

OILFIELD RESEARCH LABORATORIES

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

December 7, 1982

Hughes Drilling Company
122 North Main
Wellsville, Kansas 66092

Gentlemen:

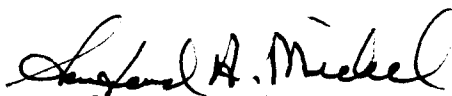
Attached hereto are the results of tests run on the rotary core taken from the East Benjamin Lease, Well No. 3, located in Section 1, T-21S, R-19E, Anderson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on December 6, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/rmc

5 c to Wellsville, Kansas

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LOGCompany Hughes Drilling Company Lease East Benjamin Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>UPPER SQUIRREL SANDSTONE</u>
804.0 - 805.2	Grayish brown very shaly sandstone.
805.2 - 805.5	Brown sandstone.
805.5 - 805.9	Grayish brown very shaly sandstone.
805.9 - 807.0	Brown sandstone.
807.0 - 807.4	Grayish brown very shaly sandstone.
807.4 - 807.9	Brown sandstone.
807.9 - 808.6	Brown sandstone with gray shale partings.
808.6 - 809.8	Brown sandstone.
809.8 - 810.0	Gray shale.
810.0 - 810.4	Brown sandstone.
810.4 - 810.7	Brown slightly shaly sandstone.
810.7 - 812.0	Brown sandstone.
812.0 - 813.1	Grayish brown shaly sandstone.
813.1 - 814.0	Brown sandstone.
814.0 - 816.0	Grayish brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Hughes Drilling Company Lease East Benjamin Well No. 3

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A. Ft.	Permeability, Millidarcys
			Oil	Water	Total		
1	804.5	14.8	37	59	96	425	0.87
2	805.4	19.3	44	33	77	659	27.
3	806.5	19.4	42	34	76	632	22.
4	807.5	19.3	40	41	81	599	18.
5	808.5	20.7	46	38	84	739	17.
6	809.6	18.9	47	33	80	689	62.
7	810.5	16.0	48	47	95	596	6.0
8	811.6	19.7	34	42	76	520	47.
9	812.5	15.2	48	45	93	566	4.5
10	813.5	17.7	20	62	82	275	10.
11	814.5	15.5	21	73	94	253	0.89
12	815.6	16.0	26	70	96	323	Imp.