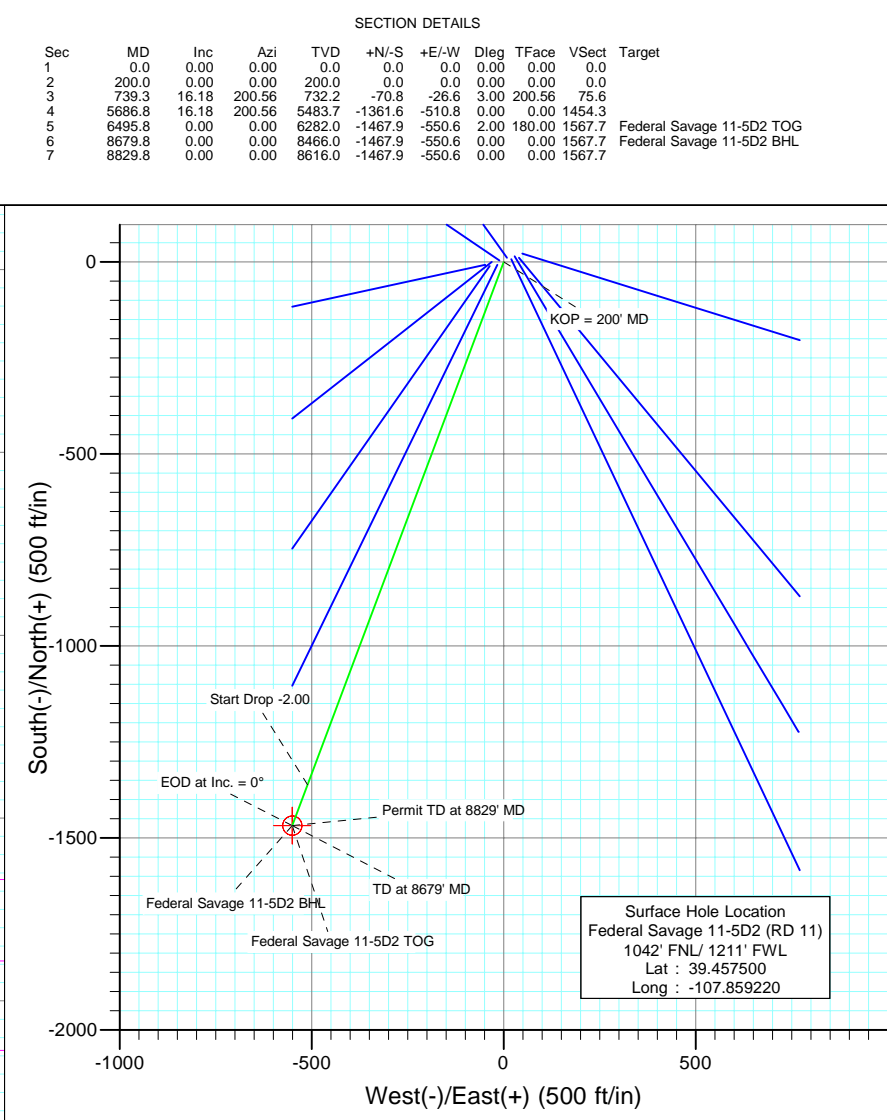
