

Contract City -ella Sioux City, Iowa Date April 16, 1971

2. City and State Sioux City, Iowa Driller Larry Hrabik

3. Well No. 85 at test hole No. 71-3 Well location (attach map) East of slate yard
North of filter plant and North of railroad tracks and bluff

4. Work completed 4-16-71 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 133 12" ID 7 G. Stainless Layne shutter 5

7. ~~Inner Casing~~ 10' 12" ID 7 G. S.S Blank

* 8. Outer Casing 178 10" ID 1/2 wall Steel Blank

9. 35 ~~tons~~ of gravel used in the well. Size Concrete mix

10. Test of well. Did you use test or ~~permanant~~ pump? 13.1' 17" 1
Pipe Size of Bowl Stages

11. Size of orifice 9' inch by 12 inch. Orifice tube reading inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
<u>11:00-12:00</u>	<u>9930</u>	<u>35</u>	<u>68'</u>	<u>97</u>
<u>12:00AM -11:00 PM</u>	<u>1500</u>	<u>35</u>	<u>92</u>	<u>127</u>

13. Recovery in 5 minutes 62', in 30 minutes 20'

14. Did you seal bottom of well? Yes Thickness inches, material Stainless plate

15. Well underreamed? From feet to feet, feet to feet.

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

From 3/5 feet to 152 feet; from 152 feet to 162 feet; from feet to feet.

17. Depth of well from ground level to top of plug 315 Size of drilled hole 28

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

19. If so, state where, how much and method used. 480 sacks was placed between the 30" casing 178'
below ground level

* From ground level

CONTRACT.....City...of...Sioux...City...Iowa

Well No. 222

Log of well from ground level:

[illegible]

See Sketch

