

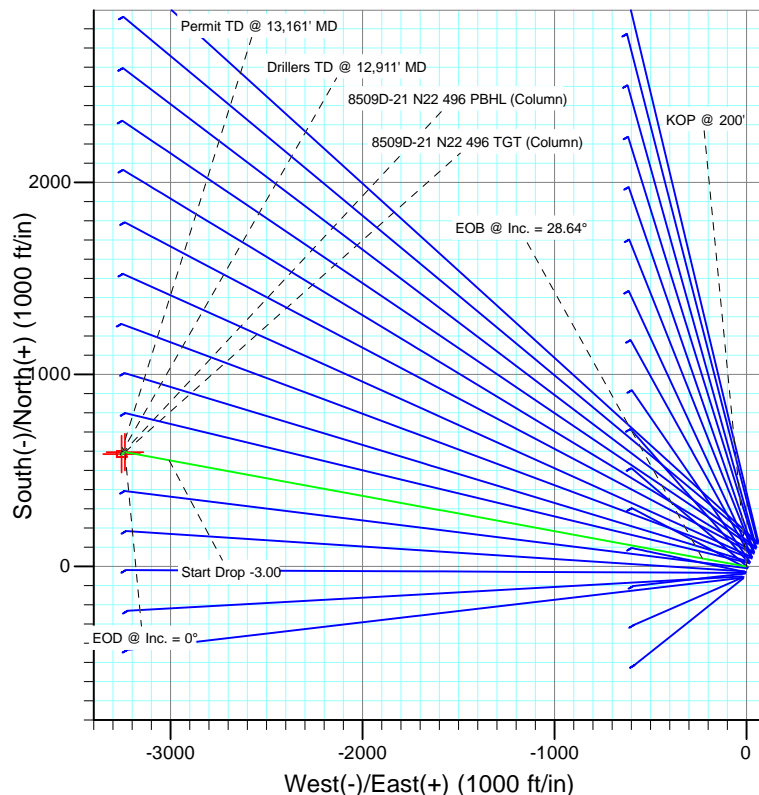


Project: Story Gulch  
Site: S22-T4S-R96W (N22 496) (Column Pattern)  
Well: 8509D-21 N22 496  
Wellbore: DD  
Design: Plan #1



#### 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   | 200.0   | 0.00  | 0.00   | 200.0   | 0.0   | 0.0     | 0.00 | 0.00   | 0.0    |                                |
| 3   | 1154.7  | 28.64 | 280.43 | 1115.5  | 42.3  | -229.9  | 3.00 | 280.43 | 233.7  |                                |
| 4   | 7046.8  | 28.64 | 280.43 | 6286.5  | 553.4 | -3007.5 | 0.00 | 0.00   | 3058.0 | 8509D-21 N22 496 TGT (Column)  |
| 5   | 8001.6  | 0.00  | 0.00   | 7202.0  | 595.7 | -3237.4 | 3.00 | 180.00 | 3291.7 |                                |
| 6   | 8127.1  | 0.31  | 239.60 | 7327.5  | 595.5 | -3237.7 | 0.25 | 239.60 | 3292.0 |                                |
| 7   | 11661.6 | 0.31  | 239.60 | 10862.0 | 585.7 | -3254.4 | 0.00 | 0.00   | 3306.7 | 8509D-21 N22 496 PBHL (Column) |
| 8   | 12911.6 | 0.31  | 239.60 | 12112.0 | 582.3 | -3260.3 | 0.00 | 0.00   | 3311.9 |                                |
| 9   | 13161.6 | 0.31  | 239.60 | 12362.0 | 581.6 | -3261.5 | 0.00 | 0.00   | 3312.9 |                                |



#### FORMATION TOP DETAILS

| TVDPATH | MDPATH  | FORMATION           |
|---------|---------|---------------------|
| 162.0   | 162.0   | Para Creek (TVD)    |
| 462.0   | 462.8   | Mahog Bench (TVD)   |
| 522.0   | 523.5   | Base B Groove (TVD) |
| 4062.0  | 4512.1  | Was G (TVD)         |
| 7162.0  | 7961.6  | WF (TVD)            |
| 7202.0  | 8001.6  | TOG (TVD)           |
| 10862.0 | 11661.6 | Rins (TVD)          |
| 11192.0 | 11991.6 | Cozz (TVD)          |
| 11382.0 | 12181.6 | Corc (TVD)          |
| 11662.0 | 12461.6 | Sego (TVD)          |
| 11862.0 | 12661.6 | L Sego (TVD)        |



Azimuths to True North  
Magnetic North: 10.52°

Magnetic Field  
Strength: 52372.1snT  
Dip Angle: 65.88°  
Date: 12/2/2010  
Model: IGRF2010

