



OILFIELD RESEARCH LABORATORIES

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

November 26, 1982

Graybol-Patton Company
Holarud Building, Suite 301
10 East 3rd Street
Tulsa, Oklahoma 74103

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Bates Lease, Well No. 17, located in Section 1, T-29S, R-14E, Wilson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on November 23, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/rmc

5 c to Tulsa, Oklahoma

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LOGCompany Graybol-Patton Company Lease Bates Well No. 17

<u>Depth Interval, Feet</u>	<u>Description</u>	<u>LOWER BARTLESVILLE SANDSTONE</u>
1050.0 - 1052.0	Brown sandstone with scattered fine gray shale partings.	
1052.0 - 1052.7	Brown shaly sandstone with scattered fine coal and gray shale partings.	
1052.7 - 1054.0	Grayish brown very shaly sandstone.	
1054.0 - 1055.0	Gray and brown finely laminated shale and sandstone.	
1055.0 - 1055.8	Gray shale.	
1055.8 - 1056.9	Brown shaly sandstone.	
1056.9 - 1057.5	Dark brown sandstone.	
1057.5 - 1058.0	Gray and brown finely laminated shale and sandstone.	
1058.0 - 1058.5	Dark brown slightly shaly sandstone.	
1058.5 - 1059.0	Gray and brown finely laminated shale and sandstone.	
1059.0 - 1059.5	Dark brown sandstone.	
1059.5 - 1060.1	Grayish brown very shaly sandstone.	
1060.1 - 1060.3	Brown sandstone.	
1060.3 - 1061.5	Grayish brown very shaly sandstone.	
1061.5 - 1062.2	Brown sandstone.	
1062.2 - 1063.5	Gray shale with brown sandstone partings.	
1063.5 - 1064.3	Grayish brown very shaly sandstone.	
1064.3 - 1065.0	Grayish brown shaly sandstone.	

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Graybol-Patton Company Lease Bates Well No. 17

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	1050.4	15.1	38	26	64	445	35.
2	1051.5	14.3	34	31	65	377	11.
3	1052.4	13.9	35	42	77	377	5.2
4	1053.3	13.6	30	46	76	317	0.36
5	1056.4	10.2	53	44	97	419	3.6
6	1057.4	14.6	49	28	77	555	58.
7	1058.4	14.8	59	24	83	677	9.4
8	1059.4	17.4	42	28	70	567	74.
9	1060.2	14.9	47	26	73	543	15.
10	1061.6	14.5	46	28	74	518	37.
11	1063.7	14.3	39	54	93	433	0.54
12	1064.7	15.7	28	58	86	341	3.3