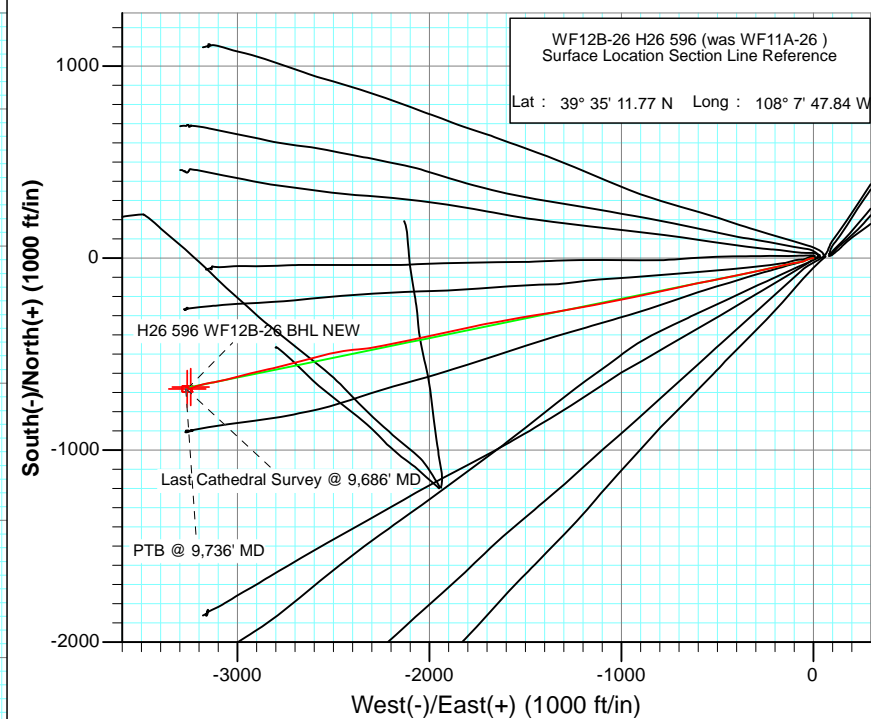
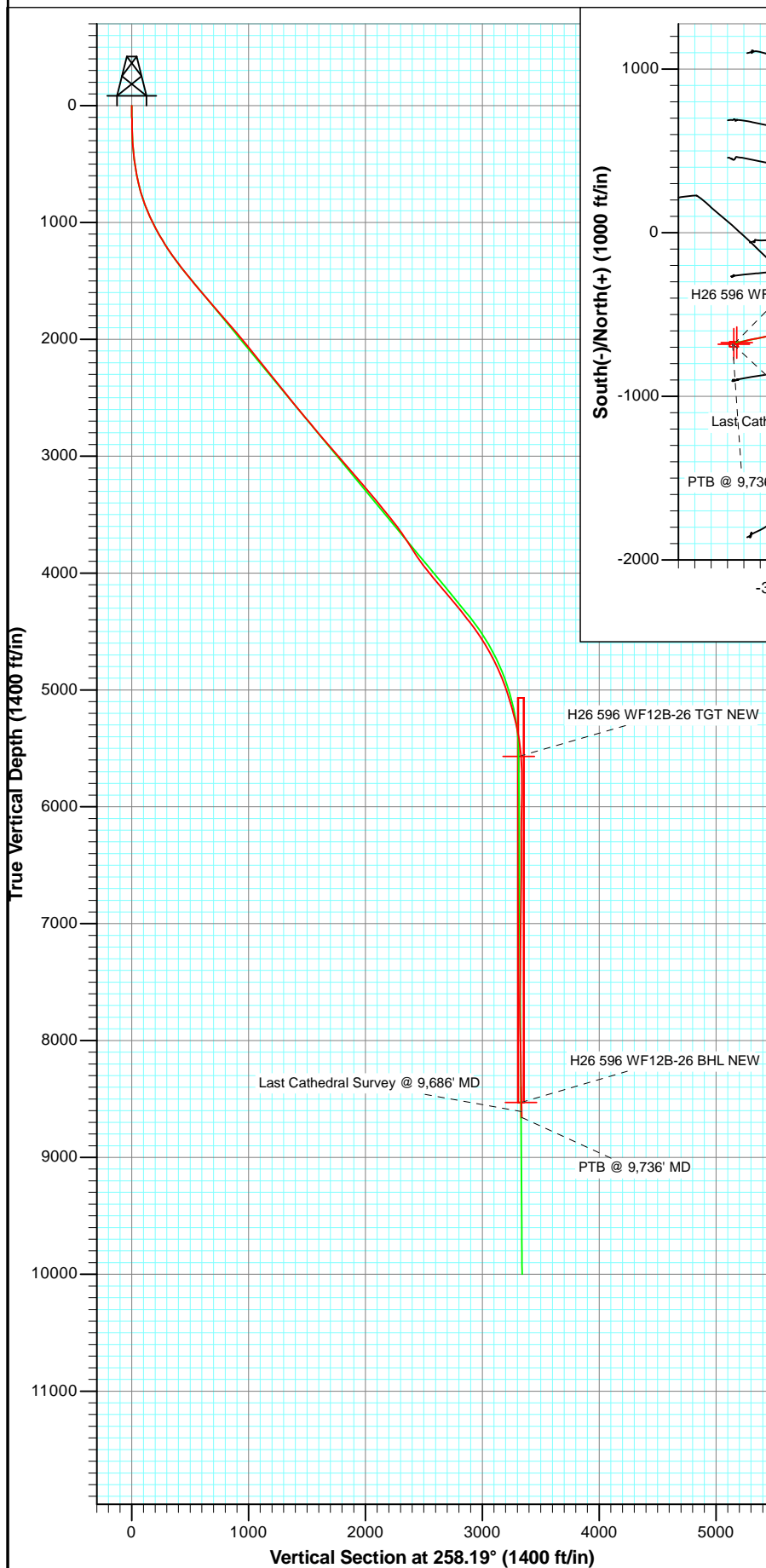




