

OILFIELD RESEARCH LABORATORIES

November 18, 1952

Mr. M. C. Colt
Iola, Kansas

Dear Sir:

Attached hereto are the results of effective permeability tests made on the 2½" Rotary core taken from your Grubaugh Lease, Well No. 9-A, Allen County, Kansas and submitted to our laboratory on November 7, 1952.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Fred O. Stenger

FOS:cr

c.c.

27-24-21E

Grubaugh 9-A

TWP 24S RGE 21E SEC 27

LOGCompany M. C. Colt, K.B. Project Lease Grubaugh Well No. 9-A

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
693.00 - 697.50	- Gray shale.
697.50 - 700.20	- Gray sandy shale.
700.20 - 710.00	- Laminated sandstone and shale.
710.00 - 712.45	- Gray sandy shale.
712.45 - 713.80	- Light brown fine grained micaceous sandstone.
713.80 - 716.00	- Brown fine grained micaceous sandstone.
716.00 - 716.35	- Brown fine grained slightly laminated micaceous shaley sandstone.
716.35 - 717.35	- Brown fine grained micaceous sandstone.
717.35 - 722.40	- Brown medium grained micaceous sandstone.
722.40 - 725.50	- Brown fine grained micaceous sandstone.
725.50 - 729.40	- Dark fine grained micaceous sandstone.
729.40 - 730.40	- Brown fine grained micaceous sandstone.
730.40 - 732.10	- Dark fine grained micaceous sandstone.
732.10 - 736.50	- Brown fine grained micaceous sandstone.
736.50 - 737.24	- Dark brown fine grained micaceous sandstone.
737.24 - 737.50	- Laminated sandstone & shale.
737.50 - 737.70	- Light brown fine grained laminated micaceous shaley sandstone.
737.70 - 739.55	- Gray shale.
739.55 - 740.30	- Gray sandy shale.
740.30 - 741.00	- Gray shale.

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SHOT RECOMMENDATION

Company M. C. Colt, K.B. Project Lease Grubaugb Well No. 9-A

<u>Depth Interval, Feet</u>	<u>Feet of Sand</u>	<u>Size of Shell Inches</u>	<u>Qts./Ft.</u>	<u>Total Quarts</u>
719.0 - 735.5	16.5	3½	2.0	33.0

Recommended Packer Setting 715.5 feet.

Note: Plug hole back to 737.0 feet.