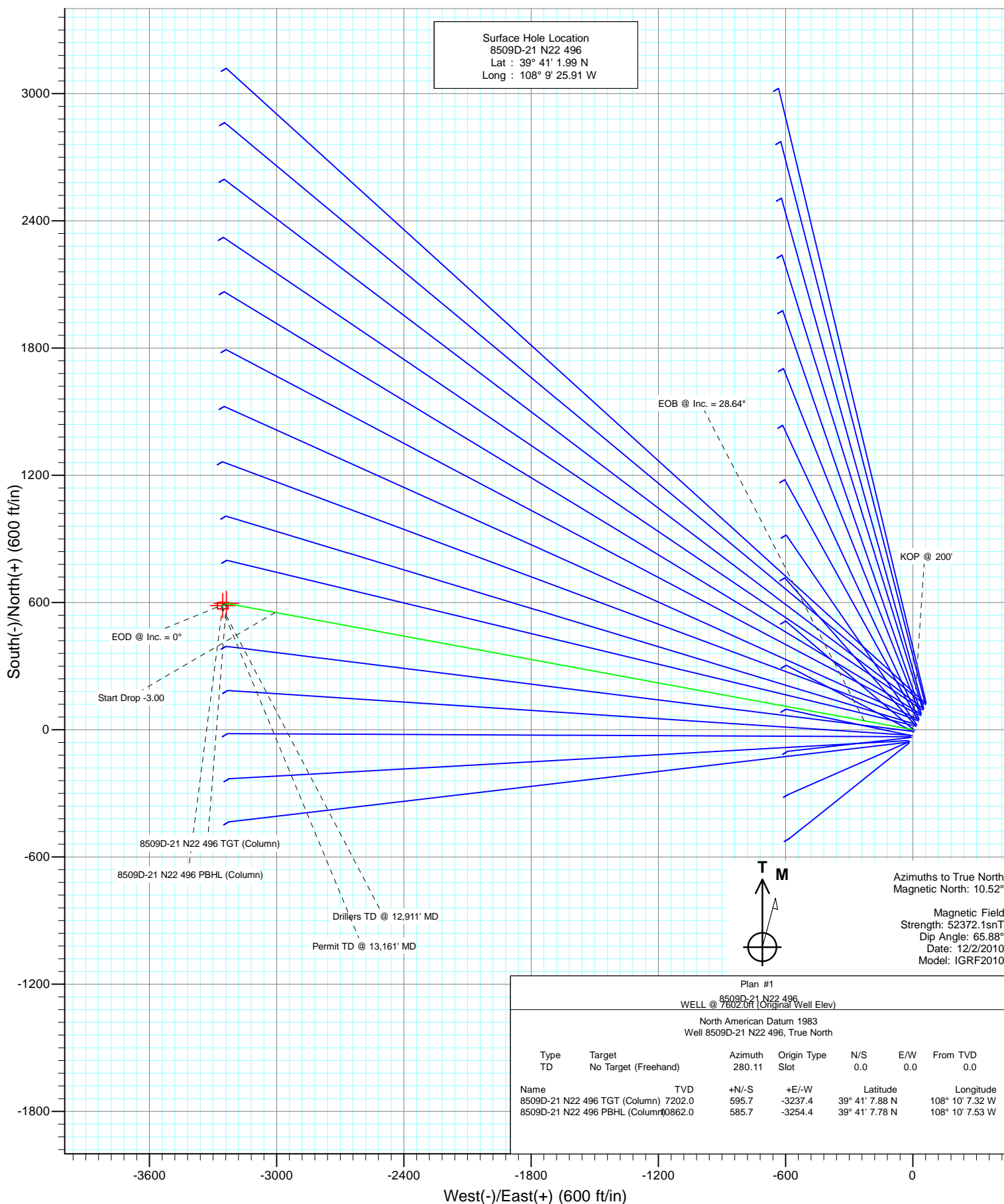
Plan #1  
8509D-21 N22 496  
WELL @ 7602.0ft (Original Well Elev)

North American Datum 1983  
Well 8509D-21 N22 496, True North

| Type                           | Target               | Azimuth | Origin | Type    | N/S            | E/W             | From |
|--------------------------------|----------------------|---------|--------|---------|----------------|-----------------|------|
| TD                             | No Target (Freehand) | 280.11  | Slot   | Slot    | 0.0            | 0.0             | TVD  |
| Name                           |                      | TVD     | +N/-S  | +E/-W   | Latitude       | Longitude       |      |
| 8509D-21 N22 496 TGT (Column)  |                      | 7202.0  | 595.7  | -3237.4 | 39° 41' 7.88 N | 108° 10' 7.32 W |      |
| 8509D-21 N22 496 PBHL (Column) |                      | 10862.0 | 585.7  | -3254.4 | 39° 41' 7.78 N | 108° 10' 7.53 W |      |

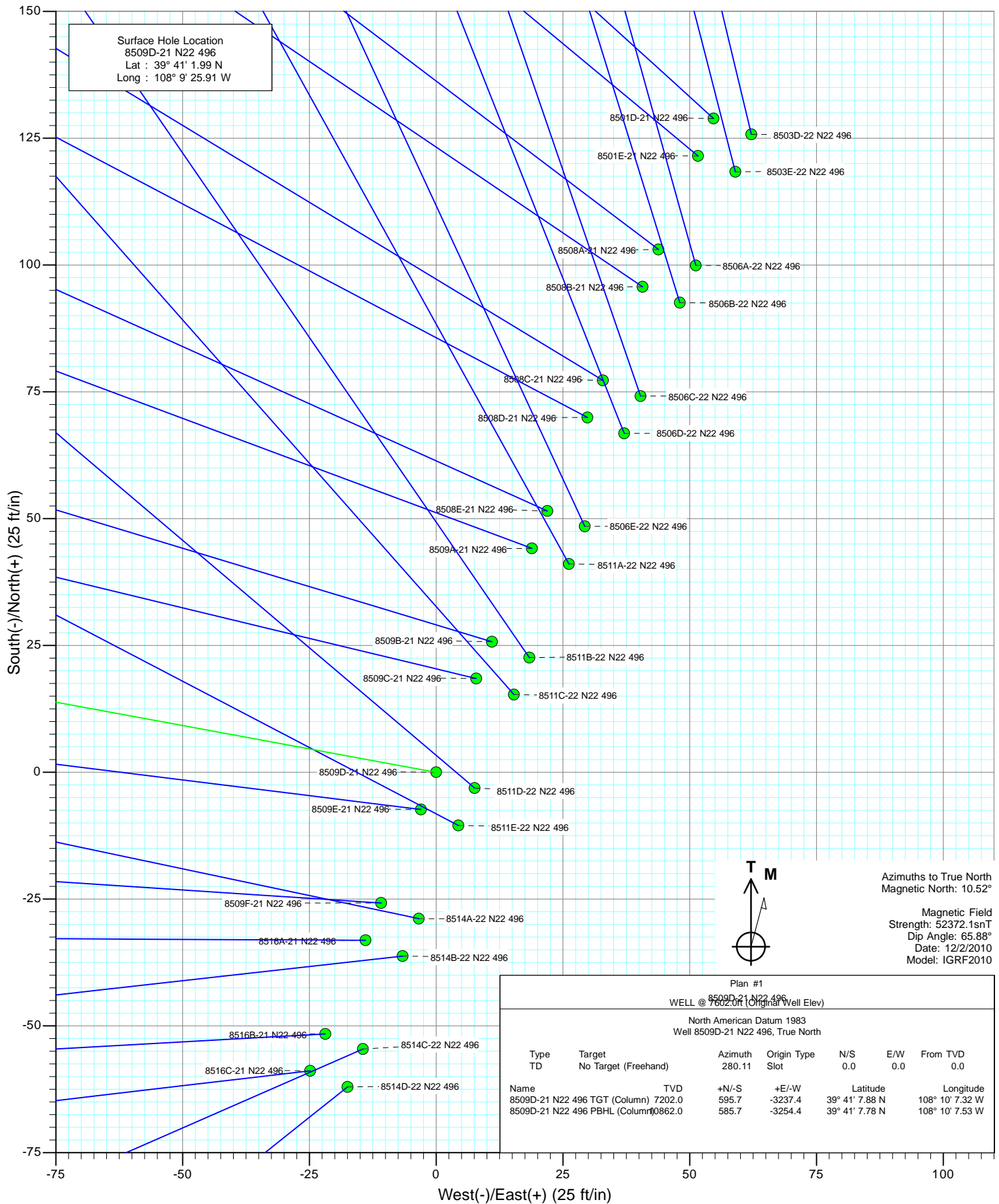


Project: Story Gulch  
Site: S22-T4S-R96W (N22 496) (Column Pattern)  
Well: 8509D-21 N22 496  
Wellbore: DD  
Design: Plan #1





