



OILFIELD RESEARCH LABORATORIES

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

January 2, 1979

Horde & Walden
1406 East Street
Iola, Kansas 66749

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Moore Lease, Well No. 1, Allen County, Kansas, and submitted to our laboratory on December 27, 1978.

This core was sampled after being received in the laboratory. The core was out of the well approximately $1\frac{1}{2}$ hours before being sampled.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:km
5 c to Iola, Kansas

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LOG

Company Horde & Walden Lease Moore Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
749.0 - 749.1	Gray sandy shale.
749.1 - 751.5	Dark brown sandstone.
751.5 - 752.4	Gray sandy shale.
752.4 - 753.0	Brown laminated carbonaceous slightly shaly sandstone.
753.0 - 755.2	Dark brown slightly carbonaceous sandstone.
755.2 - 755.4	Gray laminated shaly sandstone.
755.4 - 758.8	Brown sandstone.
758.8 - 761.3	Gray finely laminated very shaly sandstone.
761.3 - 761.9	Brown shaly sandstone.
761.9 - 762.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Horde & Walden Lease Moore 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	749.5	19.8	24	50	74	369	92.	0.9	0.9	332	82.80
2	750.5	20.2	39	30	69	611	178.	1.0	1.9	611	178.00
3	751.4	19.3	30	36	66	449	65.	0.5	2.4	225	32.50
4	752.5	15.9	30	61	91	370	4.2	0.6	3.0	222	2.52
5	753.5	20.5	37	37	74	588	40.	1.0	4.0	588	40.00
6	754.5	19.3	31	31	62	464	352.	1.2	5.2	557	422.40
7	755.5	18.3	33	42	75	469	218.	0.6	5.8	281	130.80
8	756.5	19.7	34	45	79	520	346.	1.0	6.8	520	346.00
9	757.5	23.3	29	54	83	524	497.	1.0	7.8	524	497.00
10	758.5	23.7	32	49	81	588	402.	0.8	8.6	470	321.60
11	761.5	12.9	32	29	61	320	7.2	0.6	9.2	192	4.32

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Horde & Walden	Lease	Moore	Well No.	1								
Depth Interval, Feet	749.1 - 761.9	Feet of Core Analyzed	9.2	Average Permeability, Millidarcys	223.7	Permeability Capacity Ft. x Md.	2057.94						
Depth Interval, Feet	749.1 - 761.9	Feet of Core Analyzed	9.2	Average Porosity	19.7	Average Percent Oil Saturation	32.1	Average Percent Water Saturation	41.8	Average Oil Content Bbl./A. Ft.	492	Total Oil Content Bbls./Acre	4,522

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RESULTS OF WATER DIFFERENTIATION TESTS

TABLE VI

Company Horde & Walden Lease Moore Well No. 1

Sample No.	Depth, Feet	Chloride Content of Brine in Sand ppm	Percent Water Saturation		
			Connate	Drilling & Foreign	Total
1	749.5	21,520			
2	750.5	20,291			
3	751.4	10,952			
4	752.5	13,333			
5	753.5	13,094			
6	754.5	10,245			
7	755.5	12,085			
8	756.5	10,264			
9	757.5	7,003			
10	758.5	7,568			
11	761.5	27,043			

Note: ppm — parts per million

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SUMMARY OF WATER DIFFERENTIATION TESTS

TABLE VII

Company Horde & Walden Lease Moore Well No. 1

<u>Depth Interval, Feet</u>	<u>Chloride Content of Brine in Sand, ppm</u>	<u>Average Percent Connate Water</u>	<u>Average Percent Drilling & Foreign Water</u>
749.1 - 761.9	14,854		

Note: Sample of water submitted contained 3,723 ppm chlorides.

Note: ppm — parts per million.