April 29, 1947

Mr. M. C. Colt
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of partial analysis made on the No. 6 Baker barrel core taken from your Monroe Lease, Well No. 2A, Anderson County, Kansas, and submitted to our laboratory on April 24, 1947.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Carl L. Pate

Carl L. Pate

CLP:dt

M. C. COLT, PRODUCER

CORE ANALYSIS REPORT

MONROE LEASE WELL NO. 2A

ANDERSON COUNTY, KANSAS

OIL FIELD RESEARCH LABORATORIES

CHANUTE, KANSAS

APRIL 29, 1947

M. C. COLT, PRODUCER

CORE ANALYSIS REPORT

GENERAL INFORMATION & SUMMARY

Company: M. C. Colt, Producer

Lease & Well No: Monroe Well No. 2A

Location: E½ of the SE¼ of Section 9, T22S, R21E, Anderson County, Kansas.

Name of Sand	Bartlesville
Top of Core	721.00
Top of Sand	721.10
Bottom of Sand	733.92
Bottom of Core	738.50
Total Feet of Permeable Sand	12.72

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 50	1.93	1.93
50 - 60	2.39	4.32
60 - 75	2.80	7.12
75 - 100	2.40	9.52
100 - 125	1.80	11.32
125 & above	1.40	12.72

Average Permeability, Millidarcys	76.19
Average Percent Porosity	23.74
Average Percent Oil Saturation	43.71
Average Oil Content, Bbls./A. Ft.	813.
Total Oil Content, Bbls./Acre	10,258.
Average Percent Oil Recovery by Laboratory Flooding Tests	12.61
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	233.

Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre -	2,945.
Total Calculated Oil Recovery, Bbls./Acre - - - - - - - -	2,700.
Packer Setting, Feet -	722.

FORMATION CORED

The detailed log of the formation cored is as follows:

Depth Interval, Feet	Description
721.00 - 721.10	Finely laminated sandstone and shale.
721.10 - 725.00	Brown fine grained micaceous sandstone.
725.00 - 731.44	Dark fine to medium grained micaceous sandstone.
731.44 - 733.92	Dark fine grained micaceous shaley sandstone.
733.92 - 738.50	Dark gray shale.

Note: The saturation samples with letters were taken after the core arrived at the laboratory.

It is recommended that the hole be plugged back to 734 feet.

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CORE ANALYSIS REPORT

MONROE LEASE WELL NO. 2A

TABLE I

RESULTS OF PERMEABILITY TESTS

Sample No.	Depth, Feet	Permeability, Millidarcys	Feet of Core Ft.	Cum. Ft.	Capacity Ft. x Md.
1	721.15	68.	0.20	0.20	13.60
2	721.46	61.	0.40	0.60	24.40
3	721.92	99.	0.50	1.10	49.50
4	722.40	141.	0.50	1.60	70.50
5	723.05	73.	0.55	2.15	40.15
6	723.50	90.	0.45	2.60	40.50
7	723.92	182.	0.45	3.05	81.90
8	724.32	108.	0.35	3.40	37.80
9	724.70	112.	0.50	3.90	56.00
10	725.32	93.	0.50	4.40	46.50
11	725.78	51.	0.50	4.90	25.50
12	726.30	85.	0.50	5.40	42.50
13	726.75	64.	0.50	5.90	32.00
14	727.15	53.	0.40	6.30	21.20
15	727.60	103.	0.35	6.65	36.05
16	728.10	90.	0.45	7.10	40.50
17	728.50	103.	0.60	7.70	61.80
18	729.31	34.	0.70	8.40	23.80
19	729.86	54.	0.50	8.90	27.00
19A	730.28	61.	0.35	9.25	21.35
20	730.62	70.	0.35	9.60	24.50
21	731.08	134.	0.45	10.05	60.30
22	731.35	56.	0.19	10.24	10.64
23	731.90	7.9	0.71	10.95	5.61
24	732.35	57.	0.40	11.35	22.80
25	732.80	61.	0.45	11.80	27.45
26	733.18	56.	0.40	12.20	22.40
27	733.65	5.5	0.52	12.72	2.86

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MONROE LEASE WELL NO. 2A

TABLE II

SUMMARY OF PERMEABILITY TESTS

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity, Ft. x Md.
721.10 - 726.30	5.40	97.93	528.85
726.30 - 733.92	7.32	60.14	440.26
721.10 - 733.92	12.72	76.19	969.11

