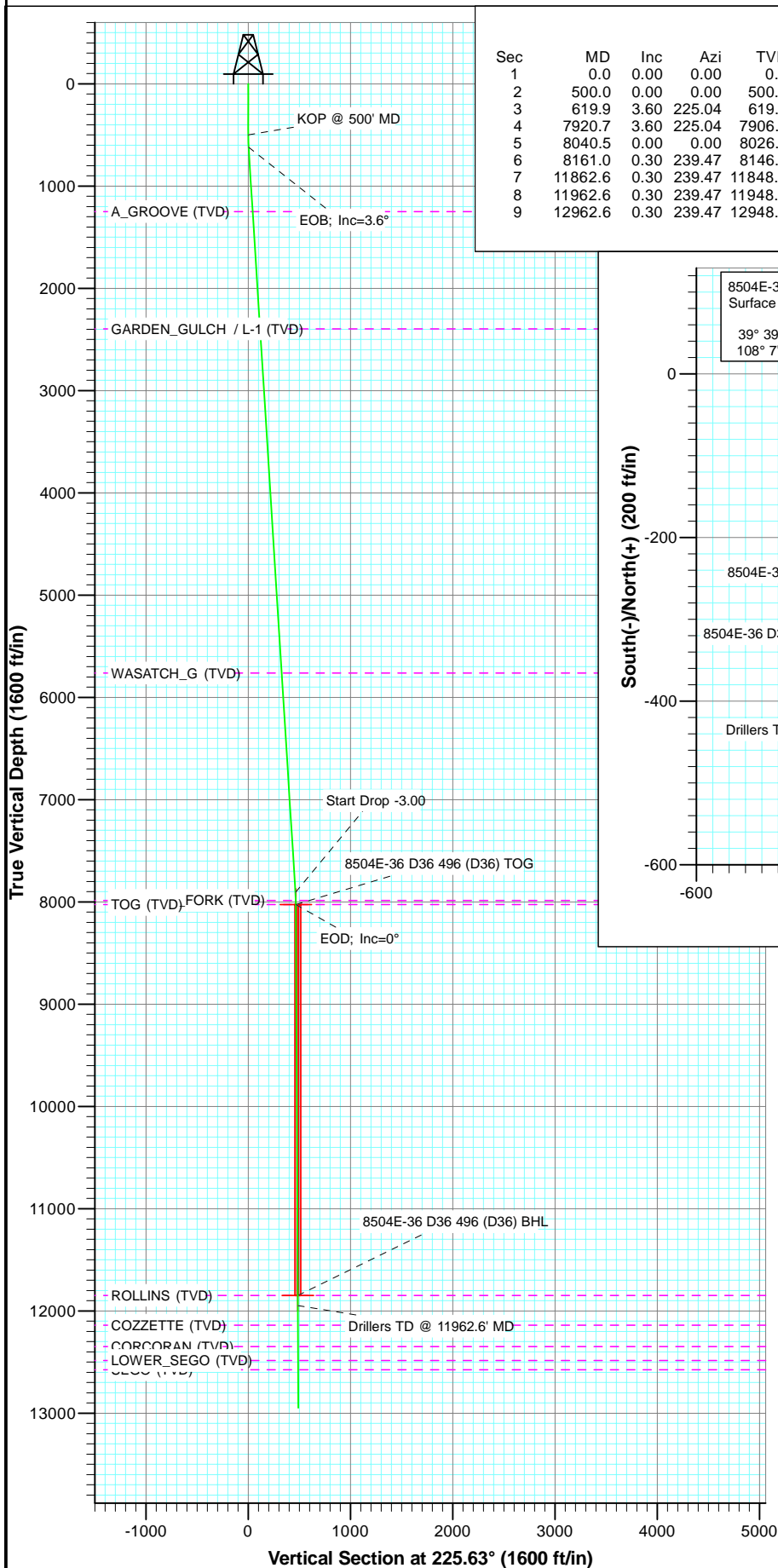
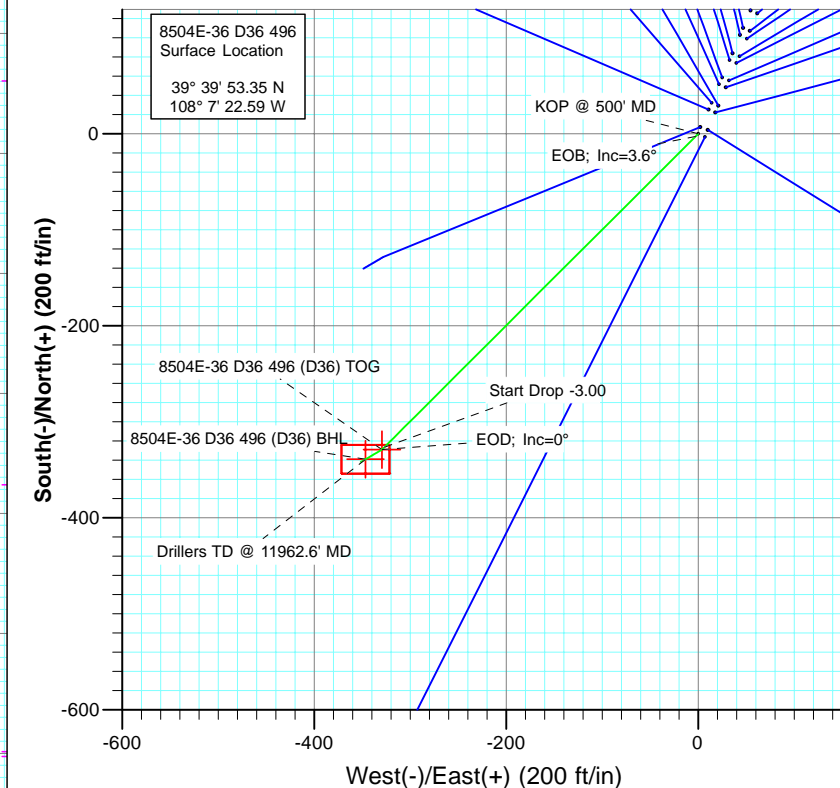




Project: Story Gulch
Site: S36-T4S-R96W (D36 496)
Well: 8504E-36 D36 496
Wellbore: DD
Plan: Plan #1



| 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 | 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 619.9 | 3.60 | 225.04 | 619.8 | -2.7 | -2.7 | 3.00 | 225.04 | 3.8 | |
| 4 | 7920.7 | 3.60 | 225.04 | 7906.2 | -326.2 | -326.7 | 0.00 | 0.00 | 461.7 | |
| 5 | 8040.5 | 0.00 | 0.00 | 8026.0 | -328.9 | -329.4 | 3.00 | 180.00 | 465.5 | 8504E-36 D36 496 (D36) TOG |
| 6 | 8161.0 | 0.30 | 239.47 | 8146.5 | -329.1 | -329.7 | 0.25 | 239.47 | 465.8 | |
| 7 | 11862.6 | 0.30 | 239.47 | 11848.0 | -338.9 | -346.4 | 0.00 | 0.00 | 484.7 | 8504E-36 D36 496 (D36) BHL |
| 8 | 11962.6 | 0.30 | 239.47 | 11948.0 | -339.2 | -346.9 | 0.00 | 0.00 | 485.2 | |
| 9 | 12962.6 | 0.30 | 239.47 | 12948.0 | -341.9 | -351.4 | 0.00 | 0.00 | 490.3 | |



| TVDPath | MDPath | Formation |
|---------|---------|--------------------------|
| 1250.0 | 1251.3 | A_GROOVE (TVD) |
| 2397.0 | 2400.6 | GARDEN_GULCH / L-1 (TVD) |
| 5763.0 | 5773.2 | WASATCH_G (TVD) |
| 7986.0 | 8000.5 | WILLIAMS_FORK (TVD) |
| 8026.0 | 8040.5 | TOG (TVD) |
| 11848.0 | 11862.6 | ROLLINS (TVD) |
| 12140.0 | 12154.6 | COZZETTE (TVD) |
| 12350.0 | 12364.6 | CORCORAN (TVD) |
| 12485.0 | 12499.6 | LOWER_SEGO (TVD) |
| 12575.0 | 12589.6 | SEGO (TVD) |



Azimuths to True North
Magnetic North: 10.44°
Magnetic Field
Strength: 52310.7nT
Dip Angle: 65.86°
Date: 5/31/2011
Model: IGRF2010

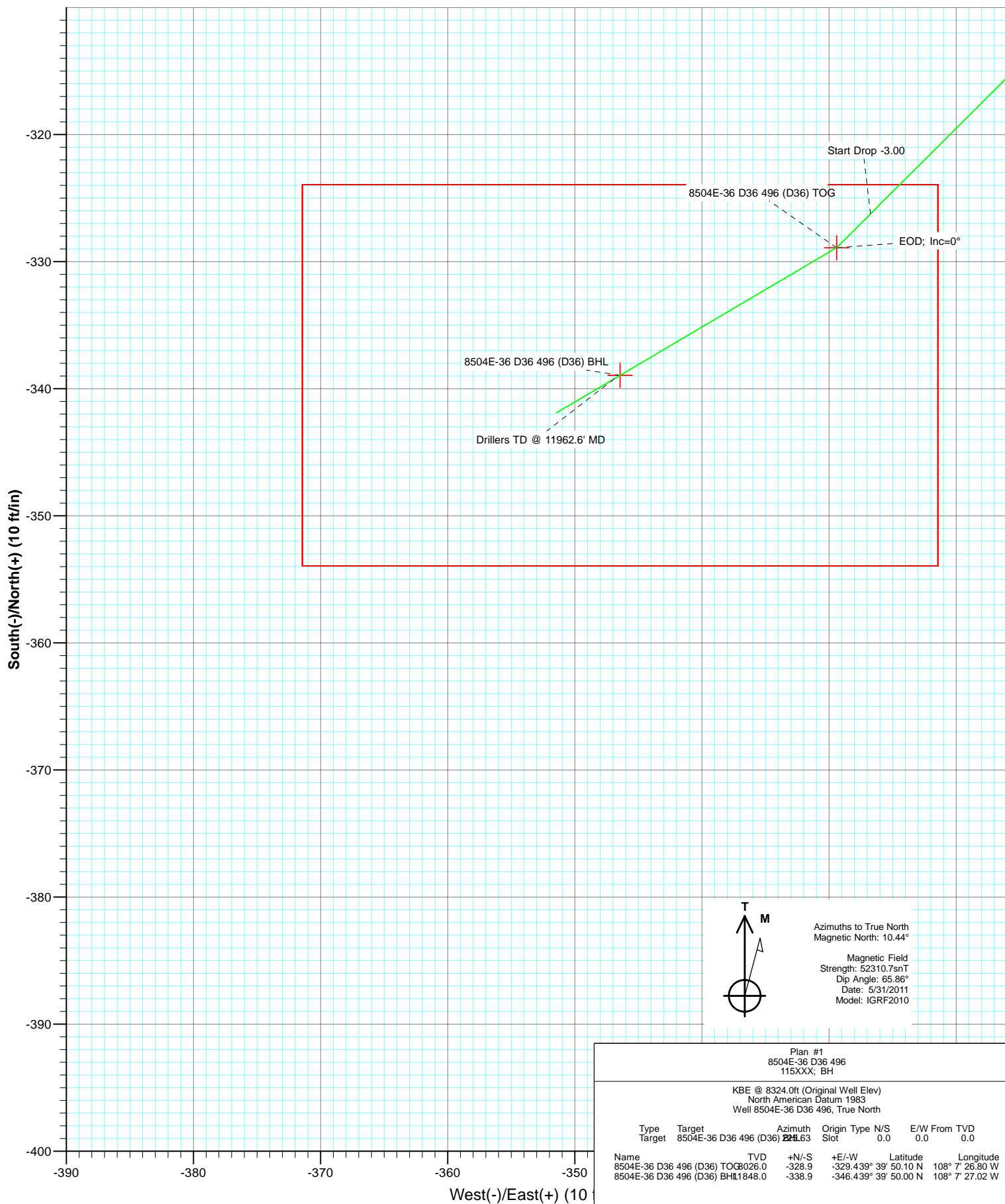
Plan #1
8504E-36 D36 496
115XXX; BH

KBE @ 8324.0ft (Original Well Elev)
North American Datum 1983
Well 8504E-36 D36 496, True North

| Type | Target | Target | Azimuth | Origin | Type | N/S | E/W | From | TVD |
|----------------------------|------------------------|--------|---------|-----------------|-----------------|-----|-----|------|-----|
| Target | 8504E-36 D36 496 (D36) | 225.63 | Slot | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | | | | |
| 8504E-36 D36 496 (D36) TOG | 8026.0 | -328.9 | -329.4 | 39° 39' 50.10 N | 108° 7' 26.80 W | | | | |
| 8504E-36 D36 496 (D36) BHL | 11848.0 | -338.9 | -346.4 | 39° 39' 50.00 N | 108° 7' 27.02 W | | | | |



Project: Story Gulch
Site: S36-T4S-R96W (D36 496)
Well: 8504E-36 D36 496
Wellbore: DD
