

Well Name: Andrews 26-53

Surface Location: Andrews 26-23 Pad Sec.26-T7N-R65W
North American Datum 1983 US State Plane 1983 Colorado Northern Zone
Ground Elevation: 4871.0
Easting 3240514.73 Latitude 40.540989 Longitude -104.634611 Slot
Original Well Elev WELL @ 4885.0ft (Original Well Elev)

+N/-S +E/-W
0.0 0.0

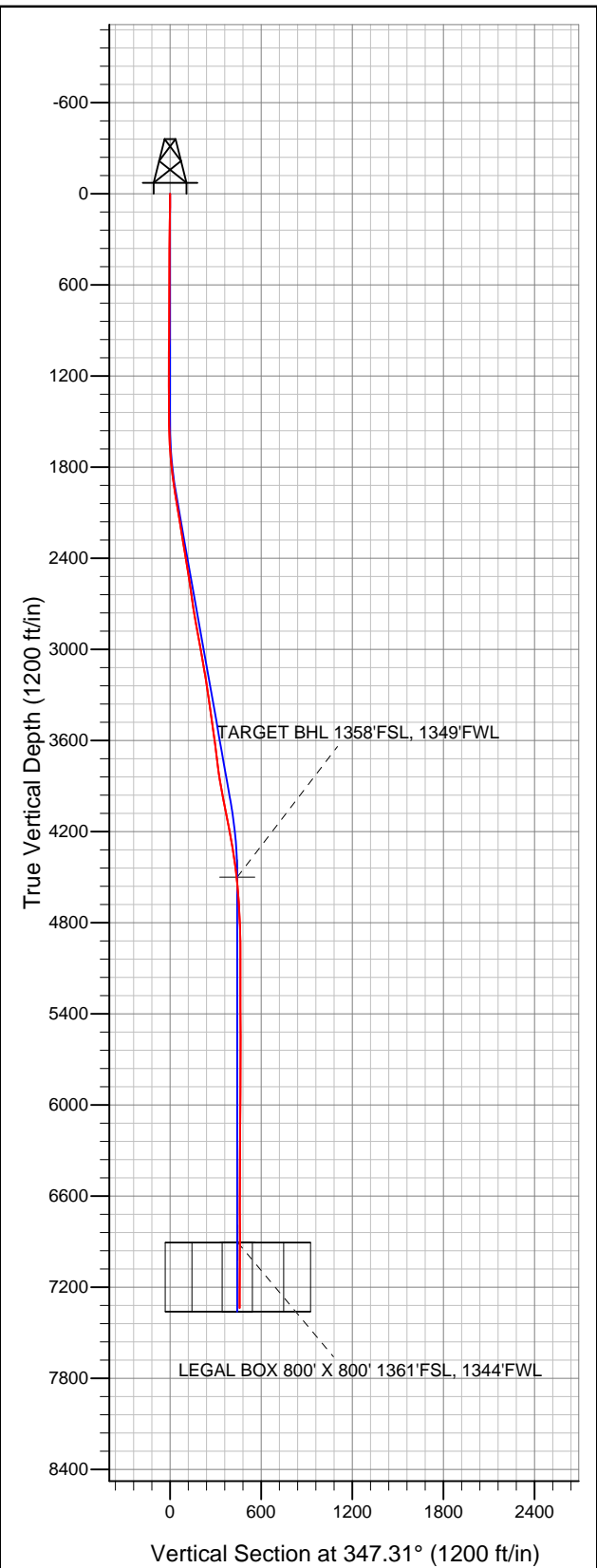
Northing
1441096.70

Easting
3240514.73

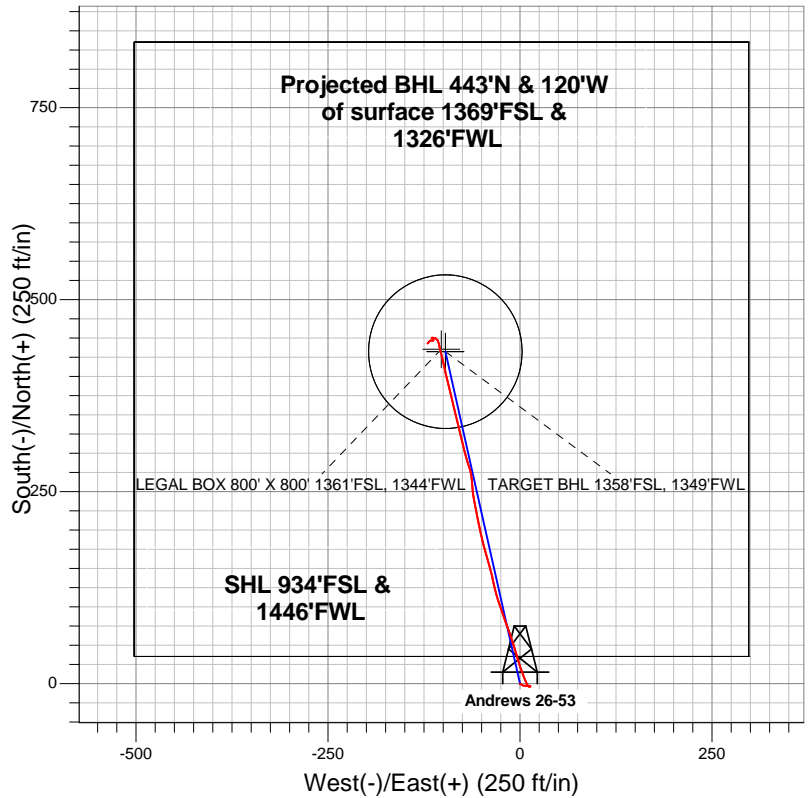
Latitude
40.540989

Longitude
-104.634611

Slot



Great Western



LEGEND

- Andrews 26-53, Wellbore #1, Plan #3 (10-01-12) R V0
- Wellbore #1
- Survey #1

Final Survey Plot

Projected Final Survey -
7373'MD & 7337'TVD @ 458'VS
0.60 deg Inc 208.20 deg AZ

Project: SEC.26-T7N-R65W
Site: Andrews 26-23 Pad Sec.26-T7N-R65W
Well: Andrews 26-53
Plan: Wellbore #1



