



OILFIELD RESEARCH LABORATORIES

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

August 6, 1982

CFS Energy, Inc.
2525 Murworth, Suite 10K
Box 20327
Houston, Texas 77054

Gentlemen:

Attached hereto are the results of the tests run on the rotary core taken from the John Younggren Lease, Well No. 21, located 550' from the North Line and 650' from the East Line, in the Southeast $\frac{1}{4}$ of Section 29, T-23S, R-25E, in Bourbon 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 4, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/rmc

5 c to Houston, Texas

- REGISTERED ENGINEERS -

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

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LOG

Name CFS Energy, Inc. Lease John Younggren Well No. 21

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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PERU SAND

42.0 - 44.3	Light brown very shaly sandstone.
44.3 - 45.4	Grayish light brown calcareous very shaly sandstone.
45.4 - 49.0	Gray calcareous very shaly sandstone.
49.0 - 50.4	Grayish light brown very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company CFS Energy, Inc. Lease John Younggren Well No. 21

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	42.5	15.7	21	64	85	256	0.17
2	43.5	14.9	16	69	85	185	0.76
3	44.4	17.4	8	84	92	108	0.36
4	45.5	4.2	12	86	98	39	Imp.
5	46.5	5.8	25	72	97	112	Imp.
6	47.5	5.8	11	86	97	49	Imp.
7	48.5	11.9	15	67	82	139	Imp.
8	49.4	16.4	16	64	80	204	0.68
9	50.3	16.7	17	67	84	220	0.76