

## Results of Directional Survey

|             |                     |           |                                            |
|-------------|---------------------|-----------|--------------------------------------------|
| API number: | <b>30-025-41146</b> |           |                                            |
| OGRID:      |                     | Operator: | <b>DEVON ENERGY PRODUCTION COMPANY, LP</b> |
|             |                     | Property: | <b>TAYLOR DRAW 7 FEDERAL</b> # 1H          |

|         |        |   |    |          |         |
|---------|--------|---|----|----------|---------|
| surface | ULSTR: | I | 07 | T 19S    | R 32E   |
|         |        |   |    | 1650 FSL | 260 FEL |

|        |        |        |     |          |          |
|--------|--------|--------|-----|----------|----------|
| BH Loc | ULSTR: | L      | 07  | T 19S    | R 32E    |
| 13790  | MD     | 9173.3 | TVD | 1994 FSL | 253 FWL  |
|        |        |        |     |          | 5027 FEL |

|             |        |        |     |          |         |
|-------------|--------|--------|-----|----------|---------|
| Top Perf/OH | ULSTR: | I      | 07  | T 19S    | R 32E   |
| 9648        | MD     | 9301.0 | TVD | 1766 FSL | 894 FEL |

|             |        |        |     |          |          |
|-------------|--------|--------|-----|----------|----------|
| Bot Perf/OH | ULSTR: | L      | 07  | T 19S    | R 32E    |
| 13700       | MD     | 9178.2 | TVD | 1989 FSL | 343 FWL  |
|             |        |        |     |          | 4937 FEL |

|              |       |        |          |         |
|--------------|-------|--------|----------|---------|
|              | MD    | N/S    | E/W      | VD      |
|              | 9632  | 115.65 | -618.48  | 9298.93 |
| TOP PERFS/OH | 9648  | 116.43 | -634.33  | 9300.98 |
|              | 9663  | 117.17 | -649.19  | 9302.91 |
|              | 13667 | 336.96 | -4644.13 | 9180.04 |
| BOT PERFS/OH | 13700 | 338.85 | -4677.03 | 9178.23 |
|              | 13790 | 344.01 | -4766.75 | 9173.30 |

|              |       |        |          |         |
|--------------|-------|--------|----------|---------|
| NEXT TO LAST | 13667 | 336.96 | -4644.13 | 9180.04 |
| LAST READING | 13790 | 344.01 | -4766.75 | 9173.30 |
| TD           | 13790 | 344.01 | -4766.75 | 9173.30 |

|                  |      |    |      |    |
|------------------|------|----|------|----|
| Surface Location | 1650 | FS | 260  | FE |
| Projected BHL    | 1994 | FS | 5027 | FE |
| Location of      |      |    |      |    |
| Top Perfs/OH     | 1766 | FS | 894  | FE |
| Bottom Perfs/OH  | 1989 | FS | 4937 | FE |

### SUMMARY of Subsurface Locations

|                  |              |      |    |      |    |             |
|------------------|--------------|------|----|------|----|-------------|
| Surface Location | I-07-19S-32E | 1650 | FS | 260  | FE | Vert. Depth |
| Top Perfs/OH     | I-07-19S-32E | 1766 | FS | 894  | FE | 9300.98     |
| Bottom Perfs/OH  | L-07-19S-32E | 1989 | FS | 4937 | FE | 9178.23     |
| Projected TD     | L-07-19S-32E | 1994 | FS | 5027 | FE | 9173.30     |

SEP 05 2014

HOBBS OCD

AUG 21 2014

RECEIVED

Job# 900826141  
HP 223

## Devon

Lea County, NM (NAD 83) Taylor Draw Sec. 7  
API# 30-025-41146

Taylor Draw "7" FED 1H (1650' FSL & 200' FEL)

Wellbore #1

Design: Wellbore #1

# Sperry Drilling Services Combo Report

19 December, 2013

Well Coordinates: 32° 40' 20.18" N  
103° 47' 51.59" W

North American Datum 1983  
New Mexico Eastern Zone  
608,719.88 N  
706,167.04 E

Ground Level: 3,616.80 ft

Local Coordinate Origin:  
Viewing Datum:  
TVDs to System:

Centered on Well Taylor Draw "7" FED 1H  
Well @ 3641.80ft (HP 223)

**North Reference:**

Unit System:

N  
**Grid**  
API US Survey Feet

Version: 5000.1 Build: 65

Report Version: Midcon Combo v1.30

HALLIBURTON

## Design Report for Tayler Draw "7" FED 1H - Wellbore #1

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |                 | Map Coordinates    |                   | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(ft) | Comments          |
|---------------------------|--------------------|------------------------|-----------------------------|---------------------------|-------------------|-----------------|--------------------|-------------------|-------------------------------|-----------------------------|-------------------|
|                           |                    |                        |                             |                           | Northing<br>(ft)  | Easting<br>(ft) | Northing<br>(usft) | Easting<br>(usft) |                               |                             |                   |
| 0.00                      | 0.00               | 0.00                   | -3,641.80                   | 0.00                      | 0.00 N            | 0.00 E          | 608,719.88         | 706,167.04        | 0.00                          | 0.00                        |                   |
| 100.00                    | 0.44               | 271.81                 | -3,541.80                   | 100.00                    | 0.01 N            | 0.38 W          | 608,719.89         | 706,166.66        | 0.44                          | -0.36                       | First Gyro Survey |
| 200.00                    | 0.66               | 260.39                 | -3,441.81                   | 199.99                    | 0.07 S            | 1.34 W          | 608,719.81         | 706,165.70        | 0.24                          | -1.29                       |                   |
| 300.00                    | 0.79               | 259.87                 | -3,341.81                   | 299.99                    | 0.29 S            | 2.58 W          | 608,719.59         | 706,164.46        | 0.13                          | -2.54                       |                   |
| 400.00                    | 0.78               | 268.57                 | -3,241.82                   | 399.98                    | 0.43 S            | 3.94 W          | 608,719.45         | 706,163.10        | 0.12                          | -3.87                       |                   |
| 500.00                    | 0.83               | 258.34                 | -3,141.83                   | 499.97                    | 0.59 S            | 5.33 W          | 608,719.29         | 706,161.71        | 0.15                          | -5.24                       |                   |
| 600.00                    | 1.28               | 243.67                 | -3,041.85                   | 599.95                    | 1.23 S            | 7.04 W          | 608,718.65         | 706,160.00        | 0.52                          | -7.06                       |                   |
| 700.00                    | 0.81               | 241.56                 | -2,941.87                   | 699.93                    | 2.06 S            | 8.66 W          | 608,717.82         | 706,158.38        | 0.47                          | -8.87                       |                   |
| 800.00                    | 0.97               | 251.65                 | -2,841.88                   | 799.92                    | 2.67 S            | 10.09 W         | 608,717.21         | 706,156.95        | 0.22                          | -10.41                      |                   |
| 900.00                    | 0.88               | 222.50                 | -2,741.89                   | 899.91                    | 3.50 S            | 11.41 W         | 608,716.38         | 706,155.63        | 0.47                          | -11.93                      |                   |
| 1,000.00                  | 0.86               | 226.47                 | -2,641.90                   | 999.90                    | 4.58 S            | 12.47 W         | 608,715.30         | 706,154.57        | 0.06                          | -13.29                      |                   |
| 1,100.00                  | 0.66               | 184.01                 | -2,541.91                   | 1,099.89                  | 5.67 S            | 13.06 W         | 608,714.21         | 706,153.98        | 0.58                          | -14.19                      |                   |
| 1,200.00                  | 1.11               | 155.52                 | -2,441.92                   | 1,199.88                  | 7.13 S            | 12.70 W         | 608,712.75         | 706,154.34        | 0.62                          | -14.32                      |                   |
| 1,300.00                  | 0.45               | 178.69                 | -2,341.93                   | 1,299.87                  | 8.41 S            | 12.29 W         | 608,711.47         | 706,154.75        | 0.72                          | -14.35                      |                   |
| 1,400.00                  | 0.88               | 145.34                 | -2,241.94                   | 1,399.86                  | 9.43 S            | 11.84 W         | 608,710.45         | 706,155.20        | 0.56                          | -14.25                      |                   |
| 1,500.00                  | 0.81               | 149.97                 | -2,141.95                   | 1,499.85                  | 10.67 S           | 11.05 W         | 608,709.21         | 706,155.99        | 0.10                          | -13.91                      |                   |
| 1,600.00                  | 0.85               | 131.21                 | -2,041.96                   | 1,599.84                  | 11.77 S           | 10.14 W         | 608,708.11         | 706,156.90        | 0.27                          | -13.40                      |                   |
| 1,700.00                  | 1.00               | 116.08                 | -1,941.97                   | 1,699.83                  | 12.65 S           | 8.80 W          | 608,707.23         | 706,158.24        | 0.29                          | -12.42                      |                   |
| 1,800.00                  | 1.75               | 93.43                  | -1,842.00                   | 1,799.80                  | 13.12 S           | 6.49 W          | 608,706.76         | 706,160.55        | 0.91                          | -10.39                      |                   |
| 1,900.00                  | 1.93               | 74.63                  | -1,742.05                   | 1,899.75                  | 12.77 S           | 3.34 W          | 608,707.11         | 706,163.70        | 0.63                          | -7.29                       |                   |
| 2,000.00                  | 2.92               | 74.52                  | -1,642.14                   | 1,999.66                  | 11.64 S           | 0.74 E          | 608,708.24         | 706,167.78        | 0.99                          | -3.07                       |                   |
| 2,100.00                  | 3.29               | 69.52                  | -1,542.29                   | 2,099.51                  | 9.96 S            | 5.88 E          | 608,709.92         | 706,172.92        | 0.46                          | 2.34                        |                   |
| 2,200.00                  | 3.32               | 57.07                  | -1,442.46                   | 2,199.34                  | 7.38 S            | 11.00 E         | 608,712.50         | 706,178.04        | 0.72                          | 8.02                        |                   |
| 2,300.00                  | 3.51               | 55.16                  | -1,342.63                   | 2,299.17                  | 4.05 S            | 15.94 E         | 608,715.83         | 706,182.98        | 0.22                          | 13.77                       |                   |
| 2,400.00                  | 4.19               | 63.28                  | -1,242.86                   | 2,398.94                  | 0.66 S            | 21.72 E         | 608,719.22         | 706,188.76        | 0.87                          | 20.33                       |                   |
| 2,500.00                  | 3.57               | 56.84                  | -1,143.09                   | 2,498.71                  | 2.68 N            | 27.59 E         | 608,722.56         | 706,194.63        | 0.76                          | 26.97                       |                   |
| 2,600.00                  | 3.35               | 58.55                  | -1,043.27                   | 2,598.53                  | 5.91 N            | 32.69 E         | 608,725.79         | 706,199.73        | 0.24                          | 32.84                       |                   |
| 2,700.00                  | 3.17               | 62.60                  | -943.43                     | 2,698.37                  | 8.71 N            | 37.63 E         | 608,728.59         | 706,204.67        | 0.29                          | 38.43                       |                   |
| 2,800.00                  | 3.33               | 71.87                  | -843.59                     | 2,798.21                  | 10.88 N           | 42.85 E         | 608,730.76         | 706,209.89        | 0.55                          | 44.06                       |                   |
| 2,900.00                  | 2.94               | 72.30                  | -743.74                     | 2,898.06                  | 12.57 N           | 48.05 E         | 608,732.45         | 706,215.09        | 0.39                          | 49.53                       |                   |
| 3,000.00                  | 3.19               | 77.81                  | -643.88                     | 2,997.92                  | 13.93 N           | 53.21 E         | 608,733.81         | 706,220.25        | 0.39                          | 54.86                       |                   |
| 3,100.00                  | 2.63               | 67.60                  | -544.01                     | 3,097.79                  | 15.40 N           | 58.05 E         | 608,735.28         | 706,225.09        | 0.76                          | 59.91                       |                   |
| 3,200.00                  | 2.40               | 76.74                  | -444.11                     | 3,197.69                  | 16.75 N           | 62.21 E         | 608,736.63         | 706,229.25        | 0.46                          | 64.29                       |                   |
| 3,300.00                  | 2.47               | 73.46                  | -344.20                     | 3,297.60                  | 17.84 N           | 66.32 E         | 608,737.72         | 706,233.36        | 0.16                          | 68.52                       |                   |
| 3,400.00                  | 2.16               | 78.16                  | -244.28                     | 3,397.52                  | 18.84 N           | 70.23 E         | 608,738.72         | 706,237.27        | 0.36                          | 72.55                       |                   |
| 3,500.00                  | 2.26               | 82.68                  | -144.36                     | 3,497.44                  | 19.48 N           | 74.03 E         | 608,739.36         | 706,241.07        | 0.20                          | 76.35                       |                   |
| 3,600.00                  | 2.33               | 82.31                  | -44.44                      | 3,597.36                  | 20.00 N           | 78.00 E         | 608,739.88         | 706,245.04        | 0.07                          | 80.28                       |                   |
| 3,700.00                  | 1.68               | 81.94                  | 55.50                       | 3,697.30                  | 20.48 N           | 81.46 E         | 608,740.36         | 706,248.50        | 0.65                          | 83.71                       |                   |
| 3,800.00                  | 1.60               | 75.90                  | 155.46                      | 3,797.26                  | 21.03 N           | 84.27 E         | 608,740.91         | 706,251.31        | 0.19                          | 86.54                       |                   |
| 3,900.00                  | 1.27               | 89.24                  | 255.43                      | 3,897.23                  | 21.38 N           | 86.73 E         | 608,741.26         | 706,253.77        | 0.47                          | 88.98                       |                   |
| 4,000.00                  | 0.85               | 109.71                 | 355.41                      | 3,997.21                  | 21.15 N           | 88.54 E         | 608,741.03         | 706,255.58        | 0.56                          | 90.62                       |                   |