Project: Story Gulch  
Site: S22-T4S-R96W (N22 496) (Column Pattern)  
Well: 8509D-21 N22 496  
Wellbore: DD  
Design: Plan #1

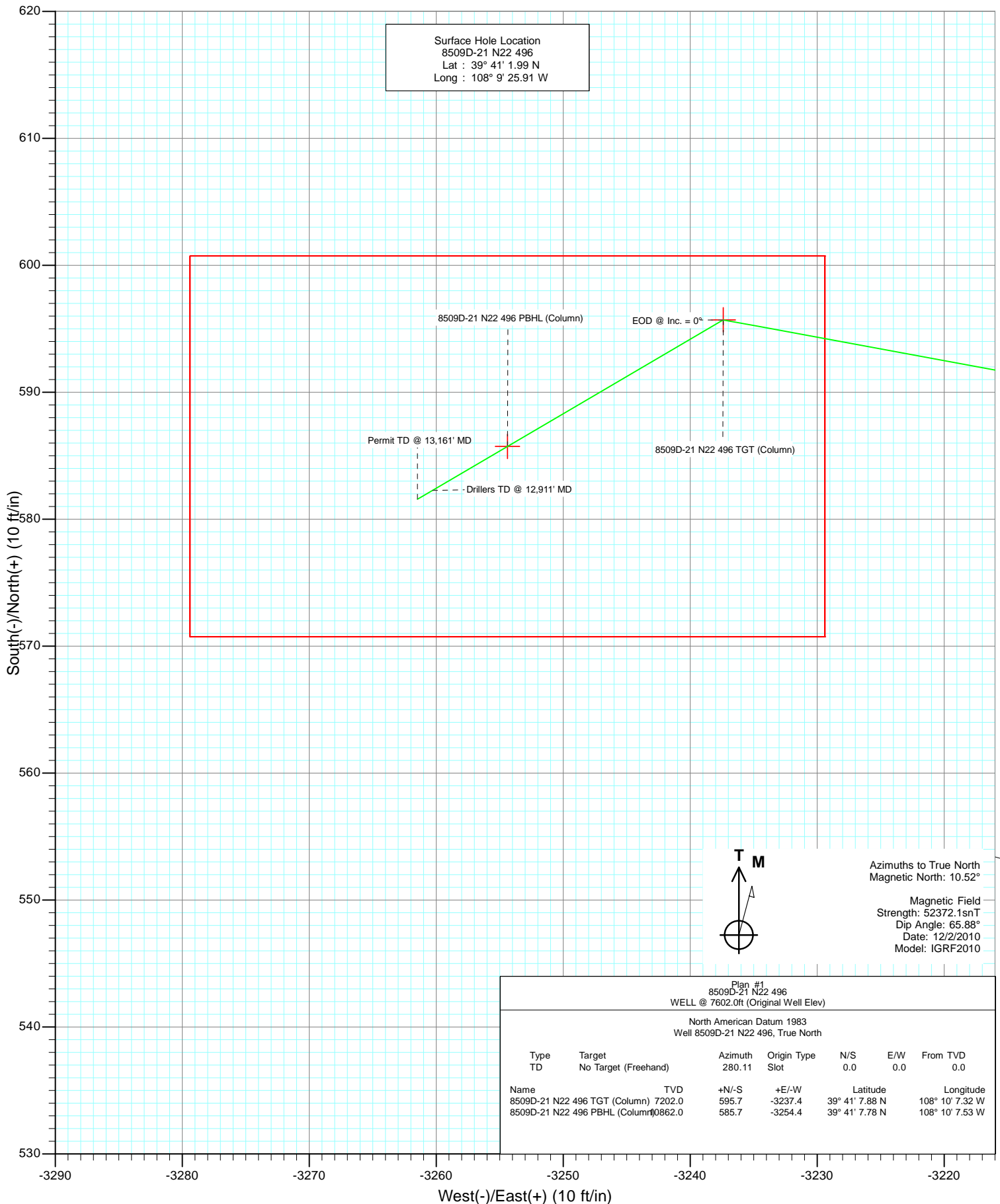




Project: Story Gulch  
Site: S22-T4S-R96W (N22 496) (Column Pattern)  
Well: 8509D-21 N22 496  
Wellbore: DD  
Design: Plan #1



Surface Hole Location  
8509D-21 N22 496  
Lat : 39° 41' 1.99 N  
Long : 108° 9' 25.91 W



# Cathedral Energy

## Planning Report

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 5000.1 US Multi Users DB            | <b>Local Co-ordinate Reference:</b> | Well 8509D-21 N22 496                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc              | <b>TVD Reference:</b>               | WELL @ 7602.0ft (Original Well Elev) |
| <b>Project:</b>  | Story Gulch                             | <b>MD Reference:</b>                | WELL @ 7602.0ft (Original Well Elev) |
| <b>Site:</b>     | S22-T4S-R96W (N22 496) (Column Pattern) | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | 8509D-21 N22 496                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | DD                                      |                                     |                                      |
| <b>Design:</b>   | Plan #1                                 |                                     |                                      |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Story Gulch               |                      |                |
| <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                  |          | S22-T4S-R96W (N22 496) (Column Pattern) |                 |                   |                 |
|-----------------------|----------|---|-----------------|-------------------|-----------------|
| Site Position:        |          | Northing:                               | 1,685,048.56 ft | Latitude:         | 39° 41' 3.24 N  |
| From:                 | Lat/Long | Easting:                                | 2,252,316.79 ft | Longitude:        | 108° 9' 25.11 W |
| Position Uncertainty: | 0.0 ft   | Slot Radius:                            | 13.200 in       | Grid Convergence: | -1.68 °         |

|                      |                  |        |                     |                 |               |                 |
|----------------------|------------------|--------|---------------------|-----------------|---------------|-----------------|
| Well                 | 8509D-21 N22 496 |        |                     |                 |               |                 |
| Well Position        | +N/-S            | 0.0 ft | Northing:           | 1,684,924.66 ft | Latitude:     | 39° 41' 1.99 N  |
|                      | +E/-W            | 0.0 ft | Easting:            | 2,252,250.96 ft | Longitude:    | 108° 9' 25.91 W |
| Position Uncertainty |                  | 0.0 ft | Wellhead Elevation: | ft              | Ground Level: | 7,569.0 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          | 12/2/2010          | 10.52                  | 65.88                | 52,372                     |

