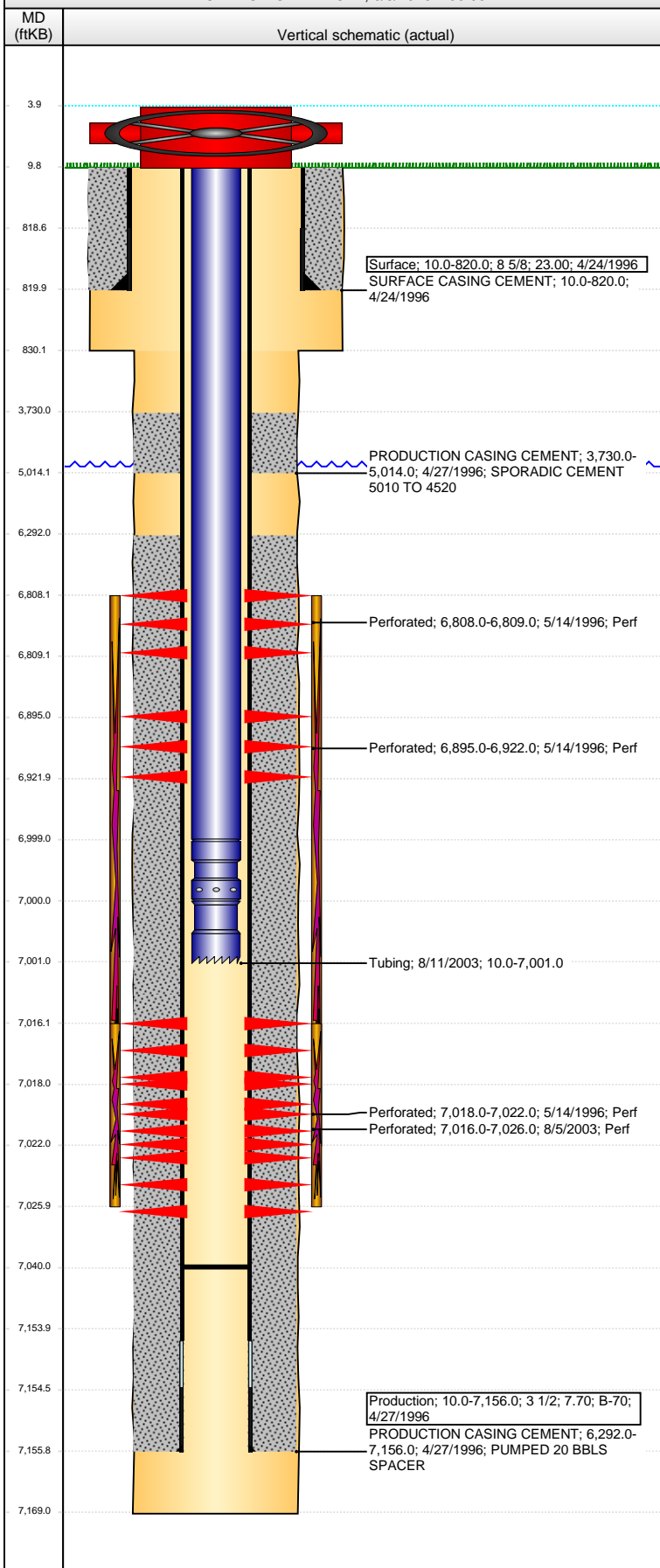


**Well Name: GUTTERSEN 1-4**

VERTICAL - ORIGINAL HOLE, 6/8/2016 2:30:05 PM



## Well Header

|                            |                      |           |             |
|----------------------------|----------------------|-----------|-------------|
| API                        | Business Unit        | District  | Well Config |
| 05-123-19150               | DJ BASIN             | 15        | VERTICAL    |
| Original KB Elevation (ft) | KB - GL / MSL (ftKB) | Spud Date | P & A Date  |
| 4,865                      | 10.00                | 4/23/1996 |             |

Comment

Directions To Well

## Congressional Location

|           |           |           |           |         |          |              |       |             |
|-----------|-----------|-----------|-----------|---------|----------|--------------|-------|-------------|
| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 | Section | Township | Twntshp N... | Range | Rng E/W Dir |
|           |           | NE        | NE        | 4       | 2        | N            | 64    | W           |

## Bottom Hole Location

|                           |                  |                         |                  |
|---------------------------|------------------|-------------------------|------------------|
| North-South Distance (ft) | From N or S Line | East-West Distance (ft) | From E or W Line |
|                           |                  |                         |                  |

## Plug Back Total Depths

| Date      | Depth (ftKB) | Method         | Com                        |
|-----------|--------------|----------------|----------------------------|
| 5/3/1996  | 7,088.0      | CASED HOLE LOG | DEPTH LOGGER ON CBL        |
| 5/20/1996 | 7,118.0      | TAG            | CLEANED OUT TO LAND TUBING |
| 8/11/2003 | 7,040.0      | TAG            | TAG TO LAND TUBING         |