## Design Report for Tayler Draw "7" FED 1H - Wellbore #1

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |                 | Map Coordinates    |                   | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(ft) | Comments |
|---------------------------|--------------------|------------------------|-----------------------------|---------------------------|-------------------|-----------------|--------------------|-------------------|-------------------------------|-----------------------------|----------|
|                           |                    |                        |                             |                           | Northing<br>(ft)  | Easting<br>(ft) | Northing<br>(usft) | Easting<br>(usft) |                               |                             |          |
| 4,100.00                  | 0.83               | 138.56                 | 455.40                      | 4,097.20                  | 20.35 N           | 89.72 E         | 608,740.23         | 706,256.76        | 0.42                          | 91.48                       |          |
| 4,200.00                  | 0.89               | 141.72                 | 555.39                      | 4,197.19                  | 19.20 N           | 90.68 E         | 608,739.08         | 706,257.72        | 0.08                          | 92.01                       |          |
| 4,300.00                  | 0.70               | 216.59                 | 655.38                      | 4,297.18                  | 18.10 N           | 90.79 E         | 608,737.98         | 706,257.83        | 0.98                          | 91.77                       |          |
| 4,400.00                  | 0.59               | 231.41                 | 755.38                      | 4,397.18                  | 17.29 N           | 90.03 E         | 608,737.17         | 706,257.07        | 0.20                          | 90.78                       |          |
| 4,500.00                  | 0.40               | 210.76                 | 855.37                      | 4,497.17                  | 16.67 N           | 89.45 E         | 608,736.55         | 706,256.49        | 0.26                          | 90.03                       |          |
| 4,600.00                  | 0.42               | 187.84                 | 955.37                      | 4,597.17                  | 16.01 N           | 89.22 E         | 608,735.89         | 706,256.26        | 0.16                          | 89.60                       |          |
| 4,700.00                  | 0.96               | 178.48                 | 1,055.36                    | 4,697.16                  | 14.80 N           | 89.19 E         | 608,734.68         | 706,256.23        | 0.55                          | 89.18                       |          |
| 4,800.00                  | 0.87               | 171.30                 | 1,155.35                    | 4,797.15                  | 13.22 N           | 89.33 E         | 608,733.10         | 706,256.37        | 0.15                          | 88.80                       |          |
| 4,900.00                  | 0.16               | 177.98                 | 1,255.35                    | 4,897.15                  | 12.33 N           | 89.45 E         | 608,732.21         | 706,256.49        | 0.71                          | 88.62                       |          |
| 5,000.00                  | 0.49               | 231.07                 | 1,355.35                    | 4,997.15                  | 11.92 N           | 89.12 E         | 608,731.80         | 706,256.16        | 0.41                          | 88.18                       |          |
| 5,100.00                  | 0.67               | 237.82                 | 1,455.34                    | 5,097.14                  | 11.34 N           | 88.29 E         | 608,731.22         | 706,255.33        | 0.19                          | 87.21                       |          |
| 5,200.00                  | 1.00               | 245.03                 | 1,555.33                    | 5,197.13                  | 10.66 N           | 87.00 E         | 608,730.54         | 706,254.04        | 0.35                          | 85.77                       |          |
| 5,300.00                  | 1.41               | 278.23                 | 1,655.31                    | 5,297.11                  | 10.47 N           | 85.00 E         | 608,730.35         | 706,252.04        | 0.79                          | 83.81                       |          |
| 5,400.00                  | 2.02               | 279.41                 | 1,755.26                    | 5,397.06                  | 10.93 N           | 82.04 E         | 608,730.81         | 706,249.08        | 0.61                          | 81.16                       |          |
| 5,500.00                  | 1.48               | 283.13                 | 1,855.22                    | 5,497.02                  | 11.51 N           | 79.04 E         | 608,731.39         | 706,246.08        | 0.55                          | 78.52                       |          |
| 5,600.00                  | 1.91               | 297.78                 | 1,955.17                    | 5,596.97                  | 12.58 N           | 76.31 E         | 608,732.46         | 706,243.35        | 0.61                          | 76.28                       |          |
| 5,700.00                  | 2.19               | 308.33                 | 2,055.11                    | 5,696.91                  | 14.54 N           | 73.34 E         | 608,734.42         | 706,240.38        | 0.47                          | 74.10                       |          |
| 5,800.00                  | 1.89               | 314.15                 | 2,155.05                    | 5,796.85                  | 16.88 N           | 70.66 E         | 608,736.76         | 706,237.70        | 0.36                          | 72.32                       |          |
| 5,900.00                  | 1.80               | 309.88                 | 2,254.99                    | 5,896.79                  | 19.03 N           | 68.27 E         | 608,738.91         | 706,235.31        | 0.16                          | 70.75                       |          |
| 6,000.00                  | 2.32               | 319.61                 | 2,354.93                    | 5,996.73                  | 21.58 N           | 65.75 E         | 608,741.46         | 706,232.79        | 0.62                          | 69.20                       |          |
| 6,100.00                  | 1.61               | 318.99                 | 2,454.87                    | 6,096.67                  | 24.18 N           | 63.52 E         | 608,744.06         | 706,230.56        | 0.71                          | 67.93                       |          |
| 6,200.00                  | 2.09               | 313.98                 | 2,554.82                    | 6,196.62                  | 26.51 N           | 61.28 E         | 608,746.39         | 706,228.32        | 0.51                          | 66.56                       |          |
| 6,300.00                  | 2.09               | 303.78                 | 2,654.75                    | 6,296.55                  | 28.79 N           | 58.46 E         | 608,748.67         | 706,225.50        | 0.37                          | 64.63                       |          |
| 6,400.00                  | 2.16               | 316.05                 | 2,754.68                    | 6,396.48                  | 31.16 N           | 55.63 E         | 608,751.04         | 706,222.67        | 0.46                          | 62.72                       |          |
| 6,500.00                  | 2.00               | 314.92                 | 2,854.62                    | 6,496.42                  | 33.75 N           | 53.09 E         | 608,753.63         | 706,220.13        | 0.17                          | 61.15                       |          |
| 6,600.00                  | 1.86               | 335.92                 | 2,954.56                    | 6,596.36                  | 36.46 N           | 51.19 E         | 608,756.34         | 706,218.23        | 0.72                          | 60.23                       |          |
| 6,700.00                  | 1.88               | 338.54                 | 3,054.51                    | 6,696.31                  | 39.47 N           | 49.93 E         | 608,759.35         | 706,216.97        | 0.09                          | 60.01                       |          |
| 6,800.00                  | 1.56               | 338.79                 | 3,154.46                    | 6,796.26                  | 42.27 N           | 48.84 E         | 608,762.15         | 706,215.88        | 0.32                          | 59.88                       |          |
| 6,900.00                  | 1.54               | 342.56                 | 3,254.43                    | 6,896.23                  | 44.82 N           | 47.94 E         | 608,764.70         | 706,214.98        | 0.10                          | 59.86                       |          |
| 7,000.00                  | 1.66               | 334.46                 | 3,354.39                    | 6,996.19                  | 47.41 N           | 46.91 E         | 608,767.29         | 706,213.95        | 0.26                          | 59.73                       |          |
| 7,100.00                  | 1.56               | 341.00                 | 3,454.35                    | 7,096.15                  | 50.00 N           | 45.85 E         | 608,769.88         | 706,212.89        | 0.21                          | 59.56                       |          |
| 7,200.00                  | 1.34               | 341.18                 | 3,554.32                    | 7,196.12                  | 52.39 N           | 45.03 E         | 608,772.27         | 706,212.07        | 0.22                          | 59.56                       |          |
| 7,300.00                  | 1.04               | 297.76                 | 3,654.30                    | 7,296.10                  | 53.92 N           | 43.85 E         | 608,773.80         | 706,210.89        | 0.92                          | 58.93                       |          |
| 7,400.00                  | 0.54               | 293.46                 | 3,754.29                    | 7,396.09                  | 54.53 N           | 42.61 E         | 608,774.41         | 706,209.65        | 0.50                          | 57.96                       |          |
| 7,500.00                  | 1.36               | 315.24                 | 3,854.27                    | 7,496.07                  | 55.56 N           | 41.34 E         | 608,775.44         | 706,208.38        | 0.88                          | 57.10                       |          |
| 7,600.00                  | 0.99               | 317.34                 | 3,954.25                    | 7,596.05                  | 57.04 N           | 39.92 E         | 608,776.92         | 706,206.96        | 0.37                          | 56.23                       |          |
| 7,700.00                  | 1.58               | 343.52                 | 4,054.23                    | 7,696.03                  | 59.00 N           | 38.94 E         | 608,778.88         | 706,205.98        | 0.82                          | 55.94                       |          |
| 7,800.00                  | 2.68               | 313.71                 | 4,154.16                    | 7,795.96                  | 61.94 N           | 36.86 E         | 608,781.82         | 706,203.90        | 1.53                          | 54.92                       |          |
| 7,900.00                  | 3.46               | 321.83                 | 4,254.01                    | 7,895.81                  | 65.93 N           | 33.31 E         | 608,785.81         | 706,200.35        | 0.89                          | 52.85                       |          |
| 8,000.00                  | 3.05               | 325.95                 | 4,353.85                    | 7,995.65                  | 70.50 N           | 29.95 E         | 608,790.38         | 706,196.99        | 0.47                          | 51.15                       |          |
| 8,100.00                  | 2.98               | 325.87                 | 4,453.72                    | 8,095.52                  | 74.86 N           | 27.01 E         | 608,794.74         | 706,194.05        | 0.07                          | 49.77                       |          |

