



OILFIELD RESEARCH LABORATORIES

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September 26, 1980

L & L Oil Company
P.O. Box 13
Benedict, Kansas 66741

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the McClintock Lease, Well No. 8, Crawford County, Kansas, and submitted to our laboratory on August 7, 1980.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Sanford A. Michel

SAM/tem

5 c to Benedict, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company L & L Oil Company Lease McClintock Well No. 8

Location -

Section 33 Twp. 28S Rge. 22E County Crawford State Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	390.1
Bottom of Core	409.0
Top of Sand	390.1
Bottom of Sand	409.0
Total Feet of Permeable Sand	18.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	8.5	8.5
10 - 20	4.7	13.2
20 - 40	3.7	16.9
55 & Above	2.0	18.9

Average Permeability Millidarcys	18.4
Average Percent Porosity	16.8
Average Percent Oil Saturation	36.0
Average Percent Water Saturation	35.9
Average Oil Content, Bbls./A. Ft.	468.
Total Oil Content, Bbls./Acre	8,846.

LOGName L & L Oil Company Lease McClintock Well No. 8

<u>Depth Interval, Feet</u>	<u>Description</u>
390.1 - 391.1	Grayish brown shaly sandstone.
391.1 - 391.8	Brown shaly sandstone.
391.8 - 395.1	Brown slightly calcareous sandstone.
395.1 - 396.2	Brown shaly sandstone.
396.2 - 396.7	Brown slightly calcareous sandstone.
396.7 - 398.3	Grayish brown slightly calcareous shaly sandstone.
398.3 - 399.0	Brown slightly calcareous sandstone.
399.0 - 399.7	Brown slightly calcareous shaly sandstone.
399.7 - 400.8	Brown slightly calcareous sandstone.
400.8 - 402.0	Brown slightly calcareous shaly sandstone.
402.0 - 404.2	Brown slightly calcareous sandstone.
404.2 - 405.0	Hard brown calcareous sandstone.
405.0 - 407.3	Brown slightly calcareous sandstone.
407.3 - 409.0	Light brown slightly calcareous very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company L & L Oil Company Lease McClintock Well No. 8

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	390.5	14.1	30	52	82	328	4.5	1.0	1.0	328	4.50
2	391.5	17.3	33	52	85	443	5.1	0.7	1.7	310	3.57
3	392.5	18.1	38	37	75	534	14.	1.2	2.9	641	16.80
4	393.5	21.6	42	21	63	704	33.	1.0	3.9	704	33.00
5	394.5	18.7	37	27	64	537	34.	1.1	5.0	591	37.40
6	395.3	14.2	29	49	78	320	8.9	1.1	6.1	352	9.79
7	396.5	20.6	43	18	61	687	28.	0.5	6.6	344	14.00
8	397.5	16.4	33	47	80	420	5.1	1.6	8.2	672	8.16
9	398.5	21.0	33	21	54	538	89.	1.0	9.2	538	89.00
10	399.5	14.2	31	45	76	342	0.52	0.4	9.6	137	0.21
11	400.5	19.3	34	33	67	509	20.	1.1	10.7	560	22.00
12	401.5	17.0	32	38	70	422	3.4	1.2	11.9	506	4.08
13	402.5	16.0	35	47	82	434	58.	1.0	12.9	434	58.00
14	403.5	16.3	39	31	70	493	13.	1.2	14.1	592	15.60
15	404.5	10.0	55	10	65	427	0.63	0.8	14.9	342	0.50
16	405.5	17.6	35	35	70	478	14.	1.0	15.9	478	14.00
17	406.5	17.9	39	30	69	542	13.	1.3	17.2	705	16.90
18	407.5	15.2	38	44	82	448	0.52	0.7	17.9	314	0.36
19	408.5	11.3	34	39	73	298	0.23	1.0	18.9	298	0.23

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	McClintock	Well No.		8
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Porosity	Average Oil Content Bbl./A. Ft.
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre	
390.1 - 409.0	18.9	18.4	348.10	16.8	468
390.1 - 409.0	18.9	36.0	35.9	8,846	