

Layne-Western Company, Inc.

Well Information

Omaha, Nebraska

1. Contract Missouri Valley Date 3-31-87 Well 4

2. City and State Missouri Valley, Iowa Driller Tom Payton

3. Well No. 87-1 at test hole No. _____ Well location (attach map) _____

4. Work completed 3-30-87 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	<u>20'</u>	<u>12"</u>		<u>S.S.</u>	<u>wire wrap</u>	<u>60</u>
7. Inner Casing	<u>80'</u>	<u>12"</u>	<u>.375</u>	<u>Steel</u>		
8. Outer Casing						

9. 15 tons of gravel used in the well. Size Road

10. Test of well. Did you use test or permanent pump? Test 10" 4
Size of Bowl Stages

11. Size of orifice _____ inch by _____ inch. Orifice tube reading _____ inches.

12. Pumping test — measurements from ground level:

TIME	G.P.M.	STATIC	DRAWDOWN	PUMPING LEVEL
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

14. Did you seal bottom of well? Yes Thickness 3/16 inches, material stainless steel

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 97' Size of drilled hole 36"

18. Was cement placed around or between any of the casings? Not yet

19. If so, state where, how much and method used. Will be 10'

