

OILFIELD RESEARCH LABORATORIES

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

February 14, 1980

Yenom Oil Company
841 North Broadway
Wichita, Kansas 67214

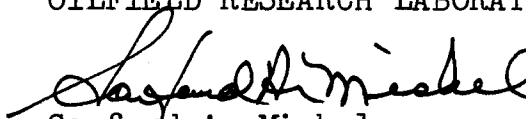
Gentlemen:

Enclosed herewith is the report of the analysis of the rotary core taken from the Dotson Lease, Well No. 6, Bourbon County, Kansas, and submitted to our laboratory on January 17, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/kas

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

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GENERAL INFORMATION & SUMMARY

Company Yenom Oil Company Lease Dotson Well No. 6

Location 165' SNL & 1125' EWL

Section 26 Twp 26S Rge 21E County Bourbon State Kansas

Elevation, Feet - - - - -

Name of Sand - - - - -

Bartlesville

Top of Core - - - - -

644.0

Bottom of Core - - - - -

669.0

Top of Sand - - - - -

644.0

Bottom of Sand - - - - - (Tested)

659.1

Total Feet of Permeable Sand - - - - -

15.1

Total Feet of Floodable Sand - - - - -

0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10
20 - 50
50 - 100
100 - 110

9.4
3.0
2.0
0.7

9.4
12.4
14.4
15.1

Average Permeability Millidarcys - - - - -

22.7

Average Percent Porosity - - - - -

18.2

Average Percent Oil Saturation - - - - -

35.8

Average Percent Water Saturation - - - - -

44.5

Average Oil Content, Bbls./A. Ft. - - - - -

520.

Total Oil Content, Bbls./Acre - - - - -

7,858.

Average Percent Oil Recovery by Laboratory Flooding Tests - - - - -

0

Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft. - - - - -

0

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre - - - - -

0

Total Calculated Oil Recovery, Bbls./Acre - - - - -

0

-2-

The core was sampled by a representative of Oilfield Research Laboratories. Fresh water mud was used as a drilling fluid.

At the request of the client, the first six samples were subjected to floodpot testing. Since these samples failed to respond, no calculated recovery is given.

FORMATION CORED

The detailed log of the formation cored is as follows:

<u>Depth Interval, Feet</u>	<u>Description</u>
644.0 - 649.7	Very dark brown slightly carbonaceous sandstone.
649.7 - 650.9	Grayish brown shaly slightly carbonaceous sandstone.
650.9 - 659.1	Brown shaly carbonaceous sandstone.
659.1 - 659.5	Gray conglomeratic shaly sandstone.
659.5 - 663.3	Gray sandy shale.
663.3 - 668.2	Gray shale.
668.2 - 669.0	Coal.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Yenom Oil Company Lease Dotson 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 Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	644.5	20.2	39	40	79	611	28.	1.0	1.0	611	28.00
2	645.5	16.0	45	46	91	559	86.	1.0	2.0	559	86.00
3	646.5	24.0	27	32	59	503	31.	1.0	3.0	503	31.00
4	647.5	20.7	31	44	75	498	62.	1.0	4.0	498	62.00
5	648.5	14.5	38	55	93	428	26.	1.0	5.0	428	26.00
6	649.5	22.2	43	37	80	741	105.	0.7	5.7	519	73.50
7	650.5	14.6	44	53	97	498	4.0	1.2	6.9	598	4.80
8	651.5	18.6	18	47	65	260	1.3	1.1	8.0	286	1.43
9	652.5	17.8	41	43	84	566	1.7	1.0	9.0	566	1.70
10	653.5	15.7	19	58	77	231	5.4	1.0	10.0	231	5.40
11	654.5	15.1	15	60	75	175	3.9	1.0	11.0	175	3.90
12	655.5	19.4	28	38	66	421	3.9	1.0	12.0	421	3.90
13	656.5	13.1	17	57	74	172	3.8	1.0	13.0	172	3.80
14	657.5	20.8	64	26	90	1,033	5.0	1.0	14.0	1,033	5.00
15	658.5	22.0	67	29	96	1,144	5.1	1.1	15.1	1,258	5.61

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Yenom Oil Company	Lease	Dotson	Well No.	6
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
644.0 - 649.7	5.7	53.8	306.50		
649.7 - 659.1	9.4	3.8	35.54		
644.0 - 659.1	15.1	22.7	342.04		

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 Bbbl./Acre
644.0 - 649.7	5.7	19.5	36.9	42.6	547	3,118
649.7 - 659.1	9.4	17.5	35.1	45.7	504	4,740
644.0 - 659.1	15.1	18.2	35.8	44.5	520	7,858

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RESULTS OF LABORATORY FLOODING TESTS

TABLE IV

Company			Yenom Oil Company			Lease			Dotson			Well No.			6		
Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Volume of Water Recovered cc*	Effective Permeability Millidarcys**	Initial Fluid Production Pressure Lbs./Sq./In.					
			%	Bbbls./A. Ft.	%	Bbbls./A. Ft.	% Oil	% Water	Bbbls./A. Ft.								
1	644.5	20.2	39	611	0	0	39	40	611	0	Imp.	-					
2	645.5	16.2	45	566	0	0	45	47	566	0	Imp.	-					
3	646.5	23.9	27	501	0	0	27	40	501	0	Imp.	-					
4	647.5	20.5	31	493	0	0	31	44	493	0	Imp.	-					
5	648.5	14.8	38	436	0	0	38	55	436	0	Imp.	-					
6	649.5	22.1	43	737	0	0	43	41	737	0	Imp.	-					

Notes: cc—cubic centimeter.