Project: North Piceance  
Site: H26 596  
Well: WF12B-26 H26 596 (was WF11A-26 )  
Wellbore: DD  
Plan: FINAL



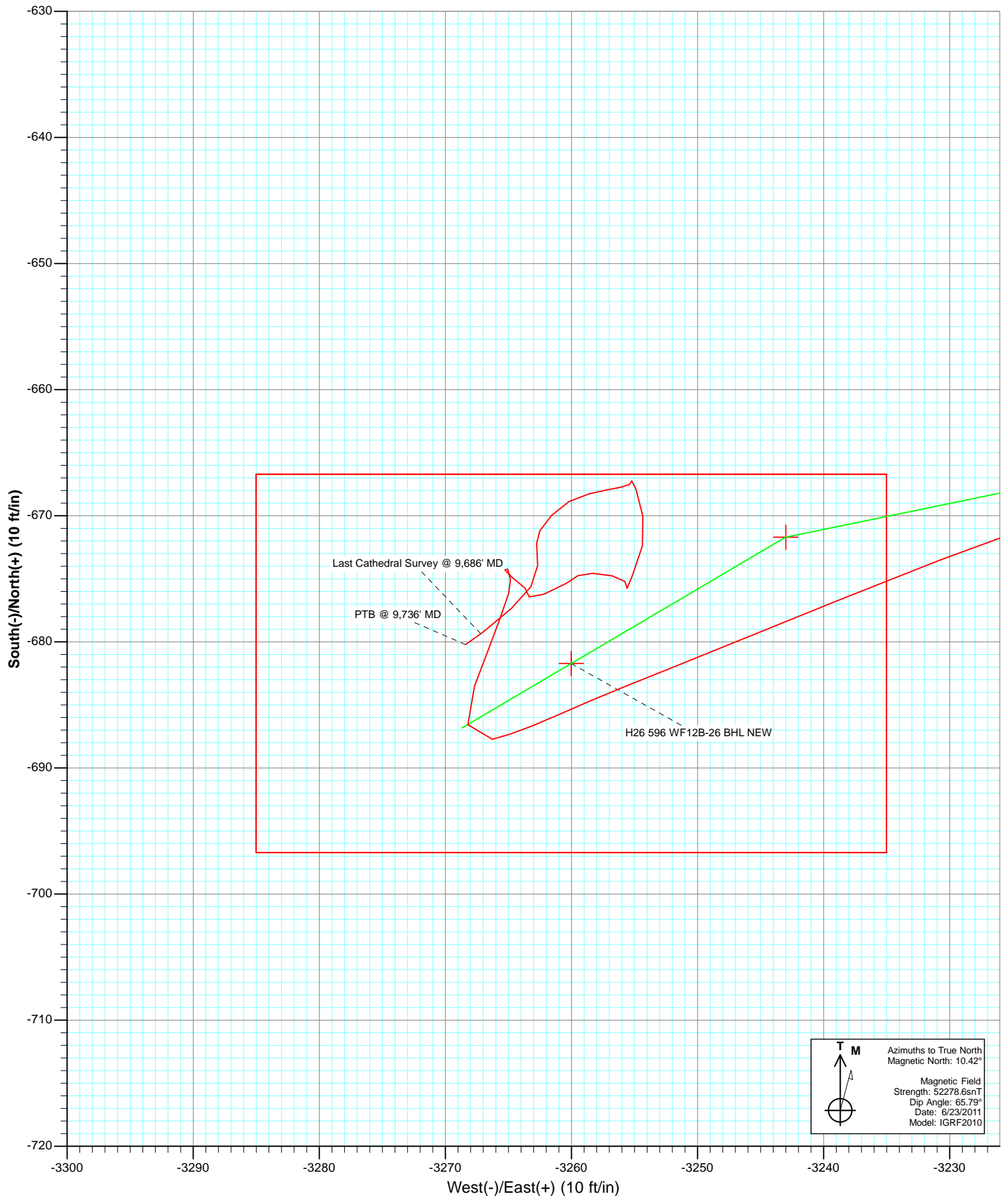
Azimuths to True North  
Magnetic North: 10.42°

