



OILFIELD RESEARCH LABORATORIES

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

March 17, 1979

Donna Lee Oil Company
212 N. Holiday Lane
Iola, Kansas 66749

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the McIntyre Lease, Well No. 9, Allen County, Kansas, and submitted to our laboratory on March 14, 1979.

This core was sampled by a representative of Oilfield Research Laboratories after it was received in the laboratory. The core was out of the ground approximately 24 hours prior to sampling.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

SAM:cb

5 c to Iola, Kansas
1 c to Bob Carter
P.O. Box 229
Carmi, Ill. 62821

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GENERAL INFORMATION & SUMMARY

Company Donna Lee Oil Company Lease McIntyre Well No. 9

Location 825' SNL & 660' WEL SW $\frac{1}{4}$

Section 31 Twp. 23S Rge. 19E County Allen State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 890.0

Bottom of Core - - - - - 906.0

Top of Sand - - - - - 892.0

Bottom of Sand - - - - - 905.5

Total Feet of Permeable Sand - - - - - 10.8

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5
5 - 10
10 - 100
100 - 200

3.0
1.3
5.5
1.0

3.0
4.3
9.8
10.8

Average Permeability Millidarcys - - - - - 39.9

Average Percent Porosity - - - - - 18.9

Average Percent Oil Saturation - - - - - 40.1

Average Percent Water Saturation - - - - - 32.5

Average Oil Content, Bbls./A. Ft. - - - - - 574.

Total Oil Content, Bbls./Acre - - - - - 6,195.

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 Donna Lee Oil Company Lease McIntyre Well No. 9

<u>Depth Interval, Feet</u>	<u>Description</u>
890.0 - 892.0	Dark gray shale.
892.0 - 892.7	Light brown very shaly sandstone.
892.7 - 893.2	Gray sandy shale.
893.2 - 894.5	Light brown slightly shaly sandstone.
894.5 - 895.5	Dark gray shale.
895.5 - 896.8	Light brown shaly sandstone.
896.8 - 898.0	Dark gray shale.
898.0 - 902.0	Dark brown sandstone.
902.0 - 903.0	Dark brown micaceous sandstone.
903.0 - 905.5	Dark brown sandstone.
905.5 - 906.0	Coal.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Donna Lee Oil Company Lease McIntyre Well No. 9

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	892.5	14.8	27	45	72	310	0.17	0.7	0.7	217	0.12
2	893.4	15.5	36	36	72	433	8.5	0.8	1.5	346	6.80
3	894.3	17.2	31	29	60	414	9.9	0.5	2.0	207	4.95
4	895.7	14.9	12	63	75	139	1.8	0.5	2.5	70	0.90
5	896.5	15.5	21	58	79	253	2.1	0.8	3.3	202	1.68
6	898.5	21.0	47	15	62	766	60.	1.0	4.3	766	60.00
7	899.5	19.8	40	28	68	614	45.	1.0	5.3	614	45.00
8	900.5	19.8	45	19	64	691	38.	1.0	6.3	691	38.00
9	901.5	19.5	43	20	63	651	41.	1.0	7.3	651	41.00
10	902.5	14.1	34	49	83	372	1.2	1.0	8.3	372	1.20
11	903.5	20.6	36	29	65	575	21.	1.0	9.3	575	21.00
12	904.5	21.4	47	15	62	780	149.	1.0	10.3	780	149.00
13	905.3	16.5	55	23	78	704	58.	0.5	10.8	704	58.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Donna Lee Oil Company	Lease	McIntyre	Well No.	9
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
892.0 - 896.8	892.0 - 896.8	3.3	5.3	17.45	1,042
898.0 - 905.5	898.0 - 905.5	7.5	55.1	413.20	5,153
892.0 - 905.5	892.0 - 905.5	10.8	39.9	430.65	6,195
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
892.0 - 896.8	3.3	15.5	26.1	46.3	316
898.0 - 905.5	7.5	20.4	46.3	26.4	687
892.0 - 905.5	10.8	18.9	40.1	32.5	574