

OILFIELD RESEARCH LABORATORIES

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

August 25, 1982

Zoandra Petroleum, Inc.
P. O. Box 258
Chanute, Kansas 66720

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Harder "Z" Lease, Well No. 1, located in Section 22, T-25S, R-15E, in Woodson 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 21, 1982.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Sanford A. Michel

SAM/rmc

4 c to Chanute, Kansas
1 c to Aurora, Colorado

OILFIELD RESEARCH LABORATORIES

LOG

Company Zoandra Petroleum, Inc. Lease Harder "Z" Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>SQUIRREL SANDSTONE</u>
1129.0 - 1136.8	Dark brown sandstone.
1136.8 - 1138.0	Black slightly carbonaceous slightly shaly sandstone.
1138.0 - 1139.0	Grayish black slightly carbonaceous shaly sandstone.
1139.0 - 1140.0	Grayish black slightly carbonaceous sandstone.
1140.0 - 1140.5	Grayish black slightly carbonaceous shaly sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Zoandra Petroleum, Inc Lease Harder "Z" Well No. 1

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	1129.5	22.6	28	28	56	491	101.
2	1130.5	22.0	43	22	65	734	59.
3	1131.6	22.0	46	26	72	785	66.
4	1132.5	23.2	38	25	63	684	121.
5	1133.5	23.6	49	16	65	897	169.
6	1134.6	22.6	60	15	75	1,052	22.
7	1135.6	23.6	52	19	71	952	188.
8	1136.5	23.7	59	17	76	1,085	62.
9	1137.5	21.4	68	18	86	1,129	6.3
10	1138.5	21.4	60	18	78	996	3.6
11	1139.5	22.4	57	17	74	991	12.
12	1140.2	18.3	38	19	57	539	5.4