|                          |                              |                   |                      |                      |  |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|--|
| <b>Design</b>            | Plan #1                      |                   |                      |                      |  |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |  |
| <b>Version:</b>          | <b>Phase:</b>                | PLAN              | <b>Tie On Depth:</b> | 0.0                  |  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |  |
|                          | 0.0                          | 0.0               | 0.0                  | 280.11               |  |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                     |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|---------------------|
| 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    |                     |
| 1,154.7              | 28.64           | 280.43      | 1,115.5             | 42.3       | -229.9     | 3.00                  | 3.00                 | 0.00                | 280.43  |                     |
| 7,046.8              | 28.64           | 280.43      | 6,286.5             | 553.4      | -3,007.5   | 0.00                  | 0.00                 | 0.00                | 0.00    |                     |
| 8,001.6              | 0.00            | 0.00        | 7,202.0             | 595.7      | -3,237.4   | 3.00                  | -3.00                | 0.00                | 180.00  | 8509D-21 N22 496 TC |
| 8,127.1              | 0.31            | 239.60      | 7,327.5             | 595.5      | -3,237.7   | 0.25                  | 0.25                 | -95.94              | 239.60  |                     |
| 11,661.6             | 0.31            | 239.60      | 10,862.0            | 585.7      | -3,254.4   | 0.00                  | 0.00                 | 0.00                | 0.00    | 8509D-21 N22 496 PI |
| 12,911.6             | 0.31            | 239.60      | 12,112.0            | 582.3      | -3,260.3   | 0.00                  | 0.00                 | 0.00                | 0.00    |                     |
| 13,161.6             | 0.31            | 239.60      | 12,362.0            | 581.6      | -3,261.5   | 0.00                  | 0.00                 | 0.00                | 0.00    |                     |

# Cathedral Energy

## Planning Report

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 5000.1 US Multi Users DB            | <b>Local Co-ordinate Reference:</b> | Well 8509D-21 N22 496                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc              | <b>TVD Reference:</b>               | WELL @ 7602.0ft (Original Well Elev) |
| <b>Project:</b>  | Story Gulch                             | <b>MD Reference:</b>                | WELL @ 7602.0ft (Original Well Elev) |
| <b>Site:</b>     | S22-T4S-R96W (N22 496) (Column Pattern) | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | 8509D-21 N22 496                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | DD                                      |                                     |                                      |
| <b>Design:</b>   | 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                 |                       |
| 162.0               | 0.00            | 0.00        | 162.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | Para Creek (TVD)      |
| 200.0               | 0.00            | 0.00        | 200.0               | 0.0        | 0.0        | 0.0                   | 0.00                  | 0.00                 | KOP @ 200'            |
| 300.0               | 3.00            | 280.43      | 300.0               | 0.5        | -2.6       | 2.6                   | 3.00                  | 3.00                 |                       |
| 400.0               | 6.00            | 280.43      | 399.6               | 1.9        | -10.3      | 10.5                  | 3.00                  | 3.00                 |                       |
| 462.8               | 7.88            | 280.43      | 462.0               | 3.3        | -17.8      | 18.1                  | 3.00                  | 3.00                 | Mahog Bench (TVD)     |
| 500.0               | 9.00            | 280.43      | 498.8               | 4.3        | -23.1      | 23.5                  | 3.00                  | 3.00                 |                       |
| 523.5               | 9.71            | 280.43      | 522.0               | 4.9        | -26.9      | 27.3                  | 3.00                  | 3.00                 | Base B Groove (TVD)   |
| 600.0               | 12.00           | 280.43      | 597.1               | 7.6        | -41.0      | 41.7                  | 3.00                  | 3.00                 |                       |
| 700.0               | 15.00           | 280.43      | 694.3               | 11.8       | -64.0      | 65.1                  | 3.00                  | 3.00                 |                       |
| 800.0               | 18.00           | 280.43      | 790.2               | 16.9       | -91.9      | 93.5                  | 3.00                  | 3.00                 |                       |
| 900.0               | 21.00           | 280.43      | 884.4               | 23.0       | -124.8     | 126.9                 | 3.00                  | 3.00                 |                       |
| 1,000.0             | 24.00           | 280.43      | 976.8               | 29.9       | -162.4     | 165.1                 | 3.00                  | 3.00                 |                       |
| 1,100.0             | 27.00           | 280.43      | 1,067.1             | 37.7       | -204.7     | 208.2                 | 3.00                  | 3.00                 |                       |
| 1,154.7             | 28.64           | 280.43      | 1,115.5             | 42.3       | -229.9     | 233.7                 | 3.00                  | 3.00                 | EOB @ Inc. = 28.64°   |
| 1,200.0             | 28.64           | 280.43      | 1,155.2             | 46.2       | -251.2     | 255.4                 | 0.00                  | 0.00                 |                       |
| 1,300.0             | 28.64           | 280.43      | 1,243.0             | 54.9       | -298.3     | 303.3                 | 0.00                  | 0.00                 |                       |
| 1,400.0             | 28.64           | 280.43      | 1,330.7             | 63.6       | -345.5     | 351.3                 | 0.00                  | 0.00                 |                       |
