

1. Contract Town of Breda Date May 30, 1969
2. City and State Breda, Iowa Driller Dick Farrell
3. Well No. 3 at test hole No. _____ Well location (attach map) 200' south of
existing well and 50' east of street
4. Work completed May 29, 1969 No of man hours as charged to job on time sheet _____
5. MATERIAL:
6. Screen 30' 6" OD Stainless Cook
7. Inner Casing 302' 12" 3/8" steel Plain End
8. Outer Casing 16' 6" std. 6' steel & 10' stainless
9. 5 tons of gravel used in the well. Size special mix
10. Test of well. Did you use test or permanent pump? test 10" 10
Size of Bowl Stages
11. Size of orifice 4 inch by 3 inch. Orifice tube reading 3.5 inches.
12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
<u>2:30</u>	<u>250</u>	<u>200'</u>	<u>37'</u>	<u>237'</u>
<u>3:30</u>	<u>250</u>	<u>200'</u>	<u>37'</u>	<u>237'</u>
<u>4:30</u>	<u>250</u>	<u>200'</u>	<u>37'</u>	<u>237'</u>
<u>5:30</u>	<u>250</u>	<u>200'</u>	<u>37'</u>	<u>237'</u>
<u>6:30</u>	<u>250</u>	<u>200</u>	<u>37'</u>	<u>237'</u>
<u>7:30</u>	<u>250</u>	<u>200</u>	<u>37'</u>	<u>237'</u>

13. Recovery in 5 minutes full, in 30 minutes _____
14. Did you seal bottom of well? yes Thickness _____ inches, material threaded plug
15. Well underreamed? 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 337' Size of drilled hole 17 1/2" and 11 1/2"
18. Was cement placed around or between any of the casings? yes
19. If so, state where, how much and method used. from ground level to 302', Approx. 250 sacks.
Sealed top of well and pumped through 2" pipe.

CONTRACT Town of Breda, Breda, Iowa

Well No. 3

Drillers log

Log of well from ground level:

Feet	to	Feet	Formation
0'	to	3'	Fine rock & cinders & dirt
3'	to	13'	Yellow clay
13'	to	20'	Blue clay
20'	to	86'	Blue clay & pebbles, few gravels
86'	to	87'	Gravel caving
87'	to	88'	Boulders
88'	to	90'	Greenish clay
90'	to	118'	Yellow clay trace of boulders
118'	to	142'	Blue clay with few gravels
142'	to	159'	Blue clay, sticky trace of gravel
159'	to	160'	Boulders, rough
160'	to	170'	Blue clay & boulders
170'	to	172'	Gravel
172'	to	248'	Blue clay, sticky trace of boulders
248'	to	250'	Blue clay, trace of sand streaks
250'	to	270'	Blue clay
270'	to	274'	Blue shale, trace of sandstone
274'	to	276'	Dakota sandstone
276'	to	278'	Dakota sandstone, trace of shale
278'	to	282'	Dakota sandstone
282'	to	283'	Shale
283'	to	285'	Dakota sandstone
285'	to	288'	Blue shale, trace of sandstone
288'	to	289'	Blue shale
289'	to	290'	Dakota sandstone
290'	to	298'	Blue shale, trace of sandstone
298'	to	304'	Dakota sandstone, tight
304'	to	308'	Dakota sandstone, medium