Magnetic Field  
Strength: 52278.6snT  
Dip Angle: 65.79°  
Date: 6/23/2011  
Model: IGRF2010

| DD  |        |         |             |         |                |                 |  |
|---|--------|---------|-------------|---------|----------------|-----------------|--|
| WF12B-26 H26 596 (was WF11A-26 )                  |        |         |             |         |                |                 |  |
| 115258 (SH) id 7603, 115264 (MH) id 7626; LR      |        |         |             |         |                |                 |  |
| WELL @ 6114.0ft (Patterson 303)                   |        |         |             |         |                |                 |  |
| GL @ 6092.0                                       |        |         |             |         |                |                 |  |
| North American Datum 1983                         |        |         |             |         |                |                 |  |
| Well WF12B-26 H26 596 (was WF11A-26 ), True North |        |         |             |         |                |                 |  |
| Type  | Target | Azimuth | Origin Type | N/S     | E/W            | From TVD        |  |
| Target  |        | 258.19  | Slot        | 0.0     | 0.0            | 0.0             |  |
|   |        | TVD     | +N/-S       | +E/-W   | Latitude       | Longitude       |  |
| H26 596 WF12B-26 TGT NEW                          |        | 5569.0  | -671.7      | -3243.0 | 39° 35' 5.13 N | 108° 8' 29.26 W |  |
| H26 596 WF12B-26 BHL NEW                          |        | 8529.0  | -681.7      | -3260.0 | 39° 35' 5.03 N | 108° 8' 29.48 W |  |



Project: North Piceance  
Site: H26 596  
Well: WF12B-26 H26 596 (was WF11A-26 )  
Wellbore: DD  
Plan: FINAL



# Cathedral Energy Services

## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc       | <b>Local Co-ordinate Reference:</b> | Well WF12B-26 H26 596 (was WF11A-26 ) |
| <b>Project:</b>  | North Piceance                   | <b>TVD Reference:</b>               | WELL @ 6114.0ft (Patterson 303)       |
| <b>Site:</b>     | H26 596                          | <b>MD Reference:</b>                | WELL @ 6114.0ft (Patterson 303)       |
| <b>Well:</b>     | WF12B-26 H26 596 (was WF11A-26 ) | <b>North Reference:</b>             | True                                  |
| <b>Wellbore:</b> | DD                               | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | DD                               | <b>Database:</b>                    | USA EDM 5000 Multi Users DB           |

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

|                       |        |              |                 |                   |                 |
|-----------------------|--------|--------------|-----------------|-------------------|-----------------|
| Site                  |        | H26 596      |                 |                   |                 |
| Site Position:        |        | Northing:    | 1,649,294.53 ft | Latitude:         | 39° 35' 11.93 N |
| From:                 | Map    | Easting:     | 2,258,943.98 ft | Longitude:        | 108° 7' 47.14 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in       | Grid Convergence: | -1.66 °         |

|                      |                                  |        |                     |                 |               |                 |
|----------------------|----------------------------------|--------|---------------------|-----------------|---------------|-----------------|
| Well                 | WF12B-26 H26 596 (was WF11A-26 ) |        |                     |                 |               |                 |
| Well Position        | +N/-S                            | 0.0 ft | Northing:           | 1,649,279.90 ft | Latitude:     | 39° 35' 11.77 N |
|                      | +E/-W                            | 0.0 ft | Easting:            | 2,258,888.73 ft | Longitude:    | 108° 7' 47.84 W |
| Position Uncertainty |                                  | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 6,092.0 ft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | DD                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 6/23/2011          | 10.42                  | 65.79                | 52,279                     |

|                          |                         |               |              |                      |     |
|--------------------------|-------------------------|---------------|--------------|----------------------|-----|
| <b>Design</b>            | DD                      |               |              |                      |     |
| <b>Audit Notes:</b>      |                         |               |              |                      |     |
| <b>Version:</b>          | 1.0                     | <b>Phase:</b> | ACTUAL       | <b>Tie On Depth:</b> | 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b>  | <b>+E/-W</b> | <b>Direction</b>     |     |
|                          | (ft)                    | (ft)          | (ft)         | (°)                  |     |
|                          | 0.0                     | 0.0           | 0.0          | 258.19               |     |

|                       |                |                          |                  |                    |  |
|-----------------------|----------------|--------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>    | 7/9/2011                 |                  |                    |  |
| <b>From (ft)</b>      | <b>To (ft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b> | <b>Description</b> |  |
| 30.0                  | 168.0          | Survey #1 (DD)           | Gyro             | Gyro               |  |
| 231.0                 | 1,707.0        | Survey #2 (DD)           | MWD              | Geolink MWD        |  |
| 1,799.0               | 9,736.0        | Survey #3 (DD)           | MWD              | Geolink MWD        |  |