| 1,500.0             | 28.64           | 280.43      | 1,418.5             | 72.2       | -392.6     | 399.2                 | 0.00                  | 0.00                 |                       |
| 1,600.0             | 28.64           | 280.43      | 1,506.2             | 80.9       | -439.8     | 447.1                 | 0.00                  | 0.00                 |                       |
| 1,700.0             | 28.64           | 280.43      | 1,594.0             | 89.6       | -486.9     | 495.1                 | 0.00                  | 0.00                 |                       |
| 1,800.0             | 28.64           | 280.43      | 1,681.8             | 98.3       | -534.0     | 543.0                 | 0.00                  | 0.00                 |                       |
| 1,900.0             | 28.64           | 280.43      | 1,769.5             | 106.9      | -581.2     | 590.9                 | 0.00                  | 0.00                 |                       |
| 2,000.0             | 28.64           | 280.43      | 1,857.3             | 115.6      | -628.3     | 638.9                 | 0.00                  | 0.00                 |                       |
| 2,100.0             | 28.64           | 280.43      | 1,945.1             | 124.3      | -675.5     | 686.8                 | 0.00                  | 0.00                 |                       |
| 2,200.0             | 28.64           | 280.43      | 2,032.8             | 133.0      | -722.6     | 734.7                 | 0.00                  | 0.00                 |                       |
| 2,300.0             | 28.64           | 280.43      | 2,120.6             | 141.6      | -769.8     | 782.7                 | 0.00                  | 0.00                 |                       |
| 2,400.0             | 28.64           | 280.43      | 2,208.3             | 150.3      | -816.9     | 830.6                 | 0.00                  | 0.00                 |                       |
| 2,500.0             | 28.64           | 280.43      | 2,296.1             | 159.0      | -864.0     | 878.5                 | 0.00                  | 0.00                 |                       |
| 2,600.0             | 28.64           | 280.43      | 2,383.9             | 167.7      | -911.2     | 926.5                 | 0.00                  | 0.00                 |                       |
| 2,700.0             | 28.64           | 280.43      | 2,471.6             | 176.3      | -958.3     | 974.4                 | 0.00                  | 0.00                 |                       |
| 2,800.0             | 28.64           | 280.43      | 2,559.4             | 185.0      | -1,005.5   | 1,022.3               | 0.00                  | 0.00                 |                       |
| 2,900.0             | 28.64           | 280.43      | 2,647.2             | 193.7      | -1,052.6   | 1,070.3               | 0.00                  | 0.00                 |                       |
| 3,000.0             | 28.64           | 280.43      | 2,734.9             | 202.4      | -1,099.8   | 1,118.2               | 0.00                  | 0.00                 |                       |
| 3,100.0             | 28.64           | 280.43      | 2,822.7             | 211.0      | -1,146.9   | 1,166.1               | 0.00                  | 0.00                 |                       |
| 3,200.0             | 28.64           | 280.43      | 2,910.4             | 219.7      | -1,194.0   | 1,214.1               | 0.00                  | 0.00                 |                       |
| 3,300.0             | 28.64           | 280.43      | 2,998.2             | 228.4      | -1,241.2   | 1,262.0               | 0.00                  | 0.00                 |                       |
| 3,400.0             | 28.64           | 280.43      | 3,086.0             | 237.1      | -1,288.3   | 1,309.9               | 0.00                  | 0.00                 |                       |
| 3,500.0             | 28.64           | 280.43      | 3,173.7             | 245.7      | -1,335.5   | 1,357.9               | 0.00                  | 0.00                 |                       |
| 3,600.0             | 28.64           | 280.43      | 3,261.5             | 254.4      | -1,382.6   | 1,405.8               | 0.00                  | 0.00                 |                       |
| 3,700.0             | 28.64           | 280.43      | 3,349.3             | 263.1      | -1,429.8   | 1,453.7               | 0.00                  | 0.00                 |                       |
| 3,800.0             | 28.64           | 280.43      | 3,437.0             | 271.8      | -1,476.9   | 1,501.7               | 0.00                  | 0.00                 |                       |
| 3,900.0             | 28.64           | 280.43      | 3,524.8             | 280.4      | -1,524.0   | 1,549.6               | 0.00                  | 0.00                 |                       |
| 4,000.0             | 28.64           | 280.43      | 3,612.5             | 289.1      | -1,571.2   | 1,597.5               | 0.00                  | 0.00                 |                       |
| 4,100.0             | 28.64           | 280.43      | 3,700.3             | 297.8      | -1,618.3   | 1,645.5               | 0.00                  | 0.00                 |                       |
| 4,200.0             | 28.64           | 280.43      | 3,788.1             | 306.5      | -1,665.5   | 1,693.4               | 0.00                  | 0.00                 |                       |
| 4,300.0             | 28.64           | 280.43      | 3,875.8             | 315.1      | -1,712.6   | 1,741.3               | 0.00                  | 0.00                 |                       |
| 4,400.0             | 28.64           | 280.43      | 3,963.6             | 323.8      | -1,759.8   | 1,789.3               | 0.00                  | 0.00                 |                       |
| 4,500.0             | 28.64           | 280.43      | 4,051.4             | 332.5      | -1,806.9   | 1,837.2               | 0.00                  | 0.00                 |                       |
| 4,512.1             | 28.64           | 280.43      | 4,062.0             | 333.5      | -1,812.6   | 1,843.0               | 0.00                  | 0.00                 | Was G (TVD)           |
| 4,600.0             | 28.64           | 280.43      | 4,139.1             | 341.2      | -1,854.0   | 1,885.1               | 0.00                  | 0.00                 |                       |

