

Company: CONOCO PHILLIPS CO  
 Lease/Well: EAST VACUUM GBSA UNIT/3202-514  
 API: 30-025-43734  
 Rig Name: PRODUCTION  
 State/County: NEW MEXICO/LEA  
 VS-Azi: 0.00 Degrees  
 Latitude: 32.79009, Longitude: -103.46981  
 Grid North = True North -0.47 degs (NAD 27)  
 Grid Correction Applied = -0.47 degs



FIELD COPY ONLY (NOT DEFINITIVE)

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

| <u>Measured</u> | <u>Incl</u>  | <u>Drift</u>     |            |            |            | <u>Vertical</u> | <u>Closure</u>  | <u>Closure</u>   | <u>Dogleg</u>   |
|-----------------|--------------|------------------|------------|------------|------------|-----------------|-----------------|------------------|-----------------|
| <u>Depth</u>    | <u>Angle</u> | <u>Direction</u> | <u>TVD</u> | <u>N/S</u> | <u>E/W</u> | <u>Section</u>  | <u>Distance</u> | <u>Direction</u> | <u>Severity</u> |
| <u>FT</u>       | <u>Deg</u>   | <u>Deg</u>       | <u>FT</u>  | <u>FT</u>  | <u>FT</u>  | <u>FT</u>       | <u>FT</u>       | <u>Deg</u>       | <u>Deg/100</u>  |
| 0.00            | 0.00         | 0.00             | 0.00       | 0.00       | 0.00       | 0.00            | 0.00            | 0.00             | ****            |
| 100.00          | 0.20         | 167.43           | 100.00     | -0.17      | 0.04       | -0.17           | 0.17            | 167.43           | 0.20            |
| 200.00          | 0.23         | 199.62           | 200.00     | -0.52      | 0.01       | -0.52           | 0.52            | 179.20           | 0.12            |
| 300.00          | 0.64         | 243.04           | 300.00     | -0.96      | -0.56      | -0.96           | 1.11            | 210.12           | 0.50            |
| 400.00          | 0.97         | 261.40           | 399.99     | -1.34      | -1.90      | -1.34           | 2.32            | 234.73           | 0.42            |
| 500.00          | 0.93         | 235.87           | 499.97     | -1.93      | -3.41      | -1.93           | 3.92            | 240.56           | 0.42            |
| 600.00          | 0.95         | 246.92           | 599.96     | -2.71      | -4.85      | -2.71           | 5.55            | 240.82           | 0.18            |
| 700.00          | 0.94         | 232.14           | 699.95     | -3.54      | -6.25      | -3.54           | 7.18            | 240.53           | 0.24            |
| 800.00          | 0.86         | 224.96           | 799.93     | -4.57      | -7.43      | -4.57           | 8.73            | 238.42           | 0.14            |
| 900.00          | 0.88         | 205.11           | 899.92     | -5.79      | -8.29      | -5.79           | 10.11           | 235.05           | 0.30            |
| 1000.00         | 0.47         | 197.40           | 999.92     | -6.88      | -8.74      | -6.88           | 11.12           | 231.78           | 0.41            |
| 1100.00         | 0.41         | 193.55           | 1099.91    | -7.62      | -8.94      | -7.62           | 11.75           | 229.57           | 0.07            |
| 1200.00         | 0.34         | 162.55           | 1199.91    | -8.24      | -8.94      | -8.24           | 12.16           | 227.31           | 0.21            |
| 1300.00         | 0.49         | 114.50           | 1299.91    | -8.70      | -8.46      | -8.70           | 12.14           | 224.20           | 0.36            |
| 1400.00         | 0.43         | 214.13           | 1399.91    | -9.18      | -8.28      | -9.18           | 12.37           | 222.05           | 0.70            |
| 1500.00         | 0.84         | 274.87           | 1499.90    | -9.43      | -9.23      | -9.43           | 13.19           | 224.37           | 0.74            |
| 1600.00         | 1.31         | 312.38           | 1599.88    | -8.60      | -10.80     | -8.60           | 13.81           | 231.47           | 0.82            |
| 1700.00         | 2.22         | 320.43           | 1699.84    | -6.34      | -12.87     | -6.34           | 14.35           | 243.78           | 0.94            |
| 1800.00         | 4.72         | 325.47           | 1799.65    | -1.46      | -16.44     | -1.46           | 16.50           | 264.93           | 2.52            |
| 1900.00         | 6.36         | 330.46           | 1899.17    | 6.75       | -21.50     | 6.75            | 22.54           | 287.43           | 1.71            |
| 2000.00         | 8.30         | 326.53           | 1998.35    | 17.59      | -28.22     | 17.59           | 33.25           | 301.94           | 2.00            |
| 2100.00         | 10.07        | 320.98           | 2097.07    | 30.41      | -37.70     | 30.41           | 48.44           | 308.89           | 1.97            |
| 2200.00         | 12.34        | 311.36           | 2195.17    | 44.26      | -51.23     | 44.26           | 67.70           | 310.83           | 2.94            |

