



OILFIELD RESEARCH LABORATORIES

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

January 28, 1982

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

The portion of the core that reflects oil and water saturation was sampled by the client. The portion of the core that reflects permeabilities and porosities only was sampled in the laboratory after being delivered by the client on January 26, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

5 c to Tulsa, Oklahoma

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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LOGName Graybol-Patton Company Lease Bates Well No. 7

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SAND</u>
1047.0 - 1047.4	Grayish brown shaly sandstone.
1047.4 - 1049.0	Dark brown sandstone.
1049.0 - 1050.0	Grayish brown shaly sandstone.
1050.0 - 1051.0	Brown sandstone.
1051.0 - 1051.8	Brown sandstone with micaceous partings.
1051.8 - 1053.0	Brown sandstone.
1053.0 - 1054.0	Brown sandstone with shale partings.
1054.0 - 1054.5	Grayish black carbonaceous shaly sandstone.
1054.5 - 1055.0	Gray shaly sandstone.
1055.0 - 1056.8	Grayish brown shaly sandstone.
1056.8 - 1060.0	Brown sandstone.
1060.0 - 1061.0	Brown slightly carbonaceous sandstone.
1061.0 - 1063.0	Brown sandstone.
1063.0 - 1067.0	Grayish brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Graybol-Patton Company Lease Bates Well No. 7

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1047.5	16.4					15.
* 2	1048.5	17.3	37	26	63	497	33.
3	1049.3	10.8					0.48
4	1050.5	21.1					101.
* 5	1051.4	20.2	31	43	74	486	84.
6	1052.5	22.8					259.
7	1053.6	20.6					18.
* 8	1054.4	14.7	37	37	74	422	0.24
9	1055.5	15.7					6.9
10	1056.4	14.3					0.92
* 11	1057.5	18.4	39	34	73	557	60.
12	1058.4	17.9					78.
13	1059.5	22.0					153.
* 14	1060.5	28.2	32	35	67	700	745.
15	1061.5	22.6					90.
16	1062.5	22.9					236.
* 17	1063.5	24.5	29	44	73	551	280.
* 18	1064.4	26.3	21	53	74	429	501.
* 19	1065.7	27.0	22	48	70	461	384.
* 20	1066.9	24.9	20	58	78	386	527.

NOTE: * SAMPLES RECEIVED UNBAGGED.