



OILFIELD RESEARCH LABORATORIES

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

September 1, 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. 13, located in Section 1, T-29S, R-14E, in Wilson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on August 31, 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. 13

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SANDSTONE</u>
1055.0 - 1062.3	Brown sandstone.
1062.3 - 1063.2	Brownish black sandstone.
1063.2 - 1065.8	Brown sandstone.
1065.8 - 1066.9	Grayish black sandstone.
1066.9 - 1068.2	Grayish black shaly sandstone.
1068.2 - 1069.6	Light brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Graybol-Patton Co. Lease Bates Well No. 13

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1055.4	17.0	31	36	67	409	19.
2	1056.5	19.3	35	26	61	524	158.
3	1057.5	16.0	37	31	68	459	30.
4	1058.3	21.1	43	26	69	704	167.
5	1059.3	21.4	45	38	83	747	85.
6	1060.3	23.9	28	49	77	519	96.
7	1061.3	23.2	35	36	71	630	117.
8	1062.4	23.9	30	47	77	556	142.
9	1063.4	28.0	22	36	58	478	470.
10	1064.4	29.6	43	49	92	987	199.
11	1065.4	27.2	23	34	57	485	687.
12	1066.4	21.1	27	39	66	442	9.9
13	1067.2	22.2	39	30	69	672	4.0
14	1068.5	25.9	20	57	77	402	317.
15	1069.5	23.8	18	65	83	332	131.