



OILFIELD RESEARCH LABORATORIES

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

January 7, 1980

Wayne D. Cox
716 North State
Eureka, Kansas 67045

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Branine Lease, Well No. 8, Greenwood County, Kansas, and submitted to our laboratory on December 17, 1979.

The core was sampled and 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/tem
8 c to Eureka, Kansas

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GENERAL INFORMATION & SUMMARY

Company Wayne D. Cox Lease Branine Well No. 8

Location 100' EWL & 525' SNL NE SE

Section 5 Twp. 25S Rge. 11E County Greenwood State Kansas

Name of Sand	-	Cattleman
Top of Core	-	1685.0
Bottom of Core	-	1698.0
Top of Sand	-	1685.5
Bottom of Sand	-	1698.0
Total Feet of Permeable Sand	-	12.5
Total Feet of Floodable Sand	-	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
170 - 190	3.0	3.0
200 - 235	4.0	7.0
380 - 450	3.0	10.0
615 & Above	2.5	12.5

Average Permeability Millidarcys	-	377.2
Average Percent Porosity	-	21.5
Average Percent Oil Saturation	-	18.0
Average Percent Water Saturation	-	62.8
Average Oil Content, Bbls./A. Ft.	-	302.
Total Oil Content, Bbls./Acre	-	3,777.
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

Name Wayne D. Cox Lease Branine Well No. 8

<u>Depth Interval</u> <u>Feet</u>	<u>Description</u>
1685.0 - 1685.5	Gray sandy shale.
1685.5 - 1695.0	Light brown sandstone.
1695.0 - 1696.0	Grayish light brown sandstone.
1696.0 - 1697.0	Light brown sandstone.
1697.0 - 1698.0	Gray sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Wayne D. Cox

Lease Branine

Well No. 8

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	1685.6	22.5	22	50	72	384	617.	0.5	0.5	192	308.50
2	1686.5	21.8	19	57	76	321	380.	1.0	1.5	321	380.00
3	1687.5	19.6	28	47	75	426	173.	1.0	2.5	426	173.00
4	1688.5	21.7	23	57	80	387	399.	1.0	3.5	387	399.00
5	1689.5	19.6	19	69	88	289	1157.	1.0	4.5	289	1157.00
6	1690.5	22.8	16	57	73	283	637.	1.0	5.5	283	637.00
7	1691.5	23.5	25	53	78	456	449.	1.0	6.5	456	449.00
8	1692.5	22.4	18	60	78	313	185.	1.0	7.5	313	185.00
9	1693.5	22.4	17	59	76	295	200.	1.0	8.5	295	200.00
10	1694.5	21.1	25	66	91	409	185.	1.0	9.5	409	185.00
11	1695.5	18.2	5	86	91	71	208.	1.0	10.5	71	208.00
12	1696.5	22.8	17	61	78	301	203.	1.0	11.5	301	203.00
13	1697.5	22.1	2	88	90	34	231.	1.0	12.5	34	231.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Wayne D. Cox	Lease	Branine	Well No.	8
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
	1685.5 - 1698.0	12.5	377.2	4715.50	
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
	1685.5 - 1698.0	12.5	18.0	62.8	3,777
			Average Percent Porosity	Average Oil Content Bbl./A. Ft.	
			21.5	302	