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CORE ANALYSIS REPORT

MONROE LEASE WELL NO. 2A

TABLE III

RESULTS OF SATURATION TESTS

Sat. No.	Depth, Feet	Effective Porosity Percent	Percent Saturation Oil	Oil Content, Bbls./A. Ft.	Feet of Core Ft.	Cum. Ft.	Total Oil Content Bbls./Acre
A	721.68	23.1	30.3	543	1.10	1.10	596
1	722.90	26.5	29.3	603	1.05	2.15	634
1B	723.61	22.4	31.0	539	0.95	3.10	511
2	724.95	23.9	20.3	376	1.10	4.20	414
2C	725.65	23.8	37.0	683	1.00	5.20	683
3	726.90	24.8	52.2	1,004	1.00	6.20	1,004
3D	728.22	24.6	44.5	849	1.10	7.30	934
4	728.95	23.2	57.7	1,038	0.70	8.00	725
4E	729.66	23.6	59.4	1,088	1.00	9.00	1,088
5	730.90	24.3	62.3	1,275	1.14	10.14	1,451
5F	732.05	23.1	47.7	857	1.26	11.40	1,080
6	732.95	21.8	58.4	987	0.80	12.20	790
6G	733.85	22.2	48.0	827	0.42	12.62	348
					Total - - - - -		10,258

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CORE ANALYSIS REPORT

MONROE LEASE WELL NO. 2A

TABLE IV

SUMMARY OF SATURATION TESTS

Depth Interval, Feet	Feet of Core Analyzed	Average Porosity Percent	Average Percent Oil Saturation	Average Oil Content, Saturation	Total Oil Content, Bbls./ Acre
721.10 - 726.30	5.20	23.94	29.38	546	2,838
726.30 - 733.92	7.42	23.60	53.74	1,000	7,420
721.10 - 733.92	12.62	23.74	43.71	813	10,258

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CORE ANALYSIS REPORT

MONROE LEASE WELL NO. 2A

TABLE IV

RESULTS OF LABORATORY FLOODING TESTS

Sample No.	Depth, Feet	Effective Porosity Percent	Original Oil Saturation		Oil Recovery		Residual Saturation			Vol. of Water Recovered, cc*	Permeability, Millidarcys		Initial Fluid Production Pressure Lbs./Sq. In.
			Percent	Bbls./A. Ft.	Percent	Bbls./A.Ft.	%Oil	%Water	Bbls./A.Ft.		Dry	Wet	
A	721.68	23.1	30.3	543	7.3	131	23.0	56.5	412	260	110.	8.77	8
1	722.90	26.5	29.3	603	6.3	130	23.0	57.3	473	224	121.	9.45	8
1B	723.61	22.4	31.0	539	5.1	89	25.9	52.9	450	308	61.	7.47	8
2	724.95	23.9	20.3	376	4.2	78	16.1	51.1	298	414	65.	8.07	6
2C	725.65	23.8	37.0	683	10.0	185	27.0	62.2	498	736	53.	2.21	4
3	726.90	24.8	52.2	1,004	12.7	244	39.5	53.1	760	381	53.	1.27	10
3D	728.22	24.6	44.5	849	13.4	256	31.1	53.0	593	456	48.	1.42	14
4	728.95	23.2	57.7	1,038	18.9	340	38.8	57.3	698	567	119.	3.94	14
4E	729.66	23.6	59.4	1,088	25.0	458	34.4	59.0	630	105	35.	0.55	12
5	730.90	24.3	62.3	1,275	31.4	592	30.9	54.1	683	293	63.	1.19	8
5F	732.05	23.1	47.7	857	6.4	115	41.3	46.2	742	588	52.	1.96	6
6	732.95	21.8	58.4	987	13.9	235	44.5	48.6	752	296	62.	2.20	14
6G	733.85	22.2	48.0	827	10.9	188	37.1	47.8	639	182	18.	1.01	12

Notes: cc - cubic centimeter
*Volume of water recovered at the time of maximum oil recovery.