## Design Report for Tayler Draw "7" FED 1H - Wellbore #1

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates |                 | Map Coordinates    |                   | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(ft) | Comments                |
|---------------------------|--------------------|------------------------|-----------------------------|---------------------------|-------------------|-----------------|--------------------|-------------------|-------------------------------|-----------------------------|-------------------------|
|                           |                    |                        |                             |                           | Northing<br>(ft)  | Easting<br>(ft) | Northing<br>(usft) | Easting<br>(usft) |                               |                             |                         |
| 8,200.00                  | 3.07               | 334.58                 | 4,553.58                    | 8,195.38                  | 79.43 N           | 24.40 E         | 608,799.31         | 706,191.44        | 0.47                          | 48.78                       |                         |
| 8,300.00                  | 2.44               | 305.88                 | 4,653.46                    | 8,295.26                  | 83.10 N           | 21.52 E         | 608,802.97         | 706,188.56        | 1.50                          | 47.25                       |                         |
| 8,400.00                  | 2.55               | 299.15                 | 4,753.37                    | 8,395.17                  | 85.43 N           | 17.86 E         | 608,805.31         | 706,184.90        | 0.31                          | 44.53                       |                         |
| 8,478.00                  | 2.18               | 291.14                 | 4,831.30                    | 8,473.10                  | 86.81 N           | 14.96 E         | 608,806.69         | 706,182.00        | 0.63                          | 42.24                       | Final Gyro Survey       |
| 8,600.00                  | 1.74               | 285.46                 | 4,953.23                    | 8,595.03                  | 88.14 N           | 11.01 E         | 608,808.02         | 706,178.05        | 0.39                          | 38.93                       | First Sperry MWD Survey |
| 8,653.00                  | 1.79               | 275.26                 | 5,006.21                    | 8,648.01                  | 88.43 N           | 9.41 E          | 608,808.31         | 706,176.45        | 0.60                          | 37.51                       |                         |
| 8,685.00                  | 3.52               | 274.64                 | 5,038.17                    | 8,679.97                  | 88.55 N           | 7.93 E          | 608,808.43         | 706,174.97        | 5.41                          | 36.15                       |                         |
| 8,716.00                  | 7.11               | 282.30                 | 5,069.03                    | 8,710.83                  | 89.04 N           | 5.11 E          | 608,808.92         | 706,172.15        | 11.78                         | 33.64                       |                         |
| 8,748.00                  | 11.22              | 285.01                 | 5,100.62                    | 8,742.42                  | 90.27 N           | 0.16 E          | 608,810.15         | 706,167.20        | 12.91                         | 29.36                       |                         |
| 8,780.00                  | 14.99              | 285.04                 | 5,131.78                    | 8,773.58                  | 92.15 N           | 6.84 W          | 608,812.03         | 706,160.20        | 11.78                         | 23.34                       |                         |
| 8,811.00                  | 18.22              | 279.31                 | 5,161.48                    | 8,803.28                  | 93.97 N           | 15.50 W         | 608,813.85         | 706,151.54        | 11.67                         | 15.74                       |                         |
| 8,843.00                  | 21.79              | 277.77                 | 5,191.55                    | 8,833.35                  | 95.59 N           | 26.33 W         | 608,815.47         | 706,140.71        | 11.28                         | 6.02                        |                         |
| 8,874.00                  | 24.72              | 278.58                 | 5,220.03                    | 8,861.83                  | 97.33 N           | 38.44 W         | 608,817.21         | 706,128.60        | 9.51                          | -4.88                       |                         |
| 8,906.00                  | 26.77              | 277.32                 | 5,248.85                    | 8,890.65                  | 99.25 N           | 52.20 W         | 608,819.13         | 706,114.84        | 6.63                          | -17.29                      |                         |
| 8,937.00                  | 29.86              | 276.84                 | 5,276.14                    | 8,917.94                  | 101.06 N          | 66.79 W         | 608,820.94         | 706,100.25        | 9.99                          | -30.51                      |                         |
| 8,969.00                  | 31.37              | 273.54                 | 5,303.68                    | 8,945.48                  | 102.52 N          | 83.02 W         | 608,822.40         | 706,084.02        | 7.06                          | -45.39                      |                         |
| 9,001.00                  | 33.99              | 271.59                 | 5,330.61                    | 8,972.41                  | 103.28 N          | 100.28 W        | 608,823.16         | 706,066.76        | 8.82                          | -61.47                      |                         |
| 9,032.00                  | 36.10              | 270.20                 | 5,355.99                    | 8,997.79                  | 103.55 N          | 118.07 W        | 608,823.43         | 706,048.97        | 7.28                          | -78.22                      |                         |
| 9,064.00                  | 38.87              | 270.17                 | 5,381.38                    | 9,023.18                  | 103.62 N          | 137.55 W        | 608,823.50         | 706,029.50        | 8.66                          | -96.62                      |                         |