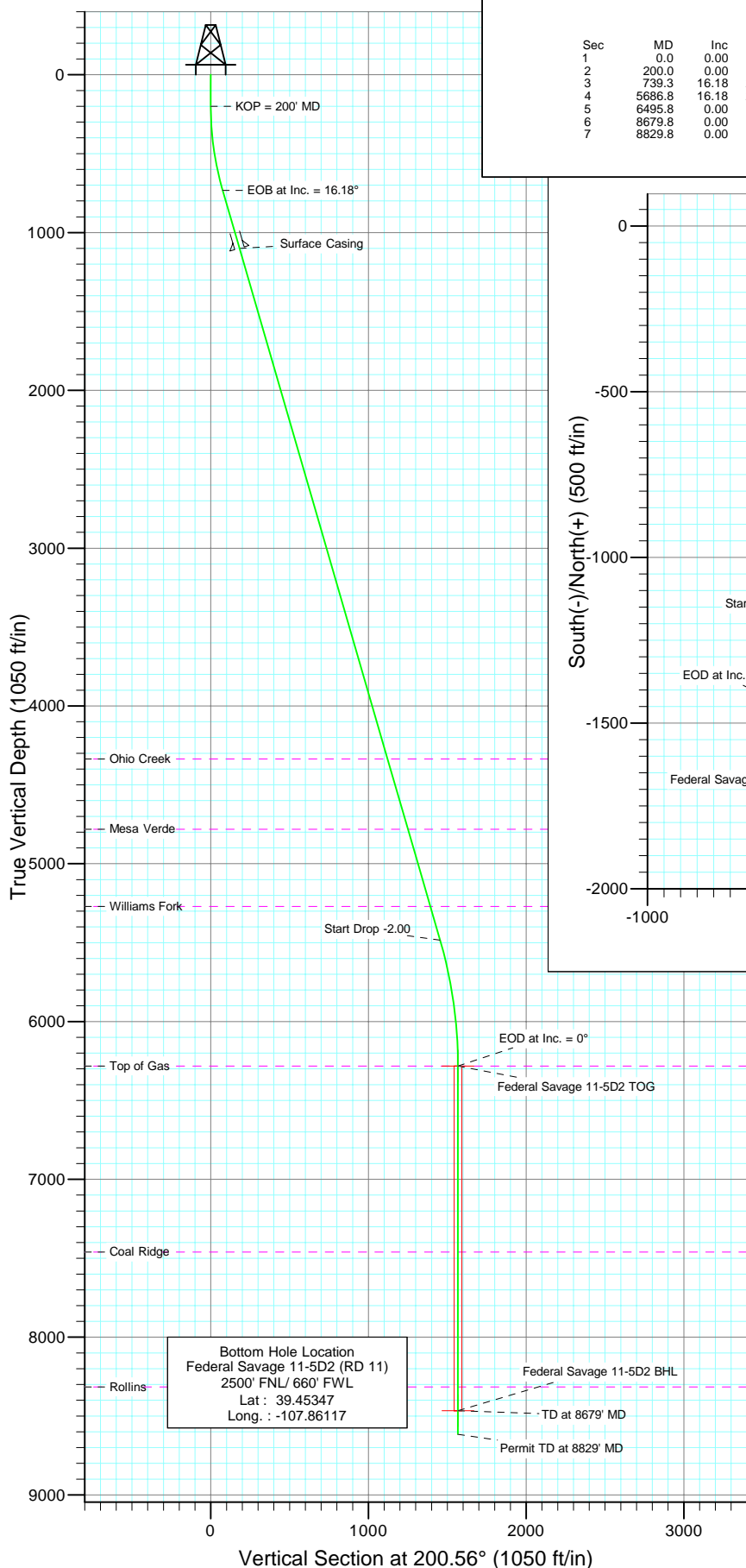




