OILFIELD RESEARCH LABORATORIES

813 East Sixth
Okmulgee, Oklahoma
Phone: 1486

- Registered Engineers -
Chanute, Kansas

536 N. Highland
Chanute, Kansas
Phone: 728

November 5, 1957

Mack C. Colt
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the 2 11/16" Rotary core taken from the Monroe Lease, Well No. 17-A, Anderson County, Kansas, and submitted to our laboratory by Mr. Roy Brower on October 31, 1957.

If this well is completed, it is recommended that the pipe be perforated at the following depths, 720.5 to 722.0, 724.0 to 725.0, 727.0 to 729.0, and 732.5 to 733.0 feet.

This core was sampled and the samples sealed in cans by a representative of Mack C. Colt.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

Carl L. Pate

CLP:eda

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Mack C. Colt Lease Monroe Well No. 17-A

Location E½, SE¼

Section 9 Twp. 22S Rge. 21E County Anderson State Kansas

Name of Sand	Bartlesville
Top of Core	702.0
Bottom of Core	746.0
Top of Good Sand	714.2
Bottom of Sand	736.4
Total Feet of Permeable Sand (Analyzed)	15.0
Total Feet of Floodable Sand	13.7

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.

Average Effective Permeability Millidarcys	6.18
Average Percent Porosity	20.0
Average Percent Oil Saturation	46.6
Average Percent Water Saturation	39.9
Average Oil Content, Bbls./A. Ft.	5,423.
Total Oil Content, Bbls./Acre	
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 Mack C. Colt Lease Monroe Well No. 17-A

Depth Interval, Feet	Description
702.0 - 704.4	Shaley sandstone.
704.4 - 714.2	Shale.
714.2 - 716.9	Light to brown fine grained laminated micaceous sandstone.
716.9 - 717.4	Dark brown fine grained micaceous carbonaceous sandstone.
717.4 - 718.0	Sandy shale.
718.0 - 718.6	Brown fine grained laminated micaceous shaley sandstone.
718.6 - 720.0	Brown fine grained micaceous sandstone.
720.0 - 721.4	Dark brown fine grained micaceous slightly carbonaceous sandstone.
721.4 - 721.6	Brown fine grained laminated micaceous shaley sandstone.
721.6 - 722.8	Brown fine grained micaceous sandstone.
722.8 - 723.6	Sandy shale.
723.6 - 725.5	Dark brown fine grained micaceous slightly carbonaceous sandstone.
725.5 - 726.5	Grayish light brown fine grained laminated micaceous sandstone.
726.5 - 730.0	Dark brown fine grained micaceous carbonaceous sandstone.
730.0 - 730.3	Laminated sandy shale.
730.3 - 730.5	Shale.
730.5 - 731.0	Dark carbonaceous sandstone.
731.0 - 731.3	Brown fine grained laminated micaceous shaley sandstone.
731.3 - 731.4	Dark brown fine grained micaceous sandstone.
731.4 - 731.8	Laminated sandy shale.
731.8 - 733.5	Dark brown fine grained micaceous carbonaceous sandstone.

733.5 - 734.0 - Dark carbonaceous sandstone.

734.0 - 735.0 - Brown fine grained laminated micaceous sandstone.

735.0 - 736.4 - Dark carbonaceous sandstone.

736.4 - 746.0 - Shale.

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company Mack C. Colt Lease Monroe Well No. 17-A

Effective

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	715.1	1.57	1.1	1.1		
2	716.1	Imp.	1.3	2.4		
3	717.1	5.24	0.5	2.9		
4	718.1	Imp.	0.6	3.5		
5	719.1	Imp.	1.4	4.9		
6	720.1	7.00	0.6	5.5		
7	721.1	10.97	0.8	6.3		
8	722.1	9.30	1.2	7.5		
10	724.1	9.10	1.0	8.5		
11	725.1	8.70	0.9	9.4		
12	726.1	0.152	1.0	10.4		
13	727.1	7.31	1.1	11.5		
14	728.1	7.88	1.0	12.5		
15	729.1	8.21	1.4	13.9		
16	730.1	0.354	0.3	14.2		
17	731.1	Imp.	0.3	14.5		
18	732.1	11.88	0.8	15.3		
19	733.1	9.06	0.9	16.2		
20	734.1	0.371	1.0	17.2		
21	735.1	0.694	0.6	17.8		
22	736.1	1.54	0.8	18.6		

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company Mack C. Colt Lease Monroe Well No. 17-A

Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
714.5 - 736.4	15.0	-	6.18	-	-

