

1. Contract Remsen, Iowa Date 7-17-77

2. City and State _____ Driller Harold Statz

3. Well No. 77-1 at test hole No. 76-1 Well location (attach map) 75' S.W. of water plant

4. Work completed _____ 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 47' 12" STD S.S. Johnson .030

7. Inner Casing 366 12" 3/8" Steel welded

8. Outer Casing 7 1/2' 12" Pitless adapter

9. _____ 50 lbs of gravel used in the well. Size block mix special

10. Test of well. Did you use test or permanent pump? test 12 3
Size of Bowl Stages

11. Size of orifice 4" meter inch by _____ inch, Orifice tube reading _____ inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
<u>24 hours</u>	<u>200</u>	<u>160</u>	<u>23'</u>	<u>183'</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

14. Did you seal bottom of well? yes Thickness 3/16 inches, material S.S. plate

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 370 feet to 417 feet; from _____ feet to _____ feet; from _____ feet to _____ feet.

17. Depth of well from ground level to top of plug 417' Size of drilled hole 24"

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

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

CONTRACT Remsen, Iowa Well No. 77-1

Log of well from ground level:

Feet	to	Feet	Formation
0	to	10	Fill
10	to	20	Gravel, pebbles
20	to	55	Brown clay, gravel boulders
55	to	58	Gravel Boulders
58	to	98	Blue clay - Boulders
98	to	165	Gray shale - boulders
165	to	175	Gray shale - sandstone
175	to	182	Gray shale - limestone
185	to	205	Sandstone with shale
205	to	210	Blue shale
210	to	240	Sandstone with shale
240	to	247	Blue clay - gravel
247	to	272	Red shale, sticky
272	to	285	Blue shale, very sticky
285	to	340	Gray shale, very sticky
340	to	368	Red shale, very sticky

