



WATER · MINERAL · ENERGY

## WELL TEST DATA SHEET

83404 -

*Layne Christensen Company*

## PROFESSIONAL SERVICES FOR WATER SYSTEMS

721 West Illinois Avenue, Aurora, Illinois 60506-2892 Telephone 630/897-6941

229 West Indiana Avenue, Beecher, Illinois 60401 Telephone 708/946-2244

|                   |                       |          |   |                |                            |
|-------------------|-----------------------|----------|---|----------------|----------------------------|
| Job               | Tyson Foods           | Well No. | 8 | Date Tested    | 10/9/2016                  |
| Location          | Columbus Junction, IA |          |   | Tested By      | Warren/Gilchrist           |
| Dia. of Well      | 17"                   |          |   | Driver         | 300 HP 17H BJ              |
| Depth of Well     | 1450 ft.              |          |   | Column & Shaft | 10" T&C                    |
| Length of Airline | 510 ft.               |          |   | Bowls          | Flowserve 15 MQL - 5 stage |
| Static Level      | 180 ft.               |          |   | Manufacturer   | Flowserve                  |
| Orifice Size      | 10" x 7"              |          |   | Serial No.     |                            |

60 HrZ

| Time                           | Piez. (in)        | G.P.M. | Air Gauge (ft) | Pumping Level | Drawdown | Dis. Press. Lbs. | Ft. | Total Head | AMPS        | Remarks |
|--------------------------------|-------------------|--------|----------------|---------------|----------|------------------|-----|------------|-------------|---------|
|                                |                   |        | 350            |               |          |                  |     |            |             |         |
| 6:00                           | <b>START PUMP</b> |        |                |               |          |                  |     |            |             |         |
| 6:05                           | 42.0              | 1329   | 125            | 385           | 205      | 70               |     |            |             |         |
| 6:15                           | 39.5              | 1289   | 115            | 395           | 215      | 70               |     |            |             | Clear   |
| 6:25                           | 25.0              | 1025   | 102            | 408           | 228      | 70               |     |            | 268/264/260 | Clear   |
| 6:35                           | 24.0              | 1005   | 95             | 415           | 235      | 70               |     |            |             |         |
| 6:40                           | 26.5              | 1056   | 65             | 445           | 265      | 50               |     |            | 268/268/265 |         |
| 6:50                           | 26.0              | 1046   | 65             | 445           | 265      | 50               |     |            |             |         |
| 7:00                           | 26.0              | 1046   | 65             | 445           | 265      | 50               |     |            |             |         |
| 7:10                           | 26.0              | 1046   | 65             | 445           | 265      | 50               |     |            | 268/268/265 | Clear   |
| <b>30 LBS. DROPS BELOW 40'</b> |                   |        |                |               |          |                  |     |            |             |         |
| 7:15                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 7:25                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            | 268/268/265 | Clear   |
| 7:35                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 7:45                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 8:00                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             | Clear   |
| 8:15                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 8:30                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 8:45                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            | 268/268/265 | Clear   |
| 9:00                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 9:15                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 9:30                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 9:45                           | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 10:00                          | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 10:15                          | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 10:30                          | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |
| 10:45                          | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            | 268/268/265 |         |
| 11:00                          | 27.0              | 1066   | 45             | 465           | 285      | 40               |     |            |             |         |



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| Time                                                                    | Piez. (in) | G.P.M. | Air Gauge (ft) | Pumping Level              | Drawdown | Dis. Press. |  | Total Head | AMPS        | Remarks |
|-------------------------------------------------------------------------|------------|--------|----------------|----------------------------|----------|-------------|--|------------|-------------|---------|
| 11:15                                                                   | 27.0       | 1066   | 45             | 465                        | 285      | 40          |  |            |             | Clear   |
| 11:30                                                                   | 27.0       | 1066   | 45             | 465                        | 285      |             |  |            | 268/268/264 |         |
| 11:45                                                                   |            |        |                |                            |          |             |  |            |             |         |
| 12:00                                                                   |            |        |                |                            |          |             |  |            |             |         |
| <b>AT 11:41 - SHUT DOWN TO GET RECOVERY READINGS. KI WANTS TO START</b> |            |        |                |                            |          |             |  |            |             |         |
| <b>WELLS AND WANTS TO GET ACCURATE READINGS.</b>                        |            |        |                |                            |          |             |  |            |             |         |
| <b>11:41 - RECOVERY</b>                                                 |            |        | 72             |                            |          |             |  |            |             |         |
|                                                                         |            |        | 110            |                            | 320      |             |  |            |             |         |
|                                                                         |            |        | 140            |                            | 322      |             |  |            |             |         |
|                                                                         |            |        | 160            | <b>12:08</b>               | 325      |             |  |            |             |         |
|                                                                         |            |        | 178            | <b>12:09</b>               | 325      |             |  |            |             |         |
|                                                                         |            |        | 185            | <b>12:11</b>               | 325      |             |  |            |             |         |
|                                                                         |            |        | 195            |                            | 330      |             |  |            |             |         |
|                                                                         |            |        | 210            | <b>12:15</b>               | 330      |             |  |            |             |         |
|                                                                         |            |        | 220            |                            | 330      |             |  |            |             |         |
|                                                                         |            |        | 230            |                            | 330      |             |  |            |             |         |
|                                                                         |            |        | 240            | <b>12:18</b>               | 330      |             |  |            |             |         |
|                                                                         |            |        | 248            | <b>12:20</b>               | 330      |             |  |            |             |         |
|                                                                         |            |        | 257            | <b>OTHER WELLS STARTED</b> |          |             |  |            |             |         |
|                                                                         |            |        | 268            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 275            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 286            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 295            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 301            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 306            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 310            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 312            |                            |          |             |  |            |             |         |
|                                                                         |            |        | 317            |                            |          |             |  |            |             |         |