Directional

Great Western

SEC.26-T7N-R65W

Andrews 26-23 Pad Sec.26-T7N-R65W

Andrews 26-53

Wellbore #1

Survey: Survey #1

Standard Survey Report

08 October, 2012

| Survey | Wellbore Data | | | | | | | | | |
|---------------|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| | Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| Main Wellbore | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| | 87.0 | 0.50 | 141.40 | 87.0 | -0.3 | 0.2 | -0.3 | 0.57 | 0.57 | 0.00 |
| | 179.0 | 0.60 | 123.20 | 179.0 | -0.9 | 0.9 | -1.0 | 0.22 | 0.11 | -19.78 |
| | 270.0 | 1.00 | 120.10 | 270.0 | -1.5 | 2.0 | -1.9 | 0.44 | 0.44 | -3.41 |
| | 361.0 | 1.00 | 123.20 | 361.0 | -2.4 | 3.3 | -3.0 | 0.06 | 0.00 | 3.41 |
| | 452.0 | 0.70 | 89.90 | 452.0 | -2.8 | 4.5 | -3.7 | 0.62 | -0.33 | -36.59 |
| | 542.0 | 0.80 | 104.30 | 542.0 | -3.0 | 5.7 | -4.1 | 0.24 | 0.11 | 16.00 |
| | 634.0 | 1.10 | 94.20 | 633.9 | -3.2 | 7.2 | -4.7 | 0.37 | 0.33 | -10.98 |
| | 696.0 | 0.90 | 86.50 | 695.9 | -3.2 | 8.3 | -4.9 | 0.39 | -0.32 | -12.42 |
| | 756.0 | 1.10 | 82.80 | 755.9 | -3.1 | 9.3 | -5.1 | 0.35 | 0.33 | -6.17 |
| | 851.0 | 1.10 | 92.30 | 850.9 | -3.0 | 11.1 | -5.4 | 0.19 | 0.00 | 10.00 |
| | 946.0 | 1.00 | 96.20 | 945.9 | -3.1 | 12.9 | -5.9 | 0.13 | -0.11 | 4.11 |
| | 1,040.0 | 0.40 | 196.90 | 1,039.9 | -3.5 | 13.6 | -6.4 | 1.22 | -0.64 | 107.13 |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Andrews 26-53 |
| Project: | SEC.26-T7N-R65W | TVD Reference: | WELL @ 4885.0ft (Original Well Elev) |
| Site: | Andrews 26-23 Pad Sec.26-T7N-R65W | MD Reference: | WELL @ 4885.0ft (Original Well Elev) |
| Well: | Andrews 26-53 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| Survey | | | | | | | | | | |
|-------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | |
| 1,135.0 | 0.30 | 245.60 | 1,134.9 | -4.0 | 13.3 | -6.8 | 0.32 | -0.11 | 51.26 | |
| 1,230.0 | 0.30 | 224.50 | 1,229.9 | -4.2 | 12.9 | -7.0 | 0.12 | 0.00 | -22.21 | |
| 1,324.0 | 0.20 | 203.80 | 1,323.9 | -4.6 | 12.6 | -7.2 | 0.14 | -0.11 | -22.02 | |
| 1,419.0 | 0.60 | 302.00 | 1,418.9 | -4.5 | 12.2 | -7.0 | 0.69 | 0.42 | 103.37 | |