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CORE ANALYSIS REPORT

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TABLE VI

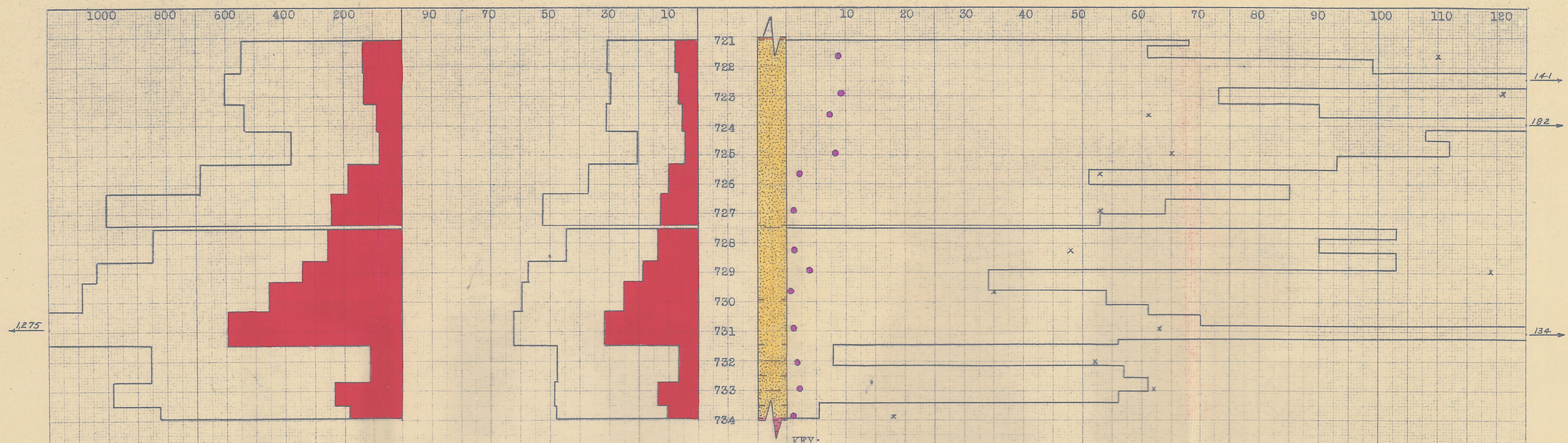
SUMMARY OF LABORATORY FLOODING TESTS

Depth Interval, Feet	721.10-725.30	725.30-733.92	721.10-733.92
Feet of Core Analyzed	4.20	8.42	12.62
Average Percent Porosity	24.00	23.62	23.75
Average Percent Original Oil Saturation	27.58	51.78	43.72
Average Percent Oil Recovery	5.71	16.06	12.61
Average Percent Residual Oil Saturation	21.87	35.72	31.11
Average Percent Residual Water Saturation	54.50	53.61	53.83
Average Percent Total Residual Fluid Saturation	76.37	89.33	84.94
Average Original Oil Content, Bbls./A. Ft.	486.	962.	803.
Average Oil Recovery, Bbls./A. Ft.	107.	296.	233.
Average Residual Oil Content, Bbls./A. Ft.	379.	666.	570.
Total Original Oil Content, Bbls./Acre	2,041.	8,103.	10,144.
Total Oil Recovery, Bbls./Acre	451.	2,494.	2,945.
Total Residual Oil Content, Bbls./Acre	1,590.	5,609.	7,199.
Average Dry Permeability, Millidarcys	89.86	56.00	67.27
Average Wet Permeability, Millidarcys	8.46	1.71	3.95
Avg. Initial Fluid Production Pressure, p.s.i.	7.5	7.1	7.2

OIL CONTENT,
BBLS./A. FT.

OIL SAT.,
PERCENT

● WET PERMEABILITY, IN MILLIDARCYS
DRY PERMEABILITY, IN MILLIDARCYS



M. C. COLT, PRODUCER

MONROE LEASE WELL NO. 2A
ANDERSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT OIL SATURATION	AVERAGE OIL CONTENT BBLS./A.FT.	TOTAL OIL CONTENT BBLS./ ACRE	AVG. PERMEABILITY, MILLIDARCYS
721.10 - 726.30	5.20	29.38	546	2,838	97.93
726.30 - 733.92	7.42	53.74	1,000	7,420	60.14
721.10 - 733.92	12.62	43.71	813	10,258	76.19

OIL FIELD RESEARCH LABORATORIES
APRIL 29, 1947
CHANUTE, KANSAS

KEUFFEL & ESSER Co NEW YORK