Project: S. Piceance
 Site: NWNW S11-T7S-R94W (RD 11 Pad)
 Well: Federal Savage 11-5D2 (RD 11)
 Wellbore: DD
 Design: Plan #2



Azimuths to True North
 Magnetic North: 10.44°

Magnetic Field
 Strength: 52361.5nT
 Dip Angle: 65.76°
 Date: 4/16/2010
 Model: IGRF2010

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|--------|---------------|
| 4336.0 | 4491.8 | Ohio Creek |
| 4781.0 | 4955.1 | Mesa Verde |
| 5271.0 | 5465.3 | Williams Fork |
| 6282.0 | 6495.8 | Top of Gas |
| 7461.0 | 7674.8 | Coal Ridge |
| 8316.0 | 8529.8 | Rollins |

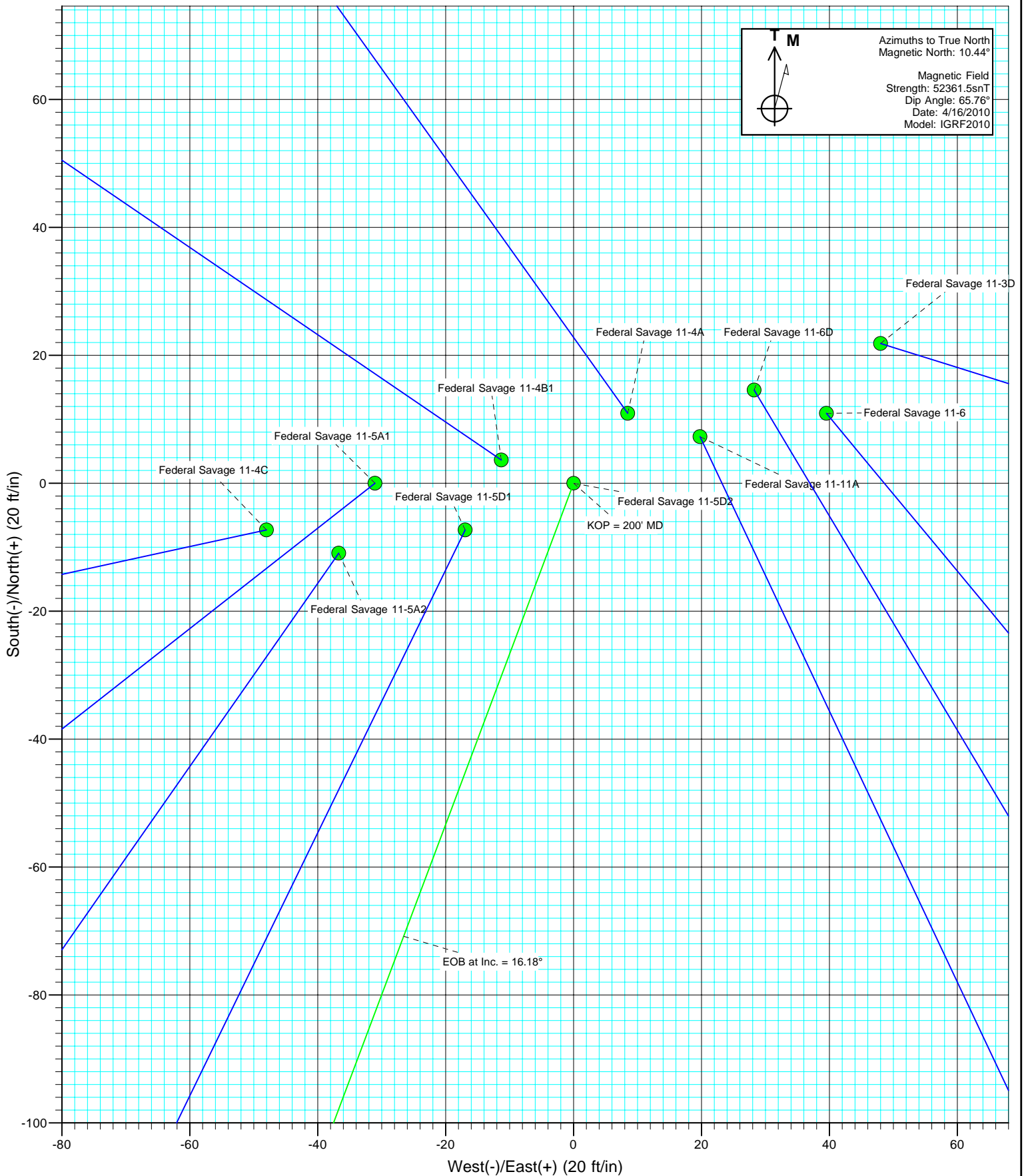
DESIGN DETAILS: Plan #2

105XXX; KR
 KBE @ 6405.0ft (Original Well Elev)

| Target | Azimuth | Origin | N/S | E/W | From TVD |
|---------------------------|---------|--------|-----|-----|----------|
| Federal Savage 11-5D2 BHL | 200.56 | Slot | 0.0 | 0.0 | 0.0 |

