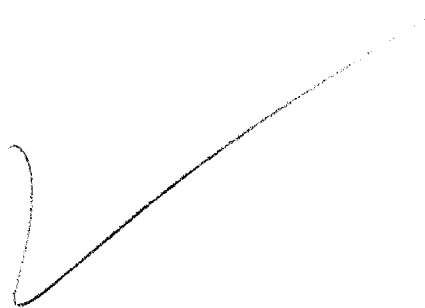


28-24-21E

February 8, 1951



M. C. Colt
Iola, Kansas

Dear Sir:

Attached hereto are the results of effective permeability tests made on the Cable Tool core taken from the Davieon Lease, Well No. 2-A, Allen County, Kansas, and submitted to our laboratory on February 1, 1951.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Clayton A. Nattier

CAN:eam

DAVIDSON 2-A

TWP 24 S RGE 21 E SEC 28

OIL FIELD RESEARCH LABORATORIES

LOG

DAVIDSON

Company M. C. Colt Lease Bavison Well No. 2A

Depth Interval, Description
Feet

696.00 - 697.40 - Gray shale.

697.40 - 702.60 - Soft gray shale.

702.60 - 705.60 - Gray sandy shale.

705.60 - 707.25 - Gray shale.

707.25 - 707.80 - Gray sandy shale.

707.80 - 710.30 - Gray shale.

710.30 - 711.40 - Light brown fine grained micaceous slightly shaley sandstone.

711.40 - 713.30 - Light brown fine grained micaceous sandstone.

713.30 - 715.70 - Brown fine grained micaceous sandstone.

715.70 - 715.93 - Brown fine grained micaceous shaley sandstone.

715.93 - 717.00 - Brown fine grained micaceous slightly shaley sandstone.

717.00 - 720.75 - Brown medium grained micaceous sandstone.

720.75 - 720.95 - Hard brown fine grained micaceous sandstone.

720.95 - 728.40 - Dark brown fine grained micaceous sandstone.

728.40 - 728.70 - Brown fine grained laminated micaceous shaley sandstone.

728.70 - 731.45 - Dark brown fine grained micaceous sandstone.

731.45 - 731.88 - Brown fine grained micaceous shaley sandstone.

731.88 - 732.30 - Brown fine grained micaceous sandstone.

732.30 - 732.50 - Brown fine grained micaceous shaley sandstone.

732.50 - 733.75 - Dark brown fine grained micaceous sandstone.

733.75 - 734.25 - Brown fine grained micaceous slightly shaley sandstone.

734.25 - 734.75 - Coal.

734.75 - 835.00 - Soft gray shale.

Oil Field Research Laboratories

SHOT RECOMMENDATION

Company M. C. Colt Lease Davison Well No. 2A

<u>Depth Interval, Feet</u>	<u>Feet of Sand</u>	<u>Size of Shell Inches</u>	<u>Qts./Ft.</u>	<u>Total Quarts</u>
719.5 - 732.0	12.5	3 $\frac{1}{2}$	2.0	25.0

Recommended Packer Setting 714.5 feet.
Note: Plug hole back to 733.5 feet.

OIL FIELD RESEARCH LABORATORIES

TABLE I

RESULTS OF EFFECTIVE PERMEABILITY TESTS

Company	M. C. Colt	Lease	Davison	Well No.	2A
Sample No.	Depth, Feet	Effective Permeability, Millidarcys	Feet of Sand Ft.	Cum. Ft.	
1	710.70	1.15	1.10	1.10	
2	711.70	2.12	0.80	1.90	
3	712.75	5.96	1.10	3.00	
4	713.90	2.78	1.20	4.20	
5	715.05	0.331	1.43	5.63	
6	715.97	1.84	0.47	6.10	
7	716.95	0.840	1.10	7.20	
8	718.03	32.60	1.00	8.20	
9	718.90	9.43	0.90	9.10	
10	719.83	1.04	0.80	9.90	
11A	720.63	11.03	0.55	10.45	
11	720.84	Imp.	0.20	10.65	
12	721.64	0.630	1.35	12.00	
13	723.07	8.40	1.50	13.50	
14	724.50	15.10	1.40	14.90	
15	725.90	4.95	1.30	16.20	
16	727.05	1.91	1.90	18.10	
17	728.47	0.254	0.30	18.40	
18	729.14	3.34	1.20	19.60	
19	730.63	0.620	1.55	21.15	
20	731.55	0.383	0.43	21.58	
21A	732.20	1.37	0.42	22.00	
21	732.40	0.122	0.20	22.20	
22	733.24	0.843	1.25	23.45	
23	734.17	0.185	0.50	23.95	

Note: "A" samples were taken from the core after it was received in the laboratory.

OIL FIELD RESEARCH LABORATORIES

TABLE II

SUMMARY OF EFFECTIVE PERMEABILITY TESTS

Company M. C. Colt Lease Davison Well No 2A

<u>Depth Interval, Feet</u>	<u>Feet of Core Analyzed</u>	<u>Average Effective Permeability Millidarcys</u>
710.30-726.50	16.20	6.43
726.50-734.25	7.75	1.47
714.50-733.50	19.00	5.35