|                   |                    |                |                   |              |              |                     |                       |                       |                       |
|-------------------|--------------------|----------------|-------------------|--------------|--------------|---------------------|-----------------------|-----------------------|-----------------------|
| <b>Survey</b>     |                    |                |                   |              |              |                     |                       |                       |                       |
| <b>Measured</b>   | <b>Inclination</b> | <b>Azimuth</b> | <b>Vertical</b>   | <b>+N/-S</b> | <b>+E/-W</b> | <b>Vertical</b>     | <b>Dogleg</b>         | <b>Build</b>          | <b>Formations /</b>   |
| <b>Depth (ft)</b> | <b>(°)</b>         | <b>(°)</b>     | <b>Depth (ft)</b> | <b>(ft)</b>  | <b>(ft)</b>  | <b>Section (ft)</b> | <b>Rate (°/100ft)</b> | <b>Rate (°/100ft)</b> | <b>Comments</b>       |
| 0.0               | 0.00               | 0.00           | 0.0               | 0.0          | 0.0          | 0.0                 | 0.00                  | 0.00                  |                       |
| 30.0              | 0.81               | 252.94         | 30.0              | -0.1         | -0.2         | 0.2                 | 2.70                  | 2.70                  |                       |
| 60.0              | 0.56               | 234.96         | 60.0              | -0.2         | -0.5         | 0.6                 | 1.09                  | -0.83                 |                       |
| 90.0              | 0.50               | 222.00         | 90.0              | -0.4         | -0.7         | 0.8                 | 0.45                  | -0.20                 |                       |
| 120.0             | 0.73               | 223.72         | 120.0             | -0.6         | -1.0         | 1.1                 | 0.77                  | 0.77                  |                       |
| 150.0             | 0.60               | 204.54         | 150.0             | -0.9         | -1.2         | 1.3                 | 0.85                  | -0.43                 |                       |
| 168.0             | 0.85               | 197.07         | 168.0             | -1.1         | -1.2         | 1.4                 | 1.48                  | 1.39                  | Gyro survey @ 168' MD |
| 231.0             | 2.00               | 277.30         | 231.0             | -1.4         | -2.5         | 2.7                 | 3.23                  | 1.83                  |                       |
| 262.0             | 2.70               | 265.70         | 261.9             | -1.4         | -3.7         | 3.9                 | 2.72                  | 2.26                  |                       |
| 292.0             | 3.60               | 275.10         | 291.9             | -1.4         | -5.4         | 5.5                 | 3.45                  | 3.00                  |                       |
| 323.0             | 4.30               | 273.20         | 322.8             | -1.2         | -7.5         | 7.6                 | 2.30                  | 2.26                  |                       |

# Cathedral Energy Services

## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc       | <b>Local Co-ordinate Reference:</b> | Well WF12B-26 H26 596 (was WF11A-26 ) |
| <b>Project:</b>  | North Piceance                   | <b>TVD Reference:</b>               | WELL @ 6114.0ft (Patterson 303)       |
| <b>Site:</b>     | H26 596                          | <b>MD Reference:</b>                | WELL @ 6114.0ft (Patterson 303)       |
| <b>Well:</b>     | WF12B-26 H26 596 (was WF11A-26 ) | <b>North Reference:</b>             | True                                  |
| <b>Wellbore:</b> | DD                               | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | DD                               | <b>Database:</b>                    | USA EDM 5000 Multi Users DB           |

### Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Formations / Comments         |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-------------------------------|
| 353.0               | 4.90            | 255.80      | 352.7               | -1.5       | -9.9       | 10.0                  | 5.04                  | 2.00                 |                               |
| 383.0               | 5.40            | 248.30      | 382.6               | -2.3       | -12.4      | 12.6                  | 2.79                  | 1.67                 |                               |
| 414.0               | 5.90            | 258.90      | 413.5               | -3.2       | -15.3      | 15.7                  | 3.73                  | 1.61                 |                               |
| 444.0               | 6.90            | 258.90      | 443.3               | -3.8       | -18.6      | 19.0                  | 3.33                  | 3.33                 |                               |
| 475.0               | 7.60            | 249.10      | 474.0               | -4.9       | -22.4      | 22.9                  | 4.58                  | 2.26                 |                               |
| 505.0               | 8.50            | 254.10      | 503.7               | -6.2       | -26.3      | 27.1                  | 3.80                  | 3.00                 |                               |
| 554.0               | 9.80            | 242.90      | 552.1               | -9.1       | -33.5      | 34.7                  | 4.49                  | 2.65                 |                               |
| 600.0               | 11.20           | 246.00      | 597.3               | -12.7      | -41.1      | 42.8                  | 3.28                  | 3.04                 |                               |
| 646.0               | 12.70           | 249.90      | 642.3               | -16.3      | -49.9      | 52.2                  | 3.70                  | 3.26                 |                               |
| 692.0               | 14.00           | 258.50      | 687.1               | -19.1      | -60.1      | 62.8                  | 5.15                  | 2.83                 |                               |
| 738.0               | 15.60           | 261.90      | 731.6               | -21.1      | -71.7      | 74.5                  | 3.96                  | 3.48                 |                               |
| 783.0               | 17.30           | 260.90      | 774.7               | -23.0      | -84.3      | 87.2                  | 3.83                  | 3.78                 |                               |
| 829.0               | 19.30           | 259.80      | 818.4               | -25.4      | -98.5      | 101.7                 | 4.41                  | 4.35                 |                               |
| 875.0               | 21.10           | 256.10      | 861.6               | -28.8      | -114.1     | 117.5                 | 4.80                  | 3.91                 |                               |
| 921.0               | 23.00           | 259.10      | 904.2               | -32.5      | -130.9     | 134.8                 | 4.80                  | 4.13                 |                               |
| 966.0               | 24.10           | 258.90      | 945.5               | -35.9      | -148.6     | 152.8                 | 2.45                  | 2.44                 |                               |
| 1,012.0             | 25.70           | 256.60      | 987.2               | -40.0      | -167.5     | 172.1                 | 4.07                  | 3.48                 |                               |
| 1,058.0             | 27.00           | 257.60      | 1,028.4             | -44.6      | -187.4     | 192.6                 | 2.99                  | 2.83                 |                               |
| 1,104.0             | 28.80           | 257.00      | 1,069.1             | -49.3      | -208.4     | 214.1                 | 3.96                  | 3.91                 |                               |
| 1,150.0             | 30.10           | 257.40      | 1,109.1             | -54.3      | -230.5     | 236.7                 | 2.86                  | 2.83                 |                               |
| 1,196.0             | 31.10           | 257.40      | 1,148.7             | -59.4      | -253.3     | 260.1                 | 2.17                  | 2.17                 |                               |
| 1,241.0             | 32.00           | 258.20      | 1,187.1             | -64.4      | -276.3     | 283.6                 | 2.21                  | 2.00                 |                               |
| 1,287.0             | 33.40           | 257.90      | 1,225.8             | -69.5      | -300.6     | 308.5                 | 3.06                  | 3.04                 |                               |
| 1,333.0             | 34.10           | 257.80      | 1,264.0             | -74.9      | -325.6     | 334.1                 | 1.53                  | 1.52                 |                               |
| 1,378.0             | 35.00           | 257.80      | 1,301.1             | -80.3      | -350.6     | 359.6                 | 2.00                  | 2.00                 |                               |
| 1,424.0             | 36.20           | 257.70      | 1,338.5             | -86.0      | -376.7     | 386.3                 | 2.61                  | 2.61                 |                               |
| 1,470.0             | 37.80           | 258.20      | 1,375.2             | -91.8      | -403.8     | 414.0                 | 3.54                  | 3.48                 |                               |
| 1,516.0             | 39.30           | 259.20      | 1,411.2             | -97.4      | -431.9     | 442.7                 | 3.53                  | 3.26                 |                               |
| 1,562.0             | 40.50           | 258.20      | 1,446.5             | -103.2     | -460.8     | 472.2                 | 2.96                  | 2.61                 |                               |
| 1,607.0             | 40.50           | 259.20      | 1,480.7             | -108.9     | -489.5     | 501.4                 | 1.44                  | 0.00                 |                               |
| 1,653.0             | 40.00           | 258.50      | 1,515.8             | -114.6     | -518.7     | 531.1                 | 1.47                  | -1.09                |                               |
| 1,699.0             | 39.30           | 259.60      | 1,551.2             | -120.2     | -547.5     | 560.5                 | 2.15                  | -1.52                |                               |
| 1,707.0             | 39.50           | 259.20      | 1,557.4             | -121.1     | -552.5     | 565.6                 | 4.04                  | 2.50                 | Last Cathedral svy @ 1707' MD |
| 1,799.0             | 39.70           | 258.30      | 1,628.3             | -132.6     | -610.0     | 624.2                 | 0.66                  | 0.22                 |                               |
| 1,891.0             | 40.40           | 257.90      | 1,698.7             | -144.8     | -667.9     | 683.4                 | 0.81                  | 0.76                 |                               |
| 1,983.0             | 40.90           | 257.70      | 1,768.5             | -157.5     | -726.5     | 743.3                 | 0.56                  | 0.54                 |                               |
| 2,074.0             | 41.10           | 257.70      | 1,837.2             | -170.2     | -784.8     | 803.0                 | 0.22                  | 0.22                 |                               |
| 2,166.0             | 41.60           | 257.40      | 1,906.3             | -183.3     | -844.2     | 863.8                 | 0.58                  | 0.54                 |                               |
| 2,257.0             | 39.60           | 257.70      | 1,975.3             | -196.1     | -902.0     | 923.0                 | 2.21                  | -2.20                |                               |
| 2,349.0             | 39.40           | 257.60      | 2,046.3             | -208.6     | -959.2     | 981.5                 | 0.23                  | -0.22                |                               |
| 2,441.0             | 38.90           | 259.20      | 2,117.7             | -220.2     | -1,016.0   | 1,039.6               | 1.23                  | -0.54                |                               |
| 2,532.0             | 38.50           | 258.10      | 2,188.7             | -231.4     | -1,071.8   | 1,096.5               | 0.87                  | -0.44                |                               |
| 2,624.0             | 38.30           | 259.60      | 2,260.8             | -242.5     | -1,127.9   | 1,153.6               | 1.04                  | -0.22                |                               |
| 2,715.0             | 38.80           | 259.80      | 2,332.0             | -252.6     | -1,183.7   | 1,210.3               | 0.57                  | 0.55                 |                               |
| 2,807.0             | 39.70           | 260.60      | 2,403.2             | -262.5     | -1,241.0   | 1,268.5               | 1.12                  | 0.98                 |                               |
| 2,899.0             | 38.50           | 260.30      | 2,474.6             | -272.2     | -1,298.3   | 1,326.5               | 1.32                  | -1.30                |                               |
| 2,990.0             | 38.50           | 260.60      | 2,545.8             | -281.6     | -1,354.1   | 1,383.1               | 0.21                  | 0.00                 |                               |
| 3,082.0             | 40.00           | 261.20      | 2,617.1             | -290.8     | -1,411.6   | 1,441.2               | 1.68                  | 1.63                 |                               |
| 3,173.0             | 40.60           | 260.30      | 2,686.5             | -300.2     | -1,469.7   | 1,500.0               | 0.92                  | 0.66                 |                               |
| 3,265.0             | 39.50           | 259.70      | 2,756.9             | -310.5     | -1,528.0   | 1,559.2               | 1.27                  | -1.20                |                               |
| 3,356.0             | 40.40           | 259.30      | 2,826.7             | -321.2     | -1,585.4   | 1,617.6               | 1.03                  | 0.99                 |                               |
| 3,448.0             | 40.80           | 259.60      | 2,896.5             | -332.1     | -1,644.3   | 1,677.5               | 0.48                  | 0.43                 |                               |
| 3,540.0             | 40.20           | 259.50      | 2,966.5             | -343.0     | -1,703.1   | 1,737.2               | 0.66                  | -0.65                |                               |

