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

July 13, 1979

Jim's Water Service, Inc.
P.O. Box 3076
Inglewood, Colorado 80111

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Freeman Lease, Well No. 7, Bourbon County, Kansas, and submitted to our laboratory on July 11, 1979.

The core was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:km
3 c to Inglewood, Colorado

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GENERAL INFORMATION & SUMMARY

Company Jim's Water Service, Inc. Lease Freeman Well No. 7

Location -

Section - Twp. - Rge. - County Bourbon State Kansas

Name of Sand	Tucker
Top of Core	618.0
Bottom of Core	630.0
Top of Sand	618.7
Bottom of Sand (Tested)	627.6
Total Feet of Permeable Sand	8.9
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
1 - 12	4.5	4.5
24 - 50	3.2	7.7
50 & Above	1.2	8.9

Average Permeability Millidarcys	31.9
Average Percent Porosity	17.3
Average Percent Oil Saturation	
Average Percent Water Saturation	
Average Oil Content, Bbls./A. Ft.	
Total Oil Content, Bbls./Acre	
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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LOG

Company Jim's Water Service, Inc. Lease Freeman Well No. 7

Depth Interval, Feet	Description
618.0 - 618.3	Black shale.
618.3 - 618.7	Gray sandy shale.
618.7 - 620.6	Gray and light brown laminated shale and sandstone.
620.6 - 623.0	Brown sandstone.
623.0 - 625.1	Brown laminated shaly sandstone.
625.1 - 626.3	Brown sandstone.
626.3 - 627.6	Brown laminated shaly sandstone.
627.6 - 628.0	Dark carbonaceous sandstone.
628.0 - 630.0	Gray shale laminated with widely scattered thin streaks of oil saturated sandstone.

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company Jim's Water Service, Inc. Lease Freeman Well No. 7

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	619.4	1.2	1.0	1.0	1.20	14.5
2	620.5	1.7	0.9	1.9	1.53	14.1
3	621.5	49.	1.4	3.3	68.60	19.1
4	622.5	27.	1.0	4.3	27.00	19.1
5	623.5	2.4	1.0	5.3	2.40	13.7
6	624.5	6.3	1.1	6.4	6.93	16.3
7	625.5	126.	1.2	7.6	151.20	22.0
8	626.4	12.	0.5	8.1	6.00	16.6
9	627.5	24.	0.8	8.9	19.20	17.7

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company: Jim's Water Service, Inc. Lease: Freeman Well No: 7

Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
618.7 - 627.6	8.9	31.9		284.06	17.3