

OIL FIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS

February 25, 1952

Mr. 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 Henninger "A" Lease, Well No. E-27, Allen County, Kansas, and submitted to our laboratory on February 12, 1952.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:pc  
c.c.

3-24-21E

E-27

HENNINGER "A"

Oil Field Research Laboratories

SHOT RECOMMENDATION

Company M. C. Colt - M. T. Project Lease Henninger "A" Well No. E-27

<u>Depth Interval, Feet</u>	<u>Feet of Sand</u>	<u>Size of Shell Inches</u>	<u>Qts./Ft.</u>	<u>Total Quarts</u>
610.5 - 622.0	11.5	4½	2.5	28.75

Recommended Packer Setting - 605.5 feet.

Note: Plug hole back to - - 623.0 feet.

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LOG

Company M. C. Colt - M. T. Project Lease Henninger "A" Well No. E-27

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
581.00 - 584.00	- Gray calcareous shale.
584.00 - 592.35	- Dark gray calcareous shale.
592.35 - 594.10	- Coal.
594.10 - 597.10	- Gray shale.
597.10 - 598.10	- Cuttings.
598.10 - 605.35	- Gray shale.
605.35 - 605.90	- Light brown fine grained micaceous shaley sandstone.
605.90 - 609.35	- Finely laminated sandy shale.
609.35 - 613.80	- Gray shale.
613.80 - 614.25	- Brown fine grained micaceous sandstone.
614.25 - 615.50	- Gray shale.
615.50 - 615.75	- Finely laminated sandy shale.
615.75 - 616.40	- Brown fine grained finely laminated micaceous carbonaceous sandstone.
616.40 - 616.55	- Finely laminated sandy shale.
616.55 - 616.90	- Brown fine grained micaceous sandstone.
616.90 - 618.50	- Dark brown fine grained micaceous sandstone.
618.50 - 618.60	- Brown fine grained slightly laminated micaceous shaley sandstone.
618.60 - 619.00	- Gray shale.
619.00 - 619.40	- Brown fine grained slightly laminated micaceous shaley sandstone.
619.40 - 622.80	- Dark brown fine grained micaceous sandstone.
622.80 - 624.20	- Dark fine grained micaceous sandstone.
624.20 - 624.50	- Dark fine grained micaceous shaley sandstone.
624.50 - 630.70	- Gray shale.

**Oil Field Research Laboratories**  
**RESULTS OF PERMEABILITY AND POROSITY TESTS**

TABLE I A

Company M. C. Colt - M. T. Project Lease Henniger "A" Well No. E-27

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	614.15	0.224	0.45	0.45		
2	615.85	Imp.	0.65	1.10		
3	616.70	1.34	0.35	1.45		
4	617.65	28.60	1.60	3.05		
5	618.55	1.23	0.10	3.15		
6	619.65	16.20	0.80	3.95		
7	620.75	11.40	1.00	4.95		
8	621.65	12.00	0.85	5.80		
9	622.40	8.40	0.75	6.55		
10	623.30	Imp.	0.90	7.45		
11	624.15	0.450	0.50	7.95		