RESULTS OF SATURATION TESTS

TABLE II

Company Mack C. Colt Lease Monroe Well No. 17-A

Sat. No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls./A. Ft.	Feet of Core		Total Oil Content Bbls./Acre
			Oil	Water	Total		Ft.	Cum. Ft.	
1	715.1	19.1	46	46	92	682	1.1	1.1	750
2	716.1	17.9	47	44	91	653	1.3	2.4	848
3	717.1	23.5	63	25	88	1,148	0.5	2.9	574
4	718.1	16.6	53	37	90	683	0.6	3.5	410
5	719.1	21.4	45	32	77	747	1.4	4.9	1,046
6	720.1	18.9	37	50	87	542	0.6	5.5	325
7	721.1	19.7	37	42	79	566	0.8	6.3	453
8	722.1	22.3	49	40	89	848	1.2	7.5	1,017
							Total - -	- - - - -	5,423

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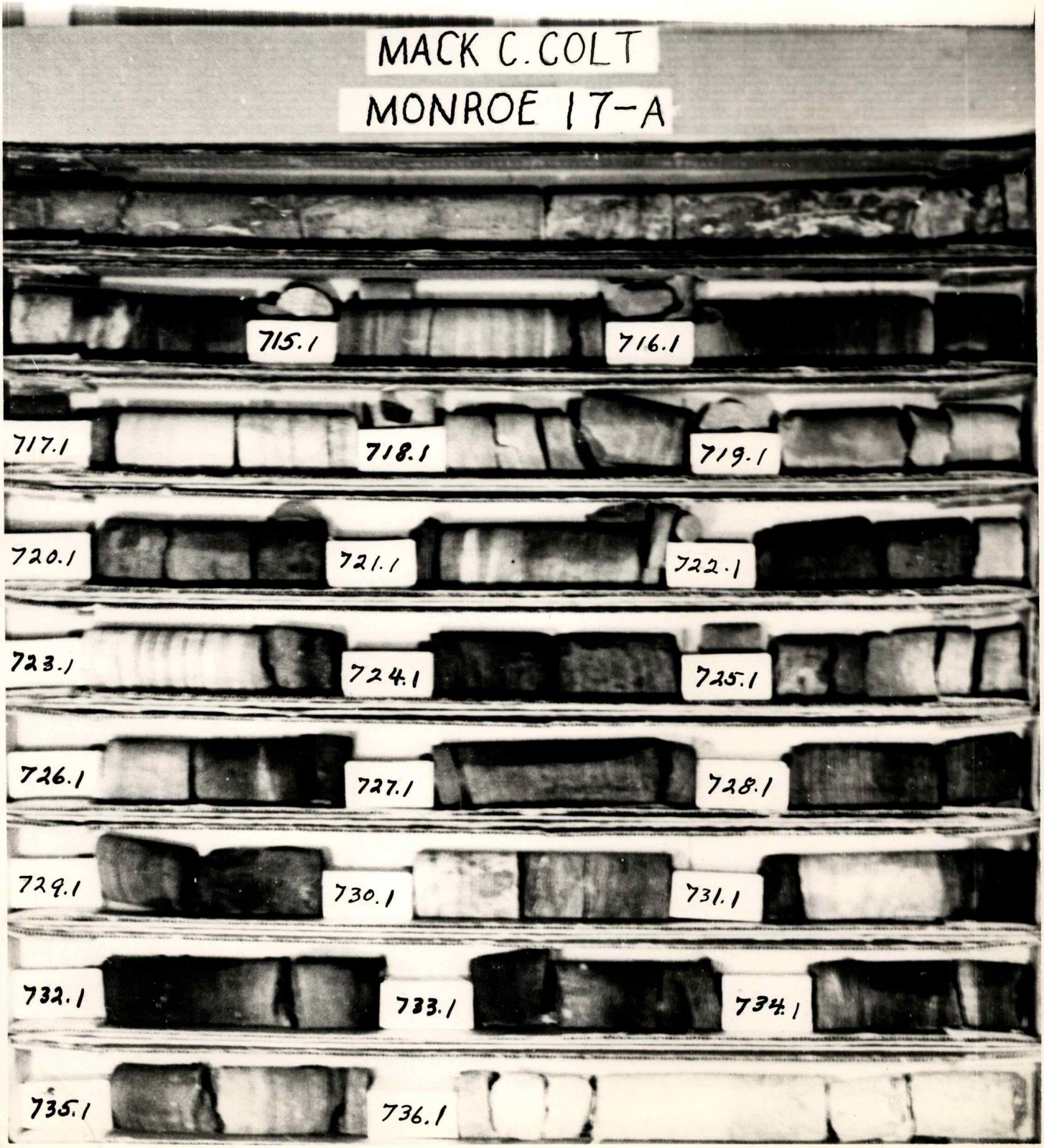
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Mack C. Colt Lease Monroe Well No. 17-A

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.