Plan: Plan #1



Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well 8504E-36 D36 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Site: | S36-T4S-R96W (D36 496) | North Reference: | True |
| Well: | 8504E-36 D36 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

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

| | | | | |
|------------------------------|------------------------|---------------------|-----------------|-----------------------------------|
| Site | S36-T4S-R96W (D36 496) | | | |
| Site Position: | | Northing: | 1,677,676.10 ft | Latitude: 39° 39' 53.09 N |
| From: | Lat/Long | Easting: | 2,261,675.01 ft | Longitude: 108° 7' 22.74 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: -1.65 ° |

| | | | | |
|-----------------------------|------------------|--------|----------------------------|-----------------|
| Well | 8504E-36 D36 496 | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,677,701.74 ft |
| | +E/-W | 0.0 ft | Easting: | 2,261,687.16 ft |
| Position Uncertainty | 0.0 ft | | Wellhead Elevation: | ft |
| | | | Ground Level: | 8,302.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 5/31/2011 | 10.44 | 65.86 | 52,311 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 225.63 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 619.9 | 3.60 | 225.04 | 619.8 | -2.7 | -2.7 | 3.00 | 3.00 | 0.00 | 225.04 | |
| 7,920.7 | 3.60 | 225.04 | 7,906.2 | -326.2 | -326.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,040.5 | 0.00 | 0.00 | 8,026.0 | -328.9 | -329.4 | 3.00 | -3.00 | 0.00 | 180.00 | 8504E-36 D36 496 (D |
| 8,161.0 | 0.30 | 239.47 | 8,146.5 | -329.1 | -329.7 | 0.25 | 0.25 | -100.03 | 239.47 | |
| 11,862.6 | 0.30 | 239.47 | 11,848.0 | -338.9 | -346.4 | 0.00 | 0.00 | 0.00 | 0.00 | 8504E-36 D36 496 (D |
| 11,962.6 | 0.30 | 239.47 | 11,948.0 | -339.2 | -346.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 12,962.6 | 0.30 | 239.47 | 12,948.0 | -341.9 | -351.4 | 0.00 | 0.00 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well 8504E-36 D36 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Site: | S36-T4S-R96W (D36 496) | North Reference: | True |
| Well: | 8504E-36 D36 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--------------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 500' MD |