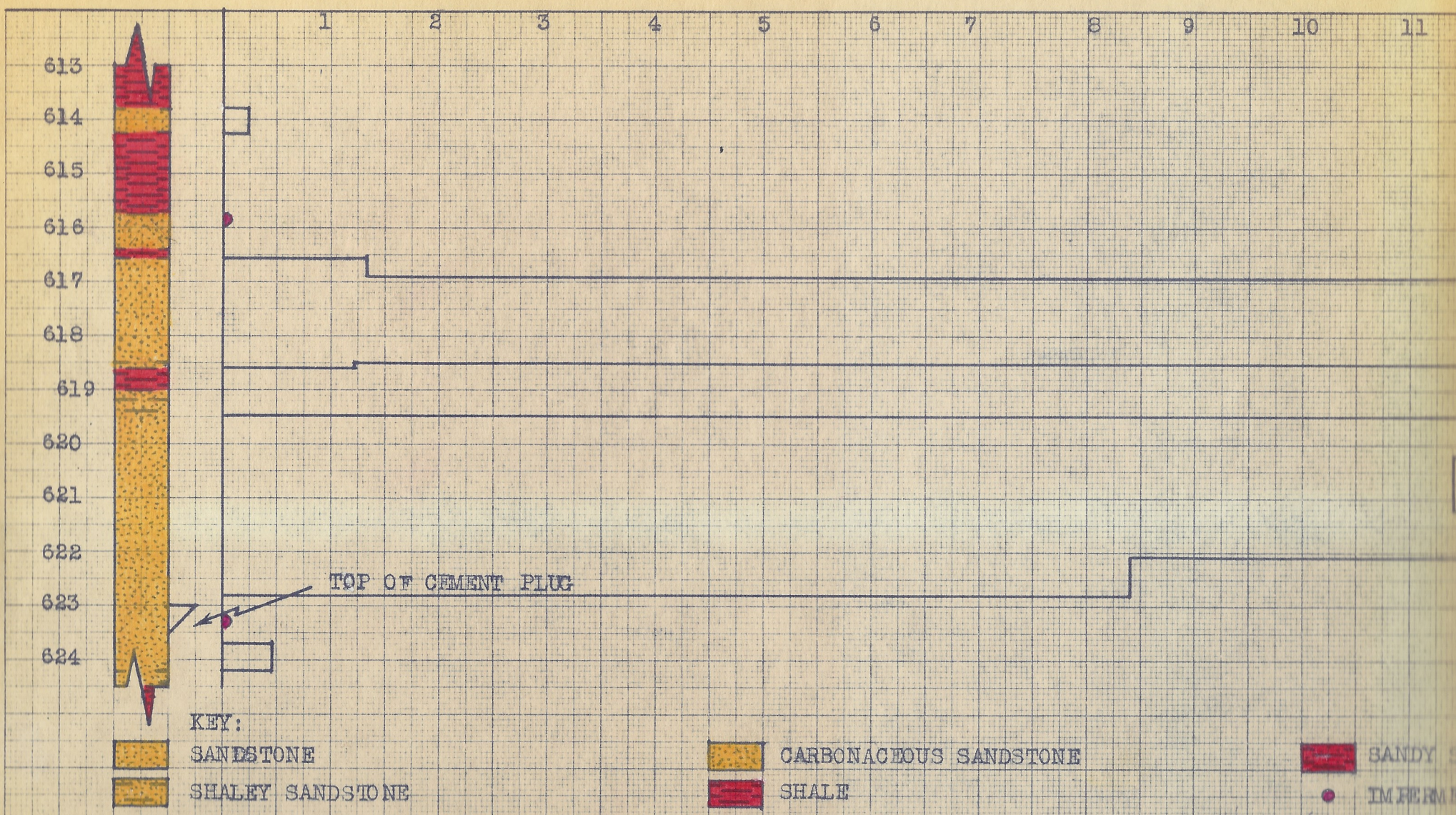
# Oil Field Research Laboratories

## SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company M. C. Colt - M. T. Project Lease Henninger "A" Well No. E-27

<u>Depth Interval, Feet</u>	<u>Feet of Core Analyzed</u>	<u>Average Air Permeability, Millidarcys</u>	<u>Average Effective Permeability, Millidarcys</u>	<u>Permeability Capacity Ft. x Md.</u>	<u>Average Percent Porosity</u>
613.80 - 624.20	6.40	-	13.69	-	-



KEY:

