

OILFIELD RESEARCH LABORATORIES

November 5, 1952

Mr. M. C. Colt
Iola, Kansas

Dear Sir:

Attached hereto are the results of effective permeability tests made on the 4 7/8" Cable Tool Core taken from the Zimmerman Lease, Well No. 6AO, Allen County, Kansas, and submitted to our laboratory on October 28, 1952.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:eda

c.c.

TWP 24-21E RGE 21E SEC 21

27-24-21E

6AO

Zimmerman

LOGCompany M. C. Colt, K.B. Project Lease Zimmerman Well No. 6A0

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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693.00 - 696.20 - Gray sandy shale.

696.20 - 699.55 - Brown fine grained micaceous sandstone.

699.55 - 710.65 - Dark brown fine grained micaceous sandstone.

710.65 - 713.60 - Brown fine grained micaceous slightly shaley carbon-
aceous sandstone.

713.60 - 713.85 - Gray sandy shale.

713.85 - 714.15 - Coal.

714.15 - 715.40 - Cuttings (Coal and shale).

715.40 - 717.00 - Gray shale.

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SHOT RECOMMENDATION

Company M. C. Colt, K.B. Project Lease Zimmerman Well No. 6A0

Depth Interval, Feet	Feet of Sand	Size of Shell Inches	Qts./Ft.	Total Quarts
704.0 - 710.0	6.0	4.0	2.5	15.0

Recommended Packer Setting 700.0 feet.

Note: Plug hole back to 711.0 feet.

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RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company M. C. Colt, K.B. Project Lease Zimmerman Well No. 6A0

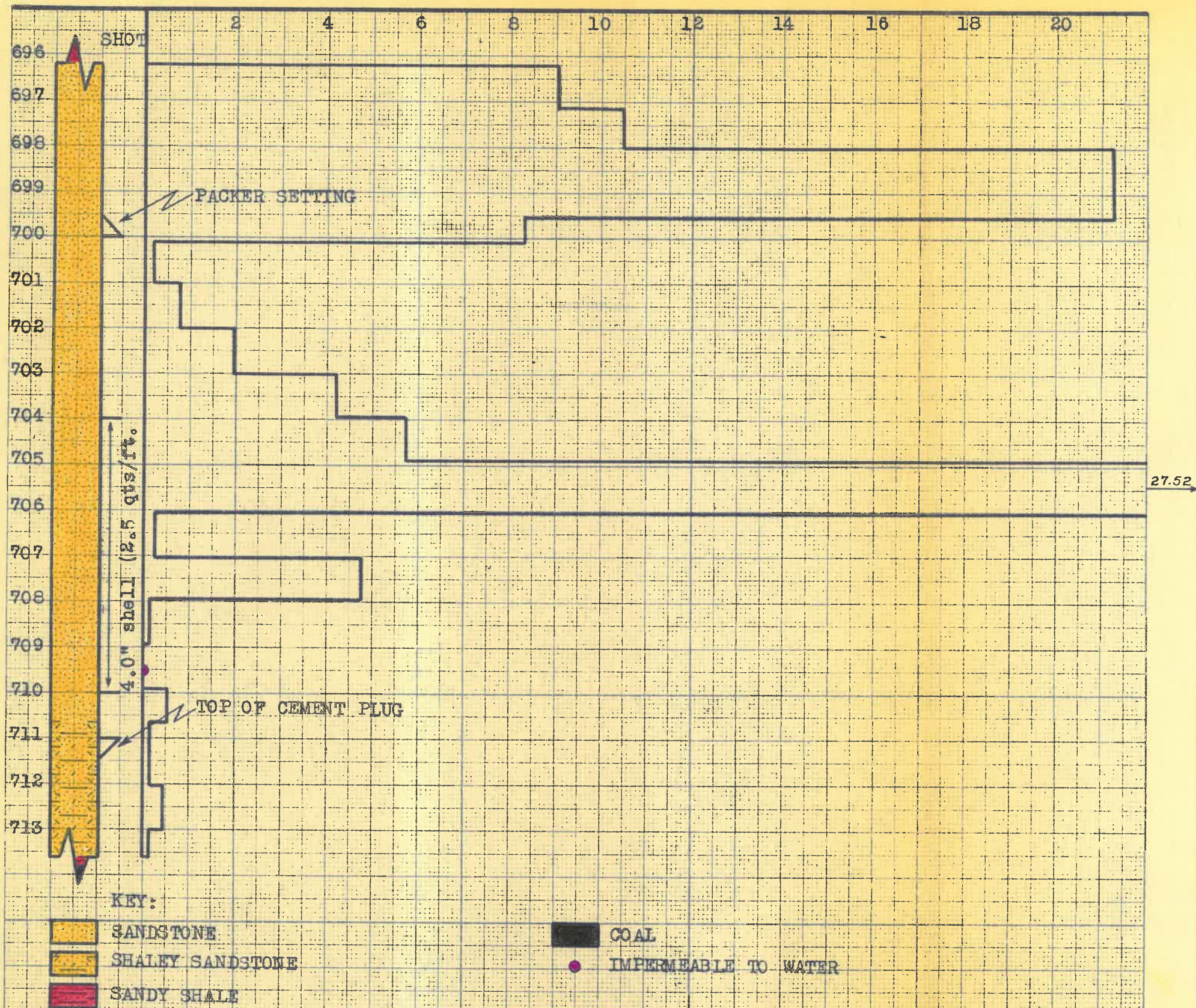
Sample No.	Depth, Feet	Effective Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	696.65	9.06	0.95	0.95		
2	697.59	10.49	0.85	1.80		
3	698.45	21.28	1.55	3.35		
4	699.65	8.31	0.55	3.90		
5	700.50	0.194	0.90	4.80		
6	701.50	0.774	1.00	5.80		
7	702.45	1.94	1.00	6.80		
8	703.50	4.20	0.95	7.75		
9	704.40	5.71	0.95	8.70		
10	705.44	27.52	1.15	9.85		
11	706.60	0.227	1.00	10.85		
12	707.50	4.78	0.90	11.75		
13	708.40	0.119	1.00	12.75		
14	709.50	Imp.	0.95	13.70		
15	710.35	0.502	0.75	14.45		
16	711.60	0.127	1.40	15.85		
17	712.50	0.454	0.95	16.80		
18	713.50	0.119	0.60	17.40		

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company	M. C. Colt, K.B. Project	Lease	Zimmerman	Well No.	6AO
	Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md. Average Percent Porosity
	696.20 - 700.10	3.90		55.08	
	700.10 - 713.60	12.55		49.65	
	700.00 - 711.00	10.05		49.84	

EFFECTIVE PERMEABILITY, IN MILLIDARCYS



M. C. COLT, K. B. PROJECT

ZIMMERMAN LEASE

WELL NO. 6-40

ALLEN COUNTY, KANSAS

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
NOVEMBER 5, 1952.