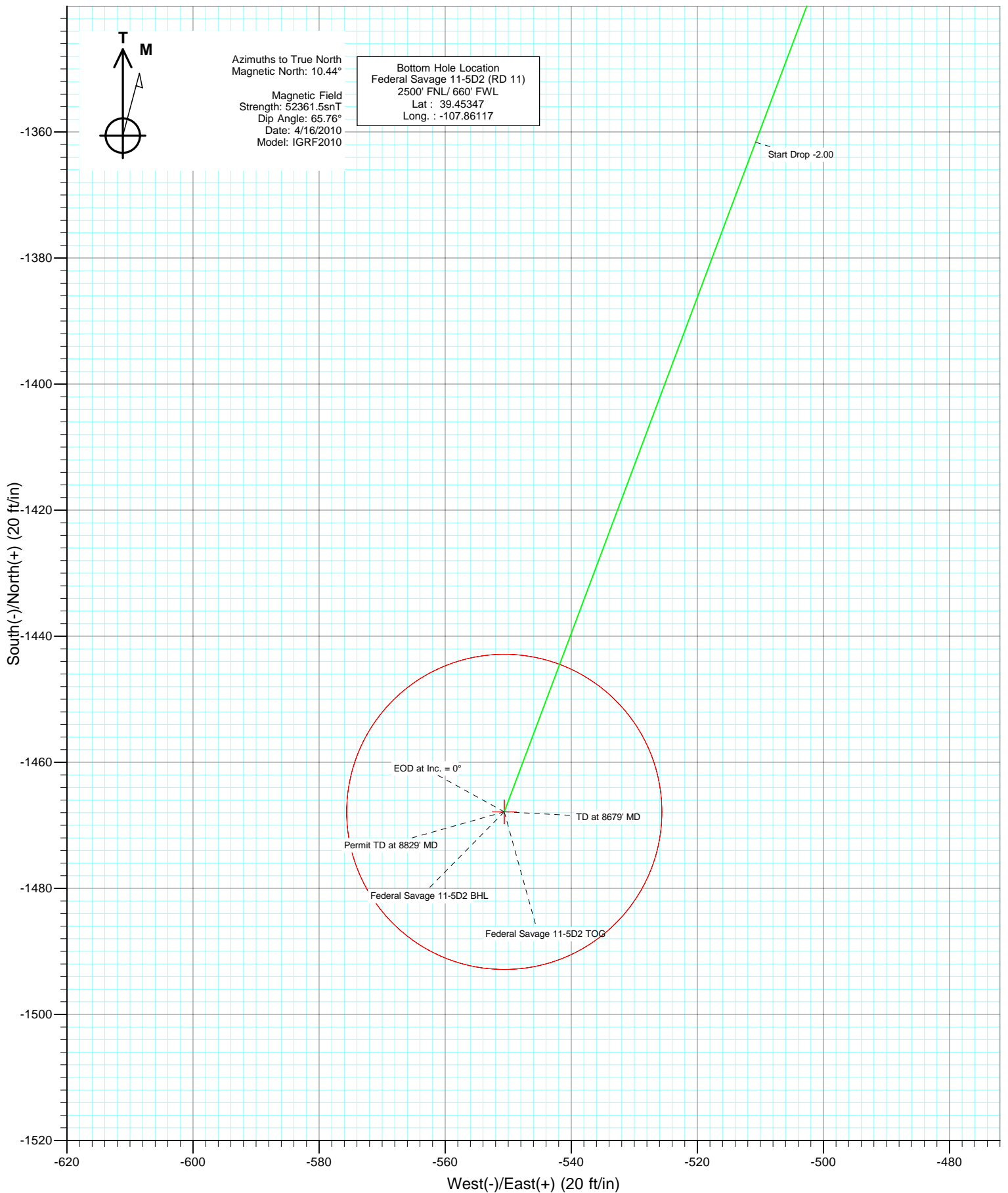


Project: S. Piceance
Site: NWNW S11-T7S-R94W (RD 11 Pad)
Well: Federal Savage 11-5D2 (RD 11)
Wellbore: DD
Design: Plan #2





Project: S. Piceance
Site: NWNW S11-T7S-R94W (RD 11 Pad)
Well: Federal Savage 11-5D2 (RD 11)
Wellbore: DD
Design: Plan #2



