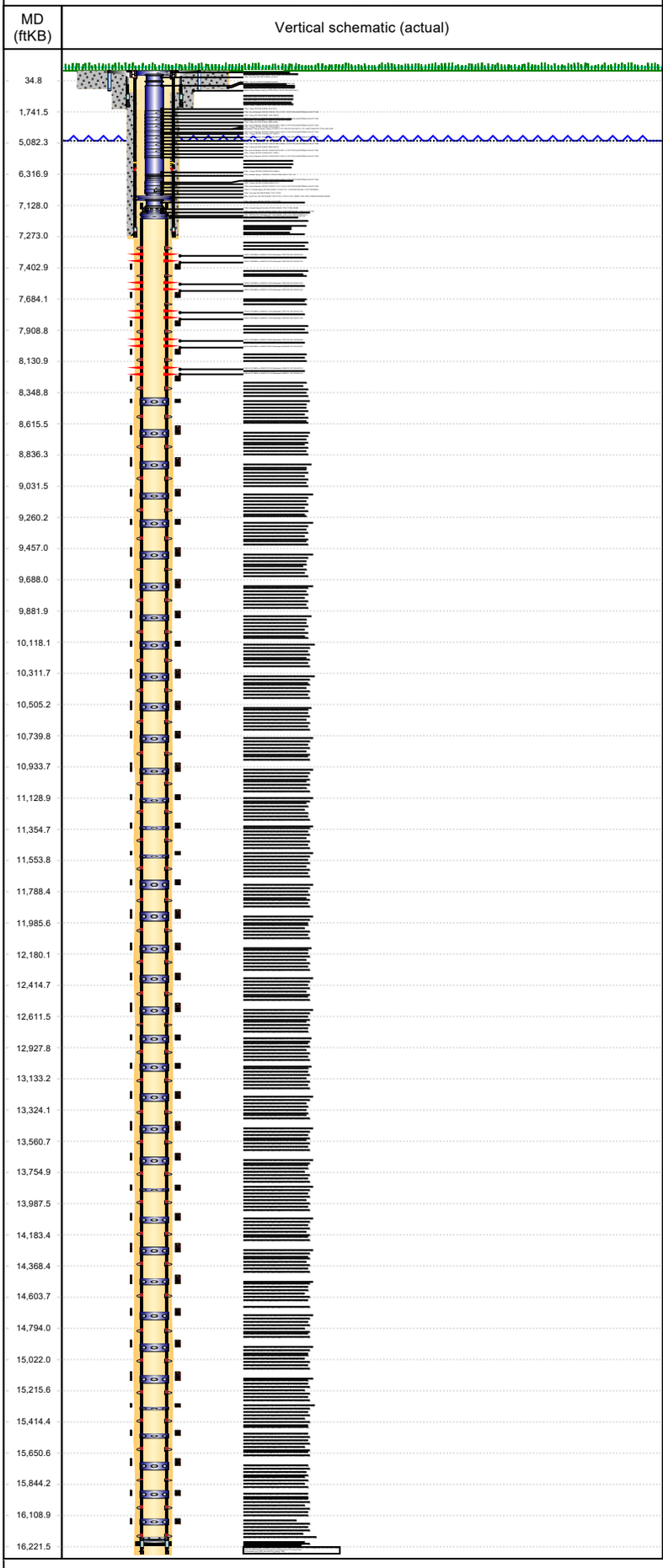
# Wellbore Schematic Input Report

**Well Name: FURROW STATE USX AB21-69-1HNL**

Original Hole [Land]




## Well Header

| Surface UWI | Asset Team | Production Tree Location |
|---|---|---|
| 0512336131 | | Land |

| Original RKB Elevation (ft) | Original KB to Ground (ft) | Original Spud Date | Abandon Date |
|---|---|---|---|
| 4,854.00 | 24.00 | 2/9/2013 | |

| Range | Well Sub-Status | High Pressure |
|---|---|---|
| | PR | N |

| Directions To Well | Latitude (°) | Longitude (°) |
|---|---|---|
| CR 80 & 55, NORTH 2 MILES, EAST 1 MILE, SOUTH 2 MILES, WEST INTO LOCATION. | 40.565475422 | -104.52726599 6 |