# Cathedral Energy

## Planning Report

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 5000.1 US Multi Users DB            | <b>Local Co-ordinate Reference:</b> | Well 8509D-21 N22 496                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc              | <b>TVD Reference:</b>               | WELL @ 7602.0ft (Original Well Elev) |
| <b>Project:</b>  | Story Gulch                             | <b>MD Reference:</b>                | WELL @ 7602.0ft (Original Well Elev) |
| <b>Site:</b>     | S22-T4S-R96W (N22 496) (Column Pattern) | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | 8509D-21 N22 496                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | DD                                      |                                     |                                      |
| <b>Design:</b>   | 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                      |
| 4,700.0             | 28.64           | 280.43      | 4,226.9             | 349.8      | -1,901.2   | 1,933.1               | 0.00                  | 0.00                 |  |
| 4,800.0             | 28.64           | 280.43      | 4,314.6             | 358.5      | -1,948.3   | 1,981.0               | 0.00                  | 0.00                 |  |
| 4,900.0             | 28.64           | 280.43      | 4,402.4             | 367.2      | -1,995.5   | 2,028.9               | 0.00                  | 0.00                 |  |
| 5,000.0             | 28.64           | 280.43      | 4,490.2             | 375.9      | -2,042.6   | 2,076.9               | 0.00                  | 0.00                 |  |
| 5,100.0             | 28.64           | 280.43      | 4,577.9             | 384.5      | -2,089.8   | 2,124.8               | 0.00                  | 0.00                 |  |
| 5,200.0             | 28.64           | 280.43      | 4,665.7             | 393.2      | -2,136.9   | 2,172.7               | 0.00                  | 0.00                 |  |
| 5,300.0             | 28.64           | 280.43      | 4,753.5             | 401.9      | -2,184.0   | 2,220.7               | 0.00                  | 0.00                 |  |
| 5,400.0             | 28.64           | 280.43      | 4,841.2             | 410.6      | -2,231.2   | 2,268.6               | 0.00                  | 0.00                 |  |
| 5,500.0             | 28.64           | 280.43      | 4,929.0             | 419.2      | -2,278.3   | 2,316.5               | 0.00                  | 0.00                 |  |
| 5,600.0             | 28.64           | 280.43      | 5,016.8             | 427.9      | -2,325.5   | 2,364.5               | 0.00                  | 0.00                 |  |
| 5,700.0             | 28.64           | 280.43      | 5,104.5             | 436.6      | -2,372.6   | 2,412.4               | 0.00                  | 0.00                 |  |
| 5,800.0             | 28.64           | 280.43      | 5,192.3             | 445.3      | -2,419.8   | 2,460.3               | 0.00                  | 0.00                 |  |
| 5,900.0             | 28.64           | 280.43      | 5,280.0             | 453.9      | -2,466.9   | 2,508.3               | 0.00                  | 0.00                 |  |
| 6,000.0             | 28.64           | 280.43      | 5,367.8             | 462.6      | -2,514.0   | 2,556.2               | 0.00                  | 0.00                 |  |
| 6,100.0             | 28.64           | 280.43      | 5,455.6             | 471.3      | -2,561.2   | 2,604.1               | 0.00                  | 0.00                 |  |
| 6,200.0             | 28.64           | 280.43      | 5,543.3             | 480.0      | -2,608.3   | 2,652.1               | 0.00                  | 0.00                 |  |
| 6,300.0             | 28.64           | 280.43      | 5,631.1             | 488.6      | -2,655.5   | 2,700.0               | 0.00                  | 0.00                 |  |
| 6,400.0             | 28.64           | 280.43      | 5,718.9             | 497.3      | -2,702.6   | 2,747.9               | 0.00                  | 0.00                 |  |
| 6,500.0             | 28.64           | 280.43      | 5,806.6             | 506.0      | -2,749.8   | 2,795.9               | 0.00                  | 0.00                 |  |
| 6,600.0             | 28.64           | 280.43      | 5,894.4             | 514.6      | -2,796.9   | 2,843.8               | 0.00                  | 0.00                 |  |
| 6,700.0             | 28.64           | 280.43      | 5,982.1             | 523.3      | -2,844.0   | 2,891.7               | 0.00                  | 0.00                 |  |
| 6,800.0             | 28.64           | 280.43      | 6,069.9             | 532.0      | -2,891.2   | 2,939.7               | 0.00                  | 0.00                 |  |
| 6,900.0             | 28.64           | 280.43      | 6,157.7             | 540.7      | -2,938.3   | 2,987.6               | 0.00                  | 0.00                 |  |
| 7,000.0             | 28.64           | 280.43      | 6,245.4             | 549.3      | -2,985.5   | 3,035.5               | 0.00                  | 0.00                 |  |
| 7,046.8             | 28.64           | 280.43      | 6,286.5             | 553.4      | -3,007.5   | 3,058.0               | 0.00                  | 0.00                 | Start Drop -3.00                           |
| 7,100.0             | 27.05           | 280.43      | 6,333.5             | 557.9      | -3,032.0   | 3,082.8               | 3.00                  | -3.00                |  |
| 7,200.0             | 24.05           | 280.43      | 6,423.8             | 565.7      | -3,074.4   | 3,125.9               | 3.00                  | -3.00                |  |
| 7,300.0             | 21.05           | 280.43      | 6,516.1             | 572.6      | -3,112.1   | 3,164.3               | 3.00                  | -3.00                |  |
| 7,400.0             | 18.05           | 280.43      | 6,610.3             | 578.7      | -3,145.0   | 3,197.7               | 3.00                  | -3.00                |  |
| 7,500.0             | 15.05           | 280.43      | 6,706.2             | 583.9      | -3,173.0   | 3,226.2               | 3.00                  | -3.00                |  |
| 7,600.0             | 12.05           | 280.43      | 6,803.4             | 588.1      | -3,196.0   | 3,249.6               | 3.00                  | -3.00                |  |
| 7,700.0             | 9.05            | 280.43      | 6,901.7             | 591.4      | -3,214.0   | 3,267.9               | 3.00                  | -3.00                |  |
| 7,800.0             | 6.05            | 280.43      | 7,000.8             | 593.8      | -3,226.9   | 3,281.1               | 3.00                  | -3.00                |  |
| 7,900.0             | 3.05            | 280.43      | 7,100.5             | 595.2      | -3,234.7   | 3,289.0               | 3.00                  | -3.00                |  |
| 7,961.6             | 1.20            | 280.43      | 7,162.0             | 595.6      | -3,237.0   | 3,291.3               | 3.00                  | -3.00                | WF (TVD)                                   |
| 8,000.0             | 0.05            | 280.43      | 7,200.4             | 595.7      | -3,237.4   | 3,291.7               | 3.00                  | -3.00                |  |
| 8,001.6             | 0.00            | 0.00        | 7,202.0             | 595.7      | -3,237.4   | 3,291.7               | 3.00                  | -3.00                | EOD @ Inc. = 0° - TOG (TVD) - 8509D-21 N22 |
| 8,100.0             | 0.25            | 239.60      | 7,300.4             | 595.6      | -3,237.6   | 3,291.9               | 0.25                  | 0.25                 |  |
| 8,127.1             | 0.31            | 239.60      | 7,327.5             | 595.5      | -3,237.7   | 3,292.0               | 0.25                  | 0.25                 |  |
| 8,200.0             | 0.31            | 239.60      | 7,400.4             | 595.3      | -3,238.0   | 3,292.3               | 0.00                  | 0.00                 |  |
| 8,300.0             | 0.31            | 239.60      | 7,500.4             | 595.1      | -3,238.5   | 3,292.7               | 0.00                  | 0.00                 |  |
| 8,400.0             | 0.31            | 239.60      | 7,600.4             | 594.8      | -3,239.0   | 3,293.1               | 0.00                  | 0.00                 |  |
| 8,500.0             | 0.31            | 239.60      | 7,700.4             | 594.5      | -3,239.5   | 3,293.5               | 0.00                  | 0.00                 |  |
| 8,600.0             | 0.31            | 239.60      | 7,800.4             | 594.2      | -3,239.9   | 3,293.9               | 0.00                  | 0.00                 |  |
| 8,700.0             | 0.31            | 239.60      | 7,900.4             | 593.9      | -3,240.4   | 3,294.3               | 0.00                  | 0.00                 |  |
| 8,800.0             | 0.31            | 239.60      | 8,000.4             | 593.7      | -3,240.9   | 3,294.8               | 0.00                  | 0.00                 |  |
| 8,900.0             | 0.31            | 239.60      | 8,100.4             | 593.4      | -3,241.3   | 3,295.2               | 0.00                  | 0.00                 |  |
| 9,000.0             | 0.31            | 239.60      | 8,200.4             | 593.1      | -3,241.8   | 3,295.6               | 0.00                  | 0.00                 |  |
| 9,100.0             | 0.31            | 239.60      | 8,300.4             | 592.8      | -3,242.3   | 3,296.0               | 0.00                  | 0.00                 |  |
| 9,200.0             | 0.31            | 239.60      | 8,400.4             | 592.6      | -3,242.8   | 3,296.4               | 0.00                  | 0.00                 |  |
| 9,300.0             | 0.31            | 239.60      | 8,500.4             | 592.3      | -3,243.2   | 3,296.8               | 0.00                  | 0.00                 |  |
| 9,400.0             | 0.31            | 239.60      | 8,600.4             | 592.0      | -3,243.7   | 3,297.3               | 0.00                  | 0.00                 |  |



