



# OILFIELD RESEARCH LABORATORIES

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

August 9, 1982

A. E. Ballou  
Route 5, Box 149  
Paola, Kansas 66071

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the McNeal Lease, Well No. 1, located in Section 12, T-17S, R-21E, in Miami 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 6, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/rmc

5 c to Paola, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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LOGName A. E. Ballou Lease McNeal Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
668.0 - 670.0	Brown slightly calcareous sandstone.
670.0 - 671.6	Grayish brown shaly sandstone with scattered fine shale partings.
671.6 - 672.4	Grayish very light brown very shaly sandstone.
672.4 - 673.0	Gray sandy shale.
673.0 - 673.7	Grayish brown very shaly sandstone with scattered fine shale partings.
673.7 - 674.0	Gray very shaly sandstone.
674.0 - 675.4	Grayish brown shaly sandstone with scattered fine shale partings.
675.4 - 675.6	Gray sandy shale.
675.6 - 676.8	Grayish brown very shaly sandstone with scattered fine shale partings.
676.8 - 677.7	Grayish brown shaly sandstone with scattered fine shale partings.
677.7 - 678.8	Brown sandstone with scattered fine shale partings.
678.8 - 679.8	Grayish brown shaly sandstone with scattered fine shale partings.

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## RESULTS OF SATURATION & PERMEABILITY TESTS

### TABLE 1

Company A. E. Ballou Lease McNeal Well No. 1

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	668.5	23.5	36	31	67	656	22.
2	669.4	22.8	40	38	78	708	19.
3	670.4	20.0	48	46	94	745	1.2
4	671.5	15.6	27	67	94	327	3.7
5	672.3	11.8	17	80	97	156	0.26
6	673.5	16.7	25	69	94	324	0.30
7	674.4	17.6	36	51	87	492	1.6
8	675.7	15.5	24	66	90	289	0.63
9	676.5	16.0	27	69	96	335	Imp.
10	677.4	19.2	29	52	81	432	2.7
11	678.3	19.3	48	29	77	719	31.
12	679.5	16.7	41	55	96	531	1.7