



OILFIELD RESEARCH LABORATORIES

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September 8, 1982

Graybol-Patton Company
Suite 301 Holarud Building
10 E. 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. 15, located in Section 1, T-29S, R-14E, in Wilson County, Kansas.

The unbagged core was sampled by a representative of the client and was submitted to our laboratory on September 3, 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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LOG

Company Graybol-Patton Company Lease Bates Well No. 15

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SANDSTONE (?)</u>
1039.0 - 1039.5	Gray shale
1039.5 - 1040.0	Dark brown sandstone.
1040.0 - 1040.9	Brown sandstone containing widely scattered very fine coal partings.
1040.9 - 1041.4	Grayish brown slightly shaly sandstone containing very fine shale partings.
1041.4 - 1043.9	Gray shale containing very fine light gray sandstone partings.
1043.9 - 1044.0	Brown sandstone.
1044.0 - 1044.5	Gray shale containing scattered very fine light gray sandstone partings.
1044.5 - 1044.7	Brown sandstone.
1044.7 - 1045.0	Gray shale containing brown sandstone partings.
1045.0 - 1045.7	Grayish brown shaly sandstone containing scattered fine shale partings.
1045.7 - 1046.5	Brown sandstone.
1046.5 - 1046.7	Gray shale containing brown sandstone partings.
1046.7 - 1046.9	Brown sandstone.
1046.9 - 1048.0	Gray shale containing scattered very fine light gray sandstone partings.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Graybol-Patton Company Lesse Bates Well No. 15

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1039.6	20.3	34	14	48	535	711.
2	1040.5	17.4	34	24	58	459	84.
3	1041.3	16.3	35	27	62	443	9.1
4	1043.5	17.0	34	28	62	448	35.
5	1044.6	19.0	38	20	58	560	127.
6	1045.5	18.8	62	24	86	904	6.0
7	1046.4	16.9	47	15	62	616	20.