



# OILFIELD RESEARCH LABORATORIES

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

July 2, 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. 23, located in the Northwest  $\frac{1}{4}$  of the Northwest  $\frac{1}{4}$  of the Northeast  $\frac{1}{4}$  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 29, 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

LOGName Jim's Water Service, Inc. Lease Heady Well No. 23

<u>Depth Interval, Feet</u>	<u>Description</u>
	<u>BARTLESVILLE SAND</u>
512.0 - 513.0	Light brown sandstone.
513.0 - 515.0	Grayish light brown shaly sandstone.
515.0 - 515.8	Gray shale.
515.8 - 520.7	Brown slightly calcareous sandstone.
520.7 - 522.0	Grayish brown slightly calcareous shaly sandstone.
522.0 - 524.0	Gray shale.
524.0 - 524.5	Grayish brown shaly sandstone.
524.5 - 528.0	Gray shale.
528.0 - 529.3	Grayish light brown slightly shaly sandstone.
529.3 - 532.6	Dark brown slightly carbonaceous sandstone with shale partings.

# Oilfield Research Laboratories

## RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1

Company Jim's Water Service, Inc. Lease Heady Well No. 23

Sample No.	Depth, Feet	Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.
			Oil	Water	Total		
1	512.4	14.6	27	40	67	306	12.
2	513.5	15.6	34	39	73	412	4.9
3	516.4	20.2	22	38	60	345	32.
4	517.4	21.0	39	30	69	635	52.
5	518.4	17.9	35	33	68	486	19.
6	520.4	18.9	37	42	79	540	23.
7	521.4	18.9	35	45	80	513	7.7
8	524.4	16.1	32	49	81	400	0.89
9	528.3	16.6	47	33	80	605	6.3
10	529.4	18.5	36	31	67	517	12.
11	530.4	18.5	37	29	66	531	8.7
12	531.3	17.7	36	31	67	494	14.
13	532.4	18.6	46	29	75	664	28.