| 9,096.00                  | 40.96              | 269.13                 | 5,405.92                    | 9,047.72                  | 103.49 N          | 158.08 W        | 608,823.37         | 706,008.96        | 6.86                          | -116.09                     |                         |
| 9,127.00                  | 43.12              | 269.12                 | 5,428.94                    | 9,070.74                  | 103.17 N          | 178.83 W        | 608,823.05         | 705,988.21        | 6.97                          | -135.83                     |                         |
| 9,159.00                  | 45.77              | 269.70                 | 5,451.79                    | 9,093.59                  | 102.94 N          | 201.24 W        | 608,822.82         | 705,965.81        | 8.38                          | -157.11                     |                         |
| 9,190.00                  | 48.27              | 270.40                 | 5,472.92                    | 9,114.72                  | 102.97 N          | 223.91 W        | 608,822.85         | 705,943.13        | 8.23                          | -178.56                     |                         |
| 9,222.00                  | 50.61              | 270.63                 | 5,493.73                    | 9,135.53                  | 103.19 N          | 248.22 W        | 608,823.06         | 705,918.82        | 7.33                          | -201.49                     |                         |
| 9,253.00                  | 53.22              | 270.81                 | 5,512.85                    | 9,154.65                  | 103.49 N          | 272.62 W        | 608,823.37         | 705,894.42        | 8.43                          | -224.47                     |                         |
| 9,285.00                  | 55.55              | 270.46                 | 5,531.48                    | 9,173.28                  | 103.78 N          | 298.63 W        | 608,823.66         | 705,868.41        | 7.34                          | -248.99                     |                         |
| 9,316.00                  | 57.24              | 270.61                 | 5,548.64                    | 9,190.44                  | 104.02 N          | 324.44 W        | 608,823.90         | 705,842.60        | 5.47                          | -273.34                     |                         |
| 9,348.00                  | 59.71              | 271.17                 | 5,565.37                    | 9,207.17                  | 104.45 N          | 351.72 W        | 608,824.33         | 705,815.32        | 7.86                          | -299.01                     |                         |
| 9,379.00                  | 62.46              | 272.09                 | 5,580.36                    | 9,222.16                  | 105.22 N          | 378.84 W        | 608,825.10         | 705,788.20        | 9.24                          | -324.42                     |                         |
| 9,411.00                  | 65.38              | 272.22                 | 5,594.42                    | 9,236.22                  | 106.30 N          | 407.56 W        | 608,826.18         | 705,759.48        | 9.13                          | -351.24                     |                         |
| 9,443.00                  | 67.77              | 273.09                 | 5,607.14                    | 9,248.94                  | 107.66 N          | 436.88 W        | 608,827.54         | 705,730.16        | 7.87                          | -378.55                     |                         |
| 9,473.00                  | 69.80              | 273.13                 | 5,618.00                    | 9,259.80                  | 109.18 N          | 464.81 W        | 608,829.06         | 705,702.23        | 6.77                          | -404.49                     |                         |
| 9,505.00                  | 72.11              | 272.62                 | 5,628.44                    | 9,270.24                  | 110.70 N          | 495.02 W        | 608,830.58         | 705,672.02        | 7.37                          | -432.58                     |                         |
| 9,537.00                  | 74.63              | 272.16                 | 5,637.60                    | 9,279.40                  | 111.98 N          | 525.65 W        | 608,831.85         | 705,641.39        | 7.99                          | -461.15                     |                         |
| 9,568.00                  | 76.85              | 272.09                 | 5,645.23                    | 9,287.03                  | 113.09 N          | 555.67 W        | 608,832.97         | 705,611.37        | 7.16                          | -489.20                     |                         |
| 9,600.00                  | 79.25              | 272.22                 | 5,651.86                    | 9,293.66                  | 114.27 N          | 586.95 W        | 608,834.15         | 705,580.09        | 7.51                          | -518.42                     |                         |
| 9,632.00                  | 81.78              | 272.79                 | 5,657.13                    | 9,298.93                  | 115.65 N          | 618.48 W        | 608,835.53         | 705,548.56        | 8.10                          | -547.80                     |                         |
| 9,663.00                  | 83.48              | 272.91                 | 5,661.11                    | 9,302.91                  | 117.17 N          | 649.19 W        | 608,837.05         | 705,517.85        | 5.50                          | -576.36                     |                         |
| 9,695.00                  | 85.74              | 273.58                 | 5,664.11                    | 9,305.91                  | 118.98 N          | 680.99 W        | 608,838.86         | 705,486.05        | 7.36                          | -605.87                     |                         |
| 9,726.00                  | 88.18              | 273.96                 | 5,665.76                    | 9,307.56                  | 121.01 N          | 711.88 W        | 608,840.89         | 705,455.16        | 7.97                          | -634.44                     |                         |
| 9,758.00                  | 90.37              | 274.29                 | 5,666.16                    | 9,307.96                  | 123.32 N          | 743.79 W        | 608,843.20         | 705,423.25        | 6.92                          | -663.89                     |                         |