Comment

## Congressional Location

| Quarter 3 | Quarter 4 | Section | Township | Township N/S Dir | Range | Range E/W Dir |
|---|---|---|---|---|---|---|
| NE | NE | 22 | 7 | N | 64 | W |

## Rig Operator

Rig/Unit Supervisor: ZACH FUDGE

## Daily Cost Summary

Sum of Field Est (Cost): 0

## Wellbore Plug Back Total Depths

| Date | PBTD (ftKB) | Method | Com |
|---|---|---|---|
| 2/21/2013 | 16,221 | CASING TALLY | FLOAT COLLAR |

## Wellbore Sections

| Section Des | Hole Size (in) | Top Depth (ftKB) | Btm Depth (ftKB) |
|---|---|---|---|
| CONDUCTOR | 26 | 24.0 | 124.0 |
| SURFACE | 13 3/4 | 124.0 | 725.0 |
| INTERMEDIATE | 8 3/4 | 725.0 | 7,283.0 |
| PRODUCTION | 6 1/8 | 7,283.0 | 16,240.0 |

## Zone Statuses

| Zone Name | Status Date | Status |
|---|---|---|
| NIOBRARA | 4/15/2013 | PR |

## Casing Strings

### Conductor, Actual, 124ftKB

| Casing Description | Run Date | OD (in) | Wt/Len (lb/ft) | Grade | Top Depth (M | Set Depth (M |
|---|---|---|---|---|---|---|
| Conductor | 12/5/2012 | 16 | 42.05 | A-52A | 24 | 124 |

### Surface, Actual, 716ftKB

| Casing Description | Run Date | OD (in) | Wt/Len (lb/ft) | Grade | Top Depth (M | Set Depth (M |
|---|---|---|---|---|---|---|
| Surface | 2/10/2013 | 9 5/8 | 36.00 | J-55 | 24 | 716 |

### Intermediate Casing 1, Actual, 7273ftKB

| Casing Description | Run Date | OD (in) | Wt/Len (lb/ft) | Grade | Top Depth (M | Set Depth (M |
|---|---|---|---|---|---|---|
| Intermediate Casing 1 | 2/13/2013 | 7 | 26.00 | P-110 | 24 | 7273 |

### Production Casing, Actual, 16230ftKB

| Casing Description | Run Date | OD (in) | Wt/Len (lb/ft) | Grade | Top Depth (M | Set Depth (M |
|---|---|---|---|---|---|---|
| Production Casing | 2/21/2013 | 4 1/2 | 11.60 | P-110 | 7124.3 | 16230 |

## Cement

| Des | Start Date | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|
| Conductor Cement | 12/5/2012 | 24.0 | 124.0 |
| Surface Casing Cement | 2/10/2013 | 24.0 | 716.0 |
| Intermediate 1 Casing Cement | 2/13/2013 | 670.0 | 7,273.0 |

## Proposed Cement

| Des | Top (ftKB) | Btm (ftKB) |
|---|---|---|
| | | |

## Tubing Strings

| Tubing Description | Run Date | String Max | ID (in) | Wt (lb/ft) | Grade | Len (ft) | Set Depth |
|---|---|---|---|---|---|---|---|
| Tubing - Production | 9/19/2013 | 2 7/8 | 2.441 | 6.50 | N-80 | 7,108.98 | 6,903.8 |

## Tubing Components

| Item Des | OD (in) | Wt (lb/ft) | Grade | Jts | Len (ft) | Btm (ftKB) | Btm (TVD) (ftKB) |
|---|---|---|---|---|---|---|---|
| Mandrel | 6 | 6.50 | N-80 | 1 | 0.80 | 24.8 | 24.8 |
| Pup Joint | 2 7/8 | 6.50 | N-80 | 1 | 10.00 | 34.8 | 34.8 |
| Pup Joint | 2 7/8 | 6.50 | N-80 | 1 | 8.00 | 42.8 | 42.8 |
| Tubing | 2 7/8 | 6.50 | N-80 | 55 | 1,698.80 | 1,741.6 | 1,741.6 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 1,745.7 | 1,745.7 |
| Tubing | 2 7/8 | 6.50 | N-80 | 36 | 1,130.58 | 2,876.3 | 2,871.2 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 2,880.4 | 2,875.2 |
| Tubing | 2 7/8 | 6.50 | L-80 | 24 | 748.70 | 3,629.1 | 3,623.8 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 3,633.2 | 3,627.9 |