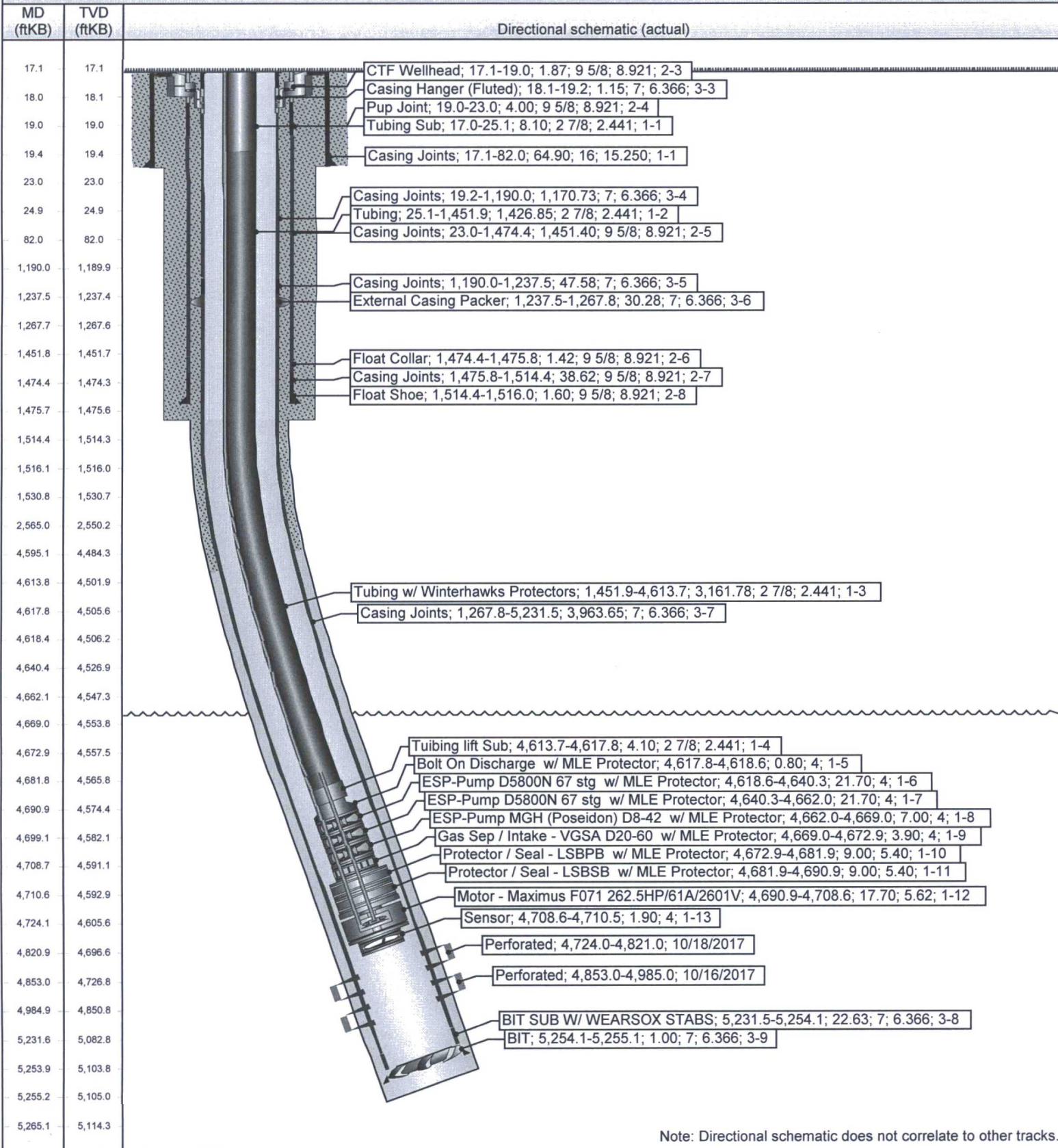
|                |       |        |         |                                    |                                      |        |        |        |      |
|----------------|-------|--------|---------|------------------------------------|--------------------------------------|--------|--------|--------|------|
| 2300.00        | 13.05 | 304.56 | 2292.73 | <sup>n/s</sup><br><del>57.73</del> | <sup>ΣPAW</sup><br><del>-68.54</del> | 57.73  | 89.61  | 310.10 | 1.65 |
| 2400.00        | 13.54 | 299.54 | 2390.05 | 69.90                              | -88.03                               | 69.90  | 112.40 | 308.45 | 1.26 |
| 2500.00        | 14.04 | 295.13 | 2487.17 | 80.82                              | -109.19                              | 80.82  | 135.85 | 306.51 | 1.16 |
| 2600.00        | 14.45 | 292.30 | 2584.10 | 90.71                              | -131.71                              | 90.71  | 159.93 | 304.55 | 0.81 |
| 2700.00        | 14.74 | 289.59 | 2680.87 | 99.71                              | -155.24                              | 99.71  | 184.50 | 302.71 | 0.74 |
| 2800.00        | 14.52 | 288.71 | 2777.63 | 108.00                             | -179.10                              | 108.00 | 209.14 | 301.09 | 0.32 |
| 2900.00        | 13.85 | 286.51 | 2874.58 | 115.42                             | -202.45                              | 115.42 | 233.04 | 299.69 | 0.86 |
| 3000.00        | 13.08 | 285.09 | 2971.83 | 121.77                             | -224.86                              | 121.77 | 255.71 | 298.44 | 0.84 |
| 3100.00        | 13.72 | 281.98 | 3069.11 | 127.18                             | -247.39                              | 127.18 | 278.17 | 297.21 | 0.96 |
| 3200.00        | 15.90 | 277.98 | 3165.78 | 131.55                             | -272.56                              | 131.55 | 302.64 | 295.76 | 2.41 |
| 3300.00        | 17.15 | 275.11 | 3261.65 | 134.76                             | -300.81                              | 134.76 | 329.62 | 294.13 | 1.50 |
| 3400.00        | 17.99 | 274.30 | 3356.98 | 137.23                             | -330.90                              | 137.23 | 358.22 | 292.52 | 0.87 |
| 3500.00        | 18.42 | 276.48 | 3451.98 | 140.17                             | -361.99                              | 140.17 | 388.18 | 291.17 | 0.81 |
| 3600.00        | 17.84 | 277.21 | 3547.02 | 143.87                             | -392.89                              | 143.87 | 418.40 | 290.11 | 0.62 |
| 3700.00        | 18.59 | 275.41 | 3642.00 | 147.30                             | -423.96                              | 147.30 | 448.82 | 289.16 | 0.94 |
| 3800.00        | 19.35 | 274.07 | 3736.57 | 149.98                             | -456.36                              | 149.98 | 480.37 | 288.19 | 0.87 |
| 3900.00        | 19.56 | 276.63 | 3830.86 | 153.09                             | -489.51                              | 153.09 | 512.89 | 287.37 | 0.88 |
