

1. Contract..... City of Red Oak, Iowa Date..... 1-2-90

2. City and State..... Red Oak, Iowa Driller..... Statz/Payton

3. Well No. 3 North at test hole No. 89-1 Well location (attach map)..... 2200' North of North Well No. 1

4. Work completed..... No of hours as charged to job on time sheet.....

5. MATERIAL:	LENGTH	DIA.	GAU WALL T	TYPE	NO. OF OPENINGS
6. Screen	55'	14"	7 g	Johnson	.050
7. Inner Casing	167'	14"		ASTM A53	
8. Outer Casing					

Not well north 3. well 90-1 is believed to be north 3. 10/31/00 JR

9. 25 tons of gravel used in the well. Size Northern Sand & Gravel No. 1

10. Test of well. Did you use test or permanent pump? Test 12" 4

11. Size of orifice 6 inch by 5 inch. Orifice tube reading 18 inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL

See Attached Sheets

13. Recovery in 5 minutes 10.08' in 30 minutes 5'

14. Did you seal bottom of well? yes Thickness 3/16 inches, material 304 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 160 feet to 215 feet; from feet to feet; from feet to feet.

17. Depth of well from ground level to top of plug 215' Size of drilled hole 32"

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

19. If so, state where, how much and method used. 0-20', 5 yards, neat cement, pressure grouted.

TRACT Red Oak, Iowa

Well No.

Log of well from ground level:

Feet	Feet	Formation
0	to 35	Brown clay gravels
35	to 73	Gray clay
73	to 74	Boulder
74	to 89	Gray clay
89	to 120	Medium sandstone - yellow shale streaks
120	to 134	Rusty sandstone
134	to 143	Gray shale hard
143	to 146	Sandstone
146	to 153	Shale
153	to 167	Medium - fine sandstone
167	to 185	Sandstone - medium - fine
185	to 205	Sandstone - medium - fine
205	to 210	Sandstone - medium coarse gravel
210	to 218	Sandstone medium-fine
218	to 223	Gray shale

