

OILFIELD RESEARCH LABORATORIES

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

December 1, 1979

J. B. & G. Oil Company
c/o Wilkins & Wilkins
P.O. Box 707
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Stevens Lease, Well No.2, Neosho County, Kansas, and submitted to our laboratory on November 15, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

SAM/tem
5 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company J. B. & G. Oil Company Lease Stevens Well No. 2

Location 150' EWL & 150' SNL

Section 23 Twp. 27S Rge. 19E County Neosho State Kansas

Name of Sand	Bartlesville
Top of Core	774.0
Bottom of Core	794.0
Top of Sand	774.0
Bottom of Sand	794.0
Total Feet of Permeable Sand	16.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 100	5.7	5.7
100 - 200	4.6	10.3
200 - 600	2.6	12.9
600 - 1600	3.6	16.5

Average Permeability Millidarcys	379.6
Average Percent Porosity	18.7
Average Percent Oil Saturation	8.4
Average Percent Water Saturation	83.4
Average Oil Content, Bbls./A. Ft.	122.
Total Oil Content, Bbls./Acre	2,012.
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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LOGName J. B. & G. Oil Company Lease Stevens Well No. 2Depth Interval,
FeetDescription

774.0 - 776.2	Grayish brown sandstone.
776.2 - 776.6	Gray sandy shale.
776.6 - 777.7	Gray shaly sandstone.
777.7 - 779.0	Brownish gray sandstone.
779.0 - 780.0	Gray laminated sandy shale.
780.0 - 780.2	Light brown sandstone.
780.2 - 780.6	Gray shale.
780.6 - 784.3	Grayish brown sandstone.
784.3 - 787.7	Gray medium grained sandstone.
787.7 - 788.3	Dark sandstone.
788.3 - 790.2	Gray sandstone.
790.2 - 790.4	Gray shale.
790.4 - 791.0	Gray sandstone.
791.0 - 791.7	Dark shale.
791.7 - 794.0	Gray fine to medium grained sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company J. B. & G. Oil Company

Lease

Stevens

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			Ft.	Cum. Ft.		
1	774.5	17.9	18	70	250	68.	1.0	1.0	250	68.00
2	775.5	18.5	6	86	86	126.	1.2	2.2	103	151.20
3	777.5	19.7	5	85	76	133.	1.1	3.3	84	146.30
4	778.5	19.1	10	87	148	137.	1.3	4.6	192	178.10
5	781.5	17.4	8	88	108	79.	1.4	6.0	151	110.60
6	782.5	17.6	11	81	150	28.	1.0	7.0	150	28.00
7	783.5	18.3	9	73	128	36.	1.3	8.3	166	46.80
8	784.5	16.4	1	88	13	14.	0.7	9.0	9	9.80
9	785.5	18.5	7	84	101	140.	1.0	10.0	101	140.00
10	786.5	18.7	4	90	58	612.	1.0	11.0	58	612.00
11	787.5	20.5	5	70	80	437.	0.7	11.7	56	305.90
12	788.5	19.1	7	88	104	557.	0.9	12.6	94	501.30
13	789.5	19.4	8	85	120	561.	1.0	13.6	120	561.00
14	790.5	20.5	10	83	159	1574.	0.6	14.2	95	944.40
15	791.8	15.6	15	64	182	11.	0.3	14.5	55	3.30
16	792.7	19.0	6	85	88	1420.	1.0	15.5	88	1420.00
17	793.5	20.6	15	79	240	1037.	1.0	16.5	240	1037.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		J. B. & G. Oil Company	Lease	Stevens	Well No.	2
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.			
774.0 - 794.0	16.5	379.6	6,263.70			
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
774.0 - 794.0	16.5	18.7	8.4	83.4	122	2,012