| 600.0 | 3.00 | 225.04 | 600.0 | -1.8 | -1.9 | 2.6 | 3.00 | 3.00 | |
| 619.9 | 3.60 | 225.04 | 619.8 | -2.7 | -2.7 | 3.8 | 3.00 | 3.00 | EOB; Inc=3.6° |
| 700.0 | 3.60 | 225.04 | 699.8 | -6.2 | -6.2 | 8.8 | 0.00 | 0.00 | |
| 800.0 | 3.60 | 225.04 | 799.6 | -10.6 | -10.7 | 15.1 | 0.00 | 0.00 | |
| 900.0 | 3.60 | 225.04 | 899.4 | -15.1 | -15.1 | 21.3 | 0.00 | 0.00 | |
| 1,000.0 | 3.60 | 225.04 | 999.2 | -19.5 | -19.5 | 27.6 | 0.00 | 0.00 | |
| 1,100.0 | 3.60 | 225.04 | 1,099.0 | -23.9 | -24.0 | 33.9 | 0.00 | 0.00 | |
| 1,200.0 | 3.60 | 225.04 | 1,198.8 | -28.4 | -28.4 | 40.1 | 0.00 | 0.00 | |
| 1,251.3 | 3.60 | 225.04 | 1,250.0 | -30.6 | -30.7 | 43.4 | 0.00 | 0.00 | A_GROOVE (TVD) |
| 1,300.0 | 3.60 | 225.04 | 1,298.6 | -32.8 | -32.9 | 46.4 | 0.00 | 0.00 | |
| 1,400.0 | 3.60 | 225.04 | 1,398.4 | -37.2 | -37.3 | 52.7 | 0.00 | 0.00 | |
| 1,500.0 | 3.60 | 225.04 | 1,498.2 | -41.7 | -41.7 | 59.0 | 0.00 | 0.00 | |
| 1,600.0 | 3.60 | 225.04 | 1,598.0 | -46.1 | -46.2 | 65.2 | 0.00 | 0.00 | |
| 1,700.0 | 3.60 | 225.04 | 1,697.8 | -50.5 | -50.6 | 71.5 | 0.00 | 0.00 | |
| 1,800.0 | 3.60 | 225.04 | 1,797.6 | -55.0 | -55.0 | 77.8 | 0.00 | 0.00 | |
| 1,900.0 | 3.60 | 225.04 | 1,897.4 | -59.4 | -59.5 | 84.1 | 0.00 | 0.00 | |
| 2,000.0 | 3.60 | 225.04 | 1,997.2 | -63.8 | -63.9 | 90.3 | 0.00 | 0.00 | |
| 2,100.0 | 3.60 | 225.04 | 2,097.0 | -68.3 | -68.4 | 96.6 | 0.00 | 0.00 | |
| 2,200.0 | 3.60 | 225.04 | 2,196.8 | -72.7 | -72.8 | 102.9 | 0.00 | 0.00 | |
| 2,300.0 | 3.60 | 225.04 | 2,296.6 | -77.1 | -77.2 | 109.1 | 0.00 | 0.00 | |
| 2,400.0 | 3.60 | 225.04 | 2,396.4 | -81.6 | -81.7 | 115.4 | 0.00 | 0.00 | |
| 2,400.6 | 3.60 | 225.04 | 2,397.0 | -81.6 | -81.7 | 115.5 | 0.00 | 0.00 | GARDEN_GULCH / L-1 (TVD) |
| 2,500.0 | 3.60 | 225.04 | 2,496.2 | -86.0 | -86.1 | 121.7 | 0.00 | 0.00 | |
| 2,600.0 | 3.60 | 225.04 | 2,596.0 | -90.4 | -90.6 | 128.0 | 0.00 | 0.00 | |
| 2,700.0 | 3.60 | 225.04 | 2,695.8 | -94.9 | -95.0 | 134.2 | 0.00 | 0.00 | |
| 2,800.0 | 3.60 | 225.04 | 2,795.6 | -99.3 | -99.4 | 140.5 | 0.00 | 0.00 | |
| 2,900.0 | 3.60 | 225.04 | 2,895.4 | -103.7 | -103.9 | 146.8 | 0.00 | 0.00 | |
| 3,000.0 | 3.60 | 225.04 | 2,995.2 | -108.1 | -108.3 | 153.1 | 0.00 | 0.00 | |
| 3,100.0 | 3.60 | 225.04 | 3,095.0 | -112.6 | -112.8 | 159.3 | 0.00 | 0.00 | |
| 3,200.0 | 3.60 | 225.04 | 3,194.8 | -117.0 | -117.2 | 165.6 | 0.00 | 0.00 | |
