

OILFIELD RESEARCH LABORATORIES

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

July 2, 1980

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

Gentlemen:

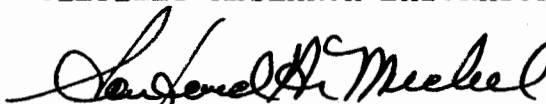
Attached hereto are the results of tests run on the rotary core taken from the Margrett Kinne Lease, Well No. 17-B, located in the Northeast $\frac{1}{4}$ of the Southwest $\frac{1}{4}$, of the Southwest $\frac{1}{4}$ in Section 18, T-28S, R-20E, Neosho County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on June 12, 1980.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/tem

4 c to Tulsa, Oklahoma

Oilfield Research Laboratories
GENERAL INFORMATION & SUMMARY

Company Graybol-Patton Company Lease Margrett Kinne Well No. 17-B
 Location NE SW SW
 Section 18 Twp. 28S Rge. 20E County Neosho State Kansas

Elevation, Feet	
Name of Sand	Cattleman
Top of Core	562.0
Bottom of Core	588.6
Top of Sand	566.7
Bottom of Sand	588.6
Total Feet of Permeable Sand	14.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	4.1	4.1
10 - 20	4.4	8.5
20 - 30	3.1	11.6
30 & Above	3.3	14.9

Average Permeability Millidarcys	17.4
Average Percent Porosity	17.6
Average Percent Oil Saturation	
Average Percent Water Saturation	
Average Oil Content, Bbls./A. Ft.	
Total Oil Content, Bbls./Acre	

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company Grayhol-Patton Company Lease Margrett Kinne Well No. 17-B

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	567.5	0.44	1.6	1.6	0.70	13.4
2	568.5	26.	0.7	2.3	18.20	18.5
3	569.5	14.	0.6	2.9	8.40	17.9
4	570.5	19.	1.0	3.9	19.00	19.3
5	571.5	35.	1.0	4.9	35.00	20.0
6	572.5	11.	1.0	5.9	11.00	18.0
7	575.5	7.2	1.0	6.9	7.20	17.5
8	576.5	1.5	1.5	8.4	2.25	12.8
9	577.5	27.	0.7	9.1	18.90	19.9
10	578.5	32.	0.6	9.7	19.20	19.5
11	579.5	38.	0.7	10.4	26.60	20.0
12	582.5	12.	0.8	11.2	9.60	16.8
13	585.5	16.	1.0	12.2	16.00	19.0
14	586.5	30.	1.0	13.2	30.00	19.6
15	587.5	22.	1.7	14.9	37.40	18.6

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LOGName Graybol-Patton Company Lease Margrett Kinne Well No. 17-B

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>CATTLEMAN SAND</u>
562.0 - 566.7	Grayish brown sandy shale.
566.7 - 568.3	Brown very shaly sandstone.
568.3 - 572.6	Light brown sandstone.
572.6 - 574.8	Gray sandy shale.
574.8 - 577.3	Brown and gray laminated sandstone and shale.
577.3 - 578.6	Brown sandstone.
578.6 - 579.3	Gray shaly sandstone.
579.3 - 580.0	Brown sandstone.
580.0 - 581.9	Gray sandy shale.
581.9 - 582.7	Brown sandstone.
582.7 - 584.9	Gray very shaly sandstone.
584.9 - 588.6	Brown sandstone.