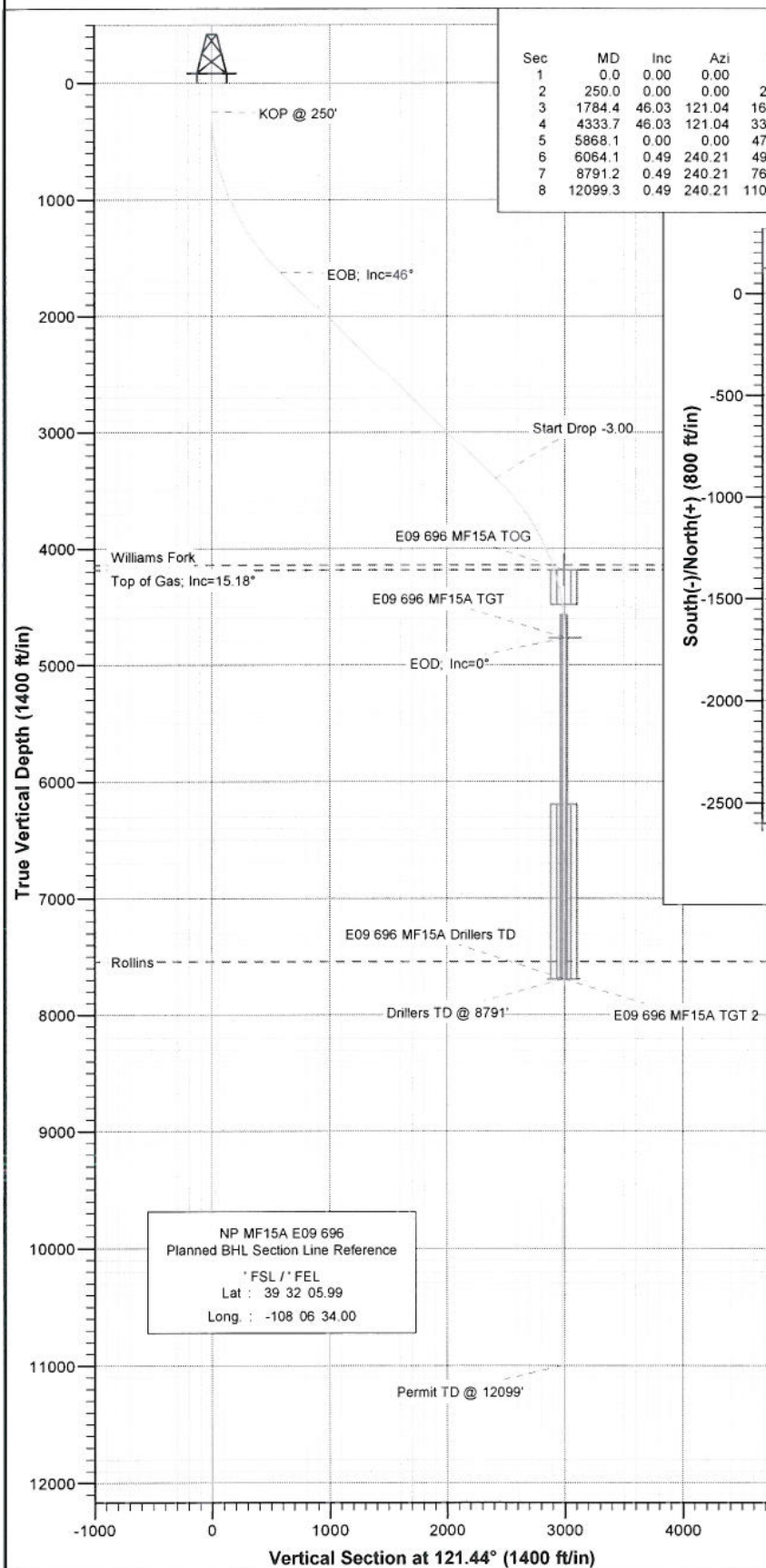
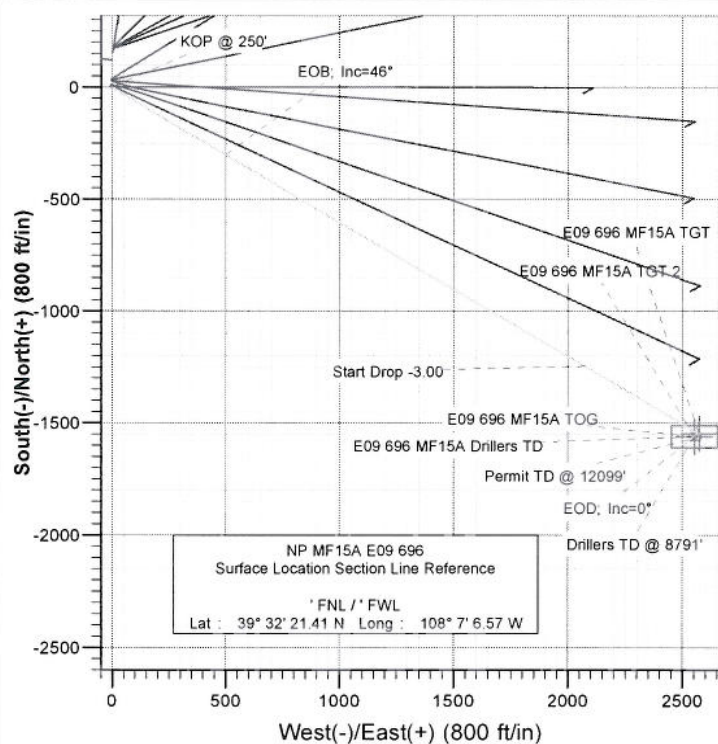




Project: North Piceance
 Site: E09 696 (SWNW S9-T6S-R96W)
 Well: NP MF15A E09 696
 Wellbore: DD
 Plan: Plan #2



| SECTION DETAILS | | | | | | | | | | |
|-----------------|---------|-------|--------|---------|---------|--------|------|--------|--------|---------------------------|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1784.4 | 46.03 | 121.04 | 1624.6 | -301.1 | 500.3 | 3.00 | 121.04 | 583.9 | |
| 4 | 4333.7 | 46.03 | 121.04 | 3394.4 | -1247.1 | 2072.5 | 0.00 | 0.00 | 2418.7 | |
| 5 | 5868.1 | 0.00 | 0.00 | 4769.0 | -1548.1 | 2572.8 | 3.00 | 180.00 | 3002.6 | E09 696 MF15A TGT |
| 6 | 6064.1 | 0.49 | 240.21 | 4965.0 | -1548.5 | 2572.1 | 0.25 | 240.21 | 3002.2 | |
| 7 | 8791.2 | 0.49 | 240.21 | 7692.0 | -1560.1 | 2551.8 | 0.00 | 0.00 | 2991.0 | E09 696 MF15A Drillers TD |
| 8 | 12099.3 | 0.49 | 240.21 | 11000.0 | -1574.2 | 2527.3 | 0.00 | 0.00 | 2977.4 | |



FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|--------|------------------------|
| 4142.0 | 5229.2 | Williams Fork |
| 4182.0 | 5271.4 | Top of Gas; Inc=15.18° |
| 7542.0 | 8641.2 | Rollins |



Azimuths to True North
 Magnetic North: 10.89°

Magnetic Field
 Strength: 52667.4snT
 Dip Angle: 65.86°
 Date: 8/9/2007
 Model: IGRF200510

DESIGN DETAILS: Plan #2

Job# 75xxx; LR
 WELL @ 5772.0ft (Original Well Elev)

| Target | Azimuth | Origin Type | N/S | E/W | From TVD |
|----------------------------------|---------|-------------|-----|-----|----------|
| E09 696 MF15A Drillers TD 121.44 | Slot | | 0.0 | 0.0 | 0.0 |

Cathedral Energy Services

Planning Report

| | | | |
|-----------|-------------------------------|------------------------------|--------------------------------------|
| Database: | EDM 2003.21 US Multi Users DB | Local Co-ordinate Reference: | Well NP MF15A E09 696 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Project: | North Piceance | MD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Site: | E09 696 (SWNW S9-T6S-R96W) | North Reference: | True |
| Well: | NP MF15A E09 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #2 | | |

| | | | |
|-------------|---------------------------|---------------|----------------|
| Project | North Piceance | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | | |
|-----------------------|----------------------------|--------------|-----------------|-------------------|-----------------|
| Site | E09 696 (SWNW S9-T6S-R96W) | | | | |
| Site Position: | | Northing: | 1,632,140.57 ft | Latitude: | 39° 32' 23.23 N |
| From: | Lat/Long | Easting: | 2,261,634.68 ft | Longitude: | 108° 7' 6.47 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | in | Grid Convergence: | -1.65 ° |

| | | | | | | |
|----------------------|------------------|---------------------|-----------|-----------------|------------|-----------------|
| Well | NP MF15A E09 696 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,631,956.76 ft | Latitude: | 39° 32' 21.41 N |
| | +E/-W | 0.0 ft | Easting: | 2,261,621.58 ft | Longitude: | 108° 7' 6.57 W |
| Position Uncertainty | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 5,756.0 ft | |

| | | | | | |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 8/9/2007 | 10.89 | 65.86 | 52,667 |

| | | | | |
|-------------------|--------------------------|---------------|---------------|------------------|
| Design | Plan #2 | | | |
| 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 | 121.44 |

| 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 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,784.4 | 46.03 | 121.04 | 1,624.6 | -301.1 | 500.3 | 3.00 | 3.00 | 0.00 | 121.04 | |
| 4,333.7 | 46.03 | 121.04 | 3,394.4 | -1,247.1 | 2,072.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,868.1 | 0.00 | 0.00 | 4,769.0 | -1,548.1 | 2,572.8 | 3.00 | -3.00 | 0.00 | 180.00 | E09 696 MF15A TGT |
| 6,064.1 | 0.49 | 240.21 | 4,965.0 | -1,548.5 | 2,572.1 | 0.25 | 0.25 | -61.12 | 240.21 | |
| 8,791.2 | 0.49 | 240.21 | 7,692.0 | -1,560.1 | 2,551.8 | 0.00 | 0.00 | 0.00 | 0.00 | E09 696 MF15A Drille |
| 12,099.3 | 0.49 | 240.21 | 11,000.0 | -1,574.2 | 2,527.3 | 0.00 | 0.00 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|-----------|-------------------------------|------------------------------|--------------------------------------|
| Database: | EDM 2003.21 US Multi Users DB | Local Co-ordinate Reference: | Well NP MF15A E09 696 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Project: | North Piceance | MD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Site: | E09 696 (SWNW S9-T6S-R96W) | North Reference: | True |
| Well: | NP MF15A E09 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #2 | | |

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 | |
| 30.0 | 0.00 | 0.00 | 30.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 60.0 | 0.00 | 0.00 | 60.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 90.0 | 0.00 | 0.00 | 90.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 150.0 | 0.00 | 0.00 | 150.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 180.0 | 0.00 | 0.00 | 180.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 210.0 | 0.00 | 0.00 | 210.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 240.0 | 0.00 | 0.00 | 240.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 250' |
| 270.0 | 0.60 | 121.04 | 270.0 | -0.1 | 0.1 | 0.1 | 3.00 | 3.00 | |
| 300.0 | 1.50 | 121.04 | 300.0 | -0.3 | 0.6 | 0.7 | 3.00 | 3.00 | |
| 330.0 | 2.40 | 121.04 | 330.0 | -0.9 | 1.4 | 1.7 | 3.00 | 3.00 | |
| 360.0 | 3.30 | 121.04 | 359.9 | -1.6 | 2.7 | 3.2 | 3.00 | 3.00 | |
| 390.0 | 4.20 | 121.04 | 389.9 | -2.6 | 4.4 | 5.1 | 3.00 | 3.00 | |
| 420.0 | 5.10 | 121.04 | 419.8 | -3.9 | 6.5 | 7.6 | 3.00 | 3.00 | |
| 450.0 | 6.00 | 121.04 | 449.6 | -5.4 | 9.0 | 10.5 | 3.00 | 3.00 | |
| 480.0 | 6.90 | 121.04 | 479.4 | -7.1 | 11.9 | 13.8 | 3.00 | 3.00 | |
| 510.0 | 7.80 | 121.04 | 509.2 | -9.1 | 15.1 | 17.7 | 3.00 | 3.00 | |
| 540.0 | 8.70 | 121.04 | 538.9 | -11.3 | 18.8 | 22.0 | 3.00 | 3.00 | |
| 570.0 | 9.60 | 121.04 | 568.5 | -13.8 | 22.9 | 26.7 | 3.00 | 3.00 | |
| 600.0 | 10.50 | 121.04 | 598.0 | -16.5 | 27.4 | 32.0 | 3.00 | 3.00 | |
| 630.0 | 11.40 | 121.04 | 627.5 | -19.4 | 32.3 | 37.7 | 3.00 | 3.00 | |
| 660.0 | 12.30 | 121.04 | 656.9 | -22.6 | 37.6 | 43.8 | 3.00 | 3.00 | |
| 690.0 | 13.20 | 121.04 | 686.1 | -26.0 | 43.2 | 50.5 | 3.00 | 3.00 | |
| 720.0 | 14.10 | 121.04 | 715.3 | -29.7 | 49.3 | 57.5 | 3.00 | 3.00 | |
| 750.0 | 15.00 | 121.04 | 744.3 | -33.6 | 55.8 | 65.1 | 3.00 | 3.00 | |
| 780.0 | 15.90 | 121.04 | 773.2 | -37.7 | 62.6 | 73.1 | 3.00 | 3.00 | |
| 810.0 | 16.80 | 121.04 | 802.0 | -42.0 | 69.8 | 81.5 | 3.00 | 3.00 | |
| 840.0 | 17.70 | 121.04 | 830.7 | -46.6 | 77.5 | 90.4 | 3.00 | 3.00 | |
| 870.0 | 18.60 | 121.04 | 859.2 | -51.4 | 85.5 | 99.8 | 3.00 | 3.00 | |
| 900.0 | 19.50 | 121.04 | 887.5 | -56.5 | 93.9 | 109.5 | 3.00 | 3.00 | |
| 930.0 | 20.40 | 121.04 | 915.7 | -61.8 | 102.6 | 119.8 | 3.00 | 3.00 | |
| 960.0 | 21.30 | 121.04 | 943.8 | -67.3 | 111.8 | 130.5 | 3.00 | 3.00 | |
| 990.0 | 22.20 | 121.04 | 971.6 | -73.0 | 121.3 | 141.6 | 3.00 | 3.00 | |
| 1,020.0 | 23.10 | 121.04 | 999.3 | -79.0 | 131.2 | 153.1 | 3.00 | 3.00 | |
| 1,050.0 | 24.00 | 121.04 | 1,026.8 | -85.1 | 141.5 | 165.1 | 3.00 | 3.00 | |
| 1,080.0 | 24.90 | 121.04 | 1,054.1 | -91.5 | 152.1 | 177.5 | 3.00 | 3.00 | |
| 1,110.0 | 25.80 | 121.04 | 1,081.2 | -98.2 | 163.1 | 190.4 | 3.00 | 3.00 | |
| 1,140.0 | 26.70 | 121.04 | 1,108.1 | -105.0 | 174.5 | 203.6 | 3.00 | 3.00 | |
| 1,170.0 | 27.60 | 121.04 | 1,134.8 | -112.1 | 186.2 | 217.3 | 3.00 | 3.00 | |
| 1,200.0 | 28.50 | 121.04 | 1,161.3 | -119.3 | 198.3 | 231.4 | 3.00 | 3.00 | |
| 1,230.0 | 29.40 | 121.04 | 1,187.6 | -126.8 | 210.8 | 246.0 | 3.00 | 3.00 | |
| 1,260.0 | 30.30 | 121.04 | 1,213.6 | -134.5 | 223.5 | 260.9 | 3.00 | 3.00 | |
| 1,290.0 | 31.20 | 121.04 | 1,239.4 | -142.4 | 236.7 | 276.2 | 3.00 | 3.00 | |
| 1,320.0 | 32.10 | 121.04 | 1,264.9 | -150.5 | 250.2 | 292.0 | 3.00 | 3.00 | |
| 1,350.0 | 33.00 | 121.04 | 1,290.2 | -158.9 | 264.0 | 308.1 | 3.00 | 3.00 | |
| 1,380.0 | 33.90 | 121.04 | 1,315.2 | -167.4 | 278.2 | 324.6 | 3.00 | 3.00 | |
| 1,410.0 | 34.80 | 121.04 | 1,340.0 | -176.1 | 292.7 | 341.6 | 3.00 | 3.00 | |
| 1,440.0 | 35.70 | 121.04 | 1,364.5 | -185.0 | 307.5 | 358.9 | 3.00 | 3.00 | |
| 1,470.0 | 36.60 | 121.04 | 1,388.7 | -194.2 | 322.7 | 376.6 | 3.00 | 3.00 | |
| 1,500.0 | 37.50 | 121.04 | 1,412.6 | -203.5 | 338.2 | 394.7 | 3.00 | 3.00 | |

Cathedral Energy Services

Planning Report

Database: EDM 2003.21 US Multi Users DB
 Company: EnCana Oil & Gas (USA) Inc
 Project: North Piceance
 Site: E09 696 (SWNW S9-T6S-R96W)
 Well: NP MF15A E09 696
 Wellbore: DD
 Design: Plan #2

Local Co-ordinate Reference: Well NP MF15A E09 696
 TVD Reference: WELL @ 5772.0ft (Original Well Elev)
 MD Reference: WELL @ 5772.0ft (Original Well Elev)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 1,530.0 | 38.40 | 121.04 | 1,436.3 | -213.0 | 354.0 | 413.1 | 3.00 | 3.00 | |
| 1,560.0 | 39.30 | 121.04 | 1,459.7 | -222.7 | 370.1 | 431.9 | 3.00 | 3.00 | |
| 1,590.0 | 40.20 | 121.04 | 1,482.7 | -232.6 | 386.5 | 451.1 | 3.00 | 3.00 | |
| 1,620.0 | 41.10 | 121.04 | 1,505.5 | -242.7 | 403.3 | 470.6 | 3.00 | 3.00 | |
| 1,650.0 | 42.00 | 121.04 | 1,527.9 | -252.9 | 420.3 | 490.5 | 3.00 | 3.00 | |
| 1,680.0 | 42.90 | 121.04 | 1,550.1 | -263.4 | 437.7 | 510.8 | 3.00 | 3.00 | |
| 1,710.0 | 43.80 | 121.04 | 1,571.9 | -274.0 | 455.3 | 531.4 | 3.00 | 3.00 | |
| 1,740.0 | 44.70 | 121.04 | 1,593.4 | -284.8 | 473.3 | 552.3 | 3.00 | 3.00 | |
| 1,770.0 | 45.60 | 121.04 | 1,614.5 | -295.7 | 491.5 | 573.6 | 3.00 | 3.00 | |
| 1,784.4 | 46.03 | 121.04 | 1,624.6 | -301.1 | 500.3 | 583.9 | 3.00 | 3.00 | EOB; Inc=46° |
| 1,800.0 | 46.03 | 121.04 | 1,635.4 | -306.9 | 510.0 | 595.1 | 0.00 | 0.00 | |
| 1,830.0 | 46.03 | 121.04 | 1,656.2 | -318.0 | 528.5 | 616.7 | 0.00 | 0.00 | |
| 1,860.0 | 46.03 | 121.04 | 1,677.1 | -329.1 | 547.0 | 638.3 | 0.00 | 0.00 | |
| 1,890.0 | 46.03 | 121.04 | 1,697.9 | -340.2 | 565.5 | 659.9 | 0.00 | 0.00 | |
| 1,920.0 | 46.03 | 121.04 | 1,718.7 | -351.4 | 584.0 | 681.5 | 0.00 | 0.00 | |
| 1,950.0 | 46.03 | 121.04 | 1,739.5 | -362.5 | 602.5 | 703.1 | 0.00 | 0.00 | |
| 1,980.0 | 46.03 | 121.04 | 1,760.4 | -373.6 | 621.0 | 724.7 | 0.00 | 0.00 | |
| 2,010.0 | 46.03 | 121.04 | 1,781.2 | -384.8 | 639.5 | 746.3 | 0.00 | 0.00 | |
| 2,040.0 | 46.03 | 121.04 | 1,802.0 | -395.9 | 658.0 | 767.9 | 0.00 | 0.00 | |
| 2,070.0 | 46.03 | 121.04 | 1,822.9 | -407.0 | 676.5 | 789.5 | 0.00 | 0.00 | |
| 2,100.0 | 46.03 | 121.04 | 1,843.7 | -418.2 | 695.0 | 811.1 | 0.00 | 0.00 | |
| 2,130.0 | 46.03 | 121.04 | 1,864.5 | -429.3 | 713.5 | 832.6 | 0.00 | 0.00 | |
| 2,160.0 | 46.03 | 121.04 | 1,885.3 | -440.4 | 732.0 | 854.2 | 0.00 | 0.00 | |
| 2,190.0 | 46.03 | 121.04 | 1,906.2 | -451.6 | 750.5 | 875.8 | 0.00 | 0.00 | |
| 2,220.0 | 46.03 | 121.04 | 1,927.0 | -462.7 | 769.0 | 897.4 | 0.00 | 0.00 | |
| 2,250.0 | 46.03 | 121.04 | 1,947.8 | -473.8 | 787.5 | 919.0 | 0.00 | 0.00 | |
| 2,280.0 | 46.03 | 121.04 | 1,968.6 | -485.0 | 806.0 | 940.6 | 0.00 | 0.00 | |
| 2,310.0 | 46.03 | 121.04 | 1,989.5 | -496.1 | 824.5 | 962.2 | 0.00 | 0.00 | |
| 2,340.0 | 46.03 | 121.04 | 2,010.3 | -507.2 | 843.0 | 983.8 | 0.00 | 0.00 | |
| 2,370.0 | 46.03 | 121.04 | 2,031.1 | -518.4 | 861.5 | 1,005.4 | 0.00 | 0.00 | |
| 2,400.0 | 46.03 | 121.04 | 2,052.0 | -529.5 | 880.0 | 1,027.0 | 0.00 | 0.00 | |
| 2,430.0 | 46.03 | 121.04 | 2,072.8 | -540.6 | 898.5 | 1,048.6 | 0.00 | 0.00 | |
| 2,460.0 | 46.03 | 121.04 | 2,093.6 | -551.8 | 917.0 | 1,070.2 | 0.00 | 0.00 | |
| 2,490.0 | 46.03 | 121.04 | 2,114.4 | -562.9 | 935.5 | 1,091.7 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

Database: EDM 2003.21 US Multi Users DB
Company: EnCana Oil & Gas (USA) Inc
Project: North Piceance
Site: E09 696 (SWNW S9-T6S-R96W)
Well: NP MF15A E09 696
Wellbore: DD
Design: Plan #2

Local Co-ordinate Reference: Well NP MF15A E09 696
TVD Reference: WELL @ 5772.0ft (Original Well Elev)
MD Reference: WELL @ 5772.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------------------|
| 2,500.0 | 46.03 | 121.04 | 2,121.4 | -566.6 | 941.6 | 1,098.9 | 0.00 | 0.00 | |
| 2,600.0 | 46.03 | 121.04 | 2,190.8 | -603.7 | 1,003.3 | 1,170.9 | 0.00 | 0.00 | |
| 2,700.0 | 46.03 | 121.04 | 2,260.2 | -640.8 | 1,065.0 | 1,242.9 | 0.00 | 0.00 | |
| 2,800.0 | 46.03 | 121.04 | 2,329.7 | -677.9 | 1,126.6 | 1,314.9 | 0.00 | 0.00 | |
| 2,900.0 | 46.03 | 121.04 | 2,399.1 | -715.0 | 1,188.3 | 1,386.8 | 0.00 | 0.00 | |
| 3,000.0 | 46.03 | 121.04 | 2,468.5 | -752.1 | 1,250.0 | 1,458.8 | 0.00 | 0.00 | |
| 3,100.0 | 46.03 | 121.04 | 2,537.9 | -789.3 | 1,311.7 | 1,530.8 | 0.00 | 0.00 | |
| 3,200.0 | 46.03 | 121.04 | 2,607.4 | -826.4 | 1,373.3 | 1,602.7 | 0.00 | 0.00 | |
| 3,300.0 | 46.03 | 121.04 | 2,676.8 | -863.5 | 1,435.0 | 1,674.7 | 0.00 | 0.00 | |
| 3,400.0 | 46.03 | 121.04 | 2,746.2 | -900.6 | 1,496.7 | 1,746.7 | 0.00 | 0.00 | |
| 3,500.0 | 46.03 | 121.04 | 2,815.6 | -937.7 | 1,558.3 | 1,818.7 | 0.00 | 0.00 | |
| 3,600.0 | 46.03 | 121.04 | 2,885.1 | -974.8 | 1,620.0 | 1,890.6 | 0.00 | 0.00 | |
| 3,700.0 | 46.03 | 121.04 | 2,954.5 | -1,011.9 | 1,681.7 | 1,962.6 | 0.00 | 0.00 | |
| 3,800.0 | 46.03 | 121.04 | 3,023.9 | -1,049.0 | 1,743.3 | 2,034.6 | 0.00 | 0.00 | |
| 3,900.0 | 46.03 | 121.04 | 3,093.3 | -1,086.1 | 1,805.0 | 2,106.5 | 0.00 | 0.00 | |
| 4,000.0 | 46.03 | 121.04 | 3,162.8 | -1,123.2 | 1,866.7 | 2,178.5 | 0.00 | 0.00 | |
| 4,100.0 | 46.03 | 121.04 | 3,232.2 | -1,160.3 | 1,928.4 | 2,250.5 | 0.00 | 0.00 | |
| 4,200.0 | 46.03 | 121.04 | 3,301.6 | -1,197.4 | 1,990.0 | 2,322.5 | 0.00 | 0.00 | |
| 4,300.0 | 46.03 | 121.04 | 3,371.0 | -1,234.6 | 2,051.7 | 2,394.4 | 0.00 | 0.00 | |
| 4,333.7 | 46.03 | 121.04 | 3,394.4 | -1,247.1 | 2,072.5 | 2,418.7 | 0.00 | 0.00 | Start Drop -3.00 |
| 4,400.0 | 44.04 | 121.04 | 3,441.3 | -1,271.2 | 2,112.7 | 2,465.6 | 3.00 | -3.00 | |
| 4,500.0 | 41.04 | 121.04 | 3,514.9 | -1,306.1 | 2,170.6 | 2,533.2 | 3.00 | -3.00 | |
| 4,600.0 | 38.04 | 121.04 | 3,592.1 | -1,338.9 | 2,225.1 | 2,596.9 | 3.00 | -3.00 | |
| 4,700.0 | 35.04 | 121.04 | 3,672.4 | -1,369.6 | 2,276.2 | 2,656.4 | 3.00 | -3.00 | |
| 4,800.0 | 32.04 | 121.04 | 3,755.7 | -1,398.1 | 2,323.5 | 2,711.6 | 3.00 | -3.00 | |
| 4,900.0 | 29.04 | 121.04 | 3,841.8 | -1,424.3 | 2,367.0 | 2,762.5 | 3.00 | -3.00 | |
| 5,000.0 | 26.04 | 121.04 | 3,930.5 | -1,448.1 | 2,406.7 | 2,808.7 | 3.00 | -3.00 | |
| 5,100.0 | 23.04 | 121.04 | 4,021.4 | -1,469.6 | 2,442.2 | 2,850.2 | 3.00 | -3.00 | |
| 5,200.0 | 20.04 | 121.04 | 4,114.4 | -1,488.5 | 2,473.7 | 2,886.9 | 3.00 | -3.00 | |
| 5,229.2 | 19.17 | 121.04 | 4,142.0 | -1,493.5 | 2,482.1 | 2,896.7 | 3.00 | -3.00 | Williams Fork |
| 5,271.4 | 17.90 | 121.04 | 4,182.0 | -1,500.5 | 2,493.6 | 2,910.2 | 3.00 | -3.00 | Top of Gas; Inc=15.18° |
| 5,295.7 | 17.17 | 121.04 | 4,205.1 | -1,504.2 | 2,499.9 | 2,917.5 | 3.00 | -3.00 | E09 696 MF15A TOG |
| 5,300.0 | 17.04 | 121.04 | 4,209.2 | -1,504.9 | 2,500.9 | 2,918.7 | 3.00 | -3.00 | |
| 5,400.0 | 14.04 | 121.04 | 4,305.6 | -1,518.7 | 2,523.9 | 2,945.5 | 3.00 | -3.00 | |
| 5,500.0 | 11.04 | 121.04 | 4,403.2 | -1,529.9 | 2,542.5 | 2,967.2 | 3.00 | -3.00 | |
| 5,600.0 | 8.04 | 121.04 | 4,501.8 | -1,538.4 | 2,556.7 | 2,983.8 | 3.00 | -3.00 | |
| 5,700.0 | 5.04 | 121.04 | 4,601.1 | -1,544.3 | 2,566.5 | 2,995.2 | 3.00 | -3.00 | |
| 5,800.0 | 2.04 | 121.04 | 4,700.9 | -1,547.5 | 2,571.8 | 3,001.4 | 3.00 | -3.00 | |
| 5,868.1 | 0.00 | 0.00 | 4,769.0 | -1,548.1 | 2,572.8 | 3,002.6 | 3.00 | -3.00 | EOD; Inc=0° - E09 696 MF15A TGT |
| 5,900.0 | 0.08 | 240.21 | 4,800.9 | -1,548.1 | 2,572.8 | 3,002.6 | 0.25 | 0.25 | |
| 6,000.0 | 0.33 | 240.21 | 4,900.9 | -1,548.3 | 2,572.5 | 3,002.4 | 0.25 | 0.25 | |
| 6,064.1 | 0.49 | 240.21 | 4,965.0 | -1,548.5 | 2,572.1 | 3,002.2 | 0.25 | 0.25 | |
| 6,100.0 | 0.49 | 240.21 | 5,000.9 | -1,548.7 | 2,571.8 | 3,002.0 | 0.00 | 0.00 | |
| 6,200.0 | 0.49 | 240.21 | 5,100.9 | -1,549.1 | 2,571.1 | 3,001.6 | 0.00 | 0.00 | |
| 6,300.0 | 0.49 | 240.21 | 5,200.9 | -1,549.5 | 2,570.3 | 3,001.2 | 0.00 | 0.00 | |
| 6,400.0 | 0.49 | 240.21 | 5,300.9 | -1,550.0 | 2,569.6 | 3,000.8 | 0.00 | 0.00 | |
| 6,500.0 | 0.49 | 240.21 | 5,400.9 | -1,550.4 | 2,568.9 | 3,000.4 | 0.00 | 0.00 | |
| 6,600.0 | 0.49 | 240.21 | 5,500.9 | -1,550.8 | 2,568.1 | 3,000.0 | 0.00 | 0.00 | |
| 6,700.0 | 0.49 | 240.21 | 5,600.9 | -1,551.2 | 2,567.4 | 2,999.6 | 0.00 | 0.00 | |
| 6,800.0 | 0.49 | 240.21 | 5,700.9 | -1,551.7 | 2,566.6 | 2,999.2 | 0.00 | 0.00 | |
| 6,900.0 | 0.49 | 240.21 | 5,800.9 | -1,552.1 | 2,565.9 | 2,998.8 | 0.00 | 0.00 | |
| 7,000.0 | 0.49 | 240.21 | 5,900.9 | -1,552.5 | 2,565.1 | 2,998.3 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|-----------|-------------------------------|------------------------------|--------------------------------------|
| Database: | EDM 2003.21 US Multi Users DB | Local Co-ordinate Reference: | Well NP MF15A E09 696 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Project: | North Piceance | MD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Site: | E09 696 (SWNW S9-T6S-R96W) | North Reference: | True |
| Well: | NP MF15A E09 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #2 | | |

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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--|
| 7,100.0 | 0.49 | 240.21 | 6,000.9 | -1,552.9 | 2,564.4 | 2,997.9 | 0.00 | 0.00 | |
| 7,200.0 | 0.49 | 240.21 | 6,100.9 | -1,553.4 | 2,563.7 | 2,997.5 | 0.00 | 0.00 | |
| 7,300.0 | 0.49 | 240.21 | 6,200.9 | -1,553.8 | 2,562.9 | 2,997.1 | 0.00 | 0.00 | |
| 7,400.0 | 0.49 | 240.21 | 6,300.9 | -1,554.2 | 2,562.2 | 2,996.7 | 0.00 | 0.00 | |
| 7,500.0 | 0.49 | 240.21 | 6,400.9 | -1,554.6 | 2,561.4 | 2,996.3 | 0.00 | 0.00 | |
| 7,600.0 | 0.49 | 240.21 | 6,500.8 | -1,555.1 | 2,560.7 | 2,995.9 | 0.00 | 0.00 | |
| 7,700.0 | 0.49 | 240.21 | 6,600.8 | -1,555.5 | 2,559.9 | 2,995.5 | 0.00 | 0.00 | |
| 7,800.0 | 0.49 | 240.21 | 6,700.8 | -1,555.9 | 2,559.2 | 2,995.1 | 0.00 | 0.00 | |
| 7,900.0 | 0.49 | 240.21 | 6,800.8 | -1,556.3 | 2,558.5 | 2,994.6 | 0.00 | 0.00 | |
| 8,000.0 | 0.49 | 240.21 | 6,900.8 | -1,556.8 | 2,557.7 | 2,994.2 | 0.00 | 0.00 | |
| 8,100.0 | 0.49 | 240.21 | 7,000.8 | -1,557.2 | 2,557.0 | 2,993.8 | 0.00 | 0.00 | |
| 8,200.0 | 0.49 | 240.21 | 7,100.8 | -1,557.6 | 2,556.2 | 2,993.4 | 0.00 | 0.00 | |
| 8,300.0 | 0.49 | 240.21 | 7,200.8 | -1,558.0 | 2,555.5 | 2,993.0 | 0.00 | 0.00 | |
| 8,400.0 | 0.49 | 240.21 | 7,300.8 | -1,558.5 | 2,554.7 | 2,992.6 | 0.00 | 0.00 | |
| 8,500.0 | 0.49 | 240.21 | 7,400.8 | -1,558.9 | 2,554.0 | 2,992.2 | 0.00 | 0.00 | |
| 8,600.0 | 0.49 | 240.21 | 7,500.8 | -1,559.3 | 2,553.3 | 2,991.8 | 0.00 | 0.00 | |
| 8,641.2 | 0.49 | 240.21 | 7,542.0 | -1,559.5 | 2,553.0 | 2,991.6 | 0.00 | 0.00 | Rollins |
| 8,700.0 | 0.49 | 240.21 | 7,600.8 | -1,559.7 | 2,552.5 | 2,991.3 | 0.00 | 0.00 | |
| 8,791.2 | 0.49 | 240.21 | 7,692.0 | -1,560.1 | 2,551.8 | 2,991.0 | 0.00 | 0.00 | Drillers TD @ 8791' - E09 696 MF15A Drillers T |
| 8,800.0 | 0.49 | 240.21 | 7,700.8 | -1,560.2 | 2,551.8 | 2,990.9 | 0.00 | 0.00 | |
| 8,900.0 | 0.49 | 240.21 | 7,800.8 | -1,560.6 | 2,551.0 | 2,990.5 | 0.00 | 0.00 | |
| 9,000.0 | 0.49 | 240.21 | 7,900.8 | -1,561.0 | 2,550.3 | 2,990.1 | 0.00 | 0.00 | |
| 9,100.0 | 0.49 | 240.21 | 8,000.8 | -1,561.4 | 2,549.6 | 2,989.7 | 0.00 | 0.00 | |
| 9,200.0 | 0.49 | 240.21 | 8,100.8 | -1,561.9 | 2,548.8 | 2,989.3 | 0.00 | 0.00 | |
| 9,300.0 | 0.49 | 240.21 | 8,200.8 | -1,562.3 | 2,548.1 | 2,988.9 | 0.00 | 0.00 | |
| 9,400.0 | 0.49 | 240.21 | 8,300.8 | -1,562.7 | 2,547.3 | 2,988.5 | 0.00 | 0.00 | |
| 9,500.0 | 0.49 | 240.21 | 8,400.8 | -1,563.1 | 2,546.6 | 2,988.1 | 0.00 | 0.00 | |
| 9,600.0 | 0.49 | 240.21 | 8,500.8 | -1,563.6 | 2,545.8 | 2,987.6 | 0.00 | 0.00 | |
| 9,700.0 | 0.49 | 240.21 | 8,600.8 | -1,564.0 | 2,545.1 | 2,987.2 | 0.00 | 0.00 | |
| 9,800.0 | 0.49 | 240.21 | 8,700.8 | -1,564.4 | 2,544.4 | 2,986.8 | 0.00 | 0.00 | |
| 9,900.0 | 0.49 | 240.21 | 8,800.8 | -1,564.8 | 2,543.6 | 2,986.4 | 0.00 | 0.00 | |
| 10,000.0 | 0.49 | 240.21 | 8,900.8 | -1,565.3 | 2,542.9 | 2,986.0 | 0.00 | 0.00 | |
| 10,100.0 | 0.49 | 240.21 | 9,000.8 | -1,565.7 | 2,542.1 | 2,985.6 | 0.00 | 0.00 | |
| 10,200.0 | 0.49 | 240.21 | 9,100.8 | -1,566.1 | 2,541.4 | 2,985.2 | 0.00 | 0.00 | |
| 10,300.0 | 0.49 | 240.21 | 9,200.7 | -1,566.5 | 2,540.6 | 2,984.8 | 0.00 | 0.00 | |
| 10,400.0 | 0.49 | 240.21 | 9,300.7 | -1,567.0 | 2,539.9 | 2,984.4 | 0.00 | 0.00 | |
| 10,500.0 | 0.49 | 240.21 | 9,400.7 | -1,567.4 | 2,539.2 | 2,983.9 | 0.00 | 0.00 | |
| 10,600.0 | 0.49 | 240.21 | 9,500.7 | -1,567.8 | 2,538.4 | 2,983.5 | 0.00 | 0.00 | |
| 10,700.0 | 0.49 | 240.21 | 9,600.7 | -1,568.2 | 2,537.7 | 2,983.1 | 0.00 | 0.00 | |
| 10,800.0 | 0.49 | 240.21 | 9,700.7 | -1,568.7 | 2,536.9 | 2,982.7 | 0.00 | 0.00 | |
| 10,900.0 | 0.49 | 240.21 | 9,800.7 | -1,569.1 | 2,536.2 | 2,982.3 | 0.00 | 0.00 | |
| 11,000.0 | 0.49 | 240.21 | 9,900.7 | -1,569.5 | 2,535.5 | 2,981.9 | 0.00 | 0.00 | |
| 11,100.0 | 0.49 | 240.21 | 10,000.7 | -1,569.9 | 2,534.7 | 2,981.5 | 0.00 | 0.00 | |
| 11,200.0 | 0.49 | 240.21 | 10,100.7 | -1,570.4 | 2,534.0 | 2,981.1 | 0.00 | 0.00 | |
| 11,300.0 | 0.49 | 240.21 | 10,200.7 | -1,570.8 | 2,533.2 | 2,980.6 | 0.00 | 0.00 | |
| 11,400.0 | 0.49 | 240.21 | 10,300.7 | -1,571.2 | 2,532.5 | 2,980.2 | 0.00 | 0.00 | |
| 11,500.0 | 0.49 | 240.21 | 10,400.7 | -1,571.6 | 2,531.7 | 2,979.8 | 0.00 | 0.00 | |
| 11,600.0 | 0.49 | 240.21 | 10,500.7 | -1,572.1 | 2,531.0 | 2,979.4 | 0.00 | 0.00 | |
| 11,700.0 | 0.49 | 240.21 | 10,600.7 | -1,572.5 | 2,530.3 | 2,979.0 | 0.00 | 0.00 | |
| 11,800.0 | 0.49 | 240.21 | 10,700.7 | -1,572.9 | 2,529.5 | 2,978.6 | 0.00 | 0.00 | |
| 11,900.0 | 0.49 | 240.21 | 10,800.7 | -1,573.3 | 2,528.8 | 2,978.2 | 0.00 | 0.00 | |
| 12,000.0 | 0.49 | 240.21 | 10,900.7 | -1,573.8 | 2,528.0 | 2,977.8 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|-----------|-------------------------------|------------------------------|--------------------------------------|
| Database: | EDM 2003.21 US Multi Users DB | Local Co-ordinate Reference: | Well NP MF15A E09 696 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Project: | North Piceance | MD Reference: | WELL @ 5772.0ft (Original Well Elev) |
| Site: | E09 696 (SWNW S9-T6S-R96W) | North Reference: | True |
| Well: | NP MF15A E09 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #2 | | |

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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 12,099.3 | 0.49 | 240.21 | 11,000.0 | -1,574.2 | 2,527.3 | 2,977.4 | 0.00 | 0.00 | Permit TD @ 12099' |

Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|----------------|-----------------|
| E09 696 MF15A Drillers - plan hits target center - Rectangle (sides W300.0 H500.0 D0.0) | 0.00 | 0.00 | 7,692.0 | -1,560.1 | 2,551.8 | 1,630,323.73 | 2,264,127.40 | 39° 32' 5.99 N | 108° 6' 34.00 W |
| E09 696 MF15A TOG - plan misses target center by 79.8ft at 5295.7ft MD (4205.1 TVD, -1504.2 N, 2499.9 E) - Rectangle (sides W100.0 H200.0 D300.0) | 0.00 | 0.00 | 4,182.0 | -1,560.1 | 2,551.8 | 1,630,323.73 | 2,264,127.40 | 39° 32' 5.99 N | 108° 6' 34.00 W |
| E09 696 MF15A TGT 2 - plan hits target center - Rectangle (sides W100.0 H200.0 D0.0) | 0.00 | 0.00 | 7,692.0 | -1,560.1 | 2,551.8 | 1,630,323.73 | 2,264,127.40 | 39° 32' 5.99 N | 108° 6' 34.00 W |
| E09 696 MF15A TGT - plan hits target center - Point | 0.00 | 0.00 | 4,769.0 | -1,548.1 | 2,572.8 | 1,630,335.13 | 2,264,148.71 | 39° 32' 6.11 N | 108° 6' 33.73 W |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|------------------------|-----------|---------|-------------------|
| 5,229.2 | 4,142.0 | Williams Fork | | 0.00 | |
| 5,271.4 | 4,182.0 | Top of Gas; Inc=15.18° | | 0.00 | |
| 8,641.2 | 7,542.0 | Rollins | | 0.00 | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | +E/-W (ft) | Comment |
|---------------------|---------------------|---------------------------------|------------|---------------------|
| 250.0 | 250.0 | 0.0 | 0.0 | KOP @ 250' |
| 1,784.4 | 1,624.6 | -301.1 | 500.3 | EOB; Inc=46° |
| 4,333.7 | 3,394.4 | -1,247.1 | 2,072.5 | Start Drop -3.00 |
| 5,868.1 | 4,769.0 | -1,548.1 | 2,572.8 | EOD; Inc=0° |
| 8,791.2 | 7,692.0 | -1,560.1 | 2,551.8 | Drillers TD @ 8791' |
| 12,099.3 | 11,000.0 | -1,574.2 | 2,527.3 | Permit TD @ 12099' |