



OILFIELD RESEARCH LABORATORIES

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

April 16, 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 samples taken from the McIntyre Lease, Well No. 21, Allen County, Kansas, and submitted to our laboratory on April 13, 1979.

These core samples were sampled and sealed in plastic bags by a representative of the client. It is assumed that each sample represents one foot of core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:km
5 c to Iola, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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LOG

Company Donna Lee Oil Company Lease McIntyre Well No. 21

<u>Depth Interval, Feet</u>	<u>Description</u>
892.0 - 893.0	Light brown sandstone.
893.0 - 897.0	Grayish light brown laminated sandstone and shale.
897.0 - 900.0	Light brown slightly shaly sandstone.
900.0 - 901.0	Grayish light brown very shaly sandstone.
901.0 - 904.0	Light brown sandstone.
904.0 - 905.0	Light brown and gray very shaly sandstone.
905.0 - 913.0	Light brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Donna Lee Oil Company

Lease McIntyre

Well No.

21

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	892.5	17.2	34	35	69	454	8.2	1.0	1.0	454	8.20
2	893.5	13.2	2	87	89	21	3.1	1.0	2.0	21	3.10
3	894.5	3.7	22	73	95	92	2.5	1.0	3.0	92	2.50
4	895.5	8.8	4	91	95	27	Imp.	1.0	4.0	27	0.00
5	896.5	13.1	12	82	94	122	0.58	1.0	5.0	122	0.58
6	897.5	8.2	31	60	91	197	3.6	1.0	6.0	197	3.60
7	898.5	15.9	39	49	88	481	4.2	1.0	7.0	481	4.20
8	899.5	18.2	33	42	75	466	1.1	1.0	8.0	466	1.10
9	900.5	9.6	25	68	93	186	Imp.	1.0	9.0	186	0.00
10	901.5	18.4	32	46	78	457	18.	1.0	10.0	457	18.00
11	902.5	15.0	32	65	97	372	8.3	1.0	11.0	372	8.30
12	903.5	17.6	29	53	82	396	9.4	1.0	12.0	396	9.40
13	904.5	18.3	33	44	77	469	Imp.	1.0	13.0	469	0.00
14	905.5	19.2	44	37	81	655	9.7	1.0	14.0	655	9.70
15	906.5	17.7	26	55	81	357	10.	1.0	15.0	357	10.00
16	907.5	17.6	37	45	82	505	36.	1.0	16.0	505	36.00
17	908.5	16.3	35	54	89	443	7.9	1.0	17.0	443	7.90
18	909.5	18.6	38	45	83	548	8.2	1.0	18.0	548	8.20
19	910.5	19.0	47	33	80	693	15.	1.0	19.0	693	15.00
20	911.5	17.8	42	39	81	500	47.	1.0	20.0	500	47.00
21	912.5	20.5	45	33	78	716	71.	1.0	21.0	716	71.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Donna Lee Oil Company	Lease	McIntyre	Well No.	21	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	892.0 - 904.0	10.0	5.9	58.98		
	904.0 - 913.0	8.0	25.6	204.80		
	892.0 - 913.0	18.0	14.7	263.78		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Water Saturation	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	892.0 - 904.0	13.0	25.2	61.2	288	3,740
	904.0 - 913.0	8.0	39.3	42.6	552	4,417
	892.0 - 913.0	21.0	30.6	54.1	388	8,157