# Cathedral Energy Services

## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc       | <b>Local Co-ordinate Reference:</b> | Well WF12B-26 H26 596 (was WF11A-26 ) |
| <b>Project:</b>  | North Piceance                   | <b>TVD Reference:</b>               | WELL @ 6114.0ft (Patterson 303)       |
| <b>Site:</b>     | H26 596                          | <b>MD Reference:</b>                | WELL @ 6114.0ft (Patterson 303)       |
| <b>Well:</b>     | WF12B-26 H26 596 (was WF11A-26 ) | <b>North Reference:</b>             | True                                  |
| <b>Wellbore:</b> | DD                               | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | DD                               | <b>Database:</b>                    | USA EDM 5000 Multi Users DB           |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                       |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Formations / Comments |
| 3,631.0             | 41.50           | 258.10      | 3,035.3             | -354.5     | -1,761.4   | 1,796.7               | 1.75                  | 1.43                 |                       |
| 3,723.0             | 41.10           | 257.50      | 3,104.4             | -367.4     | -1,820.8   | 1,857.4               | 0.61                  | -0.43                |                       |
| 3,814.0             | 40.40           | 257.00      | 3,173.4             | -380.5     | -1,878.7   | 1,916.8               | 0.85                  | -0.77                |                       |
| 3,906.0             | 40.90           | 258.70      | 3,243.2             | -393.1     | -1,937.3   | 1,976.8               | 1.32                  | 0.54                 |                       |
| 3,997.0             | 39.70           | 258.00      | 3,312.6             | -404.9     | -1,995.0   | 2,035.6               | 1.41                  | -1.32                |                       |
| 4,089.0             | 39.60           | 258.70      | 3,383.4             | -416.8     | -2,052.5   | 2,094.3               | 0.50                  | -0.11                |                       |
| 4,181.0             | 39.20           | 258.10      | 3,454.5             | -428.5     | -2,109.7   | 2,152.7               | 0.60                  | -0.43                |                       |
| 4,273.0             | 38.60           | 258.00      | 3,526.1             | -440.5     | -2,166.2   | 2,210.5               | 0.66                  | -0.65                |                       |
| 4,364.0             | 37.60           | 257.70      | 3,597.7             | -452.3     | -2,221.1   | 2,266.6               | 1.12                  | -1.10                |                       |
| 4,456.0             | 34.10           | 259.90      | 3,672.3             | -462.8     | -2,273.9   | 2,320.5               | 4.05                  | -3.80                |                       |
| 4,547.0             | 32.20           | 263.50      | 3,748.4             | -470.0     | -2,323.1   | 2,370.1               | 3.01                  | -2.09                |                       |
| 4,639.0             | 32.80           | 264.30      | 3,826.0             | -475.3     | -2,372.3   | 2,419.3               | 0.80                  | 0.65                 |                       |
| 4,730.0             | 36.30           | 263.40      | 3,901.0             | -480.8     | -2,423.6   | 2,470.7               | 3.89                  | 3.85                 |                       |
| 4,822.0             | 39.00           | 258.50      | 3,973.8             | -489.7     | -2,479.0   | 2,526.8               | 4.38                  | 2.93                 |                       |
| 4,913.0             | 38.80           | 255.50      | 4,044.7             | -502.6     | -2,534.7   | 2,583.9               | 2.08                  | -0.22                |                       |
| 5,005.0             | 40.70           | 256.30      | 4,115.4             | -516.9     | -2,591.7   | 2,642.7               | 2.14                  | 2.07                 |                       |
| 5,096.0             | 40.30           | 255.80      | 4,184.6             | -531.2     | -2,649.1   | 2,701.7               | 0.57                  | -0.44                |                       |
| 5,188.0             | 39.60           | 254.20      | 4,255.1             | -546.4     | -2,706.1   | 2,760.7               | 1.35                  | -0.76                |                       |
| 5,279.0             | 38.50           | 257.10      | 4,325.8             | -560.7     | -2,761.7   | 2,818.0               | 2.34                  | -1.21                |                       |
| 5,371.0             | 38.40           | 255.80      | 4,397.8             | -574.1     | -2,817.3   | 2,875.1               | 0.89                  | -0.11                |                       |
| 5,462.0             | 36.00           | 257.60      | 4,470.3             | -586.7     | -2,870.8   | 2,930.1               | 2.90                  | -2.64                |                       |
| 5,554.0             | 33.70           | 256.30      | 4,545.8             | -598.6     | -2,922.0   | 2,982.7               | 2.63                  | -2.50                |                       |
| 5,646.0             | 30.90           | 256.00      | 4,623.6             | -610.4     | -2,969.7   | 3,031.8               | 3.05                  | -3.04                |                       |
| 5,737.0             | 27.60           | 254.40      | 4,703.0             | -621.7     | -3,012.7   | 3,076.2               | 3.73                  | -3.63                |                       |