| 3,300.0 | 3.60 | 225.04 | 3,294.6 | -121.4 | -121.6 | 171.9 | 0.00 | 0.00 | |
| 3,400.0 | 3.60 | 225.04 | 3,394.4 | -125.9 | -126.1 | 178.1 | 0.00 | 0.00 | |
| 3,500.0 | 3.60 | 225.04 | 3,494.2 | -130.3 | -130.5 | 184.4 | 0.00 | 0.00 | |
| 3,600.0 | 3.60 | 225.04 | 3,594.1 | -134.7 | -134.9 | 190.7 | 0.00 | 0.00 | |
| 3,700.0 | 3.60 | 225.04 | 3,693.9 | -139.2 | -139.4 | 197.0 | 0.00 | 0.00 | |
| 3,800.0 | 3.60 | 225.04 | 3,793.7 | -143.6 | -143.8 | 203.2 | 0.00 | 0.00 | |
| 3,900.0 | 3.60 | 225.04 | 3,893.5 | -148.0 | -148.3 | 209.5 | 0.00 | 0.00 | |
| 4,000.0 | 3.60 | 225.04 | 3,993.3 | -152.5 | -152.7 | 215.8 | 0.00 | 0.00 | |
| 4,100.0 | 3.60 | 225.04 | 4,093.1 | -156.9 | -157.1 | 222.1 | 0.00 | 0.00 | |
| 4,200.0 | 3.60 | 225.04 | 4,192.9 | -161.3 | -161.6 | 228.3 | 0.00 | 0.00 | |
| 4,300.0 | 3.60 | 225.04 | 4,292.7 | -165.8 | -166.0 | 234.6 | 0.00 | 0.00 | |
| 4,400.0 | 3.60 | 225.04 | 4,392.5 | -170.2 | -170.5 | 240.9 | 0.00 | 0.00 | |
| 4,500.0 | 3.60 | 225.04 | 4,492.3 | -174.6 | -174.9 | 247.1 | 0.00 | 0.00 | |
| 4,600.0 | 3.60 | 225.04 | 4,592.1 | -179.1 | -179.3 | 253.4 | 0.00 | 0.00 | |
| 4,700.0 | 3.60 | 225.04 | 4,691.9 | -183.5 | -183.8 | 259.7 | 0.00 | 0.00 | |
| 4,800.0 | 3.60 | 225.04 | 4,791.7 | -187.9 | -188.2 | 266.0 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well 8504E-36 D36 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Site: | S36-T4S-R96W (D36 496) | North Reference: | True |
| Well: | 8504E-36 D36 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--|
| 4,900.0 | 3.60 | 225.04 | 4,891.5 | -192.4 | -192.7 | 272.2 | 0.00 | 0.00 | |
| 5,000.0 | 3.60 | 225.04 | 4,991.3 | -196.8 | -197.1 | 278.5 | 0.00 | 0.00 | |
| 5,100.0 | 3.60 | 225.04 | 5,091.1 | -201.2 | -201.5 | 284.8 | 0.00 | 0.00 | |
| 5,200.0 | 3.60 | 225.04 | 5,190.9 | -205.7 | -206.0 | 291.0 | 0.00 | 0.00 | |
| 5,300.0 | 3.60 | 225.04 | 5,290.7 | -210.1 | -210.4 | 297.3 | 0.00 | 0.00 | |
| 5,400.0 | 3.60 | 225.04 | 5,390.5 | -214.5 | -214.8 | 303.6 | 0.00 | 0.00 | |
| 5,500.0 | 3.60 | 225.04 | 5,490.3 | -219.0 | -219.3 | 309.9 | 0.00 | 0.00 | |
| 5,600.0 | 3.60 | 225.04 | 5,590.1 | -223.4 | -223.7 | 316.1 | 0.00 | 0.00 | |
| 5,700.0 | 3.60 | 225.04 | 5,689.9 | -227.8 | -228.2 | 322.4 | 0.00 | 0.00 | |
| 5,773.2 | 3.60 | 225.04 | 5,763.0 | -231.1 | -231.4 | 327.0 | 0.00 | 0.00 | WASATCH_G (TVD) |
