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 Davison 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

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

Depth Interval, Feet	Description
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

Depth Interval, Feet	Feet of Sand	Size of Shell Inches	Qts./Ft.	Total Quarts
719.5 - 732.0	12.5	3½	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.	Feet of Sand 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

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