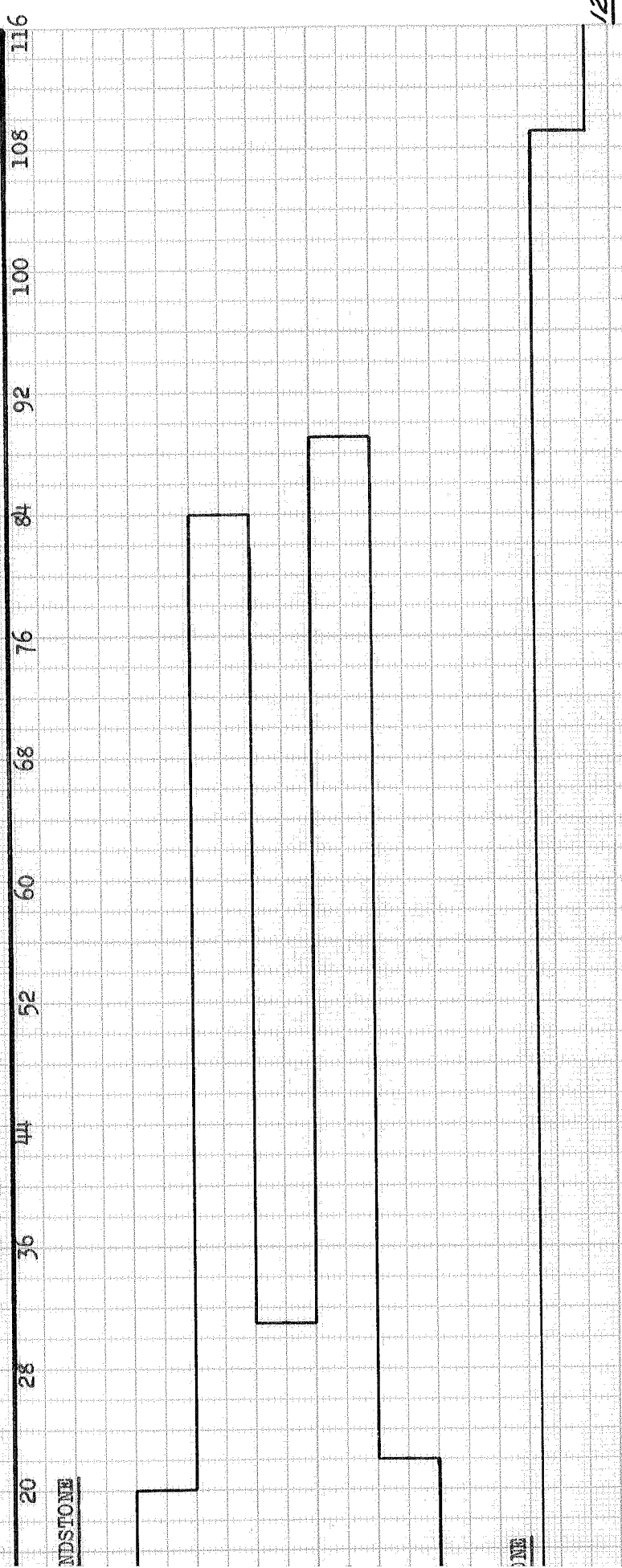
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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Baker & Williams		Lease	Charles M. Blevins		Well No.	1
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
<u>-BARTLESVILLE SANDSTONE-</u>							
159.0 - 165.0		6.0	41.1	246.25			
<u>-TUCKER SANDSTONE-</u>							
322.7 - 336.0		13.3	55.8	741.40			
Depth Interval, Feet	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	
<u>-BARTLESVILLE SANDSTONE-</u>							
159.0 - 165.0		6.0	19.6	30.0	38.0	460	2,760
<u>-TUCKER SANDSTONE-</u>							
322.7 - 336.0		13.3	18.6	25.4	52.4	370	4,927

AIR PERMEABILITY, IN MILLIDARCYS



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STANDARD ① CROSS SECTION
MILLIMETER

