



OILFIELD RESEARCH LABORATORIES

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

January 7, 1966

Fred E. Wood & Associates
Suite 204, 200 Sixteenth Street
Denver, Colorado

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Cline Lease, Well No. 88-RWJ, Wilson County, Kansas, and submitted to our laboratory on January 3, 1966.

This core was sampled and the samples sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

4 c. - Denver, Colorado
1 c. - A. W. Bailey

CLINE 88-RWJ

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Fred E. Wood & Assoc. Lease Cline Well No. 88-RWJ

Location _____

Section _____ Twp. _____ Rge. _____ County Wilson State Kansas

Name of Sand	B'ville	Stray
Top of Core	1059.0	1091.0
Bottom of Core	1068.0	1100.0
Top of Sand	(Tested) 1059.0	1091.0
Bottom of Sand	1068.0	1099.5
Total Feet of Permeable Sand	7.3	7.6
Total Feet of Floodable Sand		

Distribution of Permeable Sand:
Permeability Range
Millidarcys

		Feet	Cum. Ft.
B'ville	0 - 5	2.0	2.0
	5 - 20	3.3	5.3
	20 & above	2.0	7.3
Stray	5 - 20	5.6	5.6
	20 & above	2.0	7.6

Average Permeability Millidarcys	22.6	14.1
Average Percent Porosity	15.1	16.5
Average Percent Oil Saturation	40.6	59.1
Average Percent Water Saturation	38.6	25.6
Average Oil Content, Bbls./A. Ft.	470.	760.
Total Oil Content, Bbls./Acre	4,230	6,456.
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 Fred E. Wood & Associates Lease Cline Well No. 88-RWJ

Depth Interval, Description
Feet

BARTLESVILLE

1059.0 - 1066.3 - Light brown, slightly shaly sandstone.
1066.3 - 1068.0 - Dark, carbonaceous, slightly shaly sandstone.
1068.0 - 1091.0 - Drilled.

STRAY

1091.0 - 1098.6 - Brown shaly sandstone.
1098.6 - 1099.5 - Dark, carbonaceous, shaly sandstone.
1099.5 - 1100.0 - Shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Fred. E. Wood & Associates Lease Cline Well No. 88-RWJ

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.		
<u>BARTLESVILLE</u>											
1	1059.5	14.6	45	27	72	510	4.4	1.0	1.0	510	4.40
2	1060.5	14.5	52	35	87	586	10.	1.0	2.0	586	10.00
3	1061.5	17.9	30	54	84	417	77.	1.0	3.0	417	77.00
4	1062.5	15.0	35	48	83	408	0.67	1.0	4.0	408	0.67
5	1063.5	15.6	39	33	72	473	19.	1.0	5.0	473	19.00
7	1064.5	16.8	30	38	68	391	45.	1.0	6.0	391	45.00
7	1065.5	15.9	45	30	75	555	6.5	1.3	7.3	721	8.45
8	1066.5	13.3	46	33	79	474	Imp.	0.7	8.0	332	0.00
9	1067.5	11.5	44	50	94	392	Imp.	1.0	9.0	392	0.00
<u>STRAY</u>											
10	1091.1	16.2	61	26	87	765	5.1	0.6	0.6	459	3.06
11	1092.1	15.2	42	34	76	494	6.5	1.0	1.6	494	6.50
12	1093.1	15.4	50	27	77	598	6.8	1.0	2.6	598	6.80
13	1094.1	18.6	65	27	92	937	27.	1.0	3.6	937	27.00
14	1095.1	17.3	68	19	87	912	12.	1.0	4.6	912	12.00
15	1096.1	17.5	50	24	74	679	22.	1.0	5.6	679	22.00
16	1097.1	15.1	55	26	81	644	14.	1.0	6.6	644	14.00
17	1098.1	17.2	76	22	98	1,012	16.	1.0	7.6	1,012	16.00
18	1099.1	15.4	67	26	93	801	Imp.	0.9	8.5	721	0.00

