

OIL FIELD RESEARCH LABORATORIES
CHANUTE, KANSAS

April 8, 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. WW-17, Allen County, Kansas, and submitted to our laboratory on March 29, 1952.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Fred O. Stenger

FOS:mm

c.c.

3-24-21E

Henninger "A" WW-17

TWP 24S RGE 21E SEC 3

LOG

Company M. C. Colt - M.T. Project Lease Henninger "A" Well No. 17-WW

<u>Depth Interval, Feet</u>	<u>Description</u>
604.20 - 604.50	- Laminated sandy shale.
604.50 - 605.40	- Light brown fine grained micaceous sandstone.
605.40 - 607.50	- Light brown laminated micaceous shaley sandstone.
607.50 - 608.55	- Finely laminated micaceous carbonaceous shaley sandstone.
608.55 - 608.80	- Light brown fine grained micaceous sandstone.
608.80 - 609.00	- Gray shale.
609.00 - 609.80	- Light brown fine grained micaceous shaley sandstone.
609.80 - 610.50	- Gray sandy shale.
610.50 - 611.15	- Light brown fine grained micaceous sandstone.
611.15 - 612.10	- Gray shale.
612.10 - 614.00	- Finely laminated sandy shale.
614.00 - 616.20	- Brown fine grained micaceous sandstone.
616.20 - 618.25	- Brown fine grained laminated micaceous shaley sandstone.
618.25 - 621.70	- Brown fine grained micaceous sandstone.
621.70 - 623.90	- Gray sandy shale.
623.90 - 624.80	- Dark fine grained micaceous carbonaceous sandstone.
624.80 - 626.10	- Brown fine grained slightly carbonaceous micaceous shaley sandstone.
626.10 - 626.90	- Brown fine grained micaceous slightly shaley sandstone.
626.90 - 629.25	- Gray sandy shale.
629.25 - 629.70	- Brown fine grained micaceous slightly shaley sandstone.
629.70 - 631.65	- Brown fine grained micaceous sandstone.

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- 631.65 - 635.40 - Dark fine grained micaceous sandstone.
635.40 - 636.00 - Brown fine grained micaceous sandstone.
636.00 - 647.70 - Dark fine grained micaceous sandstone.
647.70 - 648.60 - Gray sandy shale.
648.60 - 655.60 - Dark soft fine grained micaceous sandstone.
655.60 - 656.45 - Hard brown calcareous sandstone.
656.45 - 657.00 - Dark soft fine grained micaceous sandstone.
657.00 - 658.60 - Brown calcareous conglomeratic shaley sandstone.
658.60 - 663.55 - Gray shale.

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SHOT RECOMMENDATION

Company M. C. Colt - M.T. Project Lease Henninger "A" Well No. WW-17

<u>Depth Interval, Feet</u>	<u>Feet of Sand</u>	<u>Size of Shell Inches</u>	<u>Qts./Ft.</u>	<u>Total Quarts</u>
619.0 - 629.0	10	4	2.5	25.0

Recommended Packer Setting - - - 614.5 feet.

Note: Plug hole back to - - - - 630.0 feet.

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RESULTS OF PERMEABILITY AND POROSITY TESTS

TABLE I A

Company M. C. Colt - M.T. Project Lease Henninger "A" Well No. 17-WW

Effective

Sample No.	Depth, Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.	Percent Porosity
			Ft.	Cum. Ft.		
1	604.65	2.47	0.90	0.90		
2	610.75	5.98	0.65	1.55		
3	614.60	7.57	1.00	2.55		
4	615.39	9.15	1.20	3.75		
5	618.33	33.30	0.75	4.50		
6	619.65	9.93	1.10	5.60		
7	620.55	15.98	1.00	6.60		
8	621.60	19.37	0.60	7.20		
9	624.00	0.070	0.90	8.10		
10	624.90	2.91	0.50	8.60		
11	625.70	4.18	0.80	9.40		
12	626.60	5.95	0.80	10.20		
13	629.30	3.11	0.45	10.65		
14	630.50	12.47	0.90	11.55		
15	631.50	13.83	1.00	12.55		
16	632.20	Imp.	1.25	13.80		
17	633.55	Imp.	1.10	14.90		
18	634.35	Imp.	1.40	16.30		
19	635.50	0.425	0.60	16.90		
20	636.40	0.792	1.00	17.90		
21	637.53	Imp.	1.20	19.10		
22	638.74	Imp.	1.30	20.40		
23	641.50	Imp.	1.40	21.80		
24	642.55	Imp.	1.30	23.10		
25	644.00	Imp.	1.20	24.30		
26	647.10	Imp.	1.20	25.50		
27	649.90	0.087	1.10	26.60		
28	652.50	Imp.	1.00	27.60		
29	656.50	Imp.	0.55	28.15		
30	657.66	Imp.	1.60	29.75		

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SUMMARY OF PERMEABILITY & POROSITY TESTS

TABLE II A

Company M. C. Colt - M. T. Project Lease Henninger "A" Well No. WW-17

Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Porosity
604.50 - 650.40	15.25	-	8.22	-	-
614.50 - 630.00	8.90	-	10.45	-	-