

# Layne-Western Company, Inc.

# Well Information

Omaha, Nebraska

1. Contract AG PROCESSING, INC. Date 6-27-96

2. City and State PORT NEAL, IOWA Driller DAVE DEAVER/TED THOMPSON

3. Well No. X-WEST at test hole No. 96-1 Well location (attach map) 20' SOUTH OF ABANDONED  
WELL 3-WEST. #1 well on site Plan

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       | <u>60.9</u>  | <u>18"</u> | <u>.375</u>             | <u>SST</u> | <u>WIRE WOUND</u> | <u>.035</u>     |
| 7. Inner Casing | <u>125.1</u> | <u>18"</u> | <u>.188</u>             | <u>SST</u> | <u>CASING</u>     |                 |
| 8. Outer Casing |              |            |                         |            |                   |                 |

9. 75 tons of gravel used in the well. Size LYMAN RICHEY "B" 40 TON WASHED ROAD GRAVEL

10. Test of well. Did you use test or permanent pump? PERMANENT 12 5  
Size of Bowl Stages

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

12. Pumping test — measurements from ground level:

| TIME | G.P.M.                    | STATIC | DRAWDOWN | PUMPING LEVEL |
|------|---------------------------|--------|----------|---------------|
|      |                           |        |          |               |
|      | <u>SEE ATTACHED SHEET</u> |        |          |               |
|      |                           |        |          |               |
|      |                           |        |          |               |
|      |                           |        |          |               |
|      |                           |        |          |               |
|      |                           |        |          |               |
|      |                           |        |          |               |

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

14. Did you seal bottom of well? YES Thickness .375 inches, material SST

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.....feet to.....feet; from.....feet to.....feet; from.....feet to.....feet.

17. Depth of well from ground level to top of plug 186.0' Size of drilled hole 48"

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

19. If so, state where, how much and method used. FROM 0' TO 20.0'; 13 YARDS

CONTRACT AG PROCESSING, INC.

Well No. 4-WEST

Log of well from ground level:

| Feet | to | Feet | Formation                                  |
|------|----|------|--|
| 0    | to | 21   | BROWN SAND                                 |
| 21   | to | 39   | GRAY SAND, ROCK IN WALL AT 35'             |
| 39   | to | 69   | SAND AND GRAVEL W/STREAKS OF CLAY, COBBLES |
| 69   | to | 77   | SAND AND GRAVEL                            |
| 77   | to | 79   | FINE SAND                                  |
| 79   | to | 87   | COARSE GRAVEL, BOULDERS                    |
| 87   | to | 98   | FINE SAND AND SILT                         |
| 98   | to | 154  | SAND AND GRAVEL, COBBLES                   |
| 154  | to | 159  | SAND AND GRAVEL W/STREAKS OF SANDSTONE     |
| 159  | to | 163  | FINE SANDSTONE                             |
| 163  | to | 168  | GRAY SHALE                                 |
| 168  | to | 186  | COARSE SANDSTONE                           |
|      | to |      |  |