| 4000.00        | 19.60 | 274.58 | 3925.08 | 156.36                             | -522.87                              | 156.36 | 545.74 | 286.65 | 0.69 |
| 4100.00        | 19.56 | 276.17 | 4019.30 | 159.50                             | -556.23                              | 159.50 | 578.65 | 286.00 | 0.54 |
| 4200.00        | 19.76 | 278.72 | 4113.47 | 163.86                             | -589.58                              | 163.86 | 611.93 | 285.53 | 0.88 |
| 4300.00        | 19.65 | 281.08 | 4207.62 | 169.65                             | -622.78                              | 169.65 | 645.48 | 285.24 | 0.80 |
| 4400.00        | 19.07 | 283.20 | 4301.96 | 176.61                             | -655.18                              | 176.61 | 678.57 | 285.09 | 0.91 |
| 4500.00        | 18.90 | 286.16 | 4396.53 | 184.85                             | -686.64                              | 184.85 | 711.09 | 285.07 | 0.98 |
| 4600.00        | 18.96 | 289.08 | 4491.12 | 194.66                             | -717.55                              | 194.66 | 743.48 | 285.18 | 0.95 |
| <u>4700.00</u> | 18.95 | 292.08 | 4585.71 | 206.08                             | -747.94                              | 206.08 | 775.81 | 285.40 | 0.97 |
| 4800.00        | 19.02 | 295.06 | 4680.27 | 219.08                             | -777.75                              | 219.08 | 808.02 | 285.73 | 0.97 |
| 4900.00        | 19.32 | 297.86 | 4774.72 | 233.71                             | -807.14                              | 233.71 | 840.30 | 286.15 | 0.97 |
| 5000.00        | 19.37 | 300.72 | 4869.08 | 249.92                             | -836.02                              | 249.92 | 872.58 | 286.64 | 0.95 |
| 5100.00        | 19.25 | 303.59 | 4963.46 | 267.51                             | -864.01                              | 267.51 | 904.48 | 287.20 | 0.96 |
| 5200.00        | 19.16 | 306.60 | 5057.89 | 286.42                             | -890.92                              | 286.42 | 935.83 | 287.82 | 0.99 |

**HORIZONTAL DISPLACEMENT IS  
935.83 FEET AT 287.82 DEGREES**



|                                  |                                         |                                   |                            |                                       |
|----------------------------------|-----------------------------------------|-----------------------------------|----------------------------|---------------------------------------|
| District<br>PERMIAN CONVENTIONAL | Field Name<br>VACUUM                    | API / UWI<br>3002543734           | County<br>LEA              | State/Province<br>NEW MEXICO          |
| Original Spud Date<br>8/31/2017  | Surface Legal Location<br>033-017S-035E | East/West Distance (ft)<br>488.00 | East/West Reference<br>FWL | North/South Distance (ft)<br>2,180.00 |
| North/South Reference<br>FSL     |                                         |                                   |                            |                                       |

DEVIATED - Original Hole, 1/31/2018 11:46:21 AM



Note: Directional schematic does not correlate to other tracks.