



P&A Wellbore For State

Well Name: HOWARD USX A09-13

| | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| Land, Original Hole, 8/28/2023 1:45:06 PM | | Vertical schematic (actual) | | | | | | | | | |
| MD (ftKB) | | | | | | | | | | | |
| -650.7 | | | | | | | | | | | |
| -458.7 | | | | | | | | | | | |
| -458.2 | | | | | | | | | | | |
| -457.7 | | | | | | | | | | | |
| -446.4 | | | | | | | | | | | |
| -435.0 | | | | | | | | | | | |
| -434.5 | | | | | | | | | | | |
| -434.1 | | | | | | | | | | | |
| -432.7 | | | | | | | | | | | |
| -431.4 | | | | | | | | | | | |
| -276.9 | | | | | | | | | | | |
| -122.4 | | | | | | | | | | | |
| -61.2 | | | | | | | | | | | |
| 0.0 | | | | | | | | | | | |
| 6.1 | | | | | | | | | | | |
| 12.1 | | | | | | | | | | | |
| 271.8 | | SURFACE CASING CEMENT; 12-533; 12/26/2006 | | | | | | | | | |
| 531.5 | | | | | | | | | | | |
| 532.3 | | | | | | | | | | | |
| 533.1 | | | | | | | | | | | |
| 548.1 | | | | | | | | | | | |
| 563.0 | | | | | | | | | | | |
| 648.0 | | | | | | | | | | | |
| 732.9 | | | | | | | | | | | |
| 1,456.5 | | | | | | | | | | | |
| 2,180.1 | | | | | | | | | | | |
| 2,301.0 | | | | | | | | | | | |
| 2,421.9 | | | | | | | | | | | |
| 2,471.9 | | | | | | | | | | | |
| 2,522.0 | | | | | | | | | | | |
| 2,523.0 | | | | | | | | | | | |
| 2,524.0 | | | | | | | | | | | |
| 4,590.6 | | PRODUCTION CASING CEMENT; 2180-7196; 12/31/2006 | | | | | | | | | |
| 6,657.2 | | | | | | | | | | | |
| 6,671.1 | | | | | | | | | | | |
| 6,685.0 | | | | | | | | | | | |
| 6,709.0 | | | | | | | | | | | |
| 6,732.9 | | | | | | | | | | | |
| 6,739.5 | | Set 1; 6733-6746; 2/12/2007; Perf | | | | | | | | | |
| 6,746.1 | | | | | | | | | | | |
| 6,805.0 | | | | | | | | | | | |
| 6,863.8 | | | | | | | | | | | |
| 6,869.9 | | Set 1; 6864-6876; 2/12/2007; Perf | | | | | | | | | |
| 6,876.0 | | | | | | | | | | | |
| 6,957.5 | | | | | | | | | | | |
| 7,039.0 | | | | | | | | | | | |
| 7,046.1 | | Set 1; 7039-7053; 1/15/2007; Perf | | | | | | | | | |
| 7,053.1 | | | | | | | | | | | |
| 7,091.0 | | | | | | | | | | | |
| 7,128.9 | | | | | | | | | | | |
| 7,148.5 | | | | | | | | | | | |
| 7,168.0 | | PRODUCTION CASING CEMENT (plug); 7168-7196; 12/31/2006 | | | | | | | | | |
| 7,180.9 | | | | | | | | | | | |
| 7,193.9 | | | | | | | | | | | |
| 7,194.2 | | | | | | | | | | | |
| 7,194.6 | | | | | | | | | | | |
| 7,195.2 | | | | | | | | | | | |
| 7,195.9 | | | | | | | | | | | |
| 7,208.5 | | | | | | | | | | | |
| 7,221.1 | | | | | | | | | | | |
| 7,413.1 | | | | | | | | | | | |