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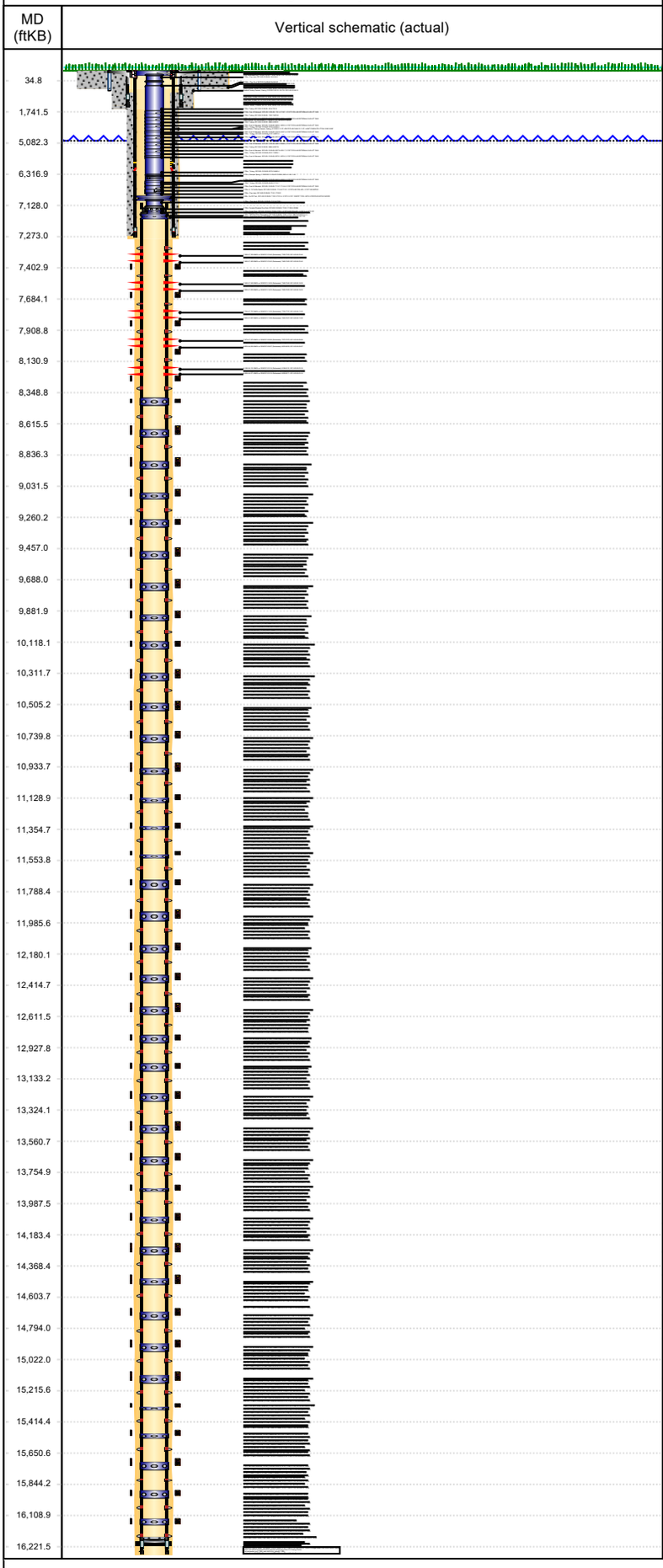


