

# OILFIELD RESEARCH LABORATORIES

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

December 19, 1980

Petro Wolf  
% John Wolf  
108 N. Highland  
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Wolf Lease, Well No. 1, located in Allen County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on December 9, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/mkf

5 c to Chanute, Ks.

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## GENERAL INFORMATION & SUMMARY

Company Petro Wolf Lease Wolf Well No. 1  
 Location NE Corner NW $\frac{1}{4}$   
 Section 19 Twp. 26S Rge. 18E County Allen State Kansas

Elevation, Feet . . . . .	-
Name of Sand . . . . .	Cattleman
Top of Core . . . . .	791.0
Bottom of Core . . . . .	798.2
Top of Sand . . . . .	791.0
Bottom of Sand . . . . .	797.9
Total Feet of Permeable Sand . . . . .	6.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 2	1.7	1.7
12 - 30	3.2	4.9
30 & Above	2.0	6.9

Average Permeability Millidarcys . . . . .	22.4
Average Percent Porosity . . . . .	17.3
Average Percent Oil Saturation . . . . .	43.9
Average Percent Water Saturation . . . . .	36.9
Average Oil Content, Bbls./A. Ft. . . . .	587.
Total Oil Content, Bbls./Acre . . . . .	4,050.

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LOGName Petro Wolf Lease Wolf Well No. 1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
791.0 - 791.8	Grayish light brown slightly calcareous shaly sandstone.
791.8 - 797.0	Light brown and gray laminated slightly calcareous sandstone and shale.
797.0 - 797.9	Gray and light brown slightly calcareous very shaly sandstone.
797.9 - 798.2	Gray shale.

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## RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Petro Wolf Lease Wolf Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	791.5	18.1	40	31	71	562	1.8	0.8	0.8	450	1.44
2	792.5	19.3	39	33	72	584	31.	1.0	1.8	584	31.00
3	793.5	20.1	47	21	68	733	26.	1.0	2.8	733	26.00
4	794.5	17.2	44	36	80	587	56.	1.0	3.8	587	56.00
5	795.5	19.3	39	39	78	584	25.	1.0	4.8	584	25.00
6	796.7	15.3	57	39	96	677	12.	1.2	6.0	812	14.40
7	797.5	11.6	37	60	97	333	0.88	0.9	6.9	300	0.79

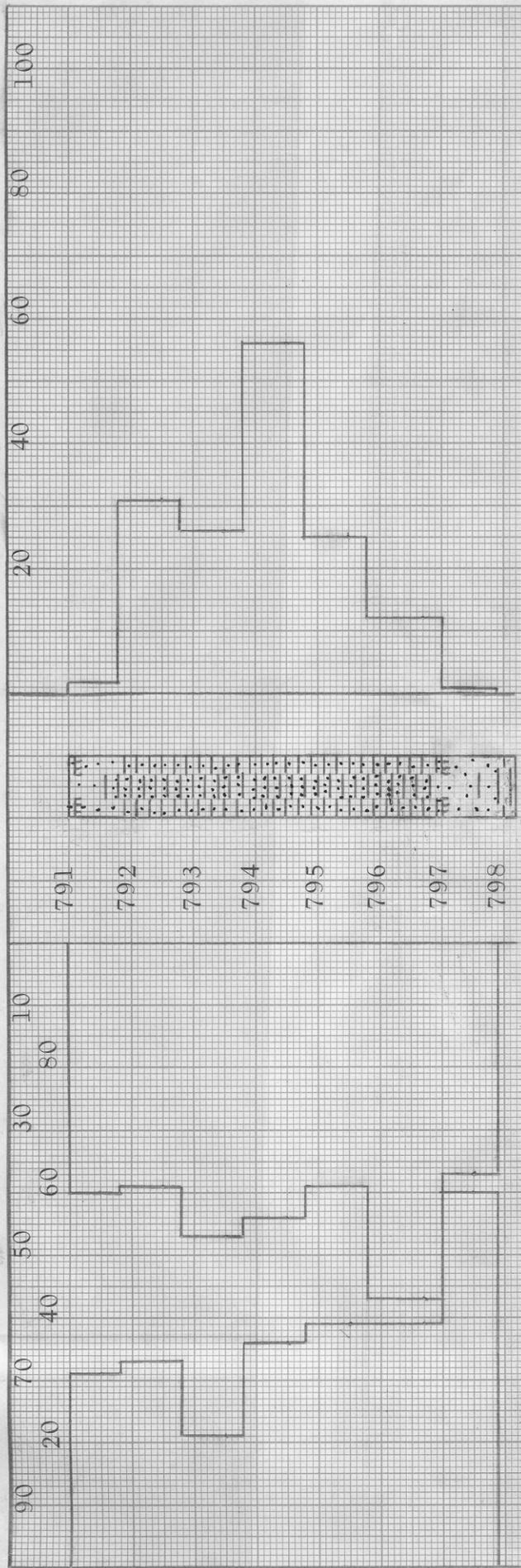
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## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Petro Wolf	Lease	Wolf	Well No.	1	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	791.0 - 797.9	6.9	22.4	154.63		
	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
	791.0 - 797.9	6.9	43.9	36.9	587	4,050
			17.3			

WATER SAT., PERMEABILITY, IN MILLIDARCYS  
 OIL SAT., PERCENT



KEY:



SHALE



SHALY CALCAREOUS SANDSTONE



LAMINATED CALCAREOUS SANDSTONE & SHALE



SANDY SHALE

# PETRO WOLF

WOLF LEASE

ALLEN COUNTY, KANSAS

WELL NO. 1

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCYS
791.0 - 797.9	6.9	17.3	43.9	36.9	22.4

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 CHANUTE, KANSAS  
 DECEMBER, 1980