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal Savage 11-5D2 (RD 11) |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Site: | NWNW S11-T7S-R94W (RD 11 Pad) | North Reference: | True |
| Well: | Federal Savage 11-5D2 (RD 11) | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #2 | | |

| | | | |
|--------------------|----------------------------------|----------------------|----------------|
| 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 | | NWNW S11-T7S-R94W (RD 11 Pad) | | | |
| Site Position: | | Northing: | 1,600,192.72 ft | Latitude: | 39.457550 |
| From: | Lat/Long | Easting: | 2,333,999.30 ft | Longitude: | -107.859020 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.49 ° |

| | | | | | | |
|----------------------|-------------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Federal Savage 11-5D2 (RD 11) | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,600,175.97 ft | Latitude: | 39.457500 |
| | +E/-W | 0.0 ft | Easting: | 2,333,942.37 ft | Longitude: | -107.859220 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 6,383.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 4/16/2010 | 10.44 | 65.76 | 52,362 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| 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 | 200.56 |

| 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 | |
| 739.3 | 16.18 | 200.56 | 732.2 | -70.8 | -26.6 | 3.00 | 3.00 | 0.00 | 200.56 | |
| 5,686.8 | 16.18 | 200.56 | 5,483.7 | -1,361.6 | -510.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,495.8 | 0.00 | 0.00 | 6,282.0 | -1,467.9 | -550.6 | 2.00 | -2.00 | 0.00 | 180.00 | Federal Savage 11-5D2 |
| 8,679.8 | 0.00 | 0.00 | 8,466.0 | -1,467.9 | -550.6 | 0.00 | 0.00 | 0.00 | 0.00 | Federal Savage 11-5D2 |
| 8,829.8 | 0.00 | 0.00 | 8,616.0 | -1,467.9 | -550.6 | 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 Savage 11-5D2 (RD 11) |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Site: | NWNW S11-T7S-R94W (RD 11 Pad) | North Reference: | True |
| Well: | Federal Savage 11-5D2 (RD 11) | 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 | |
| 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' MD |
| 300.0 | 3.00 | 200.56 | 300.0 | -2.5 | -0.9 | 2.6 | 3.00 | 3.00 | |
| 400.0 | 6.00 | 200.56 | 399.6 | -9.8 | -3.7 | 10.5 | 3.00 | 3.00 | |
| 500.0 | 9.00 | 200.56 | 498.8 | -22.0 | -8.3 | 23.5 | 3.00 | 3.00 | |
| 600.0 | 12.00 | 200.56 | 597.1 | -39.1 | -14.7 | 41.7 | 3.00 | 3.00 | |
| 700.0 | 15.00 | 200.56 | 694.3 | -60.9 | -22.9 | 65.1 | 3.00 | 3.00 | |
| 739.3 | 16.18 | 200.56 | 732.2 | -70.8 | -26.6 | 75.6 | 3.00 | 3.00 | EOB at Inc. = 16.18° |
| 800.0 | 16.18 | 200.56 | 790.5 | -86.7 | -32.5 | 92.6 | 0.00 | 0.00 | |
| 900.0 | 16.18 | 200.56 | 886.5 | -112.7 | -42.3 | 120.4 | 0.00 | 0.00 | |
| 1,000.0 | 16.18 | 200.56 | 982.5 | -138.8 | -52.1 | 148.3 | 0.00 | 0.00 | |
| 1,100.0 | 16.18 | 200.56 | 1,078.6 | -164.9 | -61.9 | 176.1 | 0.00 | 0.00 | |
| 1,122.3 | 16.18 | 200.56 | 1,100.0 | -170.7 | -64.1 | 182.4 | 0.00 | 0.00 | Surface Casing |
| 1,200.0 | 16.18 | 200.56 | 1,174.6 | -191.0 | -71.7 | 204.0 | 0.00 | 0.00 | |
| 1,300.0 | 16.18 | 200.56 | 1,270.7 | -217.1 | -81.4 | 231.9 | 0.00 | 0.00 | |
| 1,400.0 | 16.18 | 200.56 | 1,366.7 | -243.2 | -91.2 | 259.7 | 0.00 | 0.00 | |
| 1,500.0 | 16.18 | 200.56 | 1,462.7 | -269.3 | -101.0 | 287.6 | 0.00 | 0.00 | |
| 1,600.0 | 16.18 | 200.56 | 1,558.8 | -295.4 | -110.8 | 315.5 | 0.00 | 0.00 | |
| 1,700.0 | 16.18 | 200.56 | 1,654.8 | -321.5 | -120.6 | 343.3 | 0.00 | 0.00 | |