## Design Report for Tayler Draw "7" FED 1H - Wellbore #1

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates<br>Northing<br>(ft) Easting<br>(ft) |            | Map Coordinates<br>Northing<br>(usft) Easting<br>(usft) |            | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(ft) | Comments |
|---------------------------|--------------------|------------------------|-----------------------------|---------------------------|-------------------------------------------------------|------------|---------------------------------------------------------|------------|-------------------------------|-----------------------------|----------|
| 9,789.00                  | 91.85              | 274.56                 | 5,665.56                    | 9,307.36                  | 125.71 N                                              | 774.69 W   | 608,845.59                                              | 705,392.35 | 4.85                          | -692.36                     |          |
| 9,884.00                  | 93.73              | 274.64                 | 5,660.94                    | 9,302.74                  | 133.32 N                                              | 869.27 W   | 608,853.20                                              | 705,297.77 | 1.98                          | -779.39                     |          |
| 9,979.00                  | 92.75              | 274.95                 | 5,655.57                    | 9,297.37                  | 141.24 N                                              | 963.79 W   | 608,861.12                                              | 705,203.26 | 1.08                          | -866.25                     |          |
| 10,073.00                 | 91.48              | 274.35                 | 5,652.10                    | 9,293.90                  | 148.86 N                                              | 1,057.41 W | 608,868.74                                              | 705,109.63 | 1.49                          | -952.38                     |          |
| 10,168.00                 | 92.31              | 274.41                 | 5,648.96                    | 9,290.76                  | 156.11 N                                              | 1,152.08 W | 608,875.99                                              | 705,014.96 | 0.88                          | -1,039.61                   |          |
| 10,263.00                 | 91.23              | 273.85                 | 5,646.02                    | 9,287.82                  | 162.95 N                                              | 1,246.79 W | 608,882.83                                              | 704,920.26 | 1.28                          | -1,127.01                   |          |
| 10,357.00                 | 90.31              | 273.64                 | 5,644.76                    | 9,286.56                  | 169.09 N                                              | 1,340.58 W | 608,888.97                                              | 704,826.47 | 1.00                          | -1,213.77                   |          |
| 10,452.00                 | 90.95              | 273.65                 | 5,643.72                    | 9,285.52                  | 175.13 N                                              | 1,435.38 W | 608,895.01                                              | 704,731.66 | 0.67                          | -1,301.52                   |          |
| 10,547.00                 | 91.60              | 272.82                 | 5,641.60                    | 9,283.40                  | 180.49 N                                              | 1,530.20 W | 608,900.37                                              | 704,636.84 | 1.11                          | -1,389.51                   |          |
| 10,641.00                 | 90.86              | 273.42                 | 5,639.58                    | 9,281.38                  | 185.60 N                                              | 1,624.04 W | 608,905.48                                              | 704,543.00 | 1.01                          | -1,476.65                   |          |
| 10,736.00                 | 91.88              | 273.48                 | 5,637.31                    | 9,279.11                  | 191.32 N                                              | 1,718.84 W | 608,911.20                                              | 704,448.20 | 1.08                          | -1,564.50                   |          |
| 10,831.00                 | 91.33              | 273.26                 | 5,634.65                    | 9,276.45                  | 196.90 N                                              | 1,813.64 W | 608,916.78                                              | 704,353.41 | 0.62                          | -1,652.39                   |          |
| 10,926.00                 | 92.10              | 273.56                 | 5,631.81                    | 9,273.61                  | 202.55 N                                              | 1,908.43 W | 608,922.43                                              | 704,258.62 | 0.87                          | -1,740.25                   |          |
| 11,020.00                 | 90.77              | 273.02                 | 5,629.45                    | 9,271.25                  | 207.94 N                                              | 2,002.24 W | 608,927.82                                              | 704,164.80 | 1.53                          | -1,827.28                   |          |
| 11,115.00                 | 91.20              | 273.25                 | 5,627.82                    | 9,269.62                  | 213.13 N                                              | 2,097.08 W | 608,933.01                                              | 704,069.96 | 0.51                          | -1,915.34                   |          |
| 11,209.00                 | 92.06              | 273.50                 | 5,625.15                    | 9,266.95                  | 218.67 N                                              | 2,190.88 W | 608,938.55                                              | 703,976.16 | 0.95                          | -2,002.30                   |          |
| 11,304.00                 | 91.48              | 272.83                 | 5,622.21                    | 9,264.01                  | 223.91 N                                              | 2,285.69 W | 608,943.79                                              | 703,881.35 | 0.93                          | -2,090.32                   |          |
| 11,399.00                 | 92.19              | 272.88                 | 5,619.17                    | 9,260.97                  | 228.64 N                                              | 2,380.52 W | 608,948.52                                              | 703,786.52 | 0.75                          | -2,178.52                   |          |
| 11,493.00                 | 92.16              | 273.06                 | 5,615.60                    | 9,257.40                  | 233.50 N                                              | 2,474.33 W | 608,953.38                                              | 703,692.72 | 0.19                          | -2,265.71                   |          |
| 11,588.00                 | 91.75              | 272.11                 | 5,612.36                    | 9,254.16                  | 237.79 N                                              | 2,569.18 W | 608,957.67                                              | 703,597.87 | 1.09                          | -2,354.07                   |          |
