

OILFIELD RESEARCH LABORATORIES

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June 19, 1980

Mid-States Energy Corporation
P.O. Box 371
Paola, Kansas 66071

Gentlemen:

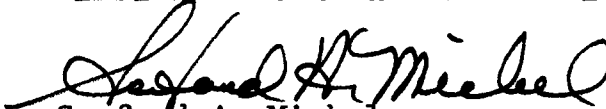
Enclosed herewith are the results of tests run on the rotary core taken from the Adams Lease, Well No. 1, Miami County, Kansas, and submitted to our laboratory on June 3, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours, 1

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Sanford A. Michel

SAM/tem

5 c to Paola, Kansas

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GENERAL INFORMATION & SUMMARY

Company Mid-States Energy Corporation Lease Adams Well No. 1
 Location 825' FWL & 825' FNL, NW SE NW SE
 Section 8 Twp. 17S Rgs. 22E County Miami State Kansas

Elevation, Feet	
Name of Sand	Upper Squirrel
Top of Core	607.0
Bottom of Core	616.0
Top of Sand	607.0
Bottom of Sand	614.6
Total Feet of Permeable Sand	6.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 4	3.8	3.8
10 - 20	2.4	6.2
25 & Above	0.7	6.9

Average Permeability Millidarcys	9.6
Average Percent Porosity	17.2
Average Percent Oil Saturation	41.9
Average Percent Water Saturation	35.7
Average Oil Content, Bbls./A. Ft.	565.
Total Oil Content, Bbls./Acre	4,292.

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LOGName Mid-States Energy Corporation Lease Adams Well No. 1

<u>Depth Interval, Feet</u>	<u>Description</u>
607.0 - 607.8	Brown very shaly sandstone.
607.8 - 609.2	Brown slightly calcareous sandstone.
609.2 - 610.3	Brown shaly sandstone.
610.3 - 612.0	Brown sandstone.
612.0 - 612.7	Brown and gray laminated sandstone and shale.
612.7 - 614.6	Brown shaly sandstone.
614.6 - 616.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mid-States Energy Corporation Lease Adams Well No. 1

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	607.5	18.2	39	42	81	551	0.84	0.8	0.8	441	0.67
2	608.5	20.3	51	20	71	803	14.	1.4	2.2	1124	19.60
3	609.5	16.6	41	38	79	528	1.7	1.1	3.3	581	1.87
4	610.5	18.1	40	30	70	562	29.	0.7	4.0	393	20.30
5	611.5	17.8	41	22	63	566	19.	1.0	5.0	566	19.00
6	612.5	15.0	32	53	85	372	Imp.	0.7	5.7	260	10.00
7	613.5	15.1	35	52	87	410	1.5	1.0	6.7	410	1.50
8	614.5	15.1	49	40	89	574	3.4	0.9	7.6	517	3.06

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Adams	Well No.
Mid-States Energy Corporation			1
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
607.0 - 614.6	6.9	9.6	66.00
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation
607.0 - 614.6	7.6	41.9	35.7
	Average Porosity	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	17.2	565	4,292