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

June 22, 1981

Jim's Water Service, Inc.
P. O. Box 3076
Englewood, Colorado 80110

Gentlemen:

Attached hereto are the results of tests run on the rotary core taken from the Heady Lease, Well No. 3, located in Section 30, T-28S, R-20E, in Neosho 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 17, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/kas

4 c to Englewood, Colorado
1 c to Erie, Kansas

OILFIELD RESEARCH LABORATORIES

LOG

Name Jim's Water Service, Inc. Lease Heady Well No. 3

Depth Interval, Feet	Description
	BARTLESVILLE SAND
531.0 - 532.0	Grayish brown slightly calcareous shaly sandstone.
532.0 - 533.5	Brown slightly calcareous sandstone.
533.5 - 534.5	Grayish brown slightly calcareous shaly sandstone.
534.5 - 536.1	Brown slightly calcareous sandstone containing two vertical fractures.
536.1 - 537.1	Gray laminated sandstone and shale containing a vertical fracture.
537.1 - 539.2	Grayish brown slightly calcareous sandstone containing two vertical fractures.
539.2 - 539.8	Gray laminated sandstone and shale containing a vertical fracture.
539.8 - 540.6	Grayish brown slightly calcareous sandstone containing a vertical fracture.
540.6 - 542.4	Brown and gray laminated sandstone and shale containing a vertical fracture.
542.4 - 542.7	Brown slightly calcareous sandstone containing a vertical fracture.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Jim's Water Service, Inc. Lease Heady Well No. 3

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	531.4	16.3	45	43	88	569	7.5
2	532.7	19.7	36	31	67	550	25.
3	533.3	21.3	21	36	57	347	57.
4	534.4	16.7	38	39	77	492	4.6
5	535.5	17.1	24	33	57	318	24.
6	537.5	19.0	42	33	75	619	12.
7	540.4	19.3	25	42	67	374	8.8