| 1,800.0 | 16.18 | 200.56 | 1,750.8 | -347.6 | -130.4 | 371.2 | 0.00 | 0.00 | |
| 1,900.0 | 16.18 | 200.56 | 1,846.9 | -373.6 | -140.2 | 399.1 | 0.00 | 0.00 | |
| 2,000.0 | 16.18 | 200.56 | 1,942.9 | -399.7 | -149.9 | 426.9 | 0.00 | 0.00 | |
| 2,100.0 | 16.18 | 200.56 | 2,039.0 | -425.8 | -159.7 | 454.8 | 0.00 | 0.00 | |
| 2,200.0 | 16.18 | 200.56 | 2,135.0 | -451.9 | -169.5 | 482.7 | 0.00 | 0.00 | |
| 2,300.0 | 16.18 | 200.56 | 2,231.0 | -478.0 | -179.3 | 510.5 | 0.00 | 0.00 | |
| 2,400.0 | 16.18 | 200.56 | 2,327.1 | -504.1 | -189.1 | 538.4 | 0.00 | 0.00 | |
| 2,500.0 | 16.18 | 200.56 | 2,423.1 | -530.2 | -198.9 | 566.3 | 0.00 | 0.00 | |
| 2,600.0 | 16.18 | 200.56 | 2,519.2 | -556.3 | -208.7 | 594.1 | 0.00 | 0.00 | |
| 2,700.0 | 16.18 | 200.56 | 2,615.2 | -582.4 | -218.5 | 622.0 | 0.00 | 0.00 | |
| 2,800.0 | 16.18 | 200.56 | 2,711.2 | -608.5 | -228.2 | 649.9 | 0.00 | 0.00 | |
| 2,900.0 | 16.18 | 200.56 | 2,807.3 | -634.5 | -238.0 | 677.7 | 0.00 | 0.00 | |
| 3,000.0 | 16.18 | 200.56 | 2,903.3 | -660.6 | -247.8 | 705.6 | 0.00 | 0.00 | |
| 3,100.0 | 16.18 | 200.56 | 2,999.4 | -686.7 | -257.6 | 733.4 | 0.00 | 0.00 | |
| 3,200.0 | 16.18 | 200.56 | 3,095.4 | -712.8 | -267.4 | 761.3 | 0.00 | 0.00 | |
| 3,300.0 | 16.18 | 200.56 | 3,191.4 | -738.9 | -277.2 | 789.2 | 0.00 | 0.00 | |
| 3,400.0 | 16.18 | 200.56 | 3,287.5 | -765.0 | -287.0 | 817.0 | 0.00 | 0.00 | |
| 3,500.0 | 16.18 | 200.56 | 3,383.5 | -791.1 | -296.8 | 844.9 | 0.00 | 0.00 | |
| 3,600.0 | 16.18 | 200.56 | 3,479.6 | -817.2 | -306.5 | 872.8 | 0.00 | 0.00 | |
| 3,700.0 | 16.18 | 200.56 | 3,575.6 | -843.3 | -316.3 | 900.6 | 0.00 | 0.00 | |
| 3,800.0 | 16.18 | 200.56 | 3,671.6 | -869.4 | -326.1 | 928.5 | 0.00 | 0.00 | |
| 3,900.0 | 16.18 | 200.56 | 3,767.7 | -895.4 | -335.9 | 956.4 | 0.00 | 0.00 | |
| 4,000.0 | 16.18 | 200.56 | 3,863.7 | -921.5 | -345.7 | 984.2 | 0.00 | 0.00 | |
| 4,100.0 | 16.18 | 200.56 | 3,959.8 | -947.6 | -355.5 | 1,012.1 | 0.00 | 0.00 | |
| 4,200.0 | 16.18 | 200.56 | 4,055.8 | -973.7 | -365.3 | 1,040.0 | 0.00 | 0.00 | |
| 4,300.0 | 16.18 | 200.56 | 4,151.8 | -999.8 | -375.0 | 1,067.8 | 0.00 | 0.00 | |
| 4,400.0 | 16.18 | 200.56 | 4,247.9 | -1,025.9 | -384.8 | 1,095.7 | 0.00 | 0.00 | |
| 4,491.8 | 16.18 | 200.56 | 4,336.0 | -1,049.8 | -393.8 | 1,121.3 | 0.00 | 0.00 | Ohio Creek |
| 4,500.0 | 16.18 | 200.56 | 4,343.9 | -1,052.0 | -394.6 | 1,123.6 | 0.00 | 0.00 | |
| 4,600.0 | 16.18 | 200.56 | 4,439.9 | -1,078.1 | -404.4 | 1,151.4 | 0.00 | 0.00 | |
| 4,700.0 | 16.18 | 200.56 | 4,536.0 | -1,104.2 | -414.2 | 1,179.3 | 0.00 | 0.00 | |
| 4,800.0 | 16.18 | 200.56 | 4,632.0 | -1,130.2 | -424.0 | 1,207.2 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal Savage 11-5D2 (RD 11) |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Site: | NWNW S11-T7S-R94W (RD 11 Pad) | North Reference: | True |
| Well: | Federal Savage 11-5D2 (RD 11) | 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 |
| 4,900.0 | 16.18 | 200.56 | 4,728.1 | -1,156.3 | -433.8 | 1,235.0 | 0.00 | 0.00 | |
| 4,955.1 | 16.18 | 200.56 | 4,781.0 | -1,170.7 | -439.2 | 1,250.4 | 0.00 | 0.00 | Mesa Verde |
| 5,000.0 | 16.18 | 200.56 | 4,824.1 | -1,182.4 | -443.6 | 1,262.9 | 0.00 | 0.00 | |
| 5,100.0 | 16.18 | 200.56 | 4,920.1 | -1,208.5 | -453.3 | 1,290.7 | 0.00 | 0.00 | |
| 5,200.0 | 16.18 | 200.56 | 5,016.2 | -1,234.6 | -463.1 | 1,318.6 | 0.00 | 0.00 | |
| 5,300.0 | 16.18 | 200.56 | 5,112.2 | -1,260.7 | -472.9 | 1,346.5 | 0.00 | 0.00 | |
| 5,400.0 | 16.18 | 200.56 | 5,208.3 | -1,286.8 | -482.7 | 1,374.3 | 0.00 | 0.00 | |
| 5,465.3 | 16.18 | 200.56 | 5,271.0 | -1,303.8 | -489.1 | 1,392.5 | 0.00 | 0.00 | Williams Fork |