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RESULTS OF PERMEABILITY AND POROSITY TESTS
TABLE I A

Company M. C. Colt, K.B. Project Lease Grubaugh Well No. 9-A

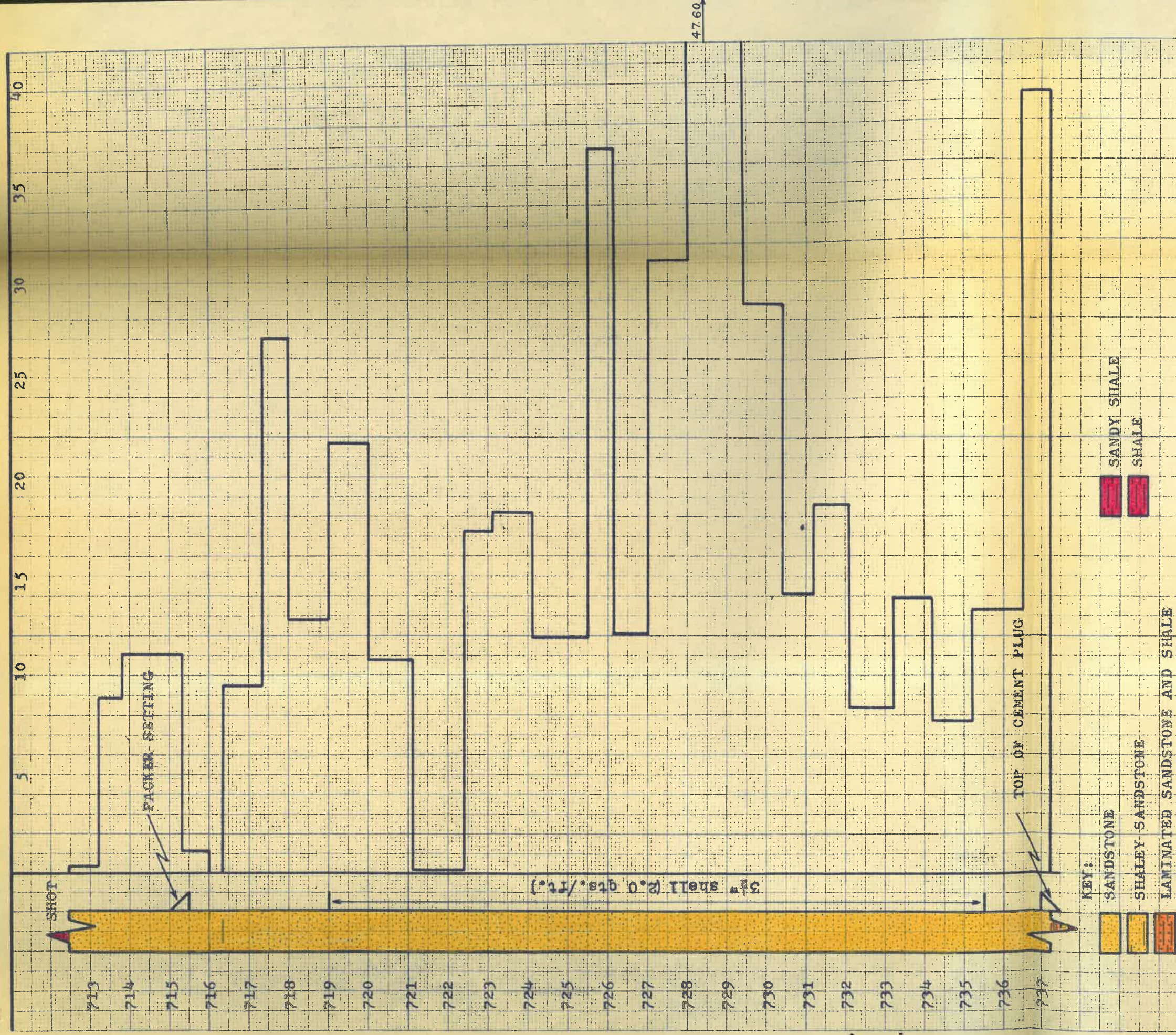
Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	712.70	0.383	0.75	0.75		
2	713.68	8.85	0.60	1.35		
3	714.70	11.02	1.50	2.85		
4	715.83	1.18	0.70	3.55		
5	716.90	9.50	1.00	4.55		
6	717.60	27.00	0.65	5.20		
7	718.50	12.80	1.00	6.20		
8	719.55	21.70	1.00	7.20		
9	720.55	10.80	1.10	8.30		
10	721.65	0.169	1.30	9.60		
10A	722.54	17.21	0.70	10.30		
11	723.62	18.20	1.00	11.30		
12	724.65	11.90	1.40	12.70		
13	725.60	36.80	0.65	13.35		
14	726.59	12.00	0.85	14.20		
15	727.50	31.20	1.00	15.20		
16	728.45	47.60	1.40	16.60		
17	729.75	28.80	1.00	17.60		
18	730.65	14.10	0.80	18.40		
19	731.70	18.60	0.90	19.30		
20	732.70	8.40	1.10	20.40		
21	733.72	13.91	1.00	21.40		
22	734.75	7.72	1.00	22.40		
23	735.75	13.33	1.30	23.70		
24	736.75	39.41	0.74	24.44		

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company	M. C. Colt, K-B Project	Lease	Grubaugh	Well No.	9-A
	Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md. Average Percent Porosity
	712.45-725.50	12.70		11.30	
	725.50-737.24	11.74		22.68	
	715.50-737.00	21.15		17.87	