| Well Header | | | | | | | | | | |
|---|-------------|----------------------------------|--------------------------|---------------------|-------------|--|----------------------------------|---------------------------------|-----------------------|------------|
| Surface UWI 0512324494 | | | Business Unit Rockies | | | Gov Auth Dist | | Prod Tree Loc Land | | |
| Orig. KB to Gnd (ft) 12.00 | | Original Spud Date 12/26/2006 | | Abandon Date | | Well Sub-Status PR | | | High... N | |
| Comment PUSH FP TO 7129 | | | | | | | | | | |
| DISCREPANCY IN TD DATE: 12/31/06 IN DRL RPT, 12/29/06 ST & CSG TALLY, USED CSG TALLY DATE FOR TD DATE | | | | | | | | | | |
| Surface Location (Congressional) | | | | | | | | | | |
| Qtr 3 SW | Qtr 4 SW | Section 9 | Twnshp 6 | Twنش... N | Range 64 | Rng E/... W | Latitude (°) 40.49508723 6 | Longitude (°) -104.562061969 | | |
| Wellbore Sections | | | | | | | | | | |
| Section Des | | | Hole Size (in) | | | Act Top (ftKB) | | Act Btm (ftKB) | | |
| SURFACE | | | 12 1/4 | | | 12.0 | | 563.0 | | |
| PRODUCTION | | | 7 7/8 | | | 563.0 | | 7,221.0 | | |
| Casing Strings | | | | | | | | | | |
| Csg Des | | | Run Date | | OD (in) | Wt/Len (lb/ft) | Grade | Top Depth (MD) (ftKB) | Set Depth (MD) (ftKB) | |
| Surface | | | 12/26/2006 | | 8 5/8 | 24.00 | J-55 | 12 | 533 | |
| Production Casing | | | 12/30/2006 | | 4 1/2 | 11.60 | M-80 | 12 | 7196 | |
| Cement | | | | | | | | | | |
| Des | | | | | Start Date | | Top (ftKB) | | Btm (ftKB) | |
| SURFACE CASING CEMENT | | | | | 12/26/2006 | | 12.0 | | 533.0 | |
| PRODUCTION CASING CEMENT | | | | | 12/31/2006 | | 2,180.0 | | 7,196.0 | |
| Zone Statuses | | | | | | | | | | |
| Zone Name | | Status Date | Status | Fluid Type | | Job | | | Prod Method | |
| CODELL | | 2/15/2007 | PR | | | DRILLING/COMPLETION - ORIGINAL, 12/26/200... | | | | |
| NIOBRARA | | 2/15/2007 | PR | | | DRILLING/COMPLETION - ORIGINAL, 12/26/200... | | | | |
| Perforation Data | | | | | | | | | | |
| Linked Zone | | | Explosive Type | Entered Shot Total | | Top (ftKB) | | Btm (ftKB) | Date | |
| NIOBRARA, Original Hole | | | | 78 | | 6,733.0 | | 6,746.0 | 2/12/2007 | |
| NIOBRARA, Original Hole | | | | 72 | | 6,864.0 | | 6,876.0 | 2/12/2007 | |
| CODELL, Original Hole | | | | 56 | | 7,039.0 | | 7,053.0 | 1/15/2007 | |
| Stimulation Intervals | | | | | | | | | | |
| Zone | | | | Start Date | | Top (ftKB) | | Btm (ftKB) | | |
| NIOBRARA, Original Hole | | | | 2/12/2007 | | 6,733.0 | | 6,876.0 | | |
| CODELL, Original Hole | | | | 2/12/2007 | | 7,039.0 | | 7,053.0 | | |
| Other In Hole | | | | | | | | | | |
| Run Date | | Des | | | | Make | | OD (in) | Top (ftKB) | Btm (ftKB) |
| | | | | | | | | | | |
| Logs | | | | | | | | | | |
| Date | | Type | | | | | Depth Top (MD) (ftKB) | | Btm (ftKB) | |
| 12/31/2006 | | COMPENSATED DENSITY | | | | | 2,700 | | 7,183.0 | |
| 12/31/2006 | | INDUCTION | | | | | 548 | | 7,203.0 | |
| 1/9/2007 | | CEMENT BOND | | | | | 2,030 | | 7,166.0 | |
| 1/23/2019 | | GYRO | | | | | 12 | | 6,900.0 | |
| Plug Back Total Depths | | | | | | | | | | |
| Date | | Type | | Com | | | | | PBTD (ftKB) | |
| 1/9/2007 | | FILL | | DEPTH LOGGER ON CBL | | | | | 7,168 | |
| 3/19/2007 | | PLUG REMNANTS | | MOST RECENT TAG | | | | | 7,129 | |