

OIL FIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS

June 6, 1951

Mr. M. C. Golt  
Iola, Kansas

Dear Sir:

Attached hereto are the results of effective permeability tests made on the Cable Tool core taken from the Davidson Lease, Well No. 5-AC, Allen County, Kansas, and submitted to our laboratory on May 31, 1951.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Clayton A. Mattier

CAN:em

O. G.

28-24-21E

Davidson 5-AC

W.P. 243 RUG 21E SEC 28

LOG

COMPANY M. G. Golt LEASE Davidson WELL NO. 5-A0

Depth Interval,      Description  
Feet

719.00 - 717.55 - Gray sandy shale.  
717.55 - 719.80 - Light brown fine grained micaceous sandstone.  
719.80 - 732.20 - Brown fine grained micaceous sandstone.  
732.20 - 733.10 - Hard brown fine grained micaceous sandstone.  
733.10 - 738.30 - Brown fine grained micaceous sandstone.  
738.30 - 738.45 - Brown fine grained laminated shaley sandstone.  
738.45 - 738.60 - Brown fine grained micaceous sandstone.  
738.60 - 738.70 - Brown fine grained micaceous shaley sandstone.  
738.70 - 739.40 - Brown fine grained micaceous sandstone.  
739.40 - 739.55 - Gray sandy shale.  
739.55 - 740.80 - Brown fine grained micaceous sandstone.  
740.80 - 741.45 - Brown fine grained micaceous carbonaceous sandstone.  
741.45 - 743.00 - Coal.

Oil Field Research Laboratories

SHOT RECOMMENDATION

Company M. C. Colt Lease Davidson Well No. 5-A0

Depth Interval, Feet	Feet of Sand	Size of Shell Inches	Qts./Ft.	Total Quarts
725.00 - 739.50	14.5	3 $\frac{1}{2}$	2.0	29.00

Recommended Packer Setting 720.00 feet  
Note: Plug hole back to 741.00 feet

RESULTS OF PERMEABILITY TESTS

TABLE IA

COMPANY	M. C. Golt	LEASE	Davidson	WELL NO.	5-AO
Sample No.	Depth, Feet	Effective Permeability Millidarcys		Feet of Sand Ft.	Cum. Ft.
1	717.95	22.90		0.85	0.85
2	718.89	71.10		1.40	2.25
3	719.95	12.35		0.65	2.90
4	720.95	9.57		1.00	3.90
5	721.91	18.25		0.95	4.85
6	722.95	6.32		1.00	5.85
7	723.88	6.19		1.00	6.85
8	724.80	12.50		1.00	7.85
9	726.05	27.30		1.10	8.95
10	726.90	65.20		0.80	9.75
11	727.75	18.65		1.00	10.75
12	728.80	11.55		1.00	11.75
13	729.80	3.52		1.00	12.75
14	730.85	7.75		1.00	13.75
15	731.80	23.40		0.90	14.65
16	732.75	Imp.		0.90	15.55
17	733.50	7.72		1.00	16.55
18	734.70	10.60		0.90	17.50
19	735.40	28.30		0.95	18.45
20	736.45	76.50		1.10	19.55
21	737.56	53.20		1.30	20.85
22	738.50	1.36		0.15	21.00
23	739.76	8.70		0.70	21.70
24	740.75	7.95		0.55	22.25

SUMMARY OF PERMEABILITY TESTS

TABLE IIA

<u>COMPANY</u>	<u>M. C. Colt</u>	<u>LEASE</u>	<u>Davidson</u>	<u>WELL NO.</u>	<u>5-AO</u>
<u>Depth Interval,</u>		<u>Feet of Core</u>		<u>Average Effective</u>	
<u>Feet</u>		<u>Analyzed</u>		<u>Permeability</u>	
				<u>Millidarcys</u>	
717.55 - 729.30		11.75		24.79	
729.30 - 740.80		9.60		25.08	
720.00 - 741.00		18.90		21.73	