| 5,829.0             | 25.60           | 256.90      | 4,785.2             | -631.9     | -3,052.6   | 3,117.3               | 2.49                  | -2.17                |                       |
| 5,921.0             | 23.40           | 257.70      | 4,868.9             | -640.3     | -3,089.8   | 3,155.5               | 2.42                  | -2.39                |                       |
| 6,012.0             | 20.20           | 259.40      | 4,953.4             | -647.1     | -3,122.9   | 3,189.3               | 3.58                  | -3.52                |                       |
| 6,104.0             | 17.30           | 260.60      | 5,040.5             | -652.2     | -3,152.1   | 3,218.8               | 3.18                  | -3.15                |                       |
| 6,195.0             | 16.40           | 255.90      | 5,127.6             | -657.6     | -3,177.9   | 3,245.2               | 1.79                  | -0.99                |                       |
| 6,287.0             | 14.90           | 254.10      | 5,216.2             | -664.0     | -3,201.8   | 3,270.0               | 1.71                  | -1.63                |                       |
| 6,378.0             | 12.00           | 250.60      | 5,304.7             | -670.3     | -3,222.0   | 3,291.0               | 3.31                  | -3.19                |                       |
| 6,470.0             | 10.90           | 247.60      | 5,394.9             | -676.8     | -3,239.1   | 3,309.0               | 1.36                  | -1.20                |                       |
| 6,561.0             | 7.10            | 248.50      | 5,484.7             | -682.1     | -3,252.3   | 3,323.0               | 4.18                  | -4.18                |                       |
| 6,653.0             | 4.70            | 245.90      | 5,576.2             | -685.8     | -3,261.0   | 3,332.3               | 2.62                  | -2.61                |                       |
| 6,744.0             | 2.40            | 256.80      | 5,667.1             | -687.7     | -3,266.3   | 3,337.9               | 2.62                  | -2.53                |                       |
| 6,836.0             | 2.00            | 357.60      | 5,759.0             | -686.6     | -3,268.2   | 3,339.5               | 3.70                  | -0.43                |                       |
| 6,927.0             | 2.00            | 21.80       | 5,850.0             | -683.5     | -3,267.7   | 3,338.4               | 0.92                  | 0.00                 |                       |
| 7,019.0             | 1.70            | 19.90       | 5,941.9             | -680.7     | -3,266.6   | 3,336.8               | 0.33                  | -0.33                |                       |
| 7,110.0             | 1.70            | 21.10       | 6,032.9             | -678.2     | -3,265.7   | 3,335.4               | 0.04                  | 0.00                 |                       |
| 7,202.0             | 1.00            | 15.30       | 6,124.9             | -676.2     | -3,265.0   | 3,334.2               | 0.77                  | -0.76                |                       |
| 7,293.0             | 0.40            | 347.30      | 6,215.9             | -675.1     | -3,264.8   | 3,333.9               | 0.74                  | -0.66                |                       |
| 7,385.0             | 0.30            | 346.20      | 6,307.9             | -674.5     | -3,265.0   | 3,333.9               | 0.11                  | -0.11                |                       |
| 7,476.0             | 0.10            | 338.70      | 6,398.9             | -674.2     | -3,265.1   | 3,333.9               | 0.22                  | -0.22                |                       |
| 7,568.0             | 0.30            | 233.60      | 6,490.9             | -674.3     | -3,265.3   | 3,334.2               | 0.37                  | 0.22                 |                       |
| 7,659.0             | 1.10            | 120.60      | 6,581.8             | -674.9     | -3,264.7   | 3,333.7               | 1.37                  | 0.88                 |                       |
| 7,751.0             | 0.60            | 146.70      | 6,673.8             | -675.7     | -3,263.7   | 3,332.9               | 0.67                  | -0.54                |                       |
| 7,842.0             | 0.40            | 165.70      | 6,764.8             | -676.4     | -3,263.3   | 3,332.7               | 0.28                  | -0.22                |                       |
| 7,934.0             | 1.50            | 64.10       | 6,856.8             | -676.2     | -3,262.2   | 3,331.5               | 1.77                  | 1.20                 |                       |
| 8,026.0             | 1.00            | 64.30       | 6,948.8             | -675.3     | -3,260.4   | 3,329.6               | 0.54                  | -0.54                |                       |
| 8,117.0             | 0.40            | 36.20       | 7,039.8             | -674.7     | -3,259.5   | 3,328.6               | 0.74                  | -0.66                |                       |
| 8,209.0             | 1.20            | 94.30       | 7,131.8             | -674.6     | -3,258.3   | 3,327.4               | 1.14                  | 0.87                 |                       |
| 8,300.0             | 0.80            | 102.40      | 7,222.8             | -674.8     | -3,256.8   | 3,325.9               | 0.47                  | -0.44                |                       |
| 8,392.0             | 0.60            | 128.80      | 7,314.8             | -675.2     | -3,255.8   | 3,325.0               | 0.41                  | -0.22                |                       |

