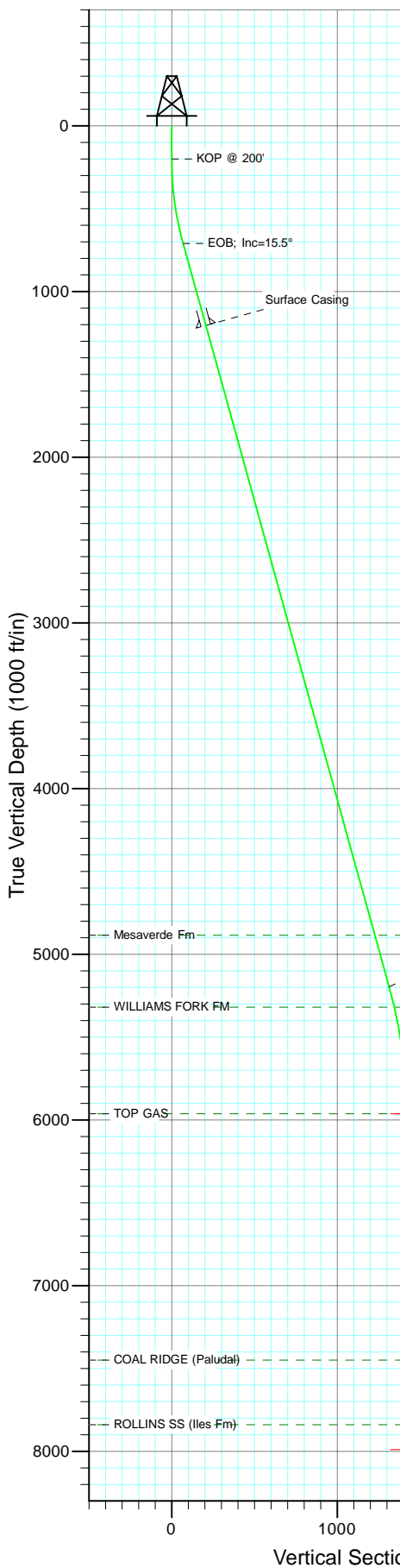
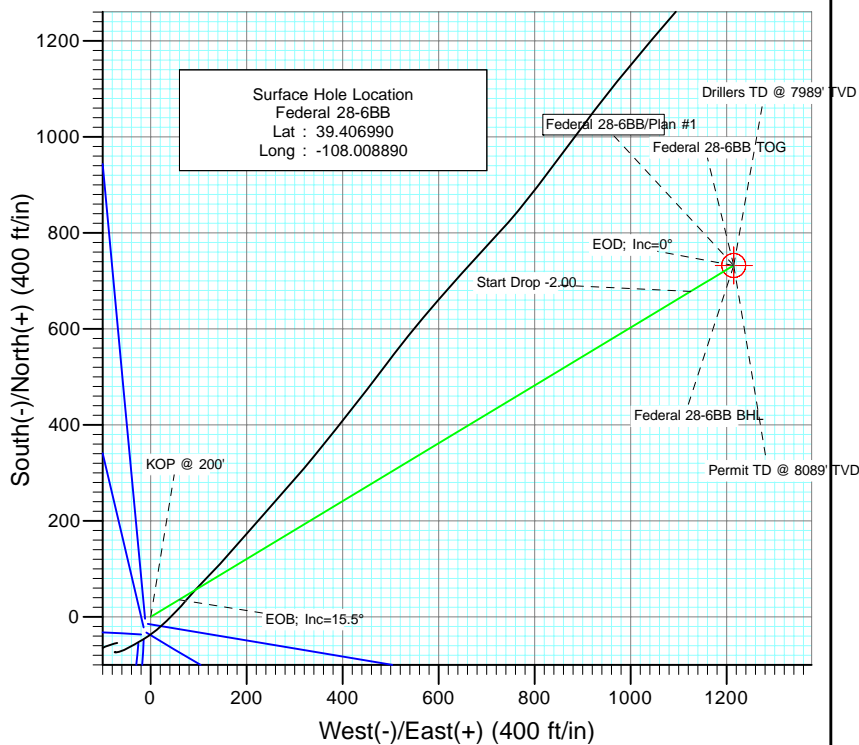




Project: S. Piceance
Site: PL 28 Pad (S28-T7S-R95W)
Well: Federal 28-6BB
Wellbore: DD
Design: Plan #1



| SECTION DETAILS | | | | | | | | | | |
|-----------------|--------|-------|-------|--------|-------|--------|------|--------|--------|--------------------|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | V Sect | Target |
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 716.9 | 15.51 | 58.93 | 710.6 | 35.9 | 59.5 | 3.00 | 58.93 | 69.5 | |
| 4 | 5372.9 | 15.51 | 58.93 | 5197.1 | 678.3 | 1125.7 | 0.00 | 0.00 | 1314.2 | |
| 5 | 6148.2 | 0.00 | 0.00 | 5963.0 | 732.1 | 1215.0 | 2.00 | 180.00 | 1418.5 | Federal 28-6BB TOG |
| 6 | 8174.2 | 0.00 | 0.00 | 7989.0 | 732.1 | 1215.0 | 0.00 | 0.00 | 1418.5 | Federal 28-6BB BHL |
| 7 | 8274.2 | 0.00 | 0.00 | 8089.0 | 732.1 | 1215.0 | 0.00 | 0.00 | 1418.5 | |



| FORMATION TOP DETAILS | | | |
|-----------------------|--------|----------------------|--|
| TVDPath | MDPath | Formation | |
| 4885.0 | 5049.0 | Mesaverde Fm | |
| 5319.0 | 5498.6 | WILLIAMS FORK FM | |
| 5963.0 | 6148.2 | TOP GAS | |
| 7449.0 | 7634.2 | COAL RIDGE (Paludal) | |
| 7839.0 | 8024.2 | ROLLINS SS (Iles Fm) | |



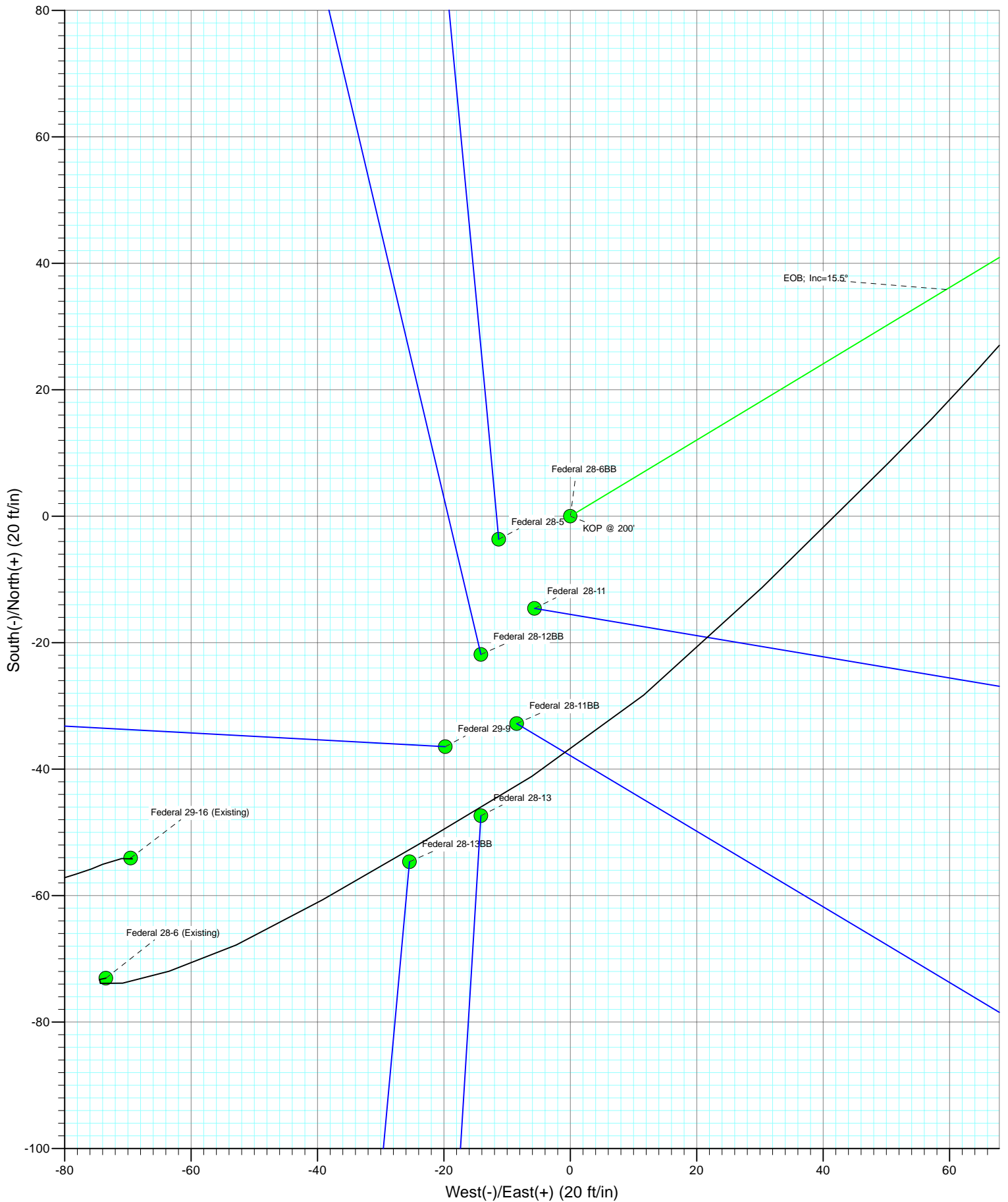
Azimuths to True North
Magnetic North: 10.45°

Magnetic Field
Strength: 52322.0snT
Dip Angle: 65.70°
Date: 6/11/2010
Model: IGRF200510

| Plan #1 Federal 28-6BB Job #10xxx: KR | | | | | |
|--|--------------------|---------|--------|-----------|-------------|
| WELL @ 7186.0ft (Original Well Elev) North American Datum 1983 Well Federal 28-6BB, True North | | | | | |
| Type | Target | Azimuth | Origin | Type | N/S |
| Target | Federal 28-6BB BHL | 58.93 | Slot | 0.0 | 0.0 |
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
| Federal 28-6BB BHL | 7989.0 | 732.1 | 1215.0 | 39.409000 | -108.004590 |



Project: S. Piceance
Site: PL 28 Pad (S28-T7S-R95W)
Well: Federal 28-6BB
Wellbore: DD
Design: Plan #1



Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site: | PL 28 Pad (S28-T7S-R95W) | North Reference: | True |
| Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|----------------------------------|----------------------|----------------|
| Project | S. Piceance, Garfield County, CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | | |
|-----------------------|----------|--------------------------|-----------------|-------------------|-------------|
| Site | | PL 28 Pad (S28-T7S-R95W) | | | |
| Site Position: | | Northing: | 1,582,914.36 ft | Latitude: | 39.406980 |
| From: | Lat/Long | Easting: | 2,291,178.00 ft | Longitude: | -108.008930 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.58 ° |

| Well | Federal 28-6BB | | | | | |
|----------------------|----------------|--------|---------------------|-----------------|---------------|-------------|
| Well Position | +N/-S | 0.0 ft | Northing: | 1,582,917.68 ft | Latitude: | 39.406990 |
| | +E/-W | 0.0 ft | Easting: | 2,291,189.40 ft | Longitude: | -108.008890 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 7,164.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 6/11/2010 | 10.45 | 65.70 | 52,322 |

| | | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|--|
| Design | Plan #1 | | | | |
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 | |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) | |
| | 0.0 | 0.0 | 0.0 | 58.93 | |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|--------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 716.9 | 15.51 | 58.93 | 710.6 | 35.9 | 59.5 | 3.00 | 3.00 | 0.00 | 58.93 | |
| 5,372.9 | 15.51 | 58.93 | 5,197.1 | 678.3 | 1,125.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,148.2 | 0.00 | 0.00 | 5,963.0 | 732.1 | 1,215.0 | 2.00 | -2.00 | 0.00 | 180.00 | Federal 28-6BB TOG |
| 8,174.2 | 0.00 | 0.00 | 7,989.0 | 732.1 | 1,215.0 | 0.00 | 0.00 | 0.00 | 0.00 | Federal 28-6BB BHL |
| 8,274.2 | 0.00 | 0.00 | 8,089.0 | 732.1 | 1,215.0 | 0.00 | 0.00 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site: | PL 28 Pad (S28-T7S-R95W) | North Reference: | True |
| Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 200' |
| 300.0 | 3.00 | 58.93 | 300.0 | 1.4 | 2.2 | 2.6 | 3.00 | 3.00 | |
| 400.0 | 6.00 | 58.93 | 399.6 | 5.4 | 9.0 | 10.5 | 3.00 | 3.00 | |
| 500.0 | 9.00 | 58.93 | 498.8 | 12.1 | 20.1 | 23.5 | 3.00 | 3.00 | |
| 600.0 | 12.00 | 58.93 | 597.1 | 21.5 | 35.7 | 41.7 | 3.00 | 3.00 | |
| 700.0 | 15.00 | 58.93 | 694.3 | 33.6 | 55.7 | 65.1 | 3.00 | 3.00 | |
| 716.9 | 15.51 | 58.93 | 710.6 | 35.9 | 59.5 | 69.5 | 3.00 | 3.00 | EOB; Inc=15.5° |
| 800.0 | 15.51 | 58.93 | 790.7 | 47.3 | 78.6 | 91.7 | 0.00 | 0.00 | |
| 900.0 | 15.51 | 58.93 | 887.0 | 61.1 | 101.5 | 118.5 | 0.00 | 0.00 | |
| 1,000.0 | 15.51 | 58.93 | 983.4 | 74.9 | 124.4 | 145.2 | 0.00 | 0.00 | |
| 1,100.0 | 15.51 | 58.93 | 1,079.8 | 88.7 | 147.3 | 171.9 | 0.00 | 0.00 | |
| 1,200.0 | 15.51 | 58.93 | 1,176.1 | 102.5 | 170.2 | 198.7 | 0.00 | 0.00 | |
| 1,230.0 | 15.51 | 58.93 | 1,205.0 | 106.7 | 177.0 | 206.7 | 0.00 | 0.00 | Surface Casing |
| 1,300.0 | 15.51 | 58.93 | 1,272.5 | 116.3 | 193.1 | 225.4 | 0.00 | 0.00 | |
| 1,400.0 | 15.51 | 58.93 | 1,368.8 | 130.1 | 216.0 | 252.1 | 0.00 | 0.00 | |
| 1,500.0 | 15.51 | 58.93 | 1,465.2 | 143.9 | 238.9 | 278.9 | 0.00 | 0.00 | |
| 1,600.0 | 15.51 | 58.93 | 1,561.6 | 157.7 | 261.8 | 305.6 | 0.00 | 0.00 | |
| 1,700.0 | 15.51 | 58.93 | 1,657.9 | 171.5 | 284.7 | 332.3 | 0.00 | 0.00 | |
| 1,800.0 | 15.51 | 58.93 | 1,754.3 | 185.3 | 307.6 | 359.1 | 0.00 | 0.00 | |
| 1,900.0 | 15.51 | 58.93 | 1,850.7 | 199.1 | 330.4 | 385.8 | 0.00 | 0.00 | |
| 2,000.0 | 15.51 | 58.93 | 1,947.0 | 212.9 | 353.3 | 412.5 | 0.00 | 0.00 | |
| 2,100.0 | 15.51 | 58.93 | 2,043.4 | 226.7 | 376.2 | 439.3 | 0.00 | 0.00 | |
| 2,200.0 | 15.51 | 58.93 | 2,139.7 | 240.5 | 399.1 | 466.0 | 0.00 | 0.00 | |
| 2,300.0 | 15.51 | 58.93 | 2,236.1 | 254.3 | 422.0 | 492.7 | 0.00 | 0.00 | |
| 2,400.0 | 15.51 | 58.93 | 2,332.5 | 268.1 | 444.9 | 519.5 | 0.00 | 0.00 | |
| 2,500.0 | 15.51 | 58.93 | 2,428.8 | 281.9 | 467.8 | 546.2 | 0.00 | 0.00 | |
| 2,600.0 | 15.51 | 58.93 | 2,525.2 | 295.7 | 490.7 | 572.9 | 0.00 | 0.00 | |
| 2,700.0 | 15.51 | 58.93 | 2,621.5 | 309.5 | 513.6 | 599.7 | 0.00 | 0.00 | |
| 2,800.0 | 15.51 | 58.93 | 2,717.9 | 323.3 | 536.5 | 626.4 | 0.00 | 0.00 | |
| 2,900.0 | 15.51 | 58.93 | 2,814.3 | 337.1 | 559.4 | 653.1 | 0.00 | 0.00 | |
| 3,000.0 | 15.51 | 58.93 | 2,910.6 | 350.9 | 582.3 | 679.9 | 0.00 | 0.00 | |
| 3,100.0 | 15.51 | 58.93 | 3,007.0 | 364.7 | 605.2 | 706.6 | 0.00 | 0.00 | |
| 3,200.0 | 15.51 | 58.93 | 3,103.3 | 378.5 | 628.1 | 733.3 | 0.00 | 0.00 | |
| 3,300.0 | 15.51 | 58.93 | 3,199.7 | 392.3 | 651.0 | 760.1 | 0.00 | 0.00 | |
| 3,400.0 | 15.51 | 58.93 | 3,296.1 | 406.1 | 673.9 | 786.8 | 0.00 | 0.00 | |
| 3,500.0 | 15.51 | 58.93 | 3,392.4 | 419.9 | 696.8 | 813.5 | 0.00 | 0.00 | |
| 3,600.0 | 15.51 | 58.93 | 3,488.8 | 433.7 | 719.7 | 840.3 | 0.00 | 0.00 | |
| 3,700.0 | 15.51 | 58.93 | 3,585.1 | 447.5 | 742.6 | 867.0 | 0.00 | 0.00 | |
| 3,800.0 | 15.51 | 58.93 | 3,681.5 | 461.3 | 765.5 | 893.7 | 0.00 | 0.00 | |
| 3,900.0 | 15.51 | 58.93 | 3,777.9 | 475.1 | 788.4 | 920.5 | 0.00 | 0.00 | |
| 4,000.0 | 15.51 | 58.93 | 3,874.2 | 488.9 | 811.3 | 947.2 | 0.00 | 0.00 | |
| 4,100.0 | 15.51 | 58.93 | 3,970.6 | 502.7 | 834.2 | 974.0 | 0.00 | 0.00 | |
| 4,200.0 | 15.51 | 58.93 | 4,066.9 | 516.5 | 857.1 | 1,000.7 | 0.00 | 0.00 | |
| 4,300.0 | 15.51 | 58.93 | 4,163.3 | 530.3 | 880.0 | 1,027.4 | 0.00 | 0.00 | |
| 4,400.0 | 15.51 | 58.93 | 4,259.7 | 544.1 | 902.9 | 1,054.2 | 0.00 | 0.00 | |
| 4,500.0 | 15.51 | 58.93 | 4,356.0 | 557.9 | 925.8 | 1,080.9 | 0.00 | 0.00 | |
| 4,600.0 | 15.51 | 58.93 | 4,452.4 | 571.7 | 948.7 | 1,107.6 | 0.00 | 0.00 | |
| 4,700.0 | 15.51 | 58.93 | 4,548.7 | 585.5 | 971.6 | 1,134.4 | 0.00 | 0.00 | |
| 4,800.0 | 15.51 | 58.93 | 4,645.1 | 599.3 | 994.5 | 1,161.1 | 0.00 | 0.00 | |
| 4,900.0 | 15.51 | 58.93 | 4,741.5 | 613.1 | 1,017.4 | 1,187.8 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site: | PL 28 Pad (S28-T7S-R95W) | North Reference: | True |
| Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 5,000.0 | 15.51 | 58.93 | 4,837.8 | 626.9 | 1,040.3 | 1,214.6 | 0.00 | 0.00 | |
| 5,049.0 | 15.51 | 58.93 | 4,885.0 | 633.6 | 1,051.5 | 1,227.6 | 0.00 | 0.00 | Mesaverde Fm |
| 5,100.0 | 15.51 | 58.93 | 4,934.2 | 640.7 | 1,063.2 | 1,241.3 | 0.00 | 0.00 | |
| 5,200.0 | 15.51 | 58.93 | 5,030.5 | 654.5 | 1,086.1 | 1,268.0 | 0.00 | 0.00 | |
| 5,300.0 | 15.51 | 58.93 | 5,126.9 | 668.3 | 1,109.0 | 1,294.8 | 0.00 | 0.00 | |
| 5,372.9 | 15.51 | 58.93 | 5,197.1 | 678.3 | 1,125.7 | 1,314.2 | 0.00 | 0.00 | Start Drop -2.00 |
| 5,400.0 | 14.96 | 58.93 | 5,223.3 | 682.0 | 1,131.8 | 1,321.4 | 2.00 | -2.00 | |
| 5,498.6 | 12.99 | 58.93 | 5,319.0 | 694.3 | 1,152.2 | 1,345.2 | 2.00 | -2.00 | WILLIAMS FORK FM |
| 5,500.0 | 12.96 | 58.93 | 5,320.3 | 694.5 | 1,152.4 | 1,345.5 | 2.00 | -2.00 | |
| 5,600.0 | 10.96 | 58.93 | 5,418.2 | 705.2 | 1,170.2 | 1,366.2 | 2.00 | -2.00 | |
| 5,700.0 | 8.96 | 58.93 | 5,516.6 | 714.1 | 1,185.0 | 1,383.5 | 2.00 | -2.00 | |
| 5,800.0 | 6.96 | 58.93 | 5,615.7 | 721.2 | 1,196.9 | 1,397.4 | 2.00 | -2.00 | |
| 5,900.0 | 4.96 | 58.93 | 5,715.1 | 726.6 | 1,205.8 | 1,407.8 | 2.00 | -2.00 | |
| 6,000.0 | 2.96 | 58.93 | 5,814.9 | 730.2 | 1,211.7 | 1,414.7 | 2.00 | -2.00 | |
| 6,100.0 | 0.96 | 58.93 | 5,914.8 | 731.9 | 1,214.6 | 1,418.1 | 2.00 | -2.00 | |
| 6,148.2 | 0.00 | 0.00 | 5,963.0 | 732.1 | 1,215.0 | 1,418.5 | 2.00 | -2.00 | EOD; Inc=0° - TOP GAS - Federal 28-6BB TOC |
| 6,200.0 | 0.00 | 0.00 | 6,014.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,300.0 | 0.00 | 0.00 | 6,114.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,400.0 | 0.00 | 0.00 | 6,214.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,500.0 | 0.00 | 0.00 | 6,314.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,600.0 | 0.00 | 0.00 | 6,414.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,700.0 | 0.00 | 0.00 | 6,514.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,800.0 | 0.00 | 0.00 | 6,614.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,714.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 6,814.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 6,914.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,200.0 | 0.00 | 0.00 | 7,014.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,114.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,214.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,314.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,414.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,634.2 | 0.00 | 0.00 | 7,449.0 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | COAL RIDGE (Paludal) |
| 7,700.0 | 0.00 | 0.00 | 7,514.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,614.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,714.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,814.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 8,024.2 | 0.00 | 0.00 | 7,839.0 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | ROLLINS SS (Iles Fm) |
| 8,100.0 | 0.00 | 0.00 | 7,914.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 8,174.2 | 0.00 | 0.00 | 7,989.0 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | Drillers TD @ 7989' TVD - Federal 28-6BB BHL |
| 8,200.0 | 0.00 | 0.00 | 8,014.8 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | |
| 8,274.2 | 0.00 | 0.00 | 8,089.0 | 732.1 | 1,215.0 | 1,418.5 | 0.00 | 0.00 | Permit TD @ 8089' TVD |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site: | PL 28 Pad (S28-T7S-R95W) | North Reference: | True |
| Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Targets | | | | | | | | | |
|---------------------------|-----------|----------|---------|-------|---------|--------------|--------------|-----------|-------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| Federal 28-6BB BHL | 0.00 | 0.00 | 7,989.0 | 732.1 | 1,215.0 | 1,583,616.00 | 2,292,424.11 | 39.409000 | -108.004590 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 25.0) | | | | | | | | | |
| Federal 28-6BB TOG | 0.00 | 0.00 | 5,963.0 | 732.1 | 1,215.0 | 1,583,616.00 | 2,292,424.11 | 39.409000 | -108.004590 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|----------------|----------------|----------------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | | | Casing Diameter | Hole Diameter |
| (ft) | (ft) | Name | | (in) | (in) |
| 1,230.0 | 1,205.0 | Surface Casing | | 0.000 | 0.000 |

| Formations | | | | | | |
|----------------|----------------|----------------------|-----------|--|-----|---------------|
| Measured Depth | Vertical Depth | | | | Dip | Dip Direction |
| (ft) | (ft) | Name | Lithology | | (°) | (°) |
| 5,049.0 | 4,885.0 | Mesaverde Fm | | | | |
| 5,498.6 | 5,319.0 | WILLIAMS FORK FM | | | | |
| 6,148.2 | 5,963.0 | TOP GAS | | | | |
| 7,634.2 | 7,449.0 | COAL RIDGE (Paludal) | | | | |
| 8,024.2 | 7,839.0 | ROLLINS SS (Iles Fm) | | | | |

| Plan Annotations | | | | | |
|------------------|----------------|-------------------|---------|-------------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | | |
| (ft) | (ft) | +N/-S | +E/-W | Comment | |
| (ft) | (ft) | (ft) | (ft) | | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' | |
| 716.9 | 710.6 | 35.9 | 59.5 | EOB; Inc=15.5° | |
| 5,372.9 | 5,197.1 | 678.3 | 1,125.7 | Start Drop -2.00 | |
| 6,148.2 | 5,963.0 | 732.1 | 1,215.0 | EOD; Inc=0° | |
| 8,174.2 | 7,989.0 | 732.1 | 1,215.0 | Drillers TD @ 7989' TVD | |
| 8,274.2 | 8,089.0 | 732.1 | 1,215.0 | Permit TD @ 8089' TVD | |

EnCana Oil & Gas (USA) Inc

S. Piceance

PL 28 Pad (S28-T7S-R95W)

Federal 28-6BB

DD

Plan #1

Anticollision Report

26 July, 2010

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Reference | Plan #1 | | |
|------------------------------|---|----------------|---------------------|
| Filter type: | GLOBAL FILTER APPLIED: All wellpaths within 200'+ 100/1000 of reference | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 100.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| Survey Tool Program | | Date | 7/26/2010 | | |
|---------------------|------------|-------------------|-----------|-------------|--|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 8,274.2 | Plan #1 (DD) | MWD | Geolink MWD | |

| Summary | | | | | | |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| PL 28 Pad (S28-T7S-R95W) | | | | | | |
| Federal 28-11 - DD - Plan #1 | 200.0 | 200.0 | 15.6 | 15.0 | 25.150 | CC, ES |
| Federal 28-11 - DD - Plan #1 | 400.0 | 400.1 | 22.1 | 20.7 | 15.760 | SF |
| Federal 28-11BB - DD - Plan #1 | 200.0 | 200.0 | 33.9 | 33.2 | 54.494 | CC, ES |
| Federal 28-11BB - DD - Plan #1 | 600.0 | 593.5 | 75.9 | 73.4 | 30.141 | SF |
| Federal 28-12BB - DD - Plan #1 | 200.0 | 200.0 | 26.0 | 25.4 | 41.882 | CC, ES |
| Federal 28-12BB - DD - Plan #1 | 400.0 | 400.9 | 30.8 | 29.4 | 22.709 | SF |
| Federal 28-13 - DD - Plan #1 | 200.0 | 200.0 | 49.4 | 48.8 | 79.533 | CC, ES |
| Federal 28-13 - DD - Plan #1 | 400.0 | 393.5 | 67.2 | 65.8 | 50.452 | SF |
| Federal 28-13BB - DD - Plan #1 | 200.0 | 200.0 | 60.3 | 59.6 | 96.996 | CC, ES |
| Federal 28-13BB - DD - Plan #1 | 500.0 | 495.2 | 83.0 | 81.3 | 49.209 | SF |
| Federal 28-5 - DD - Plan #1 | 200.0 | 200.0 | 11.9 | 11.3 | 19.107 | CC, ES |
| Federal 28-5 - DD - Plan #1 | 300.0 | 300.1 | 14.0 | 13.0 | 14.286 | SF |
| Federal 28-6 (Existing) - DD - Schlumberger Surveys | 1,577.1 | 1,611.8 | 66.0 | 55.8 | 6.482 | CC |
| Federal 28-6 (Existing) - DD - Schlumberger Surveys | 1,600.0 | 1,634.4 | 66.1 | 55.3 | 6.149 | ES |
| Federal 28-6 (Existing) - DD - Schlumberger Surveys | 1,900.0 | 1,931.6 | 80.5 | 63.6 | 4.767 | SF |
| Federal 29-16 (Existing) - DD - Schlumberger surveys | 172.4 | 172.4 | 87.9 | 87.4 | 167.341 | CC |
| Federal 29-16 (Existing) - DD - Schlumberger surveys | 200.0 | 199.9 | 87.9 | 87.3 | 141.500 | ES |
| Federal 29-16 (Existing) - DD - Schlumberger surveys | 300.0 | 299.0 | 91.0 | 90.0 | 93.939 | SF |
| Federal 29-9 - DD - Plan #1 | 200.0 | 200.0 | 41.5 | 40.8 | 66.712 | CC, ES |
| Federal 29-9 - DD - Plan #1 | 400.0 | 396.2 | 56.8 | 55.4 | 42.225 | SF |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 28-11 - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -158.80 | -14.6 | -5.7 | 15.6 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -158.80 | -14.6 | -5.7 | 15.6 | 15.4 | 0.27 | 57.394 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -158.80 | -14.6 | -5.7 | 15.6 | 15.0 | 0.62 | 25.150 CC, ES | |
| 300.0 | 300.0 | 300.1 | 300.1 | 0.5 | 0.5 | 139.02 | -15.0 | -3.1 | 17.2 | 16.2 | 0.98 | 17.503 | |
| 400.0 | 399.6 | 400.1 | 399.7 | 0.7 | 0.7 | 132.11 | -16.3 | 4.7 | 22.1 | 20.7 | 1.40 | 15.760 SF | |
| 500.0 | 498.8 | 499.6 | 498.4 | 1.0 | 1.0 | 125.62 | -18.4 | 17.5 | 30.7 | 28.8 | 1.94 | 15.828 | |
| 600.0 | 597.1 | 598.6 | 595.7 | 1.4 | 1.4 | 120.88 | -21.4 | 35.2 | 43.0 | 40.4 | 2.62 | 16.390 | |
| 700.0 | 694.3 | 697.0 | 691.5 | 1.8 | 1.8 | 117.98 | -25.1 | 57.4 | 58.8 | 55.4 | 3.44 | 17.111 | |
| 800.0 | 790.7 | 795.5 | 787.1 | 2.3 | 2.2 | 118.09 | -29.0 | 80.5 | 76.5 | 72.2 | 4.29 | 17.841 | |
| 900.0 | 887.0 | 893.9 | 882.7 | 2.8 | 2.7 | 118.24 | -32.9 | 103.6 | 94.1 | 89.0 | 5.15 | 18.280 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 28-11BB - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -165.50 | -32.8 | -8.5 | 33.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -165.50 | -32.8 | -8.5 | 33.9 | 33.6 | 0.27 | 124.358 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -165.50 | -32.8 | -8.5 | 33.9 | 33.2 | 0.62 | 54.494 CC, ES | | |
| 300.0 | 300.0 | 299.4 | 299.4 | 0.5 | 0.5 | 134.48 | -34.1 | -6.3 | 36.5 | 35.5 | 0.98 | 37.171 | | |
| 400.0 | 399.6 | 398.4 | 398.1 | 0.7 | 0.7 | 131.95 | -38.1 | 0.4 | 44.3 | 42.9 | 1.39 | 31.816 | | |
| 500.0 | 498.8 | 496.6 | 495.4 | 1.0 | 1.0 | 129.22 | -44.6 | 11.3 | 57.5 | 55.6 | 1.90 | 30.302 | | |
| 600.0 | 597.1 | 593.5 | 590.7 | 1.4 | 1.3 | 126.90 | -53.5 | 26.2 | 75.9 | 73.4 | 2.52 | 30.141 SF | | |
| 700.0 | 694.3 | 688.9 | 683.5 | 1.8 | 1.8 | 125.06 | -64.7 | 44.9 | 99.5 | 96.2 | 3.27 | 30.386 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 28-12BB - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -147.12 | -21.9 | -14.1 | 26.0 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -147.12 | -21.9 | -14.1 | 26.0 | 25.8 | 0.27 | 95.577 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -147.12 | -21.9 | -14.1 | 26.0 | 25.4 | 0.62 | 41.882 CC, ES | |
| 300.0 | 300.0 | 300.9 | 300.8 | 0.5 | 0.5 | 160.56 | -19.3 | -14.7 | 26.7 | 25.7 | 0.98 | 27.328 | |
| 400.0 | 399.6 | 400.9 | 400.6 | 0.7 | 0.7 | 176.84 | -11.9 | -16.5 | 30.8 | 29.4 | 1.36 | 22.709 SF | |
| 500.0 | 498.8 | 500.0 | 499.3 | 1.0 | 0.9 | -171.02 | -3.6 | -18.4 | 41.7 | 39.9 | 1.75 | 23.836 | |
| 600.0 | 597.1 | 598.5 | 597.4 | 1.4 | 1.1 | -165.37 | 4.7 | -20.4 | 58.6 | 56.5 | 2.15 | 27.209 | |
| 700.0 | 694.3 | 695.9 | 694.5 | 1.8 | 1.4 | -163.28 | 12.8 | -22.3 | 80.8 | 78.2 | 2.57 | 31.428 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 28-13 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -163.39 | -47.4 | -14.1 | 49.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -163.39 | -47.4 | -14.1 | 49.4 | 49.1 | 0.27 | 181.499 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -163.39 | -47.4 | -14.1 | 49.4 | 48.8 | 0.62 | 79.533 CC, ES | | |
| 300.0 | 300.0 | 297.3 | 297.3 | 0.5 | 0.5 | 138.83 | -49.8 | -14.3 | 53.8 | 52.9 | 0.97 | 55.540 | | |
| 400.0 | 399.6 | 393.5 | 393.1 | 0.7 | 0.7 | 141.30 | -57.1 | -14.7 | 67.2 | 65.8 | 1.33 | 50.452 SF | | |
| 500.0 | 498.8 | 487.3 | 486.2 | 1.0 | 1.0 | 143.69 | -68.9 | -15.4 | 89.4 | 87.7 | 1.72 | 52.101 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 28-13BB - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|-------------------|---------------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -155.04 | -54.6 | -25.4 | 60.3 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -155.04 | -54.6 | -25.4 | 60.3 | 60.0 | 0.27 | 221.349 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -155.04 | -54.6 | -25.4 | 60.3 | 59.6 | 0.62 | 96.996 CC, ES | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 147.34 | -54.6 | -25.4 | 62.5 | 61.5 | 0.97 | 64.236 | | |
| 400.0 | 399.6 | 399.6 | 399.6 | 0.7 | 0.7 | 150.74 | -54.6 | -25.4 | 69.2 | 67.9 | 1.33 | 52.045 | | |
| 500.0 | 498.8 | 495.2 | 495.1 | 1.0 | 0.8 | 154.14 | -57.0 | -25.6 | 83.0 | 81.3 | 1.69 | 49.209 SF | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 28-5 - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -107.82 | -3.6 | -11.3 | 11.9 | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -107.82 | -3.6 | -11.3 | 11.9 | 11.6 | 0.27 | 43.604 | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -107.82 | -3.6 | -11.3 | 11.9 | 11.3 | 0.62 | 19.107 CC, ES | |
| 300.0 | 300.0 | 300.1 | 300.0 | 0.5 | 0.5 | -158.68 | -1.0 | -11.5 | 14.0 | 13.0 | 0.98 | 14.286 SF | |
| 400.0 | 399.6 | 399.6 | 399.3 | 0.7 | 0.7 | -145.09 | 6.7 | -12.3 | 21.3 | 19.9 | 1.39 | 15.340 | |
| 500.0 | 498.8 | 498.3 | 497.1 | 1.0 | 1.0 | -135.88 | 19.5 | -13.5 | 34.5 | 32.6 | 1.89 | 18.246 | |
| 600.0 | 597.1 | 595.7 | 592.8 | 1.4 | 1.3 | -130.64 | 37.0 | -15.1 | 53.3 | 50.8 | 2.50 | 21.299 | |
| 700.0 | 694.3 | 692.8 | 687.9 | 1.8 | 1.7 | -129.01 | 57.2 | -17.0 | 76.7 | 73.5 | 3.19 | 24.039 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | PL 28 Pad (S28-T7S-R95W) - Federal 28-6 (Existing) - DD - Schlumberger Surveys | | Offset Site Error: | | 0.0 ft | |
|---------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|--|--|--------------------|--|--------|--|
| Survey Program: | | | | | | | | | | | | 141-MWD | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | | | | |
| 1,200.0 | 1,176.1 | 1,239.8 | 1,209.6 | 4.3 | 4.7 | -179.23 | 59.6 | 96.5 | 91.6 | 87.3 | 4.27 | 21.463 | | | | | |
| 1,300.0 | 1,272.5 | 1,339.3 | 1,301.5 | 4.8 | 5.3 | -172.09 | 86.9 | 122.6 | 81.7 | 76.7 | 4.98 | 16.413 | | | | | |
| 1,400.0 | 1,368.8 | 1,438.2 | 1,392.8 | 5.3 | 6.0 | -162.83 | 114.8 | 148.9 | 72.9 | 66.6 | 6.27 | 11.618 | | | | | |
| 1,500.0 | 1,465.2 | 1,536.2 | 1,483.2 | 5.8 | 6.7 | -151.08 | 142.8 | 174.0 | 67.3 | 59.0 | 8.31 | 8.104 | | | | | |
| 1,577.1 | 1,539.5 | 1,611.8 | 1,553.3 | 6.2 | 7.2 | -141.34 | 164.3 | 192.7 | 66.0 | 55.8 | 10.18 | 6.482 CC | | | | | |
| 1,600.0 | 1,561.6 | 1,634.4 | 1,574.3 | 6.3 | 7.4 | -138.45 | 170.6 | 198.2 | 66.1 | 55.3 | 10.75 | 6.149 ES | | | | | |
| 1,700.0 | 1,657.9 | 1,733.3 | 1,666.2 | 6.8 | 8.0 | -126.53 | 198.0 | 222.0 | 68.5 | 55.4 | 13.11 | 5.227 | | | | | |
| 1,800.0 | 1,754.3 | 1,832.5 | 1,758.7 | 7.3 | 8.7 | -116.31 | 224.9 | 245.6 | 73.6 | 58.5 | 15.14 | 4.862 | | | | | |
| 1,900.0 | 1,850.7 | 1,931.6 | 1,850.8 | 7.8 | 9.4 | -106.91 | 252.4 | 270.1 | 80.5 | 63.6 | 16.90 | 4.767 SF | | | | | |
| 2,000.0 | 1,947.0 | 2,029.9 | 1,941.4 | 8.3 | 10.1 | -98.27 | 280.8 | 295.1 | 89.6 | 71.2 | 18.32 | 4.889 | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | PL 28 Pad (S28-T7S-R95W) - Federal 29-16 (Existing) - DD - Schlumberger surveys | | Offset Site Error: | | 0.0 ft | |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|-------------------|---|--|--------------------|--|--------|--|
| Survey Program: | | 110-MWD | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty | Separation Factor | | | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -127.86 | -54.1 | -69.5 | 88.1 | | | | | | | | |
| 100.0 | 100.0 | 100.2 | 100.2 | 0.1 | 0.1 | -127.99 | -54.2 | -69.3 | 88.0 | 87.7 | 0.28 | 318.618 | | | | | |
| 172.4 | 172.4 | 172.4 | 172.4 | 0.3 | 0.3 | -128.11 | -54.2 | -69.2 | 87.9 | 87.4 | 0.53 | 167.341 CC | | | | | |
| 200.0 | 200.0 | 199.9 | 199.9 | 0.3 | 0.3 | -128.09 | -54.2 | -69.2 | 87.9 | 87.3 | 0.62 | 141.500 ES | | | | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 173.51 | -54.1 | -69.9 | 91.0 | 90.0 | 0.97 | 93.939 SF | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design PL 28 Pad (S28-T7S-R95W) - Federal 29-9 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -151.50 | -36.4 | -19.8 | 41.5 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -151.50 | -36.4 | -19.8 | 41.5 | 41.2 | 0.27 | 152.241 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -151.50 | -36.4 | -19.8 | 41.5 | 40.8 | 0.62 | 66.712 CC, ES | | |
| 300.0 | 300.0 | 298.8 | 298.8 | 0.5 | 0.5 | 154.15 | -36.3 | -22.3 | 45.0 | 44.0 | 0.98 | 46.089 | | |
| 400.0 | 399.6 | 396.2 | 395.9 | 0.7 | 0.7 | 164.10 | -35.9 | -29.8 | 56.8 | 55.4 | 1.34 | 42.225 SF | | |
| 500.0 | 498.8 | 490.8 | 489.7 | 1.0 | 1.0 | 173.48 | -35.2 | -41.8 | 78.5 | 76.8 | 1.71 | 45.910 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Federal 28-6BB |
| Project: | S. Piceance | TVD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Reference Site: | PL 28 Pad (S28-T7S-R95W) | MD Reference: | WELL @ 7186.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Federal 28-6BB | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 7186.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: Federal 28-6BB
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.58°