## Tubing Components

| Item Des | OD (in) | Wt (lb/ft) | Grade | Jts | Len (ft) | Btm (ftKB) | Btm (TVD) (ftKB) |
|---|---|---|---|---|---|---|---|
| Tubing | 2 7/8 | 6.50 | N-80 | 18 | 560.00 | 4,193.2 | 4,187.8 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 4,197.3 | 4,191.9 |
| Tubing | 2 7/8 | 6.50 | L-80 | 14 | 440.32 | 4,637.6 | 4,632.2 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 4,641.7 | 4,636.3 |
| Tubing | 2 7/8 | 6.50 | N-80 | 14 | 440.60 | 5,082.3 | 5,076.7 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 5,086.4 | 5,080.8 |
| Tubing | 2 7/8 | 6.50 | L-80 | 14 | 441.20 | 5,527.6 | 5,521.9 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 5,531.7 | 5,526.0 |
| Tubing | 2 7/8 | 6.50 | L-80 | 14 | 438.41 | 5,970.1 | 5,964.4 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 5,974.2 | 5,968.5 |
| Tubing | 2 7/8 | 6.50 | L-80 | 15 | 471.20 | 6,445.4 | 6,438.0 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 6,449.5 | 6,442.0 |
| Tubing | 2 7/8 | 6.50 | L-80 | 21 | 661.18 | 7,110.7 | 6,898.4 |
| Gas Lift Mandrel | 2 7/8 | 6.50 | N-80 | 1 | 4.10 | 7,114.8 | 6,899.4 |
| X / N Profile Nipple | 2 7/8 | 6.50 | N-80 | 1 | 1.30 | 7,116.1 | 6,899.8 |
| Pup Joint | 2 7/8 | 6.50 | N-80 | 1 | 4.20 | 7,120.3 | 6,900.8 |
| On-Off Tool | 5.99 | 6.50 | N-80 | 1 | 1.50 | 7,121.8 | 6,901.2 |
| Pup Joint | 2 7/8 | 6.50 | N-80 | 1 | 6.30 | 7,128.1 | 6,902.7 |
| Ceramic Rupture Disc Sub | 2 7/8 | 6.50 | N-80 | 1 | 0.79 | 7,128.9 | 6,902.9 |
| Cross Over | 2 7/8 | 6.50 | N-80 | 1 | 1.20 | 7,130.1 | 6,903.2 |
| TBR Seal Bore Receptacle | 4 3/4 | 6.50 | N-80 | 1 | 2.90 | 7,133.0 | 6,903.8 |

## Other In Hole

| Run Date | Des | Make | OD (in) | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|---|
| 11/20/2019 | Bumper Spring | | 2 7/8 | 6,317.0 | 6,320.0 |

## Proposed Other In Hole

| Des | Make | OD (in) | Top (ftKB) | Btm (ftKB) |
|---|---|---|---|---|
| | | | | |

## Logs

| Date | Type | Depth Top (MD) (ftKB) | Btm (ftKB) |
|---|---|---|---|
| 2/10/2013 | HORIZ MUD LOG | 6,236 | 16,240.0 |
| 2/11/2013 | MUD LOG | 2,000 | 6,236.0 |
| 2/19/2013 | MWD GAMMA | 725 | 16,240.0 |
| 3/2/2013 | CBL/CCL/GR | 24 | 7,127.0 |

## Perforation Data

| Linked Zone | Sum of Entered Shot Total | Top (ftKB) | Btm (ftKB) | Date |
|---|---|---|---|---|
| NIOBRARA, Original Hole | 12 | 7,320.0 | 7,322.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 7,400.0 | 7,402.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 7,540.0 | 7,542.0 | 3/29/2013 |
| NIOBRARA, Original Hole | 12 | 7,620.0 | 7,622.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 7,755.0 | 7,757.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 7,835.0 | 7,837.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 7,973.0 | 7,975.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 8,053.0 | 8,055.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 8,189.0 | 8,191.0 | 3/28/2013 |
| NIOBRARA, Original Hole | 12 | 8,269.0 | 8,271.0 | 3/28/2013 |
| **Total** | **120** | | | |

## Job Supply Amounts

| Supply Item Des | Job Supply Type | Unit La | Job Category | Total Re | Total Co | Total Re |
|---|---|---|---|---|---|---|

## Daily Cost Breakdown by Category

| Field Est (Cost) | Description | Note |
|---|---|---|