

Contract Harlan Utilities Date 12-12-78

City and State Harlan, Iowa Driller Harold Statz

Well No. 24 at test hole No. 78-10 Well location (attach map)

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

MATERIAL:	LENGTH	DIA.	GAUGE OR WALL THICKNESS	MATERIAL	TYPE	NO. OF OPENINGS
Screen	<u>10'</u>	<u>10"</u>		<u>S.S.</u>	<u>Wire wrap</u>	<u>.050</u>
Inner Casing	<u>35'</u>	<u>10"</u>	<u>.365</u>	<u>Steel</u>	<u>Welded</u>	
Outer Casing						

_____ tons of gravel used in the well. Size #2 Northern

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

Size of orifice 4 inch by 2½ inch. Orifice tube reading 10½ inches.

2. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
<u>4 hrs.</u>	<u>70</u>	<u>19'</u>	<u>4'</u>	<u>23'</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

3. Recovery in 5 minutes full, in 30 minutes full

4. Did you seal bottom of well? Yes Thickness 3/16 inches, material S.S.

5. Well underreamed? No From _____ feet to _____ feet, _____ feet to _____ feet.

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

From 26 feet to 36 feet; from _____ feet to _____ feet; from _____ feet to _____ feet.

7. Depth of well from ground level to top of plug 36 Size of drilled hole 2.8"

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

9. If so, state where, how much and method used. 1½ yd. 7' - 17'

TRACT.....

Well No.....

of well from ground level:

Feet	to	Feet	Formation
0	to	4	Top soil
4	to	14	Brown clay
14	to	19	Fine sand
19	to	21	Blue clay
21	to	28	Coarse sand, gravel
28	to	36	Gravel boulders
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