

1. Contract.....City of Harlan.....Date.....July 24, 1965.....
 2. City and State.....Harlan, Iowa.....Driller.....Harold Stutz.....
 3. Well No.....12.....at test hole No.....65-20.....Well location (attach map).....700' southwest of
well # 15.....

4. Work completed.....July 24, 1965.....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	<u>7' 6"</u>	<u>16"</u>	<u>7 ga.</u>	<u>Stainless Steel</u>	<u>Layne</u>	<u>4</u>
7. Inner Casing	<u>35' 2"</u>	<u>16"</u>	<u>3/8"</u>	<u>Steel</u>	<u>Butt weld</u>	
8. Outer Casing						

9.25 tons of gravel used in the well. Size.....Road gravel.....

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

11. Size of orifice.....6.....inch by.....3.....inch. Orifice tube reading.....inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
6:00 A.M. — 12:00	208	14' 6"	11'	25' 6"
12:00 P.M. — 2:00 P.M.	208	14' 6"	11'	25' 6"

13. Recovery in 5 minutes.....8'....., in 30 minutes.....full.....

14. Did you seal bottom of well?yes.. Thickness.....3/8 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.....29' 6" feet to.....37.....feet; from.....feet to.....feet; from.....feet to.....feet.

17. Depth of well from ground level to top of plug.....37'.....Size of drilled hole.....52".....

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

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

CONTRACT City of Harlan, Iowa Well No. 12

Log of well from ground level:

Feet	Feet	Formation
0	to 4	Black top soil
4	to 10	Gray clay
10	to 12	Yellow clay
12	to 14	Blue clay
14	to 21	Coarse sand, gravel, and fine sand
21	to 35	Gravel, coarse sand, and fine sand
35	to 37	Gravel and boulders
37	to	Blue clay
	to	
	to	
	to	
	to	
	to	
	to	
	to	
	to	