| 5,800.0 | 3.60 | 225.04 | 5,789.7 | -232.3 | -232.6 | 328.7 | 0.00 | 0.00 | |
| 5,900.0 | 3.60 | 225.04 | 5,889.5 | -236.7 | -237.0 | 335.0 | 0.00 | 0.00 | |
| 6,000.0 | 3.60 | 225.04 | 5,989.3 | -241.1 | -241.5 | 341.2 | 0.00 | 0.00 | |
| 6,100.0 | 3.60 | 225.04 | 6,089.1 | -245.5 | -245.9 | 347.5 | 0.00 | 0.00 | |
| 6,200.0 | 3.60 | 225.04 | 6,188.9 | -250.0 | -250.4 | 353.8 | 0.00 | 0.00 | |
| 6,300.0 | 3.60 | 225.04 | 6,288.7 | -254.4 | -254.8 | 360.0 | 0.00 | 0.00 | |
| 6,400.0 | 3.60 | 225.04 | 6,388.5 | -258.8 | -259.2 | 366.3 | 0.00 | 0.00 | |
| 6,500.0 | 3.60 | 225.04 | 6,488.3 | -263.3 | -263.7 | 372.6 | 0.00 | 0.00 | |
| 6,600.0 | 3.60 | 225.04 | 6,588.1 | -267.7 | -268.1 | 378.9 | 0.00 | 0.00 | |
| 6,700.0 | 3.60 | 225.04 | 6,687.9 | -272.1 | -272.6 | 385.1 | 0.00 | 0.00 | |
| 6,800.0 | 3.60 | 225.04 | 6,787.8 | -276.6 | -277.0 | 391.4 | 0.00 | 0.00 | |
| 6,900.0 | 3.60 | 225.04 | 6,887.6 | -281.0 | -281.4 | 397.7 | 0.00 | 0.00 | |
| 7,000.0 | 3.60 | 225.04 | 6,987.4 | -285.4 | -285.9 | 404.0 | 0.00 | 0.00 | |
| 7,100.0 | 3.60 | 225.04 | 7,087.2 | -289.9 | -290.3 | 410.2 | 0.00 | 0.00 | |
| 7,200.0 | 3.60 | 225.04 | 7,187.0 | -294.3 | -294.7 | 416.5 | 0.00 | 0.00 | |
| 7,300.0 | 3.60 | 225.04 | 7,286.8 | -298.7 | -299.2 | 422.8 | 0.00 | 0.00 | |
| 7,400.0 | 3.60 | 225.04 | 7,386.6 | -303.2 | -303.6 | 429.0 | 0.00 | 0.00 | |
| 7,500.0 | 3.60 | 225.04 | 7,486.4 | -307.6 | -308.1 | 435.3 | 0.00 | 0.00 | |
| 7,600.0 | 3.60 | 225.04 | 7,586.2 | -312.0 | -312.5 | 441.6 | 0.00 | 0.00 | |
| 7,700.0 | 3.60 | 225.04 | 7,686.0 | -316.5 | -316.9 | 447.9 | 0.00 | 0.00 | |
| 7,800.0 | 3.60 | 225.04 | 7,785.8 | -320.9 | -321.4 | 454.1 | 0.00 | 0.00 | |
| 7,900.0 | 3.60 | 225.04 | 7,885.6 | -325.3 | -325.8 | 460.4 | 0.00 | 0.00 | |
| 7,920.7 | 3.60 | 225.04 | 7,906.2 | -326.2 | -326.7 | 461.7 | 0.00 | 0.00 | Start Drop -3.00 |
| 8,000.0 | 1.22 | 225.04 | 7,985.5 | -328.6 | -329.1 | 465.0 | 3.00 | -3.00 | |
| 8,000.5 | 1.20 | 225.04 | 7,986.0 | -328.6 | -329.1 | 465.0 | 3.00 | -3.00 | WILLIAMS_FORK (TVD) |
| 8,040.5 | 0.00 | 0.00 | 8,026.0 | -328.9 | -329.4 | 465.5 | 3.00 | -3.00 | EOD; Inc=0° - TOG (TVD) - 8504E-36 D36 496 |
| 8,100.0 | 0.15 | 239.47 | 8,085.5 | -328.9 | -329.5 | 465.5 | 0.25 | 0.25 | |
| 8,161.0 | 0.30 | 239.47 | 8,146.5 | -329.1 | -329.7 | 465.8 | 0.25 | 0.25 | |