| 1,514.0 | 1.30 | 308.20 | 1,513.9 | -3.5 | 10.9 | -5.8 | 0.74 | 0.74 | 6.53 | |
| 1,608.0 | 2.60 | 334.40 | 1,607.8 | -0.9 | 9.1 | -2.9 | 1.64 | 1.38 | 27.87 | |
| 1,703.0 | 4.20 | 335.60 | 1,702.6 | 4.2 | 6.8 | 2.6 | 1.69 | 1.68 | 1.26 | |
| 1,798.0 | 6.20 | 339.50 | 1,797.2 | 12.1 | 3.5 | 11.1 | 2.14 | 2.11 | 4.11 | |
| 1,892.0 | 7.60 | 342.10 | 1,890.6 | 22.8 | -0.2 | 22.3 | 1.53 | 1.49 | 2.77 | |
| 1,988.0 | 8.40 | 343.50 | 1,985.6 | 35.6 | -4.1 | 35.6 | 0.86 | 0.83 | 1.46 | |
| 2,083.0 | 9.80 | 342.80 | 2,079.4 | 50.0 | -8.5 | 50.6 | 1.48 | 1.47 | -0.74 | |
| 2,177.0 | 9.70 | 340.20 | 2,172.1 | 65.0 | -13.5 | 66.4 | 0.48 | -0.11 | -2.77 | |
| 2,272.0 | 9.30 | 340.70 | 2,265.8 | 79.8 | -18.8 | 82.0 | 0.43 | -0.42 | 0.53 | |
| 2,367.0 | 9.30 | 341.20 | 2,359.5 | 94.3 | -23.8 | 97.3 | 0.09 | 0.00 | 0.53 | |
| 2,461.0 | 9.50 | 341.90 | 2,452.3 | 108.9 | -28.6 | 112.5 | 0.25 | 0.21 | 0.74 | |
| 2,556.0 | 8.40 | 346.50 | 2,546.1 | 123.1 | -32.7 | 127.3 | 1.38 | -1.16 | 4.84 | |
| 2,651.0 | 7.70 | 348.60 | 2,640.2 | 136.1 | -35.6 | 140.6 | 0.80 | -0.74 | 2.21 | |
| 2,745.0 | 9.80 | 343.90 | 2,733.1 | 149.9 | -39.0 | 154.9 | 2.36 | 2.23 | -5.00 | |
| 2,840.0 | 9.70 | 343.50 | 2,826.7 | 165.4 | -43.5 | 170.9 | 0.13 | -0.11 | -0.42 | |
| 2,935.0 | 10.10 | 347.00 | 2,920.3 | 181.2 | -47.7 | 187.2 | 0.76 | 0.42 | 3.68 | |
| 3,029.0 | 10.10 | 347.00 | 3,012.8 | 197.2 | -51.4 | 203.7 | 0.00 | 0.00 | 0.00 | |
| 3,124.0 | 10.50 | 348.80 | 3,106.3 | 213.8 | -55.0 | 220.7 | 0.54 | 0.42 | 1.89 | |
| 3,219.0 | 8.10 | 349.10 | 3,200.0 | 228.9 | -57.9 | 236.0 | 2.53 | -2.53 | 0.32 | |
| 3,313.0 | 8.50 | 350.00 | 3,293.1 | 242.3 | -60.4 | 249.6 | 0.45 | 0.43 | 0.96 | |
| 3,410.0 | 9.20 | 356.00 | 3,388.9 | 257.1 | -62.2 | 264.4 | 1.19 | 0.72 | 6.19 | |
| 3,504.0 | 7.40 | 352.10 | 3,481.9 | 270.5 | -63.5 | 277.9 | 2.01 | -1.91 | -4.15 | |
| 3,599.0 | 7.40 | 340.50 | 3,576.1 | 282.4 | -66.4 | 290.1 | 1.57 | 0.00 | -12.21 | |
| 3,694.0 | 7.20 | 345.40 | 3,670.4 | 293.9 | -69.9 | 302.1 | 0.69 | -0.21 | 5.16 | |
| 3,788.0 | 7.60 | 344.70 | 3,763.6 | 305.6 | -73.1 | 314.2 | 0.44 | 0.43 | -0.74 | |