# Cathedral Energy

## Planning Report

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 5000.1 US Multi Users DB            | <b>Local Co-ordinate Reference:</b> | Well 8509D-21 N22 496                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc              | <b>TVD Reference:</b>               | WELL @ 7602.0ft (Original Well Elev) |
| <b>Project:</b>  | Story Gulch                             | <b>MD Reference:</b>                | WELL @ 7602.0ft (Original Well Elev) |
| <b>Site:</b>     | S22-T4S-R96W (N22 496) (Column Pattern) | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | 8509D-21 N22 496                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | DD                                      |                                     |                                      |
| <b>Design:</b>   | 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                      |
| 9,500.0             | 0.31            | 239.60      | 8,700.4             | 591.7      | -3,244.2   | 3,297.7               | 0.00                  | 0.00                 |  |
| 9,600.0             | 0.31            | 239.60      | 8,800.4             | 591.4      | -3,244.7   | 3,298.1               | 0.00                  | 0.00                 |  |
| 9,700.0             | 0.31            | 239.60      | 8,900.4             | 591.2      | -3,245.1   | 3,298.5               | 0.00                  | 0.00                 |  |
| 9,800.0             | 0.31            | 239.60      | 9,000.4             | 590.9      | -3,245.6   | 3,298.9               | 0.00                  | 0.00                 |  |
| 9,900.0             | 0.31            | 239.60      | 9,100.4             | 590.6      | -3,246.1   | 3,299.3               | 0.00                  | 0.00                 |  |
| 10,000.0            | 0.31            | 239.60      | 9,200.4             | 590.3      | -3,246.5   | 3,299.8               | 0.00                  | 0.00                 |  |
| 10,100.0            | 0.31            | 239.60      | 9,300.4             | 590.1      | -3,247.0   | 3,300.2               | 0.00                  | 0.00                 |  |
| 10,200.0            | 0.31            | 239.60      | 9,400.4             | 589.8      | -3,247.5   | 3,300.6               | 0.00                  | 0.00                 |  |
| 10,300.0            | 0.31            | 239.60      | 9,500.4             | 589.5      | -3,248.0   | 3,301.0               | 0.00                  | 0.00                 |  |
| 10,400.0            | 0.31            | 239.60      | 9,600.4             | 589.2      | -3,248.4   | 3,301.4               | 0.00                  | 0.00                 |  |
| 10,500.0            | 0.31            | 239.60      | 9,700.4             | 589.0      | -3,248.9   | 3,301.8               | 0.00                  | 0.00                 |  |
| 10,600.0            | 0.31            | 239.60      | 9,800.4             | 588.7      | -3,249.4   | 3,302.3               | 0.00                  | 0.00                 |  |
| 10,700.0            | 0.31            | 239.60      | 9,900.4             | 588.4      | -3,249.8   | 3,302.7               | 0.00                  | 0.00                 |  |
| 10,800.0            | 0.31            | 239.60      | 10,000.4            | 588.1      | -3,250.3   | 3,303.1               | 0.00                  | 0.00                 |  |
| 10,900.0            | 0.31            | 239.60      | 10,100.4            | 587.8      | -3,250.8   | 3,303.5               | 0.00                  | 0.00                 |  |
| 11,000.0            | 0.31            | 239.60      | 10,200.4            | 587.6      | -3,251.3   | 3,303.9               | 0.00                  | 0.00                 |  |
| 11,100.0            | 0.31            | 239.60      | 10,300.4            | 587.3      | -3,251.7   | 3,304.3               | 0.00                  | 0.00                 |  |
| 11,200.0            | 0.31            | 239.60      | 10,400.4            | 587.0      | -3,252.2   | 3,304.8               | 0.00                  | 0.00                 |  |
| 11,300.0            | 0.31            | 239.60      | 10,500.4            | 586.7      | -3,252.7   | 3,305.2               | 0.00                  | 0.00                 |  |
| 11,400.0            | 0.31            | 239.60      | 10,600.4            | 586.5      | -3,253.2   | 3,305.6               | 0.00                  | 0.00                 |  |
| 11,500.0            | 0.31            | 239.60      | 10,700.4            | 586.2      | -3,253.6   | 3,306.0               | 0.00                  | 0.00                 |  |
| 11,600.0            | 0.31            | 239.60      | 10,800.4            | 585.9      | -3,254.1   | 3,306.4               | 0.00                  | 0.00                 |  |
| 11,661.6            | 0.31            | 239.60      | 10,862.0            | 585.7      | -3,254.4   | 3,306.7               | 0.00                  | 0.00                 | Rins (TVD) - 8509D-21 N22 496 PBHL (Column |
| 11,700.0            | 0.31            | 239.60      | 10,900.4            | 585.6      | -3,254.6   | 3,306.8               | 0.00                  | 0.00                 |  |
| 11,800.0            | 0.31            | 239.60      | 11,000.4            | 585.4      | -3,255.0   | 3,307.3               | 0.00                  | 0.00                 |  |
| 11,900.0            | 0.31            | 239.60      | 11,100.4            | 585.1      | -3,255.5   | 3,307.7               | 0.00                  | 0.00                 |  |
| 11,991.6            | 0.31            | 239.60      | 11,192.0            | 584.8      | -3,255.9   | 3,308.1               | 0.00                  | 0.00                 | Cozz (TVD)                                 |
| 12,000.0            | 0.31            | 239.60      | 11,200.4            | 584.8      | -3,256.0   | 3,308.1               | 0.00                  | 0.00                 |  |
| 12,100.0            | 0.31            | 239.60      | 11,300.4            | 584.5      | -3,256.5   | 3,308.5               | 0.00                  | 0.00                 |  |
| 12,181.6            | 0.31            | 239.60      | 11,382.0            | 584.3      | -3,256.8   | 3,308.8               | 0.00                  | 0.00                 | Corc (TVD)                                 |
| 12,200.0            | 0.31            | 239.60      | 11,400.4            | 584.2      | -3,256.9   | 3,308.9               | 0.00                  | 0.00                 |  |
| 12,300.0            | 0.31            | 239.60      | 11,500.4            | 584.0      | -3,257.4   | 3,309.3               | 0.00                  | 0.00                 |  |
| 12,400.0            | 0.31            | 239.60      | 11,600.4            | 583.7      | -3,257.9   | 3,309.8               | 0.00                  | 0.00                 |  |
| 12,461.6            | 0.31            | 239.60      | 11,662.0            | 583.5      | -3,258.2   | 3,310.0               | 0.00                  | 0.00                 | Sego (TVD)                                 |
| 12,500.0            | 0.31            | 239.60      | 11,700.4            | 583.4      | -3,258.3   | 3,310.2               | 0.00                  | 0.00                 |  |
| 12,600.0            | 0.31            | 239.60      | 11,800.4            | 583.1      | -3,258.8   | 3,310.6               | 0.00                  | 0.00                 |  |
| 12,661.6            | 0.31            | 239.60      | 11,862.0            | 583.0      | -3,259.1   | 3,310.8               | 0.00                  | 0.00                 | L Sego (TVD)                               |
| 12,700.0            | 0.31            | 239.60      | 11,900.4            | 582.9      | -3,259.3   | 3,311.0               | 0.00                  | 0.00                 |  |
| 12,800.0            | 0.31            | 239.60      | 12,000.4            | 582.6      | -3,259.8   | 3,311.4               | 0.00                  | 0.00                 |  |
| 12,900.0            | 0.31            | 239.60      | 12,100.4            | 582.3      | -3,260.2   | 3,311.8               | 0.00                  | 0.00                 |  |
| 12,911.6            | 0.31            | 239.60      | 12,112.0            | 582.3      | -3,260.3   | 3,311.9               | 0.00                  | 0.00                 | Drillers TD @ 12,911' MD                   |
| 13,000.0            | 0.31            | 239.60      | 12,200.4            | 582.0      | -3,260.7   | 3,312.2               | 0.00                  | 0.00                 |  |
| 13,100.0            | 0.31            | 239.60      | 12,300.4            | 581.7      | -3,261.2   | 3,312.7               | 0.00                  | 0.00                 |  |
| 13,161.6            | 0.31            | 239.60      | 12,362.0            | 581.6      | -3,261.5   | 3,312.9               | 0.00                  | 0.00                 | Permit TD @ 13,161' MD                     |