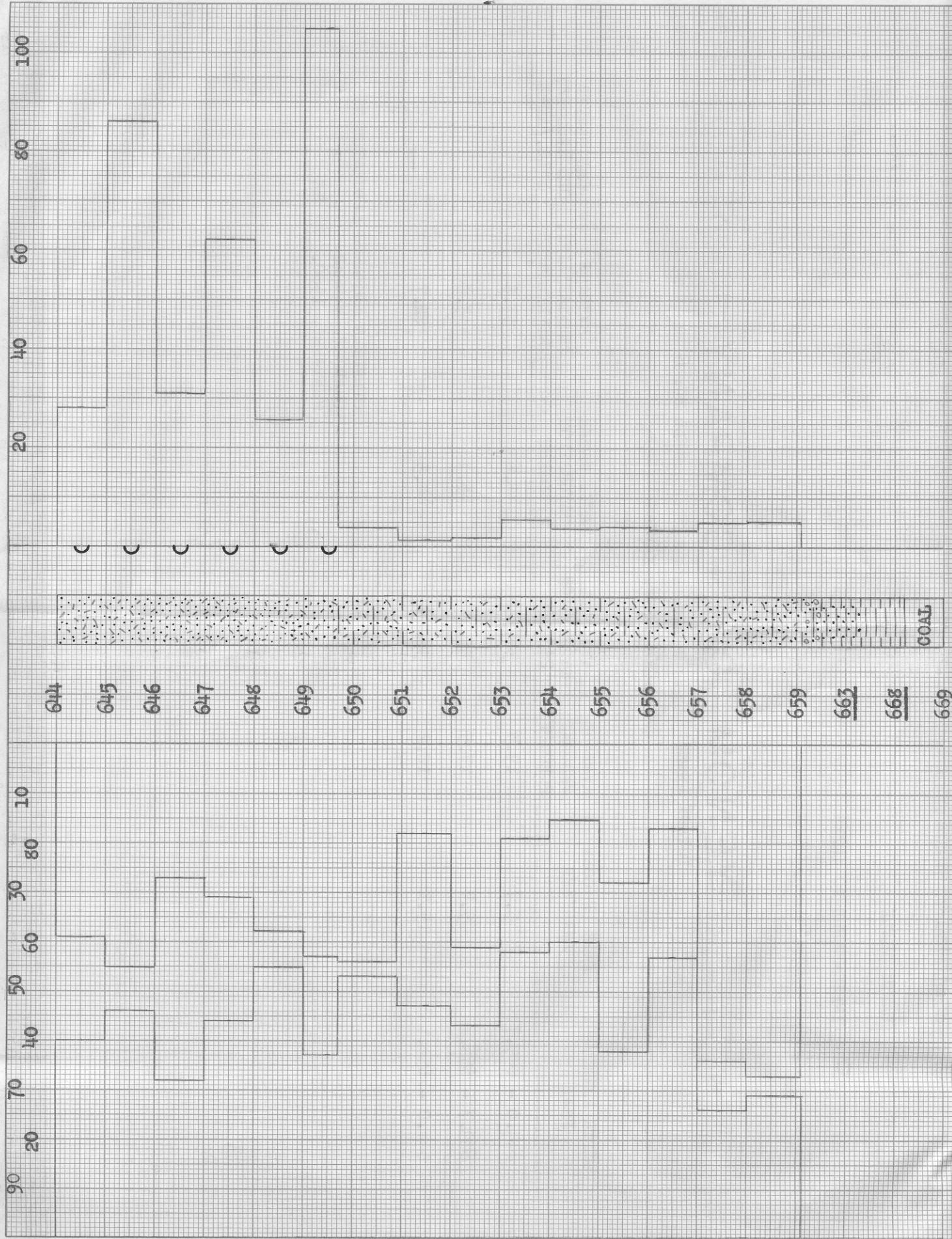
*—Volume of water recovered at the time of maximum oil recovery.

**—Determined by passing water through sample which still contains residual oil.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCYS



658
659
663
668
669

COAL

KEY:

 CARBONACEOUS SANDSTONE

 CARBONACEOUS SHALY SANDSTONE

 CONGLOMERATIC SHALY SANDSTONE

 SHALE

 SANDY SHALE

 COAL

O IMPERMEABLE TO WATER

YENOM OIL COMPANY

DOTSON LEASE

WELL NO. 6

BOURBON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE		AVG. OIL		AVG. WATER		AVERAGE		CALCULATED	
		POROSITY	PERCENT	SATURATION	PERCENT	SATURATION	PERCENT	PERMEABILITY,	MILLIDARQYS	OIL RECOVERY	BBL.S./ACRE
644.0 - 649.7	5.7	19.5	36.9	42.6	53.8						
649.7 - 659.1	9.4	17.5	35.1	45.7	3.8						
644.0 - 659.1	15.1	18.2	35.8	44.5	22.7						

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
FEBRUARY, 1980.
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