



OILFIELD RESEARCH LABORATORIES

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

January 29, 1981

H. Zander Corporation
P. O. Box 225
Paola, Kansas 66071

Gentlemen:

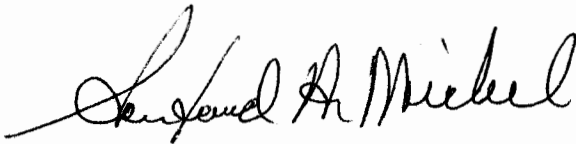
Enclosed herewith are the results of tests run on the rotary core taken from the Diehm Lease, Well No. 5, located in Miami County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on January 21, 1981.

Your business is greatly appreciated.

Very truly yours,

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Sanford A. Michel

SAM/kas

3 c to Paola, Kansas

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GENERAL INFORMATION & SUMMARY

Company H. Zander Corp. Lease Diehm Well No. 5

Location _____

Section _____ Twp. _____ Rge. _____ County Miami State Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	564.0
Bottom of Core	575.3
Top of Sand	566.0
Bottom of Sand	574.1
Total Feet of Permeable Sand	5.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	2.0	2.0
10 - 30	3.0	5.0
30 & Above	0.9	5.9

Average Permeability Millidarcys	18.7
Average Percent Porosity	16.4
Average Percent Oil Saturation	49.6
Average Percent Water Saturation	37.0
Average Oil Content, Bbls./A. Ft.	641.
Total Oil Content, Bbls./Acre	5,195.

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LOG

Name H. Zander Corporation Lease Diehm Well No. 5

<u>Depth Interval, Feet</u>	<u>Description</u>
564.0 - 566.0	Gray sandy shale.
566.0 - 568.2	Grayish brown very shaly sandstone.
568.2 - 569.1	Brown slightly calcareous sandstone.
569.1 - 572.2	Brown and gray laminated slightly calcareous sand- stone and shale.
572.2 - 573.3	Brown and gray laminated sandstone and shale.
573.3 - 574.1	Brown slightly calcareous sandstone.
574.1 - 575.3	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company H. Zander Corp. Lease Diehm Well No. 5

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	566.7	13.3	26	64	90	268	Imp.	1.0	1.0	268	0.00
2	567.5	12.6	44	50	94	430	Imp.	1.2	2.2	516	0.00
3	568.6	17.4	51	38	89	688	31.	0.9	3.1	619	27.90
4	569.5	17.6	64	24	88	874	9.9	0.9	4.0	787	8.91
5	570.5	15.5	65	26	91	782	28.	1.0	5.0	782	28.00
6	571.5	18.4	55	29	84	785	27.	1.2	6.2	942	32.40
7	572.5	19.0	48	28	76	708	1.6	1.1	7.3	779	1.76
8	573.5	18.0	45	35	80	628	14.	0.8	8.1	502	11.02

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company H. Zander Corp. Lease Diehm Well No. 5

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
566.0 - 574.1	5.9	18.7	110.17

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
566.0 - 574.1	8.1	16.4	49.6	37.0	641	5,195