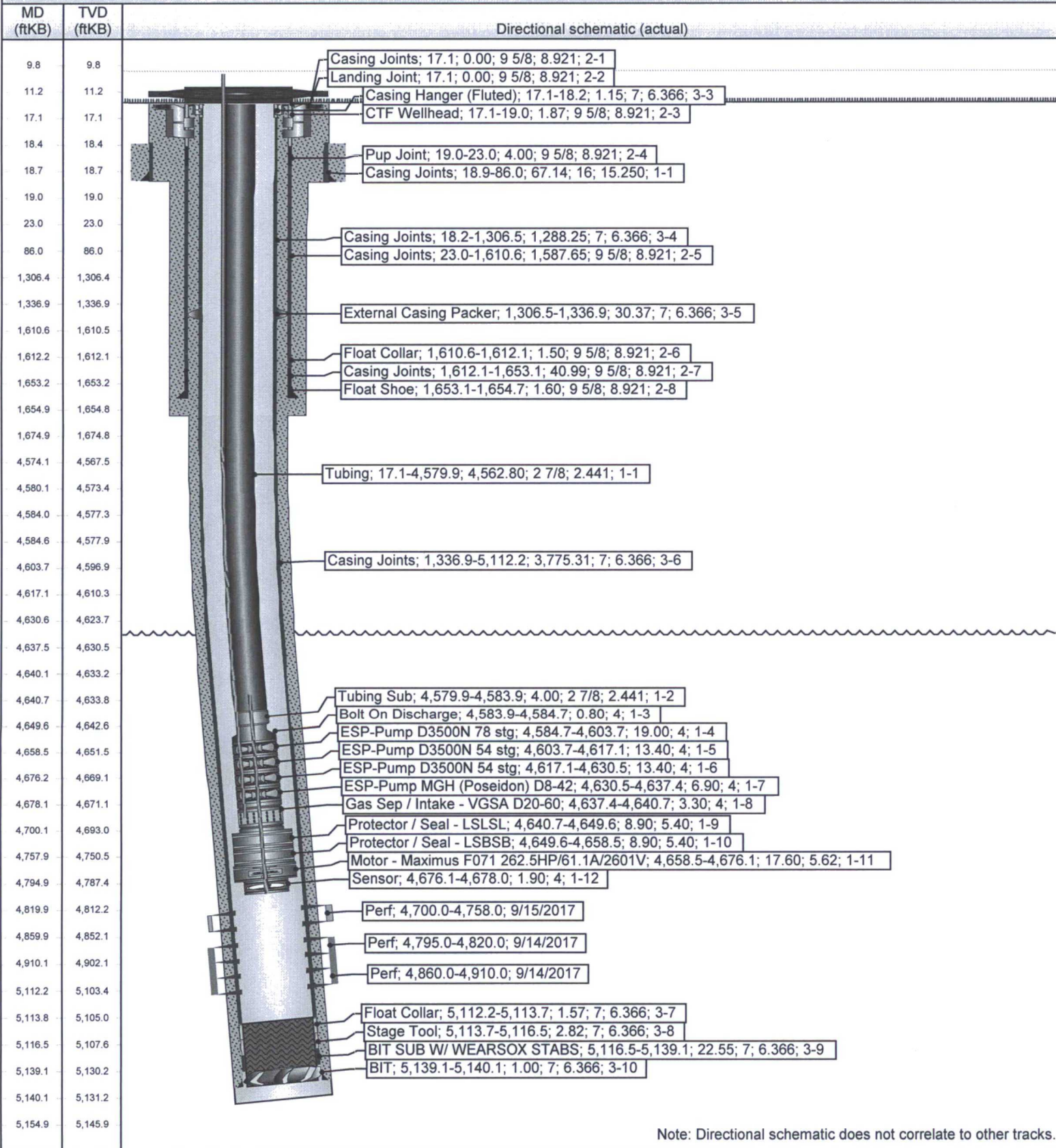


|                                  |                                         |                                     |                            |                                       |
|----------------------------------|-----------------------------------------|-------------------------------------|----------------------------|---------------------------------------|
| District<br>PERMIAN CONVENTIONAL | Field Name<br>VACUUM                    | API / UWI<br>3002542119             | County<br>LEA              | State/Province<br>NEW MEXICO          |
| Original Spud Date<br>7/20/2017  | Surface Legal Location<br>027-017S-035E | East/West Distance (ft)<br>1,452.00 | East/West Reference<br>FWL | North/South Distance (ft)<br>1,736.00 |
|                                  |                                         |                                     |                            | North/South Reference<br>FSL          |

VERTICAL - Original Hole, 12/12/2017 11:12:58 AM



Note: Directional schematic does not correlate to other tracks.