| 8,200.0 | 0.30 | 239.47 | 8,185.5 | -329.2 | -329.8 | 466.0 | 0.00 | 0.00 | |
| 8,300.0 | 0.30 | 239.47 | 8,285.5 | -329.4 | -330.3 | 466.5 | 0.00 | 0.00 | |
| 8,400.0 | 0.30 | 239.47 | 8,385.5 | -329.7 | -330.8 | 467.0 | 0.00 | 0.00 | |
| 8,500.0 | 0.30 | 239.47 | 8,485.5 | -330.0 | -331.2 | 467.5 | 0.00 | 0.00 | |
| 8,600.0 | 0.30 | 239.47 | 8,585.5 | -330.2 | -331.7 | 468.0 | 0.00 | 0.00 | |
| 8,700.0 | 0.30 | 239.47 | 8,685.5 | -330.5 | -332.1 | 468.5 | 0.00 | 0.00 | |
| 8,800.0 | 0.30 | 239.47 | 8,785.5 | -330.8 | -332.6 | 469.0 | 0.00 | 0.00 | |
| 8,900.0 | 0.30 | 239.47 | 8,885.5 | -331.0 | -333.0 | 469.5 | 0.00 | 0.00 | |
| 9,000.0 | 0.30 | 239.47 | 8,985.5 | -331.3 | -333.5 | 470.1 | 0.00 | 0.00 | |
| 9,100.0 | 0.30 | 239.47 | 9,085.5 | -331.6 | -333.9 | 470.6 | 0.00 | 0.00 | |
| 9,200.0 | 0.30 | 239.47 | 9,185.4 | -331.8 | -334.4 | 471.1 | 0.00 | 0.00 | |
| 9,300.0 | 0.30 | 239.47 | 9,285.4 | -332.1 | -334.8 | 471.6 | 0.00 | 0.00 | |
| 9,400.0 | 0.30 | 239.47 | 9,385.4 | -332.4 | -335.3 | 472.1 | 0.00 | 0.00 | |
| 9,500.0 | 0.30 | 239.47 | 9,485.4 | -332.6 | -335.7 | 472.6 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well 8504E-36 D36 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Site: | S36-T4S-R96W (D36 496) | North Reference: | True |
| Well: | 8504E-36 D36 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---|
| 9,600.0 | 0.30 | 239.47 | 9,585.4 | -332.9 | -336.2 | 473.1 | 0.00 | 0.00 | |
| 9,700.0 | 0.30 | 239.47 | 9,685.4 | -333.2 | -336.6 | 473.6 | 0.00 | 0.00 | |
| 9,800.0 | 0.30 | 239.47 | 9,785.4 | -333.4 | -337.1 | 474.1 | 0.00 | 0.00 | |
| 9,900.0 | 0.30 | 239.47 | 9,885.4 | -333.7 | -337.5 | 474.6 | 0.00 | 0.00 | |
| 10,000.0 | 0.30 | 239.47 | 9,985.4 | -334.0 | -338.0 | 475.2 | 0.00 | 0.00 | |
| 10,100.0 | 0.30 | 239.47 | 10,085.4 | -334.2 | -338.5 | 475.7 | 0.00 | 0.00 | |
| 10,200.0 | 0.30 | 239.47 | 10,185.4 | -334.5 | -338.9 | 476.2 | 0.00 | 0.00 | |
| 10,300.0 | 0.30 | 239.47 | 10,285.4 | -334.8 | -339.4 | 476.7 | 0.00 | 0.00 | |
| 10,400.0 | 0.30 | 239.47 | 10,385.4 | -335.0 | -339.8 | 477.2 | 0.00 | 0.00 | |
| 10,500.0 | 0.30 | 239.47 | 10,485.4 | -335.3 | -340.3 | 477.7 | 0.00 | 0.00 | |
| 10,600.0 | 0.30 | 239.47 | 10,585.4 | -335.6 | -340.7 | 478.2 | 0.00 | 0.00 | |
| 10,700.0 | 0.30 | 239.47 | 10,685.4 | -335.8 | -341.2 | 478.7 | 0.00 | 0.00 | |