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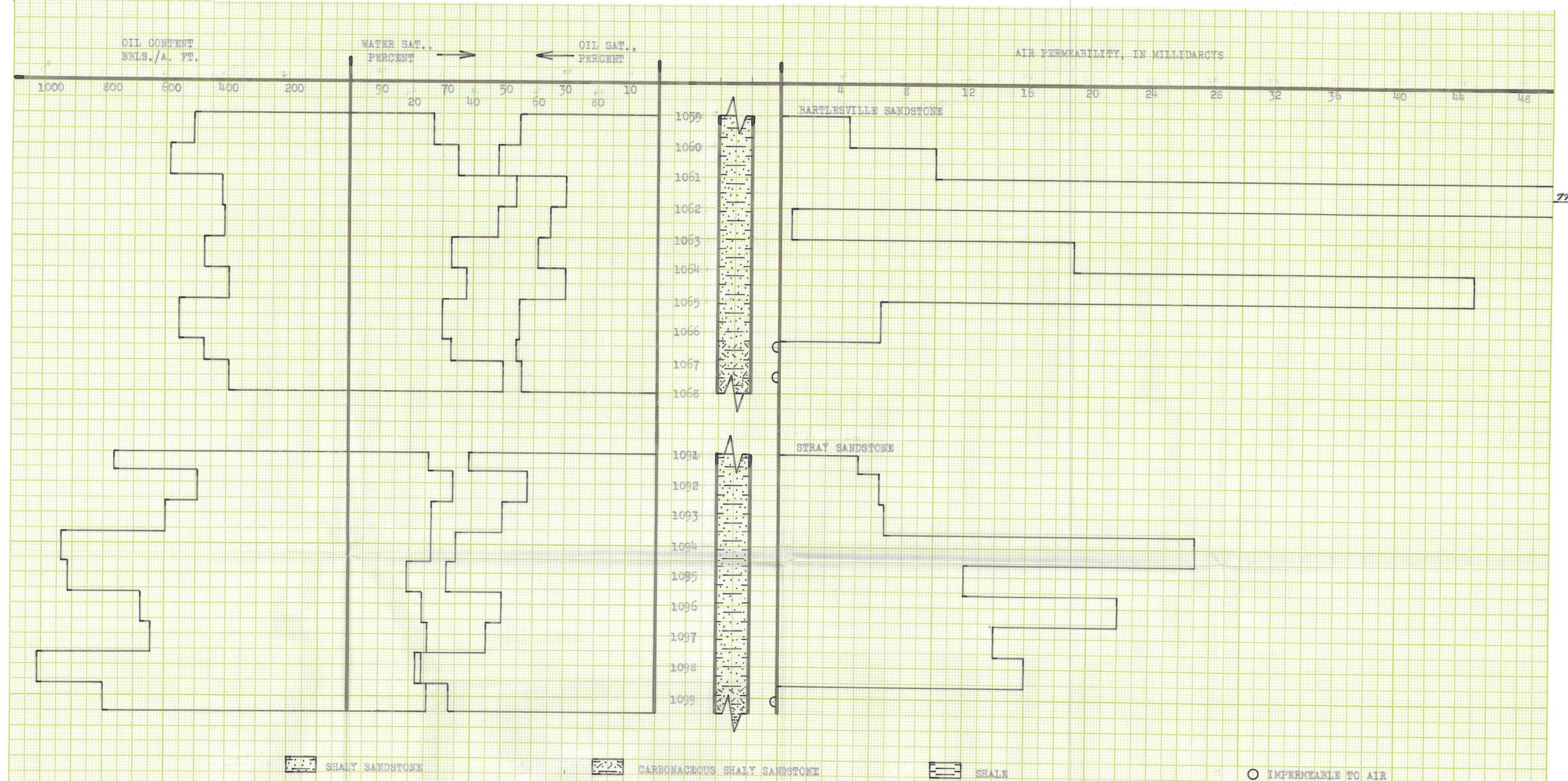
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Fred E. Wood & Associates Lease Cline Well No. 88-RWJ

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
<u>BARTLESVILLE</u>			
1059.0 - 1068.0	7.3	22.6	164.52
<u>STRAY</u>			
1091.0 - 1099.5	7.6	14.1	107.36

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
<u>BARTLESVILLE</u>						
1059.0 - 1068.0	9.0	15.1	40.6	38.6	470	4,230
<u>STRAY</u>						
1091.0 - 1099.5	8.5	16.5	59.1	25.6	760	6,456



KEUFFEL & ESSER CO.
MADE IN U.S.A.

K&E STANDARD CROSS SECTION
MILLIMETER

FRED E. WOOD & ASSOCIATES

OLINE LEASE WILSON COUNTY, KANSAS WELL NO. 88-RWJ

	DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBL./A. FT.	TOTAL OIL CONTENT BBL./ACRE	AVG. AIR PERMEABILITY, MILLIDARCYS
<u>BARTLESVILLE</u>	1059.0 - 1068.0	9.0	15.1	40.6	38.6	470	4,230	22.6
<u>STRAY</u>	1091.0 - 1099.5	8.5	16.5	59.1	25.6	760	6,456	14.1

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CHANUTE, KANSAS
JANUARY, 1966