

OILFIELD RESEARCH LABORATORIES

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

January 21, 1982

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

Gentlemen:

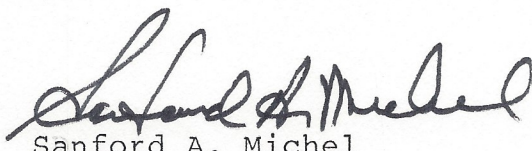
Attached hereto are the results of tests run on the rotary core taken from the Bates Lease, Well No. 9, located in Section 1, T-29S, R-14E, in Wilson County, Kansas.

The core was received unbagged and was sampled in our laboratory on January 20, 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

OILFIELD RESEARCH LABORATORIES

LOG

Name Graybol-Patton Company Lease Bates Well No. 9

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SAND</u>
1031.0 - 1039.3	Gray shaly sandstone with small brown shale laminations
1039.3 - 1043.7	Black slightly carbonaceous sandstone.
1043.7 - 1044.6	Brownish black sandstone with some fine shale partings.
1044.6 - 1047.5	Gray shale.
1047.5 - 1048.4	Brown sandstone.
1048.4 - 1049.3	Grayish brown slightly shaly sandstone.
1049.3 - 1050.0	Grayish brown sandstone.
1050.0 - 1050.6	Alternate layers gray shale and brown sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Graybol-Patton Co. Lease Bates Well No. 9

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1031.6	7.5					Imp.
2	1032.8	12.6					2.2
3	1036.5	8.7					Imp.
4	1037.5	8.2					Imp.
5	1038.5	10.4					Imp.
6	1039.5	17.7					74.
7	1040.5	18.1					52.
8	1041.5	17.6					89.
9	1042.5	17.9					44.
10	1043.5	18.5					145.
11	1044.5	16.0					14.
12	1047.7	15.5					24.
13	1048.5	14.3					8.0
14	1049.5	18.1					68.
15	1050.5	9.9					1.3