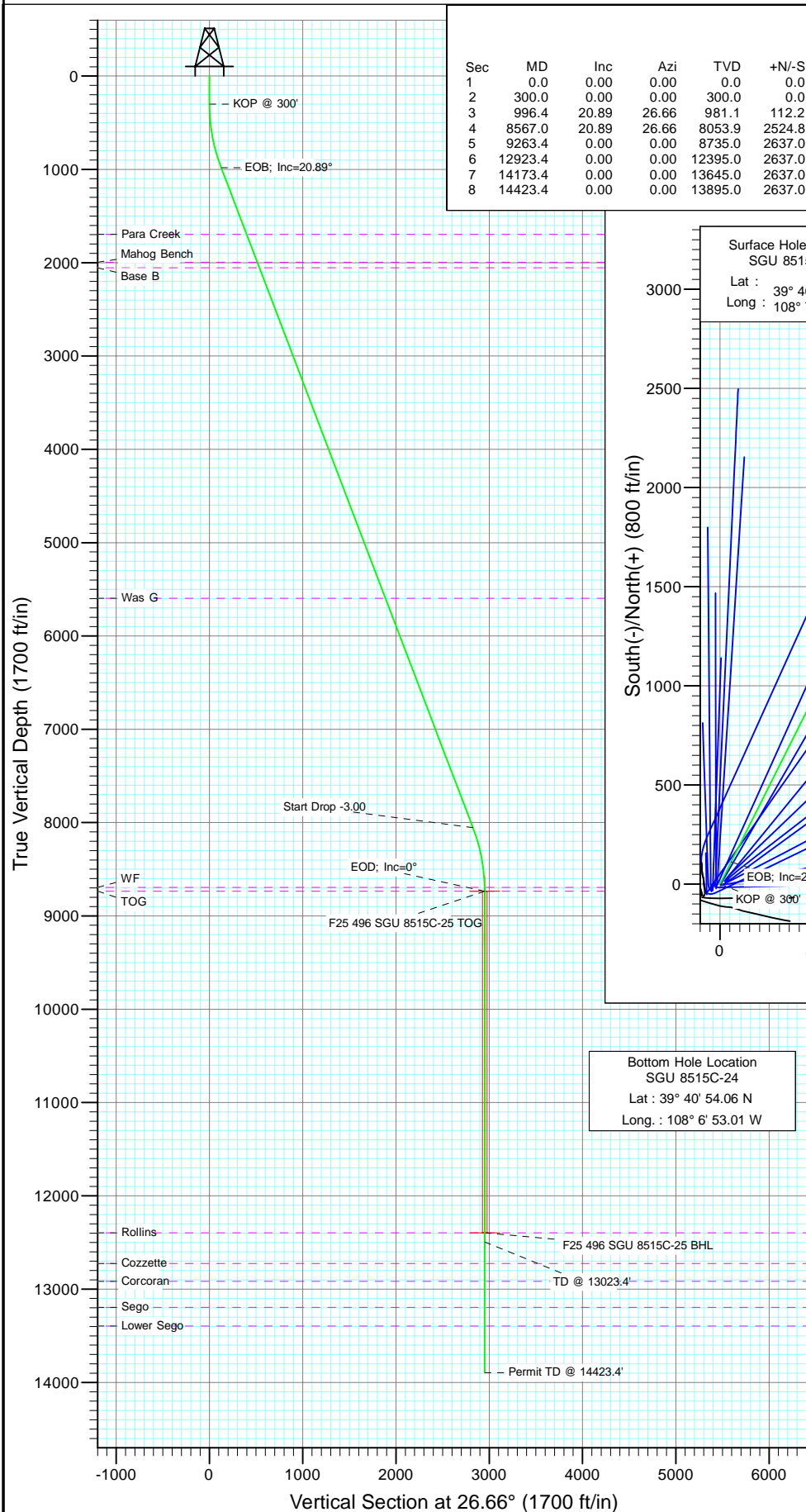
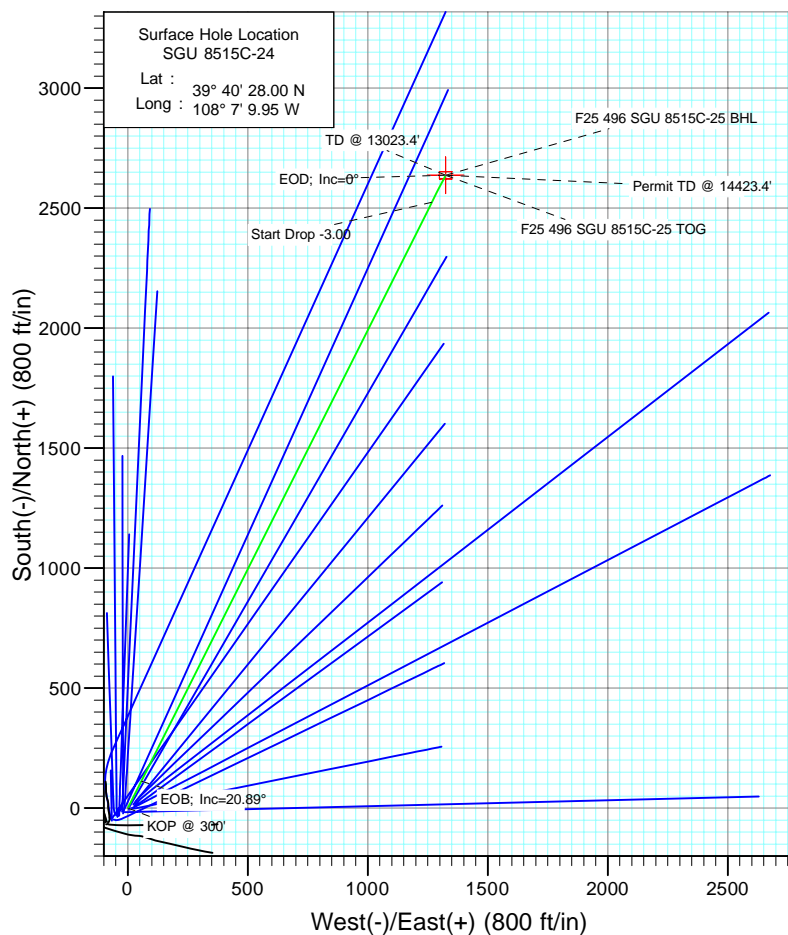