- SANDSTONE
- SHALEY SANDSTONE

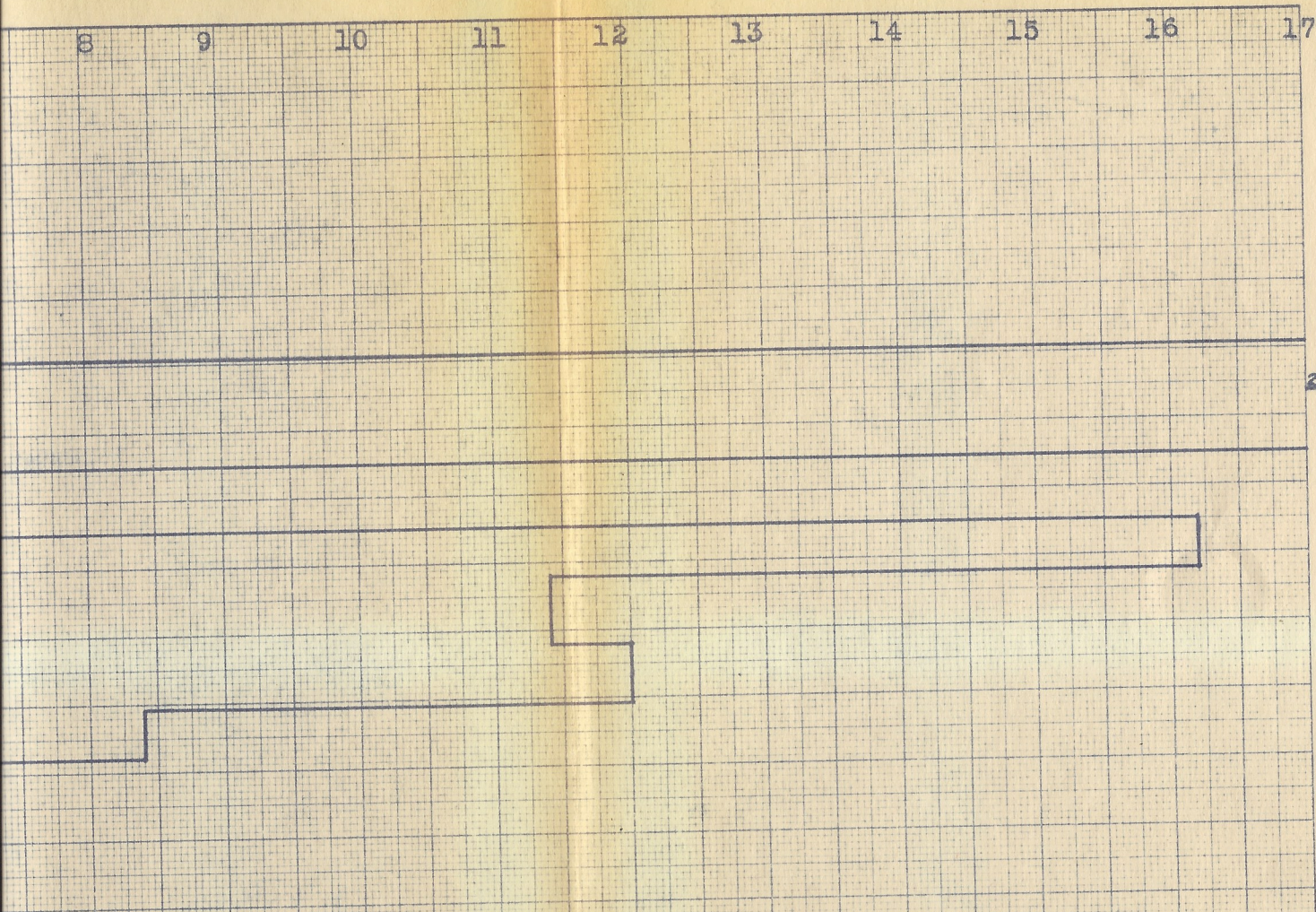
- CARBONACEOUS SANDSTONE
- SHALE

- SANDY SHALE
- IMPERMEABLE

M. C. COLT M-T PROJECT  
HENNINGER "A" LEASE  
ALLEN COUNTY, KANSAS  
WELL NO. E-27

Y, IN MILLIDARCY

8 9 10 11 12 13 14 15 16 17



28.6

STONE



SANDY SHALE



PERMEABLE TO WATER

# M-T PROJECT

WELL NO. E-27

LEN COUNTY, KANSAS

OIL FIELD RESEARCH LABORATORIES  
 CHANUTE, KANSAS  
 FEBRUARY 25, 1952.