| 11,683.00                 | 90.52              | 270.99                 | 5,610.48                    | 9,252.28                  | 240.36 N                                              | 2,664.12 W | 608,960.24                                              | 703,502.93 | 1.75                          | -2,443.07                   |          |
| 11,777.00                 | 91.29              | 271.29                 | 5,609.00                    | 9,250.80                  | 242.23 N                                              | 2,758.09 W | 608,962.11                                              | 703,408.96 | 0.88                          | -2,531.38                   |          |
| 11,872.00                 | 92.22              | 271.35                 | 5,606.09                    | 9,247.89                  | 244.41 N                                              | 2,853.02 W | 608,964.29                                              | 703,314.03 | 0.98                          | -2,620.50                   |          |
| 11,966.00                 | 93.18              | 271.83                 | 5,601.66                    | 9,243.46                  | 247.02 N                                              | 2,946.87 W | 608,966.90                                              | 703,220.17 | 1.14                          | -2,708.47                   |          |
| 12,060.00                 | 93.11              | 273.01                 | 5,596.50                    | 9,238.30                  | 250.98 N                                              | 3,040.65 W | 608,970.86                                              | 703,126.40 | 1.26                          | -2,795.91                   |          |
| 12,155.00                 | 91.91              | 273.53                 | 5,592.34                    | 9,234.14                  | 256.40 N                                              | 3,135.40 W | 608,976.27                                              | 703,031.65 | 1.38                          | -2,883.82                   |          |
| 12,249.00                 | 93.05              | 274.28                 | 5,588.27                    | 9,230.07                  | 262.79 N                                              | 3,229.09 W | 608,982.67                                              | 702,937.95 | 1.45                          | -2,970.40                   |          |
| 12,343.00                 | 92.03              | 273.99                 | 5,584.11                    | 9,225.91                  | 269.56 N                                              | 3,322.75 W | 608,989.44                                              | 702,844.29 | 1.13                          | -3,056.83                   |          |
| 12,438.00                 | 91.20              | 273.64                 | 5,581.43                    | 9,223.23                  | 275.88 N                                              | 3,417.50 W | 608,995.76                                              | 702,749.54 | 0.95                          | -3,144.45                   |          |
| 12,533.00                 | 90.52              | 272.89                 | 5,580.00                    | 9,221.80                  | 281.29 N                                              | 3,512.34 W | 609,001.17                                              | 702,654.71 | 1.07                          | -3,232.43                   |          |
| 12,627.00                 | 91.70              | 272.78                 | 5,578.18                    | 9,219.98                  | 285.94 N                                              | 3,606.20 W | 609,005.82                                              | 702,560.84 | 1.26                          | -3,319.74                   |          |
| 12,722.00                 | 93.08              | 272.90                 | 5,574.22                    | 9,216.02                  | 290.64 N                                              | 3,701.00 W | 609,010.52                                              | 702,466.04 | 1.46                          | -3,407.92                   |          |
| 12,816.00                 | 92.37              | 272.54                 | 5,569.75                    | 9,211.55                  | 295.10 N                                              | 3,794.79 W | 609,014.98                                              | 702,372.26 | 0.85                          | -3,495.22                   |          |
| 12,911.00                 | 91.82              | 272.53                 | 5,566.28                    | 9,208.08                  | 299.30 N                                              | 3,889.63 W | 609,019.17                                              | 702,277.41 | 0.58                          | -3,583.61                   |          |
| 13,005.00                 | 92.03              | 272.85                 | 5,563.12                    | 9,204.92                  | 303.70 N                                              | 3,983.48 W | 609,023.58                                              | 702,183.57 | 0.41                          | -3,670.98                   |          |
| 13,099.00                 | 92.28              | 273.13                 | 5,559.59                    | 9,201.39                  | 308.60 N                                              | 4,077.28 W | 609,028.48                                              | 702,089.77 | 0.40                          | -3,758.15                   |          |
| 13,194.00                 | 91.73              | 272.98                 | 5,556.26                    | 9,198.06                  | 313.66 N                                              | 4,172.09 W | 609,033.54                                              | 701,994.96 | 0.60                          | -3,846.22                   |          |
| 13,288.00                 | 91.02              | 272.55                 | 5,554.01                    | 9,195.81                  | 318.20 N                                              | 4,265.95 W | 609,038.08                                              | 701,901.10 | 0.88                          | -3,933.57                   |          |
| 13,383.00                 | 91.88              | 272.79                 | 5,551.61                    | 9,193.41                  | 322.62 N                                              | 4,360.82 W | 609,042.50                                              | 701,806.23 | 0.94                          | -4,021.90                   |          |
| 13,477.00                 | 92.96              | 272.98                 | 5,547.64                    | 9,189.44                  | 327.35 N                                              | 4,454.61 W | 609,047.23                                              | 701,712.44 | 1.17                          | -4,109.12                   |          |
| 13,572.00                 | 92.62              | 272.67                 | 5,543.01                    | 9,184.81                  | 332.02 N                                              | 4,549.38 W | 609,051.90                                              | 701,617.67 | 0.48                          | -4,197.28                   |          |