Company: CONOCO PHILLIPS  
 Lease/Well: EAST VACUUM (GSA) UNIT /#526  
 API: 30-025-42119  
 Rig Name: PRODUCTION  
 State/County: NEW MEXICO/LEA  
 VS-Azi: 0.00 Degrees  
 Latitude: 32.80319, Longitude: -103.44883  
 Grid North = True North -0.48 degs (NAD 27)  
 Grid Correction Applied = -0.48 degs

**HOBBS OCD**

**JAN 29 2018**

**RECEIVED**



FIELD COPY ONLY (NOT DEFINITIVE)

Depth Reference : GROUND LEVEL  
 DRILLOG MS GYRO SURVEY CALCULATIONS  
 Error Model: VESSI\_GYROFLEX\_SLICKLINE.IPM

| Measured<br>Depth<br>FT | Incl<br>Angle<br>Deg | Drift<br>Direction<br>Deg | TVD<br>FT | N/-S<br>FT | E/-W<br>FT | Vertical<br>Section<br>FT | Closure<br>Distance<br>FT | Closure<br>Direction<br>Deg | Dogleg<br>Severity<br>Deg/100 |
|-------------------------|----------------------|---------------------------|-----------|------------|------------|---------------------------|---------------------------|-----------------------------|-------------------------------|
| 0.00                    | 0.00                 | 0.00                      | 0.00      | 0.00       | 0.00       | 0.00                      | 0.00                      | 0.00                        | ****                          |
| 100.00                  | 0.88                 | 199.48                    | 100.00    | -0.72      | -0.26      | -0.72                     | 0.77                      | 199.48                      | 0.88                          |
| 200.00                  | 0.85                 | 188.63                    | 199.98    | -2.18      | -0.62      | -2.18                     | 2.27                      | 195.93                      | 0.17                          |
| 300.00                  | 0.70                 | 189.17                    | 299.98    | -3.52      | -0.83      | -3.52                     | 3.62                      | 193.29                      | 0.15                          |
| 400.00                  | 0.71                 | 193.55                    | 399.97    | -4.73      | -1.07      | -4.73                     | 4.85                      | 192.80                      | 0.05                          |
| 500.00                  | 0.58                 | 190.47                    | 499.96    | -5.83      | -1.31      | -5.83                     | 5.97                      | 192.69                      | 0.14                          |
| 600.00                  | 0.49                 | 176.03                    | 599.96    | -6.75      | -1.37      | -6.75                     | 6.88                      | 191.51                      | 0.16                          |
| 700.00                  | 0.36                 | 222.81                    | 699.95    | -7.40      | -1.56      | -7.40                     | 7.56                      | 191.88                      | 0.36                          |
| 800.00                  | 0.44                 | 162.85                    | 799.95    | -8.00      | -1.66      | -8.00                     | 8.17                      | 191.71                      | 0.40                          |
| 900.00                  | 0.26                 | 139.72                    | 899.95    | -8.53      | -1.40      | -8.53                     | 8.65                      | 189.30                      | 0.22                          |
| 1000.00                 | 0.19                 | 248.82                    | 999.95    | -8.77      | -1.41      | -8.77                     | 8.88                      | 189.11                      | 0.37                          |
| 1100.00                 | 0.43                 | 194.23                    | 1099.95   | -9.20      | -1.66      | -9.20                     | 9.34                      | 190.21                      | 0.36                          |
| 1200.00                 | 0.41                 | 174.92                    | 1199.95   | -9.92      | -1.72      | -9.92                     | 10.07                     | 189.82                      | 0.14                          |
| 1300.00                 | 0.31                 | 165.86                    | 1299.94   | -10.55     | -1.62      | -10.55                    | 10.67                     | 188.73                      | 0.12                          |
| 1400.00                 | 0.55                 | 154.93                    | 1399.94   | -11.24     | -1.35      | -11.24                    | 11.32                     | 186.85                      | 0.25                          |
| 1500.00                 | 0.41                 | 138.20                    | 1499.94   | -11.94     | -0.91      | -11.94                    | 11.97                     | 184.37                      | 0.20                          |
| 1600.00                 | 0.30                 | 111.04                    | 1599.94   | -12.29     | -0.44      | -12.29                    | 12.30                     | 182.03                      | 0.20                          |
| 1700.00                 | 0.43                 | 112.56                    | 1699.93   | -12.53     | 0.15       | -12.53                    | 12.53                     | 179.31                      | 0.13                          |
| 1800.00                 | 0.84                 | 100.95                    | 1799.93   | -12.81     | 1.22       | -12.81                    | 12.87                     | 174.58                      | 0.43                          |
| 1900.00                 | 2.84                 | 111.10                    | 1899.87   | -13.85     | 4.25       | -13.85                    | 14.48                     | 162.94                      | 2.02                          |
| 2000.00                 | 3.27                 | 112.17                    | 1999.73   | -15.82     | 9.20       | -15.82                    | 18.30                     | 149.80                      | 0.43                          |
| 2100.00                 | 3.41                 | 111.64                    | 2099.56   | -17.99     | 14.61      | -17.99                    | 23.17                     | 140.92                      | 0.14                          |
| 2200.00                 | 3.53                 | 111.73                    | 2199.38   | -20.22     | 20.23      | -20.22                    | 28.60                     | 134.99                      | 0.12                          |

