



OILFIELD RESEARCH LABORATORIES

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

August 26, 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. 14, 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 25, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

A handwritten signature in cursive script, appearing to read "Sanford A. Michel".

Sanford A. Michel

SAM/rmc

5 c to Tulsa, Oklahoma

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LOGCompany Graybol-Patton Company Lease Bates Well No. 14

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SANDSTONE</u>
1035.0 - 1036.0	Dark brown sandstone.
1036.0 - 1036.2	Gray shale.
1036.2 - 1037.0	Brown sandstone.
1037.0 - 1037.6	Alternate layers gray and brown shale and sandstone.
1037.6 - 1041.3	Dark brown sandstone.
1041.3 - 1041.6	Grayish brown slightly shaly sandstone.
1041.6 - 1042.6	Dark brown sandstone.
1042.6 - 1043.6	Gray shale.
1043.6 - 1049.0	Dark brown sandstone.
1049.0 - 1050.0	Grayish brown very shaly sandstone.
1050.0 - 1050.9	Dark brown sandstone.
1050.9 - 1051.1	Gray shale.
1051.1 - 1056.0	Dark brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Graybol-Patton Co. Lease Bates Well No. 14

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1035.3	16.9	34	28	62	446	23.
2	1036.6	19.7	38	25	63	581	118.
3	1037.3	12.8	48	42	90	477	7.2
4	1038.3	17.8	38	28	66	525	42.
5	1039.4	18.6	30	32	62	433	82.
6	1040.7	18.9	31	30	61	455	127.
7	1041.4	15.0	44	39	83	512	6.3
8	1042.2	18.0	39	34	73	545	58.
9	1044.5	18.9	40	24	64	587	113.
10	1045.5	19.3	39	26	65	584	203.
11	1046.5	17.9	39	26	65	542	113.
12	1047.5	19.2	46	17	63	685	137.
13	1048.3	19.6	37	30	67	563	158.
14	1050.5	16.8	23	37	60	300	17.
15	1051.4	18.3	25	48	73	355	62.
16	1052.3	19.2	29	41	70	432	101.
17	1053.4	20.5	29	58	87	461	82.
18	1055.4	17.8	32	37	69	442	80.