# Cathedral Energy Services

## Survey Report

|                  |                                  |                                     |                                       |
|------------------|----------------------------------|-------------------------------------|---------------------------------------|
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc       | <b>Local Co-ordinate Reference:</b> | Well WF12B-26 H26 596 (was WF11A-26 ) |
| <b>Project:</b>  | North Piceance                   | <b>TVD Reference:</b>               | WELL @ 6114.0ft (Patterson 303)       |
| <b>Site:</b>     | H26 596                          | <b>MD Reference:</b>                | WELL @ 6114.0ft (Patterson 303)       |
| <b>Well:</b>     | WF12B-26 H26 596 (was WF11A-26 ) | <b>North Reference:</b>             | True                                  |
| <b>Wellbore:</b> | DD                               | <b>Survey Calculation Method:</b>   | Minimum Curvature                     |
| <b>Design:</b>   | DD                               | <b>Database:</b>                    | USA EDM 5000 Multi Users DB           |

| Survey              |                 |             |                     |            |            |                       |                       |                      |                                   |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Formations / Comments             |
| 8,484.0             | 0.40            | 220.50      | 7,406.8             | -675.8     | -3,255.6   | 3,325.0               | 0.79                  | -0.22                |                                   |
| 8,575.0             | 1.70            | 26.80       | 7,497.7             | -674.8     | -3,255.2   | 3,324.4               | 2.30                  | 1.43                 |                                   |
| 8,667.0             | 1.50            | 9.80        | 7,589.7             | -672.4     | -3,254.4   | 3,323.1               | 0.56                  | -0.22                |                                   |
| 8,758.0             | 1.50            | 351.60      | 7,680.7             | -670.0     | -3,254.3   | 3,322.6               | 0.52                  | 0.00                 |                                   |
| 8,849.0             | 1.30            | 339.00      | 7,771.7             | -667.9     | -3,254.9   | 3,322.7               | 0.40                  | -0.22                |                                   |
| 8,941.0             | 0.40            | 171.40      | 7,863.6             | -667.2     | -3,255.2   | 3,322.9               | 1.84                  | -0.98                |                                   |
| 9,033.0             | 1.10            | 259.00      | 7,955.6             | -667.7     | -3,256.0   | 3,323.8               | 1.26                  | 0.76                 |                                   |
| 9,124.0             | 2.20            | 257.80      | 8,046.6             | -668.3     | -3,258.6   | 3,326.4               | 1.21                  | 1.21                 |                                   |
| 9,216.0             | 2.30            | 223.10      | 8,138.5             | -670.0     | -3,261.6   | 3,329.7               | 1.46                  | 0.11                 |                                   |
| 9,308.0             | 1.10            | 174.60      | 8,230.5             | -672.2     | -3,262.8   | 3,331.3               | 1.93                  | -1.30                |                                   |
| 9,399.0             | 1.10            | 180.40      | 8,321.5             | -673.9     | -3,262.7   | 3,331.5               | 0.12                  | 0.00                 |                                   |
| 9,491.0             | 1.20            | 213.10      | 8,413.5             | -675.6     | -3,263.2   | 3,332.4               | 0.71                  | 0.11                 |                                   |
| 9,582.0             | 1.70            | 228.60      | 8,504.4             | -677.3     | -3,264.7   | 3,334.3               | 0.69                  | 0.55                 |                                   |
| 9,674.0             | 1.80            | 231.40      | 8,596.4             | -679.1     | -3,266.9   | 3,336.7               | 0.14                  | 0.11                 |                                   |
| 9,686.0             | 1.70            | 234.70      | 8,608.4             | -679.4     | -3,267.2   | 3,337.1               | 1.18                  | -0.83                | Last Cathedral Survey @ 9,686' MD |
| 9,736.0             | 1.70            | 234.70      | 8,658.4             | -680.2     | -3,268.4   | 3,338.4               | 0.00                  | 0.00                 | PTB @ 9,736' MD                   |

| Targets  |               |              |          |            |            |               |              |                |                 |
|--|---------------|--------------|----------|------------|------------|---------------|--------------|----------------|-----------------|
| Target Name  | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude       | Longitude       |
| H26 596 WF12B-26 TG1<br>- hit/miss target<br>- Shape   | 0.00          | 0.00         | 5,569.0  | -671.7     | -3,243.0   | 1,648,702.36  | 2,255,627.65 | 39° 35' 5.13 N | 108° 8' 29.26 W |
| - actual wellpath misses target center by 22.2ft at 6643.5ft MD (5566.8 TVD, -685.4 N, -3260.3 E)                          |               |              |          |            |            |               |              |                |                 |
| - Point  |               |              |          |            |            |               |              |                |                 |
| H26 596 WF12B-26 BHL<br>- actual wellpath misses target center by 6.6ft at 9606.5ft MD (8529.0 TVD, -677.8 N, -3265.3 E)   | 0.00          | 0.00         | 8,529.0  | -681.7     | -3,260.0   | 1,648,692.84  | 2,255,610.35 | 39° 35' 5.03 N | 108° 8' 29.48 W |
| - Rectangle (sides W30.0 H50.0 D0.0)   |               |              |          |            |            |               |              |                |                 |
| H26 596 WF11A-26 TG1<br>- actual wellpath misses target center by 618.3ft at 5615.8ft MD (4597.8 TVD, -606.6 N, -2954.5 E) | 0.00          | 0.00         | 4,894.0  | -228.7     | -2,565.0   | 1,649,125.56  | 2,256,318.22 | 39° 35' 9.51 N | 108° 8' 20.60 W |
| - Point  |               |              |          |            |            |               |              |                |                 |

| Design Annotations  |                     |                   |            |                                   |  |
|---------------------|---------------------|-------------------|------------|-----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            |                                   |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) | Comment                           |  |
| 168.0               | 168.0               | -1.1              | -1.2       | Gyro survey @ 168' MD             |  |
| 1,707.0             | 1,557.4             | -121.1            | -552.5     | Last Cathedral svy @ 1707' MD     |  |
| 9,686.0             | 8,608.4             | -679.4            | -3,267.2   | Last Cathedral Survey @ 9,686' MD |  |
| 9,736.0             | 8,658.4             | -680.2            | -3,268.4   | PTB @ 9,736' MD                   |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_