|         |      |        |         |        |        |        |        |        |      |
|---------|------|--------|---------|--------|--------|--------|--------|--------|------|
| 2300.00 | 3.21 | 111.62 | 2299.20 | -22.39 | 25.69  | -22.39 | 34.08  | 131.08 | 0.32 |
| 2400.00 | 2.85 | 110.90 | 2399.06 | -24.31 | 30.61  | -24.31 | 39.09  | 128.46 | 0.36 |
| 2500.00 | 3.53 | 100.14 | 2498.91 | -25.74 | 35.96  | -25.74 | 44.23  | 125.59 | 0.90 |
| 2600.00 | 3.96 | 88.12  | 2598.70 | -26.17 | 42.44  | -26.17 | 49.86  | 121.66 | 0.90 |
| 2700.00 | 4.30 | 88.53  | 2698.44 | -25.96 | 49.65  | -25.96 | 56.02  | 117.60 | 0.34 |
| 2800.00 | 3.70 | 85.00  | 2798.19 | -25.58 | 56.61  | -25.58 | 62.12  | 114.32 | 0.65 |
| 2900.00 | 3.16 | 84.01  | 2898.01 | -25.01 | 62.56  | -25.01 | 67.37  | 111.79 | 0.55 |
| 3000.00 | 3.06 | 82.20  | 2997.87 | -24.36 | 67.94  | -24.36 | 72.18  | 109.73 | 0.14 |
| 3100.00 | 3.05 | 84.36  | 3097.72 | -23.74 | 73.23  | -23.74 | 76.98  | 107.96 | 0.12 |
| 3200.00 | 2.87 | 90.37  | 3197.59 | -23.49 | 78.38  | -23.49 | 81.82  | 106.69 | 0.36 |
| 3300.00 | 2.87 | 87.50  | 3297.47 | -23.40 | 83.38  | -23.40 | 86.60  | 105.68 | 0.14 |
| 3400.00 | 3.79 | 89.44  | 3397.30 | -23.26 | 89.18  | -23.26 | 92.17  | 104.62 | 0.93 |
| 3500.00 | 4.19 | 93.36  | 3497.05 | -23.44 | 96.14  | -23.44 | 98.96  | 103.70 | 0.48 |
| 3600.00 | 3.40 | 93.39  | 3596.83 | -23.83 | 102.75 | -23.83 | 105.48 | 103.06 | 0.79 |
| 3700.00 | 2.63 | 90.39  | 3696.69 | -24.02 | 108.01 | -24.02 | 110.65 | 102.54 | 0.79 |
| 3800.00 | 3.38 | 101.55 | 3796.56 | -24.63 | 113.19 | -24.63 | 115.84 | 102.28 | 0.95 |
| 3900.00 | 4.28 | 102.96 | 3896.33 | -26.06 | 119.72 | -26.06 | 122.52 | 102.28 | 0.90 |
| 4000.00 | 5.20 | 101.95 | 3995.99 | -27.83 | 127.78 | -27.83 | 130.78 | 102.29 | 0.93 |
| 4100.00 | 5.24 | 101.36 | 4095.58 | -29.67 | 136.69 | -29.67 | 139.87 | 102.25 | 0.07 |
| 4200.00 | 5.07 | 103.71 | 4195.17 | -31.61 | 145.47 | -31.61 | 148.86 | 102.26 | 0.27 |
| 4300.00 | 4.94 | 103.03 | 4294.79 | -33.63 | 153.95 | -33.63 | 157.58 | 102.32 | 0.15 |
| 4400.00 | 4.72 | 99.39  | 4394.43 | -35.27 | 162.20 | -35.27 | 165.99 | 102.27 | 0.38 |
| 4500.00 | 4.83 | 100.09 | 4494.09 | -36.68 | 170.40 | -36.68 | 174.31 | 102.15 | 0.12 |
| 4600.00 | 4.82 | 100.75 | 4593.73 | -38.20 | 178.68 | -38.20 | 182.71 | 102.07 | 0.06 |
| 4700.00 | 5.00 | 97.85  | 4693.37 | -39.58 | 187.12 | -39.58 | 191.26 | 101.94 | 0.30 |
| 4800.00 | 5.03 | 99.44  | 4792.98 | -40.89 | 195.75 | -40.89 | 199.98 | 101.80 | 0.14 |
| 4900.00 | 5.01 | 99.26  | 4892.60 | -42.32 | 204.39 | -42.32 | 208.72 | 101.70 | 0.02 |
| 5000.00 | 5.04 | 102.04 | 4992.22 | -43.94 | 213.00 | -43.94 | 217.48 | 101.66 | 0.24 |
| 5100.00 | 4.80 | 91.24  | 5091.85 | -44.94 | 221.47 | -44.94 | 225.99 | 101.47 | 0.95 |

HORIZONTAL DISPLACEMENT IS  
225.99 FEET AT 101.47 DEGREES