

OIL FIELD RESEARCH LABORATORIES  
CHANUTE, KANSAS

November 19, 1951

M. C. Colt  
Iola, Kansas

Dear Sir:

Attached hereto are the results of effective permeability tests made on the 2" Rotary core taken from the Henninger "A" Lease, Well No. E-26 Allen County, Kansas, and submitted to our laboratory on November 7, 1951.

Very truly yours,

OIL FIELD RESEARCH LABORATORIES

Clayton A. Nattier

CAN:eda  
c.c.

3-24-21E

HENNINGER "A" E-26

TWP 24S RGE 21E SEC 3

Oil Field Research Laboratories

SHOT RECOMMENDATION

Company M. C. Colt, M.T. Project Lease Henninger Well No. H-26

<u>Depth Interval, Feet</u>	<u>Feet of Sand</u>	<u>Size of Shell Inches</u>	<u>Qts./Ft.</u>	<u>Total Quarts</u>
622.5 - 656.0	33.5	3½	2.0	67.0

Recommended Packer Setting 618.5 feet/

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LOG

Company M. C. Colt Lease Henninger "A" Well No. E-26

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
613.00 - 618.05	- Brown fine grained micaceous slightly shaley sandstone.
618.05 - 618.33	- Dark brown fine grained micaceous sandstone.
618.33 - 618.50	- Finely laminated sandstone and shale.
618.50 - 624.00	- According to M. C. Colt, sand. (Core not received).
624.00 - 624.15	- Finely laminated sandstone and shale.
624.15 - 631.80	- Dark brown fine grained micaceous sandstone.
631.80 - 632.55	- Dark fine grained micaceous carbonaceous sandstone.
632.55 - 635.00	- Brown fine grained micaceous sandstone.
635.00 - 635.65	- Brown fine grained micaceous slightly shaley sandstone.
635.65 - 636.50	- Dark fine grained micaceous carbonaceous sandstone.
636.50 - 636.65	- Gray shale.
636.65 - 636.80	- Dark brown fine grained micaceous sandstone.
636.80 - 637.20	- Dark brown fine grained micaceous shaley sandstone.
637.20 - 637.55	- Dark brown fine grained micaceous sandstone.
637.55 - 638.20	- Dark fine grained micaceous carbonaceous sandstone.
638.20 - 639.15	- Laminated sandy shale.
639.15 - 640.40	- Brown fine grained laminated shaley sandstone.
640.40 - 640.55	- Finely laminated shaley sandstone.
640.55 - 641.50	- Dark fine grained laminated micaceous carbonaceous shaley sandstone.
641.50 - 641.60	- Gray sandy shale.
641.60 - 641.95	- Dark fine grained micaceous carbonaceous shaley sandstone
641.95 - 643.45	- Brown finely laminated micaceous slightly carbonaceous shaley sandstone.
643.45 - 644.05	- Brown fine grained micaceous slightly carbonaceous shaley sandstone.

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- 644.05 - 645.30 - Brown fine grained laminated micaceous slightly carbonaceous shaley sandstone.
- 645.30 - 646.00 - Gray sandy shale.
- 646.00 - 646.90 - Finely laminated sandy shale.
- 646.90 - 647.80 - Gray sandy shale.
- 647.80 - 648.05 - Finely laminated sandy shale.
- 648.05 - 650.60 - Gray sandy shale.
- 650.60 - 652.85 - Dark fine grained micaceous carbonaceous sandstone.
- 652.85 - 654.00 - Dark brown fine grained micaceous sandstone.
- 654.00 - 655.60 - Dark fine grained micaceous carbonaceous sandstone.
- 655.60 - 656.60 - Dark brown fine grained micaceous sandstone.
- 656.60 - 659.15 - Dark fine grained micaceous carbonaceous sandstone.
- 659.15 - 661.75 - Dark fine grained micaceous shaley sandstone.
- 661.75 - 665.20 - Finely laminated sandy shale.
- 665.20 - 667.15 - Carbonaceous shaley sandstone.
- 667.15 - 668.30 - Laminated micaceous carbonaceous shaley sandstone.
- 668.30 - 668.85 - Dark fine grained micaceous carbonaceous sandstone.
- 668.85 - 670.00 - Laminated sandy shale.

RESULTS OF EFFECTIVE PERMEABILITY TESTS

TABLE IA

Company M. C. Colt, M.T. Project Lease Henninger "A" Well No. E-26

Sample No.	Depth, Feet	Effective Permeability Millidarcys	Ft. Feet of Sand Ft.	Cum. Ft.
1	613.35	25.30	0.90	0.90
2	614.35	9.05	1.00	1.90
3	615.50	5.45	1.20	3.10
4	616.70	14.70	1.00	4.10
5	617.60	6.96	0.95	5.05
6	618.20	3.63	0.28	5.33
7	624.33	0.547	0.65	5.98
8	625.25	2.37	0.90	6.88
9	626.25	2.37	1.05	7.93
10	627.30	4.40	1.05	8.98
11	628.30	5.38	1.00	9.98
12	629.30	7.96	1.10	11.08
13	630.52	0.230	0.95	12.03
14	631.20	0.247	0.95	12.98
15	632.00	Imp.	0.75	13.73
16	633.20	3.38	1.15	14.88
17	634.25	2.53	1.30	16.18
18	635.20	0.796	0.65	16.83
19	636.15	2.41	0.85	17.68
20	637.30	0.630	0.35	18.03
21	638.15	Imp.	0.65	18.68
22	639.40	1.33	0.60	19.28
23	640.10	0.136	0.65	19.93
24	641.05	Imp.	0.95	20.88
25	642.10	Imp.	0.65	21.53
26	643.12	Imp.	0.85	22.38
27	644.65	Imp.	1.25	23.63
28	650.80	Imp.	0.70	24.33
29	651.75	Imp.	0.90	25.23
30	652.70	Imp.	0.65	25.88
31	653.80	25.55	1.15	27.03
32	654.75	Imp.	1.60	28.63
33	655.70	3.37	0.90	29.53
34	656.75	Imp.	0.85	30.38
35	657.90	Imp.	1.10	31.48
36	659.05	Imp.	0.70	32.18
37	660.30	Imp.	1.85	34.03
38	661.70	Imp.	0.75	34.78
39	665.30	Imp.	0.75	35.48
40	666.35	Imp.	1.25	36.73
41	668.55	Imp.	0.55	37.28

SUMMARY OF PERMEABILITY TESTS

TABLE IIA

Company M. C. Colt, M.T. Project Lease Henninger "A" Well No. E-26

<u>Depth Interval, Feet</u>	<u>Feet of Core Analyzed</u>	<u>Average Effective Permeability Millidarcys</u>
613.00 - 636.50	16.93	5.59
637.20 - 656.60	3.65	9.19
618.50 - 656.60	15.25	4.43