| 10,800.0 | 0.30 | 239.47 | 10,785.4 | -336.1 | -341.6 | 479.2 | 0.00 | 0.00 | |
| 10,900.0 | 0.30 | 239.47 | 10,885.4 | -336.4 | -342.1 | 479.8 | 0.00 | 0.00 | |
| 11,000.0 | 0.30 | 239.47 | 10,985.4 | -336.6 | -342.5 | 480.3 | 0.00 | 0.00 | |
| 11,100.0 | 0.30 | 239.47 | 11,085.4 | -336.9 | -343.0 | 480.8 | 0.00 | 0.00 | |
| 11,200.0 | 0.30 | 239.47 | 11,185.4 | -337.2 | -343.4 | 481.3 | 0.00 | 0.00 | |
| 11,300.0 | 0.30 | 239.47 | 11,285.4 | -337.4 | -343.9 | 481.8 | 0.00 | 0.00 | |
| 11,400.0 | 0.30 | 239.47 | 11,385.4 | -337.7 | -344.3 | 482.3 | 0.00 | 0.00 | |
| 11,500.0 | 0.30 | 239.47 | 11,485.4 | -338.0 | -344.8 | 482.8 | 0.00 | 0.00 | |
| 11,600.0 | 0.30 | 239.47 | 11,585.4 | -338.2 | -345.2 | 483.3 | 0.00 | 0.00 | |
| 11,700.0 | 0.30 | 239.47 | 11,685.4 | -338.5 | -345.7 | 483.8 | 0.00 | 0.00 | |
| 11,800.0 | 0.30 | 239.47 | 11,785.4 | -338.8 | -346.2 | 484.3 | 0.00 | 0.00 | |
| 11,862.6 | 0.30 | 239.47 | 11,848.0 | -338.9 | -346.4 | 484.7 | 0.00 | 0.00 | ROLLINS (TVD) - 8504E-36 D36 496 (D36) BH |
| 11,900.0 | 0.30 | 239.47 | 11,885.4 | -339.0 | -346.6 | 484.9 | 0.00 | 0.00 | |
| 11,962.6 | 0.30 | 239.47 | 11,948.0 | -339.2 | -346.9 | 485.2 | 0.00 | 0.00 | Drillers TD @ 11962.6' MD |
| 12,000.0 | 0.30 | 239.47 | 11,985.4 | -339.3 | -347.1 | 485.4 | 0.00 | 0.00 | |
| 12,100.0 | 0.30 | 239.47 | 12,085.4 | -339.6 | -347.5 | 485.9 | 0.00 | 0.00 | |
| 12,154.6 | 0.30 | 239.47 | 12,140.0 | -339.7 | -347.8 | 486.2 | 0.00 | 0.00 | COZZETTE (TVD) |
| 12,200.0 | 0.30 | 239.47 | 12,185.4 | -339.9 | -348.0 | 486.4 | 0.00 | 0.00 | |
| 12,300.0 | 0.30 | 239.47 | 12,285.4 | -340.1 | -348.4 | 486.9 | 0.00 | 0.00 | |
| 12,364.6 | 0.30 | 239.47 | 12,350.0 | -340.3 | -348.7 | 487.2 | 0.00 | 0.00 | CORCORAN (TVD) |
| 12,400.0 | 0.30 | 239.47 | 12,385.4 | -340.4 | -348.9 | 487.4 | 0.00 | 0.00 | |
| 12,499.6 | 0.30 | 239.47 | 12,485.0 | -340.7 | -349.3 | 487.9 | 0.00 | 0.00 | LOWER_SEGO (TVD) |
| 12,500.0 | 0.30 | 239.47 | 12,485.4 | -340.7 | -349.3 | 487.9 | 0.00 | 0.00 | |
| 12,589.6 | 0.30 | 239.47 | 12,575.0 | -340.9 | -349.7 | 488.4 | 0.00 | 0.00 | SEGO (TVD) |
| 12,600.0 | 0.30 | 239.47 | 12,585.4 | -340.9 | -349.8 | 488.4 | 0.00 | 0.00 | |
| 12,700.0 | 0.30 | 239.47 | 12,685.4 | -341.2 | -350.2 | 488.9 | 0.00 | 0.00 | |
| 12,800.0 | 0.30 | 239.47 | 12,785.4 | -341.5 | -350.7 | 489.5 | 0.00 | 0.00 | |
