



OILFIELD RESEARCH LABORATORIES

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

June 24, 1980

Loraine Cleaver
Rural Route 2
Colony, Kansas 66015

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the C. Turner Lease, Well No. 2, Allen County, Kansas, and submitted to our laboratory on June 18, 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 Colony, Kansas

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GENERAL INFORMATION & SUMMARY

Company Lorraine Cleaver Lease C. Turner Well No. 2
 Location 125' NSL & 455' FWL NE $\frac{1}{4}$
 Section 29 Twp. 23S Rge. 18E County Allen State Kansas

Elevation, Feet	
Name of Sand	Bartlesville
Top of Core	900.0
Bottom of Core	934.0
Top of Sand	900.0
Bottom of Sand	934.0
Total Feet of Permeable Sand	16.8

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	5.4	5.4
5 - 15	2.0	7.4
15 - 30	2.6	10.0
30 - 60	2.0	12.0
60 - 100	3.2	15.2
110 & Above	1.6	16.8

Average Permeability Millidarcys	35.0
Average Percent Porosity	17.4
Average Percent Oil Saturation	35.6
Average Percent Water Saturation	45.6
Average Oil Content, Bbls./A. Ft.	497.
Total Oil Content, Bbls./Acre	11,227.

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LOGName Lorraine Cleaver Lease C. Turner Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
900.0 - 905.0	Brown and gray laminated sandstone and shale.
905.0 - 906.5	Gray sandy shale with sandstone partings.
906.5 - 908.0	Brown and gray laminated sandstone and shale.
908.0 - 909.0	Gray sandy shale.
913.7 - 915.0	Brown sandstone.
915.0 - 915.5	Gray sandy shale.
915.5 - 919.5	Brown sandstone.
919.5 - 920.0	Brown very shaly sandstone.
920.0 - 920.7	Brown sandstone.
920.7 - 922.0	Gray sandy shale.
922.0 - 924.7	Brown and gray laminated sandstone and shale.
924.7 - 925.6	Gray sandy shale.
925.6 - 928.0	Light brown very shaly sandstone.
928.0 - 928.8	Gray sandy shale.
928.8 - 929.9	Brown sandstone.
929.9 - 930.4	Gray sandy shale.
930.4 - 930.9	Brown very shaly sandstone.
930.9 - 934.0	Brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Lorraine Cleaver Lease C. Turner Well No. 2

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			Totals	Ft.		
1	900.5	17.6	33	46	79	11.	1.5	1.5	677	16.50
2	901.8	13.5	30	68	98	0.56	1.0	2.5	314	0.56
3	902.7	14.7	26	58	84	Imp.	1.0	3.5	297	0.00
4	904.1	15.9	18	61	79	Imp.	1.0	4.5	222	0.00
5	904.8	15.4	44	41	85	1.0	0.5	5.0	263	0.50
6	906.9	15.8	32	55	87	1.8	1.0	6.0	392	1.80
7	907.9	15.0	27	65	92	4.8	0.5	6.5	157	2.40
8	914.1	21.5	48	29	77	73.	0.7	7.2	561	51.10
9	914.9	17.6	41	35	76	84.	0.6	7.8	336	50.40
10	917.0	20.3	45	24	69	113.	1.6	9.4	1134	180.80
11	917.9	18.4	48	33	81	74.	1.4	10.8	959	103.60
12	918.8	20.9	46	25	71	25.	1.0	11.8	746	25.00
13	919.6	22.8	47	25	72	13.	0.5	12.3	416	6.50
14	920.5	17.1	49	38	87	Imp.	0.7	13.0	455	0.00
15	922.5	17.6	48	37	85	28.	1.0	14.0	655	28.00
16	923.6	15.5	21	63	84	*	1.0	15.0	253	-
17	924.5	13.1	13	82	95	2.6	0.7	15.7	92	1.82
18	925.8	14.7	39	53	92	Imp.	0.7	16.4	312	0.00
19	926.8	14.9	27	55	82	0.89	0.7	17.1	218	0.62
20	927.9	15.1	32	55	87	0.57	1.0	18.1	375	0.57
21	929.0	19.7	44	33	77	23.	0.6	18.7	404	13.80
22	929.8	13.8	2	89	91	60.	0.5	19.2	11	30.00
23	930.7	18.9	41	42	83	Imp.	0.5	19.7	301	0.00
24	931.9	20.7	42	32	74	*	0.9	20.6	608	-
25	932.8	18.9	36	39	75	39.	1.0	21.6	528	39.00
26	933.8	20.5	34	36	70	35.	1.0	22.6	541	35.00

NOTE: * Permeability sample unobtainable.

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Lorraine Cleaver Lease C. Turner Well No. 2

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
900.0 - 908.0	4.5	4.8	21.76
913.7 - 923.0	6.8	65.5	445.40
923.0 - 934.0	5.5	22.0	120.81
900.0 - 934.0	16.8	35.0	587.97

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
900.0 - 908.0	6.5	15.6	29.4	56.0	357	2,322
913.7 - 923.0	7.5	19.5	46.6	30.3	702	5,262
923.0 - 934.0	8.6	17.1	30.7	51.2	424	3,643
900.0 - 934.0	22.6	17.4	35.6	45.6	497	11,227