| 5,500.0 | 16.18 | 200.56 | 5,304.3 | -1,312.9 | -492.5 | 1,402.2 | 0.00 | 0.00 | |
| 5,600.0 | 16.18 | 200.56 | 5,400.3 | -1,339.0 | -502.3 | 1,430.1 | 0.00 | 0.00 | |
| 5,686.8 | 16.18 | 200.56 | 5,483.7 | -1,361.6 | -510.8 | 1,454.3 | 0.00 | 0.00 | Start Drop -2.00 |
| 5,700.0 | 15.92 | 200.56 | 5,496.4 | -1,365.0 | -512.1 | 1,457.9 | 2.00 | -2.00 | |
| 5,800.0 | 13.92 | 200.56 | 5,593.0 | -1,389.1 | -521.1 | 1,483.6 | 2.00 | -2.00 | |
| 5,900.0 | 11.92 | 200.56 | 5,690.5 | -1,410.1 | -528.9 | 1,506.0 | 2.00 | -2.00 | |
| 6,000.0 | 9.92 | 200.56 | 5,788.7 | -1,427.8 | -535.6 | 1,524.9 | 2.00 | -2.00 | |
| 6,100.0 | 7.92 | 200.56 | 5,887.5 | -1,442.3 | -541.0 | 1,540.4 | 2.00 | -2.00 | |
| 6,200.0 | 5.92 | 200.56 | 5,986.7 | -1,453.6 | -545.3 | 1,552.5 | 2.00 | -2.00 | |
| 6,300.0 | 3.92 | 200.56 | 6,086.3 | -1,461.6 | -548.3 | 1,561.0 | 2.00 | -2.00 | |
| 6,400.0 | 1.92 | 200.56 | 6,186.2 | -1,466.4 | -550.1 | 1,566.1 | 2.00 | -2.00 | |
| 6,495.8 | 0.00 | 0.00 | 6,282.0 | -1,467.9 | -550.6 | 1,567.7 | 2.00 | -2.00 | EOD at Inc. = 0° - Top of Gas - Federal Savage |
| 6,500.0 | 0.00 | 0.00 | 6,286.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 6,600.0 | 0.00 | 0.00 | 6,386.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 6,700.0 | 0.00 | 0.00 | 6,486.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 6,800.0 | 0.00 | 0.00 | 6,586.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,686.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 6,786.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 6,886.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,200.0 | 0.00 | 0.00 | 6,986.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,086.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,186.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,286.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,386.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,674.8 | 0.00 | 0.00 | 7,461.0 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | Coal Ridge |
| 7,700.0 | 0.00 | 0.00 | 7,486.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,586.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,686.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,786.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 7,886.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 7,986.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,086.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,186.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,286.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,529.8 | 0.00 | 0.00 | 8,316.0 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | Rollins |
| 8,600.0 | 0.00 | 0.00 | 8,386.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,679.8 | 0.00 | 0.00 | 8,466.0 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | TD at 8679' MD - Federal Savage 11-5D2 BHL |
| 8,700.0 | 0.00 | 0.00 | 8,486.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,586.2 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | |
| 8,829.8 | 0.00 | 0.00 | 8,616.0 | -1,467.9 | -550.6 | 1,567.7 | 0.00 | 0.00 | Permit TD at 8829' MD |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Federal Savage 11-5D2 (RD 11) |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Project: | S. Piceance | MD Reference: | KBE @ 6405.0ft (Original Well Elev) |
| Site: | NWNW S11-T7S-R94W (RD 11 Pad) | North Reference: | True |
| Well: | Federal Savage 11-5D2 (RD 11) | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #2 | | |

