



OILFIELD RESEARCH LABORATORIES

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

July 1, 1982

B & R Oil Company
c/o Don Bogle
1 West Osage
Paola, Kansas 66071

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Cooper Lease, Well No. 18, located 165' from the East Line and 900' from the South Line, in the Southeast $\frac{1}{4}$ of Section 9, T-17S, R-22E, 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 June 29, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/dlb

1 c to Paola, Kansas
3 c to Scottsdale, Arizona
1 c to Baldwin, Kansas

- REGISTERED ENGINEERS -

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

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LOGName B & R Oil Company Lease Cooper Well No. 18

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>SQUIRREL SAND</u>
642.0 - 643.3	Grayish brown very shaly sandstone.
643.3 - 644.3	Brown sandstone with scattered gray shale partings.
644.3 - 645.5	Grayish brown shaly sandstone.
645.5 - 646.8	Brown sandstone.
646.8 - 648.0	Grayish brown shaly sandstone.
648.0 - 650.6	Grayish brown very shaly sandstone.
650.6 - 652.0	Brown slightly shaly sandstone.
652.0 - 653.0	Brown shaly sandstone.
653.0 - 654.6	Grayish brown very shaly sandstone.
654.6 - 659.3	Gray and brown laminated shale and sandstone (Ground up)

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company B & R Oil Company Lease Cooper Well No. 18

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbla. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	642.4	15.7	39	50	89	475	0.50
2	643.5	18.5	32	48	80	459	11.
3	644.5	16.8	48	45	93	626	3.9
4	645.4	15.8	39	57	96	478	3.1
5	646.4	20.1	49	44	93	764	12.
6	647.5	17.6	51	46	97	696	3.6
7	648.4	15.6	29	67	96	351	0.16
8	649.5	16.0	29	67	96	360	0.47
9	650.5	17.2	43	52	95	574	0.22
10	651.5	21.1	46	37	83	753	6.5
11	652.5	19.3	34	48	82	509	3.6
12	653.5	16.5	29	40	69	371	0.24
13	654.5	15.9	25	72	97	308	0.71