OILFIELD RESEARCH LABORATORIES
536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

March 3, 1967

Chet Mason
c/o Duct-O-Wire Company
3495 Lakewood Boulevard
Long Beach, California

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Mason-Lockridge Lease, Well No. 2, Bourbon County, Kansas, and submitted to our laboratory on March 2, 1967.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

BRP:rf

5 c. - Ft. Scott, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Chet Mason Lease Mason-Lockridge Well No. 2

Location 165' SNL & 165' WEL

Section 33 Twp. 25S Rge. 23E County Bourbon State Kansas

Name of Sand	Squirrel
Top of Core	140.0
Bottom of Core	162.0
Top of Sand	145.3
Bottom of Sand	155.3
Total Feet of Permeable Sand	10.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	3.7	3.7
10 - 18	6.3	10.0

Average Permeability Millidarcys	10.5
Average Percent Porosity	18.5
Average Percent Oil Saturation	53.7
Average Percent Water Saturation	38.1
Average Oil Content, Bbls./A. Ft.	777.
Total Oil Content, Bbls./Acre	7,767.
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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Company Chet Mason Lease Mason-Lockridge Well No. 2

Depth Interval, Feet	Description
140.0 - 145.3	Gray sandy shale.
145.3 - 152.3	Brown, slightly calcareous sandstone.
152.3 - 154.6	Dark, laminated, carbonaceous sandstone.
154.6 - 155.3	Grayish light brown, laminated, shaly sandstone.
155.3 - 162.0	Gray, laminated, shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Chet Mason Lease Mason-Lockridge Well No. 2

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	146.1	18.4	51	38	89	728	10.	1.3	1.3	945	13.00
2	147.1	18.7	48	39	87	696	5.0	1.0	2.3	696	5.00
3	148.1	17.9	46	44	90	638	3.2	1.0	3.3	638	3.20
4	149.1	19.0	50	36	86	737	18.	1.0	4.3	737	18.00
5	150.1	17.1	63	34	97	834	15.	1.0	5.3	834	15.00
6	151.1	18.7	59	34	93	854	17.	1.0	6.3	854	17.00
7	152.1	15.6	66	31	97	798	11.	0.7	7.0	559	7.70
8	153.1	21.2	61	29	90	1,001	18.	1.3	8.3	1,301	23.40
9	154.1	20.4	67	28	95	1,059	2.6	1.0	9.3	1,059	2.60
10	155.1	15.6	17	81	98	206	0.47	0.7	10.0	144	0.33
								Total-----		7,767	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Chet Mason Lease Mason-Lockridge Well No. 2

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
145.3 - 152.3	7.0	11.3	78.90
152.3 - 155.3	3.0	8.8	26.33
145.3 - 155.3	10.0	10.5	105.23

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
145.3 - 152.3	7.0	18.1	54.1	35.5	752	5,263
152.3 - 155.3	3.0	19.6	52.9	40.9	835	2,504
145.3 - 155.3	10.0	18.5	53.7	38.1	777	7,767