Layne-Western Company, Inc. Well Information

Omaha, Nebraska

1. Contract Denison, Iowa Date 3-14-89

2. City and State Denison, Iowa Driller Harold D. Statz

3. Well No. 1 at test hole No. 88-2 Well location (attach map) Fair Grounds East side of Hwy 39

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	20'	16"	7 Gauge	S.S.	Cook	.100
7. Inner Casing	55'	16"	.375	Steel	Welded	
8. Outer Casing						

9. 20 tons of gravel used in the well. Size #3 Northern Gravel

10. Test of well. Did you use test or permanent pump? Test 12 (Size of Bowl) 4 (Stages)

11. Size of orifice 6 inch by 5 inch. Orifice tube reading 39.5 inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
Attached				

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13. Recovery in 5 minutes 29.87', in 30 minutes 29.67

14. Did you seal bottom of well? Yes Thickness 3/16 inches, material Stainless Steel

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 45 feet to 65 feet; from feet to feet; from feet to feet.

17. Depth of well from ground level to top of plug 65' Size of drilled hole 42"

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

19. If so, state where, how much and method used. Top 30' of well grouted with 11 yards

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CONTRACT DENISON, IA Well No. 1

Log of well from ground level:

Feet		Feet	Formation
	to		
0	to	10	topsoil
10	to	18	brown clay
18	to	25	fine - course sand- gravel
25	to	30	gravel - course sand
30	to	47	course sand gravel - fine sand
47	to	65	gravel - pebbles - boulders
65	to		blue - gray clay
	to		
	to		
	to		
	to		
	to		
	to		
	to		
	to		