Project: Story Gulch
Site: F25 496
Well: SGU 8515C-24
Wellbore: DD
Design: Plan #1



| SECTION DETAILS | | | | | | | | | | |
|-----------------|---------|-------|-------|---------|--------|--------|------|--------|--------|--------------------------|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSect | Target |
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 996.4 | 20.89 | 26.66 | 981.1 | 112.2 | 56.3 | 3.00 | 26.66 | 125.6 | |
| 4 | 8567.0 | 20.89 | 26.66 | 8053.9 | 2524.8 | 1267.8 | 0.00 | 0.00 | 2825.2 | |
| 5 | 9263.4 | 0.00 | 0.00 | 8735.0 | 2637.0 | 1324.2 | 3.00 | 180.00 | 2950.8 | F25 496 SGU 8515C-25 TOG |
| 6 | 12923.4 | 0.00 | 0.00 | 12395.0 | 2637.0 | 1324.2 | 0.00 | 0.00 | 2950.8 | F25 496 SGU 8515C-25 BHL |
| 7 | 14173.4 | 0.00 | 0.00 | 13645.0 | 2637.0 | 1324.2 | 0.00 | 0.00 | 2950.8 | |
| 8 | 14423.4 | 0.00 | 0.00 | 13895.0 | 2637.0 | 1324.2 | 0.00 | 0.00 | 2950.8 | |



Bottom Hole Location
SGU 8515C-24
Lat : 39° 40' 54.06 N
Long. : 108° 6' 53.01 W



Azimuths to True North
Magnetic North: 10.55°

Magnetic Field
Strength: 52453.6snT
Dip Angle: 65.90°
Date: 5/6/2010
Model: IGRF200510

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|-------------|
| 1695.0 | 1760.6 | Para Creek |
| 1995.0 | 2081.7 | Mahog Bench |
| 2055.0 | 2145.9 | Base B |
| 5595.0 | 5935.0 | