



OILFIELD RESEARCH LABORATORIES

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

December 6, 1979

Yenom Oil Company
841 North Broadway
Wichita, Kansas 67214

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Dodson Lease, Well No. 1, Bourbon County, Kansas, and submitted to our laboratory on November 19, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP/tem

3 c to Wichita, Kansas
1 c to Chanute, Kansas
1 c to Hialeah, Florida

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GENERAL INFORMATION & SUMMARY

Company	<u>Yenom Oil Company</u>		Lease	<u>Dodson</u>		Well No.	<u>1</u>
Location	<u>165' SNL & 495' EWL NW $\frac{1}{4}$</u>						
Section	<u>26</u>	Twp.	<u>26S</u>	Rge.	<u>21E</u>	County	<u>Bourbon</u> State <u>Kansas</u>
Name of Sand							Bartlesville
Top of Core							—
Bottom of Core							—
Top of Sand							—
Bottom of Sand							—
Total Feet of Permeable Sand							23.5
Total Feet of Floodable Sand							
Distribution of Permeable Sand:							
Permeability Range Millidarcys		Feet		Cum. Ft.			
0 - 5		3.7		3.7			
5 - 10		8.7		12.4			
10 - 20		3.0		15.4			
20 - 30		2.4		17.8			
30 & Above		5.7		23.5			
Average Permeability Millidarcys							15.3
Average Percent Porosity							17.1
Average Percent Oil Saturation							42.5
Average Percent Water Saturation							39.7
Average Oil Content, Bbls./A. Ft.							579.
Total Oil Content, Bbls./Acre							14,771.
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 Yenom Oil Company Lease Dodson Well No. 1

DESCRIPTION

Grayish brown shaly sandstone.

Brown sandstone.

Brown shaly sandstone.

Hard gray limestone.

Dark brown shaly sandstone.

Dark shaly sandstone.

Gray shale.

Brownish gray shaly sandstone.

Brown medium grained sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Yenom Oil Company Lease Dodson 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		18.4	27	41	68	385	3.0	1.0	1.0	385	3.00
2		17.8	27	43	70	373	6.8	1.0	2.0	373	6.80
3		15.9	35	45	80	432	9.9	1.5	3.5	648	14.85
4		19.3	36	37	73	539	22.	0.6	4.1	323	13.20
5		20.6	42	32	74	671	30.	1.4	5.5	939	42.00
6		18.1	45	33	78	632	21.5	0.7	6.2	442	14.70
7		16.2	45	40	85	566	9.6	1.1	7.3	623	10.45
8		15.6	24	55	79	291	9.6	1.3	8.6	378	12.48
9		18.1	44	33	77	618	21.	1.1	9.7	680	23.10
10		10.9	39	38	77	330	Imp.	0.9	10.6	297	0.00
11		4.9	20	67	87	76	Imp.	1.1	11.7	84	0.00
12		14.4	37	51	88	413	15.	1.1	12.8	454	16.50
13		17.9	45	36	81	625	37.	1.2	14.0	750	44.40
14		19.0	41	37	78	604	30.	1.0	15.0	604	30.00
15		16.7	39	41	80	505	8.5	1.0	16.0	505	8.50
16		18.6	44	34	78	635	15.	1.1	17.1	699	16.50
17		16.3	41	46	87	519	32.	0.7	17.8	363	22.40
18		17.5	65	30	95	883	35.	1.4	19.2	1236	49.00
19		19.2	49	34	83	730	11.	0.8	20.0	584	8.80
20		20.1	59	30	89	920	2.7	0.7	20.7	644	1.89
21		18.8	57	28	85	831	2.5	1.0	21.7	831	2.50
22		20.5	61	31	92	970	5.8	0.7	22.4	679	4.06
23		17.8	41	44	85	566	5.2	1.1	23.5	623	5.72
24		18.6	56	38	94	808	3.8	1.0	24.5	808	3.80
25		19.2	55	38	92	819	5.5	1.0	25.5	819	5.50

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Lease		Well No.	
Yenom Oil Company		Dodson		1	
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	23.5	15.3	360.15		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbl./Acre
25.5	17.1	42.5	39.7	579	14,771