Ie-Western Company, Inc.

Well Information
Omaha, Nebraska

Contract City of Shenandoah. Date 9/22/75

2. City and State Shenandoah, Iowa Driller Harold Starz

3. Well No. 24 at test hole No. 72-11 Well location (attach map) East site of airport

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	10'	18"	7 Gauge	Stainless Steel	Layne	5
7. Inner Casing	4'	18"	.375"	Steel	Welded	
8. Outer Casing						

9. 11 tons of gravel used in the well. Size road gravel

10. Test of well. Did you use test or permanent pump? Test 8" Size of Bowl 5 Stages

11. Size of orifice 6 inch by 3 inch. Orifice tube reading 30 inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
24 Hrs.	183	18'	19'	37'

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DEPARTMENT OF ENVIRONMENT
COUNCIL BLUFFS, IOWA

13. Recovery in 5 minutes 17', in 30 minutes full

14. Did you seal bottom of well? Yes Thickness 3/16 inches, material 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 39 feet to 49 feet; from ..... feet to ..... feet; from ..... feet to ..... feet.

17. Depth of well from ground level to top of plug 49' Size of drilled hole 36"

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

19. If so, state where, how much and method used. top 15', 4 yds, with 8- #6 bars with #3 bars at 18" cc

EW-05

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CONTRACT Shenandoah, Iowa Well No. 24

Log of well from ground level:

Feet		Feet	Formation
0'	to	3'	Top soil
3'	to	21'	Brown clay
21'	to	25'	Fine sand with clay
25'	to	30'	Fine-coarse sand, full
30'	to	41'	Coarse sand, gravel, fine sand
41'	to	45'	Gravel-coarse sand, blue
45'	to	45'6	Blue clay
45'6	to	49'	Gravel and coarse sand
49'	to	Blu	Blue shale
	to		
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