Layne-Western Company, Inc.

Well Information

Omaha, Nebraska

1. Contract CITY OF ESSEX, IOWA Date 06-17-97

2. City and State ESSEX, IOWA Driller DAVE DEAVER

3. Well No. 6 at test hole No. Well location (attach map)

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	6.3	24"	.375	SST	WIREWRAPPED	.075
7. Inner Casing	24.4	24"	.375	BLACK	BLANK	
8. Outer Casing	7.8	8"	.375	BLACK	BLANK	

9. 14 tons of gravel used in the well. Size "A" LUTHER MADDOX

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

11. Size of orifice inch by inch. Orifice tube reading inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL

13. Recovery in 5 minutes, in 30 minutes

14. Did you seal bottom of well? YES Thickness .375 inches, material SST

15. Well underreamed? NO From feet to feet, feet to feet.

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

From 30.7' feet to 37.0' feet; from feet to feet; from feet to feet.

17. Depth of well from ground level to top of plug 37.0' Size of drilled hole 48"

18. Was cement placed around or between any of the casings? YES

19. If so, state where, how much and method used. FROM 7.0' TO 18.0' (5 YARDS)

CONTRACT CITY OF ESSEX, IOWA Well No. 6

Log of well from ground level:

Feet		Feet	Formation
0	to	2	TOP SOIL
2	to	5	BROWN CLAY
5	to	14	STICKY GRAY CLAY
14	to	20	SILTY BLACK CLAY
20	to	37	SAND AND GRAVEL, COARSER TO BOTTOM
37	to	39	GRAY CLAY
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