Design Report for Tayler Draw "7" FED 1H - Wellbore #1

| Measured<br>Depth<br>(ft) | Inclination<br>(°) | Grid<br>Azimuth<br>(°) | TVD below<br>System<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates<br>Northing<br>(ft) Easting<br>(ft) |            | Map Coordinates<br>Northing<br>(usft) Easting<br>(usft) |            | Dogleg<br>Rate<br>(°/100usft) | Vertical<br>Section<br>(ft) | Comments                |
|---------------------------|--------------------|------------------------|-----------------------------|---------------------------|-------------------------------------------------------|------------|---------------------------------------------------------|------------|-------------------------------|-----------------------------|-------------------------|
| 13,667.00                 | 93.14              | 273.29                 | 5,538.24                    | 9,180.04                  | 336.96 N                                              | 4,644.13 W | 609,056.84                                              | 701,522.91 | 0.85                          | -4,285.34                   | Final Sperry MWD Survey |
| 13,790.00                 | 93.14              | 273.29                 | 5,531.50                    | 9,173.30                  | 344.01 N                                              | 4,766.75 W | 609,063.88                                              | 701,400.30 | 0.00                          | -4,399.08                   | Projection to TD        |

Design Annotations

| Measured<br>Depth<br>(ft) | Vertical<br>Depth<br>(ft) | Local Coordinates<br>+N/-S<br>(ft) +E/-W<br>(ft) |           | Comment                 |
|---------------------------|---------------------------|--------------------------------------------------|-----------|-------------------------|
| 100.00                    | 100.00                    | 0.01                                             | -0.38     | First Gyro Survey       |
| 8,478.00                  | 8,473.10                  | 86.81                                            | 14.96     | Final Gyro Survey       |
| 8,600.00                  | 8,595.03                  | 88.14                                            | 11.01     | First Sperry MWD Survey |
| 13,667.00                 | 9,180.04                  | 336.96                                           | -4,644.13 | Final Sperry MWD Survey |
| 13,790.00                 | 9,173.30                  | 344.01                                           | -4,766.75 | Projection to TD        |

Vertical Section Information

| Angle<br>Type | Target               | Azimuth<br>(°) | Origin<br>Type | Origin<br>+N/-S<br>(ft) | Origin<br>+E/-W<br>(ft) | Start<br>TVD<br>(ft) |
|---------------|----------------------|----------------|----------------|-------------------------|-------------------------|----------------------|
| User          | No Target (Freehand) | 71.12          | Slot           | 0.00                    | 0.00                    | 0.00                 |

Survey tool program

| From<br>(ft) | To<br>(ft) | Survey/Plan        | Survey Tool |
|--------------|------------|--------------------|-------------|
| 100.00       | 8,478.00   | VES GYROS          | NS-Gyro-MS  |
| 8,600.00     | 13,790.00  | Sperry MWD Surveys | MWD         |

Design Targets

| Target Name<br>- hit/miss target<br>- Shape | Dip<br>Angle<br>(°) | Dip<br>Dir.<br>(°) | TVD<br>(°) | +N/-S<br>(°) | +E/-W<br>(°) | Northing<br>(°) | Easting<br>(°) | Latitude | Longitude |
|---------------------------------------------|---------------------|--------------------|------------|--------------|--------------|-----------------|----------------|----------|-----------|
| ( )                                         |                     |                    |            |              |              |                 |                |          |           |