

OILFIELD RESEARCH LABORATORIES

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

October 12, 1979

Cherokee Oil Producers
210 West Watermelon Road
P.O. Box 158
Thayer, Kansas 66776

Gentlemen:

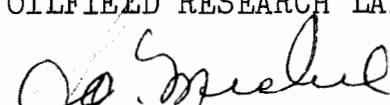
Enclosed herewith are the results of tests run on the rotary core taken from the White Lease, Well No. 6, Montgomery County, Kansas, and submitted to our laboratory on October 2, 1979.

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


S. A. Michel
Chemist

GLW:km
5 c to Thayer, Kansas

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GENERAL INFORMATION & SUMMARY

Company Cherokee Oil Producers Lease White Well No. 6

Location 600' FEL & 450' FNL SW $\frac{1}{4}$

Section 20 Twp. 33S Rge. 14E County Montgomery State Kansas

Name of Sand	Wiser
Top of Core	772.0
Bottom of Core	797.0
Top of Sand	772.0
Bottom of Sand	797.0
Total Feet of Permeable Sand	25.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 5	10.6	10.6
5 - 10	4.0	14.6
10 - 50	8.4	23.0
50 & Above	2.0	25.0

Average Permeability Millidarcys	19.4
Average Percent Porosity	17.1
Average Percent Oil Saturation	22.1
Average Percent Water Saturation	58.0
Average Oil Content, Bbls./A. Ft.	304.
Total Oil Content, Bbls./Acre	7,594.
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 Cherokee Oil Producers Lease White Well No. 6

<u>Depth Interval, Feet</u>	<u>Description</u>
772.0 - 773.0	Grayish very shaly sandstone.
773.0 - 774.8	Grayish shaly sandstone.
774.8 - 776.0	Light brown shaly sandstone.
776.0 - 781.3	Brown sandstone.
781.3 - 783.0	Light brown slightly shaly sandstone.
783.0 - 786.8	Brown sandstone.
786.8 - 787.7	Light brown shaly sandstone.
787.7 - 789.7	Brown sandstone.
789.7 - 792.0	Brown shaly sandstone.
792.0 - 793.3	Brown sandstone.
793.3 - 797.0	Grayish shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Cherokee Oil Producers

Lease White

Well No.

6

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity FL X ind.
			Oil	Water	Total			FL	Cum. Ft.		
1	772.5	15.5	2	86	88	24	0.34	1.0	1.0	24	0.34
2	773.5	17.6	9	62	71	123	8.9	1.0	2.0	123	8.90
3	774.5	14.1	2	93	95	22	2.1	0.8	2.8	18	1.68
4	775.5	16.7	28	41	69	363	4.2	1.2	4.0	436	5.04
5	776.5	22.4	24	23	47	417	115.	1.0	5.0	417	115.00
6	777.5	19.9	26	39	65	401	78.	1.0	6.0	401	78.00
7	778.3	12.8	19	44	63	189	6.1	1.0	7.0	189	6.10
8	779.4	17.6	23	56	79	314	18.	1.0	8.0	314	18.00
9	780.5	16.6	27	56	83	348	28.	1.3	9.3	452	36.40
10	781.6	16.1	24	54	78	300	4.0	0.7	10.0	210	2.80
11	782.5	16.6	29	49	78	374	8.8	1.0	11.0	374	8.80
12	783.5	16.9	23	54	77	302	10.	1.0	12.0	302	10.00
13	784.5	19.3	24	46	70	359	56.	1.0	13.0	359	56.00
14	785.5	18.5	21	57	78	301	15.	1.0	14.0	301	15.00
15	786.5	19.4	20	57	77	301	26.	0.8	14.8	241	20.80
16	787.5	17.2	14	63	77	187	1.2	0.9	15.7	168	1.08
17	788.5	18.0	30	48	78	419	44.	1.3	17.0	545	57.20
18	789.5	10.9	27	68	95	228	14.	0.7	17.7	160	9.80
19	790.5	16.1	14	70	84	175	3.6	1.3	19.0	228	4.68
20	791.5	18.1	55	40	95	772	1.5	1.0	20.0	772	1.50
21	792.5	21.3	48	47	95	793	20.	1.3	21.3	1,031	26.00
22	793.4	11.9	7	88	95	65	0.45	0.7	22.0	46	0.32
23	794.5	17.9	18	57	75	250	0.88	1.0	23.0	250	0.88
24	795.5	14.9	1	85	86	12	0.45	1.0	24.0	12	0.45
25	796.5	15.0	19	76	95	221	0.43	1.0	25.0	221	0.43

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	White	Well No.			
Cherokee Oil Producers			6			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
772.0 - 774.8	2.8	3.9	10.92			
774.8 - 793.3	18.5	26.0	472.20			
793.3 - 797.0	3.7	0.57	2.08			
772.0 - 797.0	25.0	19.4	485.20			
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
772.0 - 774.8	2.8	16.3	4.5	79.1	59	165
774.8 - 793.3	18.5	17.6	26.9	51.3	373	6,900
793.3 - 797.0	3.7	15.2	11.6	75.6	143	529
772.0 - 797.0	25.0	17.1	22.1	58.0	304	7,594