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
714.5 - 722.8	7.5	20.0	46.6	39.9	724	5,423


MACK C. COLT
MONROE 17-A
715.1
716.1
717.1
718.1
719.1
720.1
721.1
722.1
723.1
724.1
725.1
726.1
727.1
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729.1
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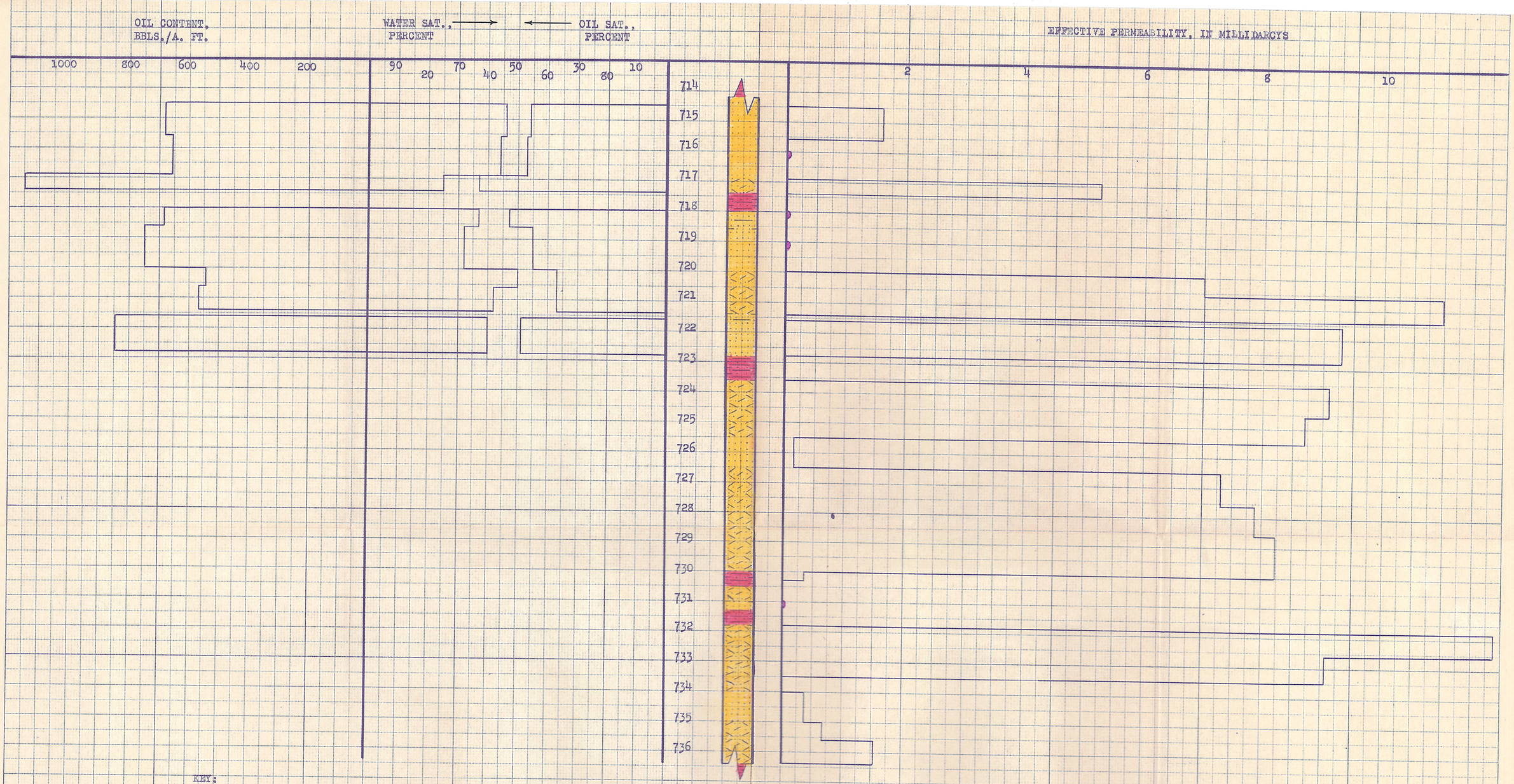
732.1
733.1
734.1
735.1
736.1



MACK C. COLT

MONROE LEASE WELL NO. 17-A

ALLEN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A.FT.	TOTAL OIL CONTENT BBLS./ACRE	AVG. EFFECTIVE PERMEABILITY, MILLIDARCYS
714.5 - 722.8	7.5	20.0	46.6	39.9	724	5,423	6.18

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
NOVEMBER, 1957.