Layne-Western Company Omaha, Nebraska

Well Information

1. Contract Town of Panama Date September 10, 1968
2. City and State Panama, Iowa Driller D. R. Statz
3. Well No. 4 at test hole No. ____ Well location (attach map) ____
4. Work completed September 10, 1968 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	5'	8"	7 ga.	Stainless steel	Layne shutter	5
7. Inner Casing	34' 6"	8"	Std.	Steel	T & C	
8. Outer Casing						

9. 7 tons of gravel used in the well. Size Road gravel - Christensen - Fremont
10. Test of well. Did you use test or permanent pump? permanent Dempster (Size of Bowl) Submersible (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
8:30		27' 6"		
8:30	20	27' 6"	4' 6"	32'
9:30	20	27' 6"	4' 6"	32'
9:30	15	27' 6"	3' 6"	31'
10:30	15	27' 6"	3' 6"	31'
11:30	15'	27' 6"	3' 6"	31'

13. Recovery in 5 minutes ____, in 30 minutes ____
14. Did you seal bottom of well? yes Thickness 1/4 inches, material stainless
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 ____ feet to ____ feet; from ____ feet to ____ feet; from ____ feet to ____ feet.
17. Depth of well from ground level to top of plug 39' 6" Size of drilled hole 20"
18. Was cement placed around or between any of the casings? no
19. If so, state where, how much and method used. ____

CONTRACT Town of Panama, Iowa Well No. 4

Log of well from ground level:

Feet		Feet	Formation
	to		
0'	to	16'	Black soil
16'	to	18'	Brown clay
18'	to	30'	Blue clay
30'	to	39'	Gravel and coarse sand, boulders
	to		
	to		
	to		
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