| 3,883.0 | 9.50 | 347.90 | 3,857.5 | 319.3 | -76.4 | 328.3 | 2.06 | 2.00 | 3.37 | |
| 3,978.0 | 10.40 | 345.80 | 3,951.1 | 335.3 | -80.1 | 344.7 | 1.02 | 0.95 | -2.21 | |
| 4,072.0 | 11.30 | 346.10 | 4,043.4 | 352.5 | -84.4 | 362.4 | 0.96 | 0.96 | 0.32 | |
| 4,167.0 | 11.30 | 346.80 | 4,136.6 | 370.6 | -88.8 | 381.0 | 0.14 | 0.00 | 0.74 | |
| 4,262.0 | 10.40 | 346.30 | 4,229.9 | 388.0 | -92.9 | 398.9 | 0.95 | -0.95 | -0.53 | |
| 4,356.0 | 8.80 | 346.10 | 4,322.5 | 403.2 | -96.7 | 414.6 | 1.70 | -1.70 | -0.21 | |
| 4,451.0 | 7.70 | 348.60 | 4,416.6 | 416.5 | -99.7 | 428.2 | 1.22 | -1.16 | 2.63 | |
| 4,535.6 | 6.26 | 344.74 | 4,500.5 | 426.5 | -102.0 | 438.5 | 1.79 | -1.70 | -4.56 | |
| TARGET BHL 1358°FSL, 1349°FWL | | | | | | | | | | |
| 4,545.0 | 6.10 | 344.20 | 4,509.9 | 427.5 | -102.3 | 439.5 | 1.79 | -1.68 | -5.75 | |
| 4,640.0 | 4.70 | 348.60 | 4,604.5 | 436.1 | -104.4 | 448.4 | 1.54 | -1.47 | 4.63 | |
| 4,733.0 | 3.30 | 347.70 | 4,697.2 | 442.5 | -105.7 | 454.9 | 1.51 | -1.51 | -0.97 | |
| 4,827.0 | 2.10 | 326.10 | 4,791.1 | 446.5 | -107.3 | 459.2 | 1.65 | -1.28 | -22.98 | |
| 4,922.0 | 1.80 | 307.10 | 4,886.1 | 448.9 | -109.4 | 462.0 | 0.75 | -0.32 | -20.00 | |
| 5,017.0 | 1.00 | 280.00 | 4,981.0 | 449.9 | -111.4 | 463.4 | 1.07 | -0.84 | -28.53 | |
| 5,206.0 | 0.40 | 246.60 | 5,170.0 | 450.0 | -113.7 | 463.9 | 0.37 | -0.32 | -17.67 | |
| 5,395.0 | 0.40 | 236.50 | 5,359.0 | 449.3 | -114.8 | 463.6 | 0.04 | 0.00 | -5.34 | |
| 5,584.0 | 0.50 | 25.00 | 5,548.0 | 449.7 | -115.0 | 464.0 | 0.46 | 0.05 | 78.57 | |
| 5,774.0 | 0.30 | 91.40 | 5,738.0 | 450.5 | -114.2 | 464.5 | 0.25 | -0.11 | 34.95 | |
| 5,963.0 | 0.40 | 141.70 | 5,927.0 | 449.9 | -113.3 | 463.8 | 0.16 | 0.05 | 26.61 | |
| 6,155.0 | 0.40 | 161.20 | 6,119.0 | 448.8 | -112.6 | 462.5 | 0.07 | 0.00 | 10.16 | |
| 6,344.0 | 0.60 | 196.20 | 6,308.0 | 447.2 | -112.7 | 461.0 | 0.19 | 0.11 | 18.52 | |
| 6,533.0 | 0.40 | 241.90 | 6,497.0 | 445.9 | -113.6 | 460.0 | 0.23 | -0.11 | 24.18 | |
| 6,723.0 | 0.40 | 330.50 | 6,687.0 | 446.2 | -114.5 | 460.4 | 0.29 | 0.00 | 46.63 | |
| 6,912.0 | 0.80 | 259.10 | 6,876.0 | 446.5 | -116.1 | 461.1 | 0.41 | 0.21 | -37.78 | |

