

Layne-Western Company, Inc.

Ve. Information
Omaha, Nebraska

1. Contract Cherokee County R.W.D. Date 9-29-73

2. City and State Marcus, Iowa Driller Vic Soukup

3. Well No. 1 at test hole No. 73-1 Well location (attach map) On Oscar Heline Farm
2-3/4 miles east of Marcus, Iowa

4. Work completed..... No of man hours as charged to job on time sheet.....

5. MATERIAL:	LENGTH	DIA.	GAUGE OR WALL THICKNESS	MATERIAL	TYPE	NO. OF OPENINGS
6. Screen	30'	8"	7	S.S.	Layne Shutter	5
7. Inner Casing	348'	8"	.277	Black pipe	welded	
8. Outer Casing						

9. 40 tons of gravel used in the well. Size Hartford Road Gravel

10. Test of well. Did you use test or permanent pump? test 8" 7
Size of Bowl Stages

11. Size of orifice 4 inch by 2 1/2 inch. Orifice tube reading 11 1/2 inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
<u>24 hrs.</u>	<u>143</u>	<u>222'</u>	<u>8'9"</u>	<u>230'9"</u>
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13. Recovery in 5 minutes 1'9" from S.W.L., in 30 minutes.....

14. Did you seal bottom of well? yes Thickness 3/16 inches, material S.S. Plate

15. Well underreamed? From.....feet to.....feet,feet to.....feet.

16. If all screen was not placed at bottom, state how it was spaced.

From.....feet to.....feet; from.....feet to.....feet; from.....feet to.....feet.

17. Depth of well from ground level to top of plug 376' Size of drilled hole 24"

18. Was cement placed around or between any of the casings? no

19. If so, state where, how much and method used.

CONTRACT..... Cherokee County R.W.D.

Well No..... 1

Log of well from ground level:

Feet	Feet	Formation
0	to 54	Brown clay
54	to 58	Gray clay
58	to 110	Brown clay and boulders
110	to 135	Brown clay
135	to 300	Blue clay
300	to 337	Blue clay sand streaks
337	to 376	Medium and coarse sand and gravel
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