

# OILFIELD RESEARCH LABORATORIES

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

July 1, 1980

Cherokee Basin Venture  
Rural Route 4  
Yates Center, Kansas 66783

Gentlemen:

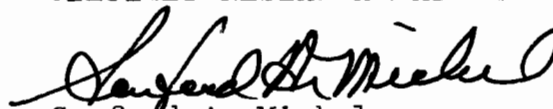
Enclosed herewith are the results of tests run on the rotary core taken from the McCoy Lease, Well No. 1, Woodson County, Kansas, and submitted to our laboratory on June 18, 1980.

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

  
Sanford A. Michel

SAM/tem

5 c to Yates Center, Kansas

**Oilfield Research Laboratories**  
**GENERAL INFORMATION & SUMMARY**

Company Cherokee Basin Venture Lease McCoy Well No. 1  
 Location SW NE NE  
 Section 20 Twp. 26S Rge. 17E County Woodson State Kansas

Elevation, Feet . . . . .	
Name of Sand . . . . .	Squirrel
Top of Core . . . . .	793.0
Bottom of Core . . . . .	799.4
Top of Sand . . . . .	793.0
Bottom of Sand . . . . .	799.4
Total Feet of Permeable Sand . . . . .	6.4

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	5.7	5.7
50 & Above	0.7	6.4

Average Permeability Millidarcys . . . . .	9.3
Average Percent Porosity . . . . .	16.7
Average Percent Oil Saturation . . . . .	44.9
Average Percent Water Saturation . . . . .	29.0
Average Oil Content, Bbls./A. Ft. . . . .	592.
Total Oil Content, Bbls./Acre . . . . .	3,790.

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LOGName Cherokee Basin Venture Lease McCoy Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
793.0 - 794.1	Gray and brown laminated sandstone and shale.
794.1 - 795.1	Dark brown slightly shaly sandstone.
795.1 - 796.0	Dark brown laminated sandstone and shale.
796.0 - 796.7	Dark brown sandstone.
796.7 - 799.4	Dark brown shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Cherokee Basin Venture Lease McCoy Well No. 1

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	793.3	14.7	11	63	74	125	6.8	1.1	1.1	138	7.48
2	794.3	16.3	52	19	71	658	8.7	1.0	2.1	658	8.70
3	795.4	17.8	61	15	76	842	1.5	0.9	3.0	758	1.35
4	796.4	18.5	44	24	68	632	54.	0.7	3.7	442	37.80
5	797.5	16.8	52	33	85	678	2.6	1.3	5.0	881	3.38
6	798.6	16.8	50	17	67	652	0.43	1.4	6.4	913	0.60

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Cherokee Basin Venture	Lease	McCoy	Well No.										
				1										
	Depth Interval, Feet	793.0 - 799.4	Feet of Core Analyzed	6.4	Average Permeability, Millidarcys	9.3	Permeability Capacity Ft. x Md.	59.31						
	Depth Interval, Feet	793.0 - 799.4	Feet of Core Analyzed	6.4	Average Percent Porosity	16.7	Average Percent Oil Saturation	44.9	Average Percent Water Saturation	29.0	Average Oil Content Bbl./A. Ft.	592	Total Oil Content Bbls./Acre	3,790