



OILFIELD RESEARCH LABORATORIES

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

September 20, 1982

Fred Ball
c/o Bob Kleier
R. R. # 1
Wellsville, Kansas 66092

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the H. H. Murphy Lease, Well No. 1, located 360' from the North Line and 165' from the West Line in the Northwest $\frac{1}{4}$ of Section 36, T-15S, R-21E, Miami County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and submitted to our laboratory on September 16, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/rmc

5 c Wellsville, Kansas

- REGISTERED ENGINEERS -

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

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LOGCompany Fred Ball Lease H. H. Murphy Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>FIRST SQUIRREL SANDSTONE</u>
666.5 - 667.1	Grayish brown slightly shaly sandstone.
667.1 - 667.3	Gray sandy shale.
667.3 - 667.8	Brown sandstone.
667.8 - 668.2	Hard light grayish brown very shaly calcareous sandstone.
668.2 - 669.0	Hard grayish brown shaly calcareous sandstone.
669.0 - 669.9	Grayish brown shaly slightly calcareous sandstone.
669.9 - 670.8	Brown sandstone.
670.8 - 671.1	Light grayish brown very shaly sandstone.
671.1 - 671.5	Brown sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Fred Ball Lease Murphy Well No. 1

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	666.8	19.0	40	40	80	590	6.3
2	667.5	19.6	47	30	77	715	12.
3	668.6	15.2	52	35	87	613	2.4
4	669.3	13.7	55	27	82	585	3.7
5	670.5	22.7	48	24	72	845	47.
6	671.4	20.2	42	34	76	658	27.