| 12,900.0 | 0.30 | 239.47 | 12,885.4 | -341.7 | -351.1 | 490.0 | 0.00 | 0.00 | |
| 12,962.6 | 0.30 | 239.47 | 12,948.0 | -341.9 | -351.4 | 490.3 | 0.00 | 0.00 | Permit TD @ 12962.6' MD |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well 8504E-36 D36 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8324.0ft (Original Well Elev) |
| Site: | S36-T4S-R96W (D36 496) | North Reference: | True |
| Well: | 8504E-36 D36 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Targets | | | | | | | | | |
|--|-----------|----------|----------|--------|--------|--------------|--------------|-----------------|-----------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| 8504E-36 D36 496 (D36 - plan hits target center - Point | 0.00 | 0.00 | 8,026.0 | -328.9 | -329.4 | 1,677,382.48 | 2,261,348.41 | 39° 39' 50.10 N | 108° 7' 26.80 W |
| 8504E-36 D36 496 (D36 - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0) | 0.00 | 0.00 | 11,848.0 | -338.9 | -346.4 | 1,677,372.93 | 2,261,331.09 | 39° 39' 50.00 N | 108° 7' 27.02 W |

| Formations | | | | | | |
|----------------|----------------|--------------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (ft) | (ft) | | | (°) | (°) | |
| 1,251.3 | 1,250.0 | A_GROOVE (TVD) | | | | |
| 2,400.6 | 2,397.0 | GARDEN_GULCH / L-1 (TVD) | | | | |
| 5,773.2 | 5,763.0 | WASATCH_G (TVD) | | | | |
| 8,000.5 | 7,986.0 | WILLIAMS_FORK (TVD) | | | | |
| 8,040.5 | 8,026.0 | TOG (TVD) | | | | |
| 11,862.6 | 11,848.0 | ROLLINS (TVD) | | | | |
| 12,154.6 | 12,140.0 | COZZETTE (TVD) | | | | |
| 12,364.6 | 12,350.0 | CORCORAN (TVD) | | | | |
| 12,499.6 | 12,485.0 | LOWER_SEGO (TVD) | | | | |
| 12,589.6 | 12,575.0 | SEGO (TVD) | | | | |

| Plan Annotations | | | | | |
|------------------|----------------|-------------------|--------|---------------------------|--|
| Measured Depth | Vertical Depth | Local Coordinates | | | |
| (ft) | (ft) | +N/-S | +E/-W | Comment | |
| (ft) | (ft) | (ft) | (ft) | | |
| 500.0 | 500.0 | 0.0 | 0.0 | KOP @ 500' MD | |
| 619.9 | 619.8 | -2.7 | -2.7 | EOB; Inc=3.6° | |
| 7,920.7 | 7,906.2 | -326.2 | -326.7 | Start Drop -3.00 | |
| 8,040.5 | 8,026.0 | -328.9 | -329.4 | EOD; Inc=0° | |
| 11,962.6 | 11,948.0 | -329.1 | -329.7 | Drillers TD @ 11962.6' MD | |
| 12,962.6 | 12,948.0 | -338.9 | -346.4 | Permit TD @ 12962.6' MD | |