## Wellbore Sections

| Section Des | Size (in) | Act Top, MD (ftKB) | Act Btm, MD (ftKB) |
|-------------|-----------|--------------------|--------------------|
| SURFACE     | 12 1/4    | 10                 | 830                |
| PRODUCTION  | 7 7/8     | 830                | 7,169              |

## Zone Statuses

| Zone Name | Status Date | Status | Fluid Type | Job              | Prod Method |
|-----------|-------------|--------|------------|------------------|-------------|
| NIOBRARA  | 7/3/1996    | PR     |            | DRILLING/CO...   |             |
| CODELL    | 7/3/1996    | PR     |            | DRILLING/CO...   |             |
| CODELL    | 8/25/2003   | PR     |            | RE-FRAC, 8/4/... |             |

## Casing Strings

### Surface, 820.0ftKB

| Casing Description | Run Date  | OD (in) | Wt/Len (l... | Grade | Top, MD (ft... | MD (ftKB) |
|--------------------|-----------|---------|--------------|-------|----------------|-----------|
| Surface            | 4/24/1996 | 8 5/8   | 23.00        |       | 10.0           | 820.0     |

### Production, 7,156.0ftKB

| Casing Description | Run Date  | OD (in) | Wt/Len (l... | Grade | Top, MD (ft... | MD (ftKB) |
|--------------------|-----------|---------|--------------|-------|----------------|-----------|
| Production         | 4/27/1996 | 3 1/2   | 7.70         | B-70  | 10.0           | 7,156.0   |

## Cement

| Description              | Top Depth (ftKB) | Bottom Depth (ftKB) |
|--------------------------|------------------|---------------------|
| SURFACE CASING CEMENT    | 10.0             | 820.0               |
| Description              | Top Depth (ftKB) | Bottom Depth (ftKB) |
| PRODUCTION CASING CEMENT | 3,730.0          | 5,014.0             |
| Description              | Top Depth (ftKB) | Bottom Depth (ftKB) |
| PRODUCTION CASING CEMENT | 6,292.0          | 7,156.0             |

## Tubing Strings

| Tubing Description | Run Date  | String... | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Set De... |
|--------------------|-----------|-----------|---------|------------|-------|----------|-----------|
| Tubing             | 8/11/2003 | 2 3/8     | 1.995   | 4.70       | J-55  | 6,991.00 |           |

## Tubing Components

| Item Des       | OD (in) | Wt (lb/ft) | Grade | Jts | Len (ft) | Btm (ftKB) | Btm (TVD) (ftKB) |
|----------------|---------|------------|-------|-----|----------|------------|------------------|
| EUE 8rd Tubing | 2 3/8   | 4.70       | J-55  | 214 | 6,989.00 | 6,999.0    |                  |
| Seal Nipple    | 2 3/8   |            |       | 1   | 1.00     | 7,000.0    |                  |
| Notched collar | 2 3/8   |            |       | 1   | 1.00     | 7,001.0    |                  |

## Perforation Data

| Zone                    | Bnch/St g | Entered Shot Total | Top (ftKB) | Btm (ftKB) | Date      |
|-------------------------|-----------|--------------------|------------|------------|-----------|
| NIOBRARA, ORIGINAL HOLE |           | 2                  | 6,808.00   | 6,809.00   | 5/14/1996 |
| NIOBRARA, ORIGINAL HOLE |           | 15                 | 6,895.00   | 6,922.00   | 5/14/1996 |
| CODELL, ORIGINAL HOLE   |           | 20                 | 7,016.00   | 7,026.00   | 8/5/2003  |
| CODELL, ORIGINAL HOLE   |           | 9                  | 7,018.00   | 7,022.00   | 5/14/1996 |

## Stimulations & Treatments

| Date             | Zone                           | Primary Job Type               |
|------------------|--------------------------------|--------------------------------|
| 5/15/1996        | NIOBRARA-CODELL, ORIGINAL HOLE | DRILLING/COMPLETION - ORIGINAL |
| Technical Result | Tech Result Details            | Tech Result Note               |
|                  |                                |                                |

Comment

**Well Name: GUTTERSEN 1-4**

VERTICAL - ORIGINAL HOLE, 6/8/2016 2:30:08 PM

## Stimulations & Treatments

|                  |                               |                             |
|------------------|-------------------------------|-----------------------------|
| Date<br>8/6/2003 | Zone<br>CODELL, ORIGINAL HOLE | Primary Job Type<br>RE-FRAC |
| Technical Result | Tech Result Details           | Tech Result Note            |
| Comment          |                               |                             |

## Other In Hole

| Run Date | Des | OD (in) | Top (ftKB) | Btm (ftKB) |
|----------|-----|---------|------------|------------|
|          |     |         |            |            |

## Logs

| Date      | Type                | Top, MD (ftKB) | Btm, MD (ftKB) |
|-----------|---------------------|----------------|----------------|
| 4/26/1996 | COMPENSATED DENSITY | 4,250.0        | 7,200.0        |
| 4/26/1996 | INDUCTION           | 300.0          | 7,200.0        |
| 5/3/1996  | CEMENT BOND         | 3,630.0        | 7,080.0        |