# Cathedral Energy

## Planning Report

|                  |   |                                     |                                      |
|------------------|---|-------------------------------------|--------------------------------------|
| <b>Database:</b> | EDM 5000.1 US Multi Users DB            | <b>Local Co-ordinate Reference:</b> | Well 8509D-21 N22 496                |
| <b>Company:</b>  | EnCana Oil & Gas (USA) Inc              | <b>TVD Reference:</b>               | WELL @ 7602.0ft (Original Well Elev) |
| <b>Project:</b>  | Story Gulch                             | <b>MD Reference:</b>                | WELL @ 7602.0ft (Original Well Elev) |
| <b>Site:</b>     | S22-T4S-R96W (N22 496) (Column Pattern) | <b>North Reference:</b>             | True                                 |
| <b>Well:</b>     | 8509D-21 N22 496                        | <b>Survey Calculation Method:</b>   | Minimum Curvature                    |
| <b>Wellbore:</b> | DD                                      |                                     |                                      |
| <b>Design:</b>   | 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)         |                |                 |
| 8509D-21 N22 496 TGT                 | 0.00      | 0.00     | 7,202.0  | 595.7 | -3,237.4 | 1,685,614.79 | 2,249,032.37 | 39° 41' 7.88 N | 108° 10' 7.32 W |
| - plan hits target center            |           |          |          |       |          |              |              |                |                 |
| - Point                              |           |          |          |       |          |              |              |                |                 |
| 8509D-21 N22 496 PBH                 | 0.00      | 0.00     | 10,862.0 | 585.7 | -3,254.4 | 1,685,605.32 | 2,249,015.10 | 39° 41' 7.78 N | 108° 10' 7.53 W |
| - plan hits target center            |           |          |          |       |          |              |              |                |                 |
| - Rectangle (sides W30.0 H50.0 D0.0) |           |          |          |       |          |              |              |                |                 |

| Formations     |                |                     |           |     |               |  |
|----------------|----------------|---------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name                | Lithology | Dip | Dip Direction |  |
| (ft)           | (ft)           |                     |           | (°) | (°)           |  |
| 162.0          | 162.0          | Para Creek (TVD)    |           |     |               |  |
| 462.8          | 462.0          | Mahog Bench (TVD)   |           |     |               |  |
| 523.5          | 522.0          | Base B Groove (TVD) |           |     |               |  |
| 4,512.1        | 4,062.0        | Was G (TVD)         |           |     |               |  |
| 7,961.6        | 7,162.0        | WF (TVD)            |           |     |               |  |
| 8,001.6        | 7,202.0        | TOG (TVD)           |           |     |               |  |
| 11,661.6       | 10,862.0       | Rlms (TVD)          |           |     |               |  |
| 11,991.6       | 11,192.0       | Cozz (TVD)          |           |     |               |  |
| 12,181.6       | 11,382.0       | Corc (TVD)          |           |     |               |  |
| 12,461.6       | 11,662.0       | Sego (TVD)          |           |     |               |  |
| 12,661.6       | 11,862.0       | L Sego (TVD)        |           |     |               |  |

| Plan Annotations |                |                   |            |                          |
|------------------|----------------|-------------------|------------|--------------------------|
| Measured Depth   | Vertical Depth | Local Coordinates |            | Comment                  |
| (ft)             | (ft)           | +N/-S (ft)        | +E/-W (ft) |                          |
| 200.0            | 200.0          | 0.0               | 0.0        | KOP @ 200'               |
| 1,154.7          | 1,115.5        | 42.3              | -229.9     | EOB @ Inc. = 28.64°      |
| 7,046.8          | 6,286.5        | 553.4             | -3,007.5   | Start Drop -3.00         |
| 8,001.6          | 7,202.0        | 595.7             | -3,237.4   | EOD @ Inc. = 0°          |
| 12,911.6         | 12,112.0       | 595.5             | -3,237.7   | Drillers TD @ 12,911' MD |
| 13,161.6         | 12,362.0       | 585.7             | -3,254.4   | Permit TD @ 13,161' MD   |