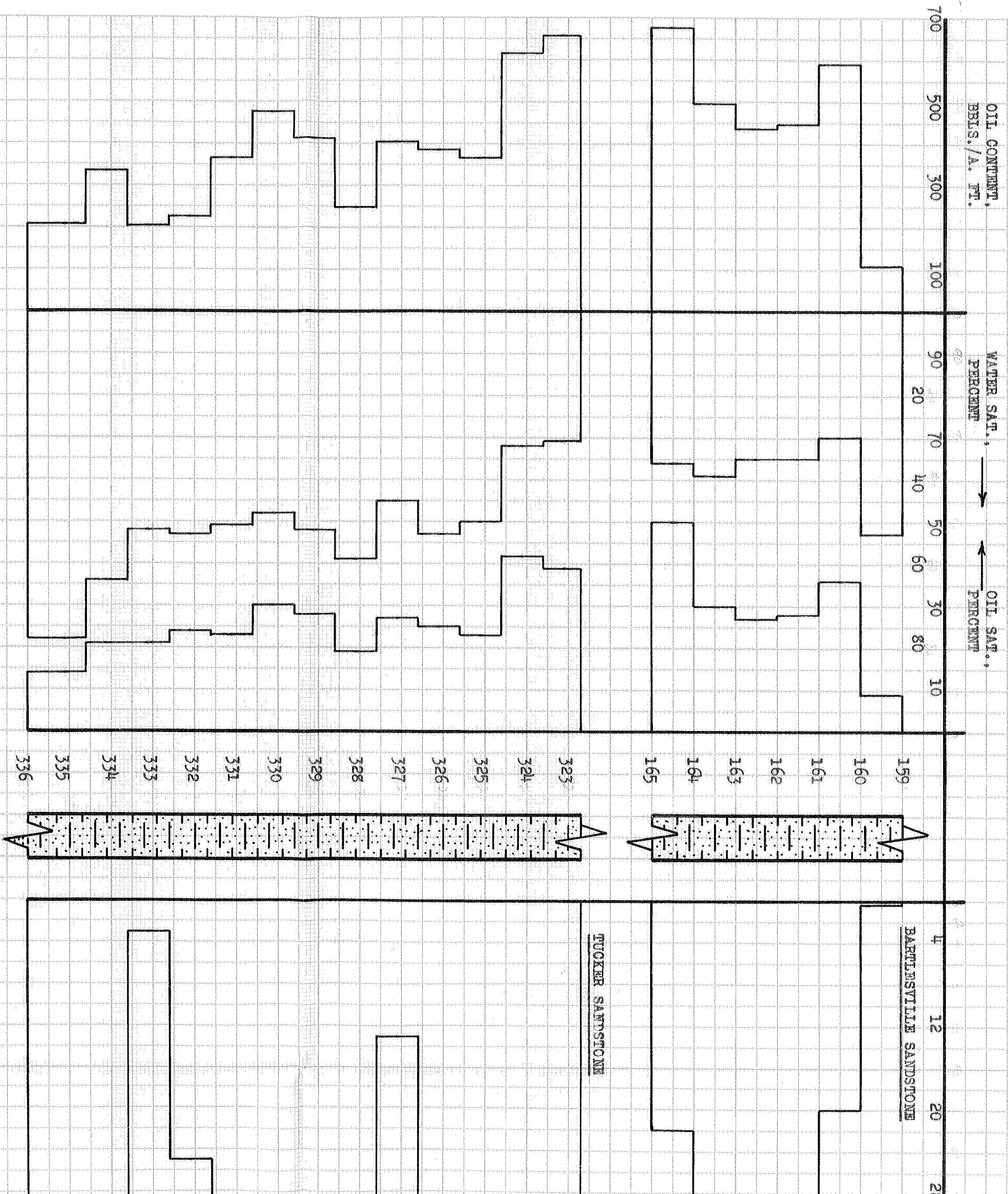
SHALE

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY, MILLIDARCYS
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38.0 460 2,760 41.1

52.4 370 4,927 55.8

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CHANUTE, KANSAS
AUGUST, 1966



BAKER & WILLIAMS
CHARLES W. BLUMING LEASE
BOURBON COUNTY, KANSAS
WELL NO. 1

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT
BARTLESVILLE SANDSTONE	159.0 - 165.0	19.6	30.0	38.0
TUCKER SANDSTONE	322.7 - 336.0	18.6	25.4	52.4