EFFECTIVE PERMEABILITY, IN MILLIDARCYS



M. C. COLT, K. B. PROJECT

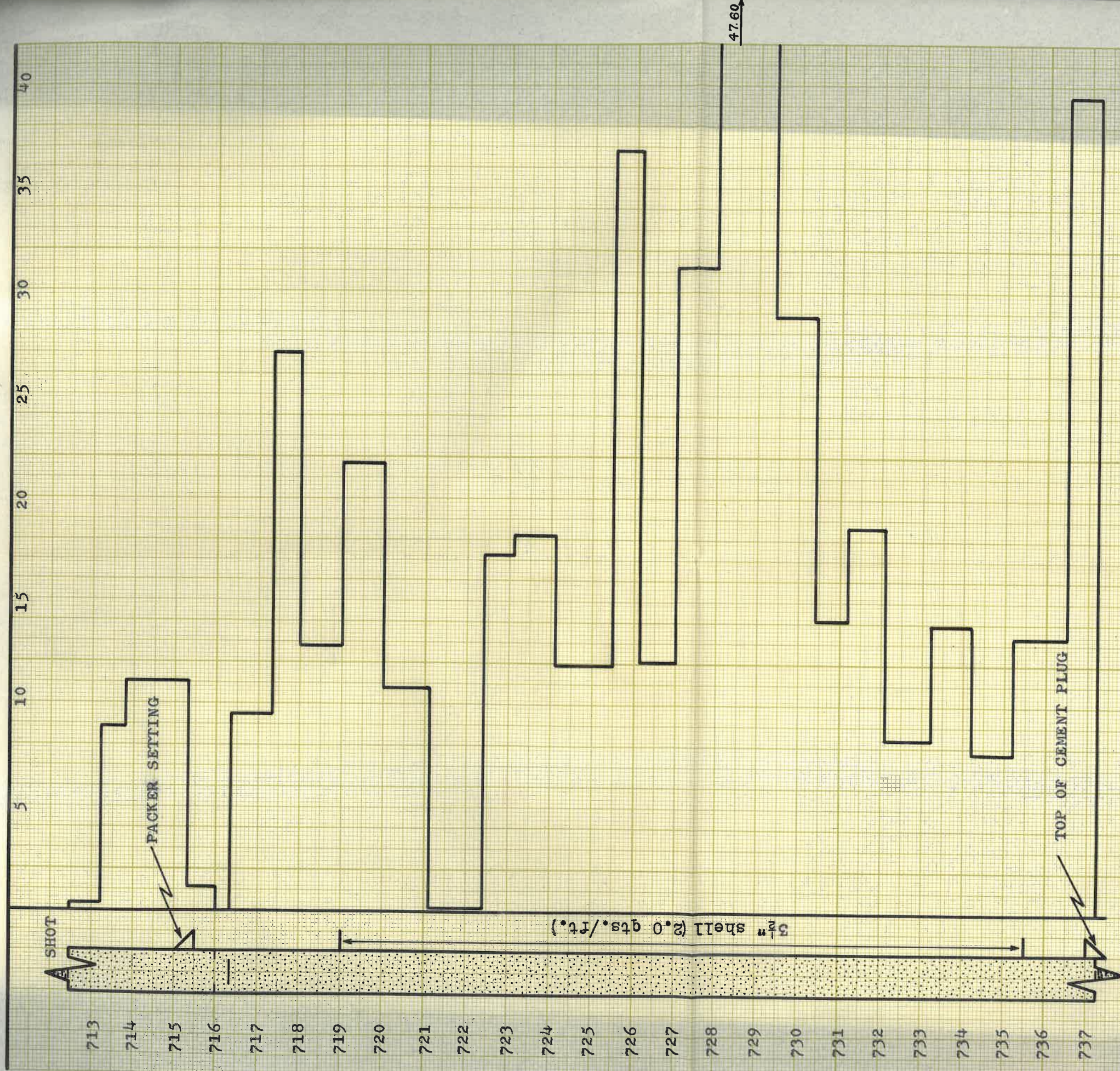
GRUBAUGH LEASE

WELL NO. 9-A

ALLEN COUNTY, KANSAS

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
NOVEMBER 18, 1952.

EFFECTIVE PERMEABILITY, IN MILLIDARCYS



M. C. COLT, K. B. PROJECT

GRUBAUGH LEASE
WELL NO. 9-A
ALLEN COUNTY, KANSAS