| Targets | | | | | | | | | |
|---------------------------|-----------|----------|---------|----------|--------|--------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| - Shape | | | | | | | | | |
| Federal Savage 11-5D2 | 0.00 | 0.00 | 6,282.0 | -1,467.9 | -550.6 | 1,598,722.91 | 2,333,353.82 | 39.453470 | -107.861170 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Federal Savage 11-5D2 | 0.00 | 0.00 | 8,466.0 | -1,467.9 | -550.6 | 1,598,722.91 | 2,333,353.82 | 39.453470 | -107.861170 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 25.0) | | | | | | | | | |

| Casing Points | | | | | |
|----------------|----------------|----------------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | | Casing Diameter | Hole Diameter |
| (ft) | (ft) | | | (in) | (in) |
| 1,122.3 | 1,100.0 | Surface Casing | | 0.000 | 0.000 |

| Formations | | | | | | |
|----------------|----------------|---------------|--|-----------|-----|---------------|
| Measured Depth | Vertical Depth | Name | | Lithology | Dip | Dip Direction |
| (ft) | (ft) | | | | (°) | (°) |
| 4,491.8 | 4,336.0 | Ohio Creek | | | | |
| 4,955.1 | 4,781.0 | Mesa Verde | | | | |
| 5,465.3 | 5,271.0 | Williams Fork | | | | |
| 6,495.8 | 6,282.0 | Top of Gas | | | | |
| 7,674.8 | 7,461.0 | Coal Ridge | | | | |
| 8,529.8 | 8,316.0 | Rollins | | | | |

| Plan Annotations | | | | | |
|------------------|----------------|-------------------|--------|-----------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment | |
| (ft) | (ft) | +N/-S | +E/-W | | |
| (ft) | (ft) | (ft) | (ft) | | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP = 200' MD | |
| 739.3 | 732.2 | -70.8 | -26.6 | EOB at Inc. = 16.18° | |
| 5,686.8 | 5,483.7 | -1,361.6 | -510.8 | Start Drop -2.00 | |
| 6,495.8 | 6,282.0 | -1,467.9 | -550.6 | EOD at Inc. = 0° | |
| 8,679.8 | 8,466.0 | -1,467.9 | -550.6 | TD at 8679' MD | |
| 8,829.8 | 8,616.0 | -1,467.9 | -550.6 | Permit TD at 8829' MD | |