| | | | |
|------------------|-----------------------------------|-------------------------------------|--------------------------------------|
| Company: | Great Western | Local Co-ordinate Reference: | Well Andrews 26-53 |
| Project: | SEC.26-T7N-R65W | TVD Reference: | WELL @ 4885.0ft (Original Well Elev) |
| Site: | Andrews 26-23 Pad Sec.26-T7N-R65W | MD Reference: | WELL @ 4885.0ft (Original Well Elev) |
| Well: | Andrews 26-53 | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | Landmark |

| Survey | | | | | | | | | |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 6,940.8 | 0.79 | 252.69 | 6,904.8 | 446.4 | -116.5 | 461.1 | 0.31 | -0.04 | -22.25 |
| TARGET CIRCLE 1358'FSL & 1349'FWL | | | | | | | | | |
| 6,940.9 | 0.79 | 252.66 | 6,904.9 | 446.4 | -116.5 | 461.1 | 0.31 | -0.02 | -22.54 |
| LEGAL BOX 800' X 800' 1361'FSL, 1344'FWL | | | | | | | | | |
| 7,101.0 | 0.90 | 219.20 | 7,065.0 | 445.1 | -118.3 | 460.2 | 0.31 | 0.07 | -20.91 |
| 7,290.0 | 0.50 | 219.23 | 7,253.9 | 443.3 | -119.8 | 458.8 | 0.21 | -0.21 | 0.02 |
| 7,323.0 | 0.60 | 208.20 | 7,286.9 | 443.1 | -120.0 | 458.6 | 0.44 | 0.30 | -33.42 |
| 7,373.0 | 0.60 | 208.20 | 7,336.9 | 442.6 | -120.2 | 458.2 | 0.00 | 0.00 | 0.00 |

| Wellbore Targets | | | | | | | | | |
|--|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| TARGET BHL 1358'F: | 0.00 | 0.00 | 4,500.0 | 432.1 | -97.3 | 1,441,527.81 | 3,240,413.24 | 40.542175 | -104.634961 |
| - survey misses target center by 7.4ft at 4535.6ft MD (4500.5 TVD, 426.5 N, -102.0 E) | | | | | | | | | |
| - Point | | | | | | | | | |
| LEGAL BOX 800' X 800' 1361'FSL, 1344'FWL | 0.00 | 0.00 | 6,905.0 | 435.1 | -102.3 | 1,441,530.76 | 3,240,408.19 | 40.542183 | -104.634979 |
| - survey misses target center by 18.1ft at 6940.9ft MD (6904.9 TVD, 446.4 N, -116.5 E) | | | | | | | | | |
| - Rectangle (sides W800.0 H800.0 D455.0) | | | | | | | | | |
| TARGET CIRCLE 1358'FSL & 1349'FWL | 0.00 | 0.00 | 6,905.0 | 432.1 | -97.3 | 1,441,527.81 | 3,240,413.24 | 40.542175 | -104.634961 |
| - survey misses target center by 24.0ft at 6940.8ft MD (6904.8 TVD, 446.4 N, -116.5 E) | | | | | | | | | |
| - Circle (radius 100.0) | | | | | | | | | |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|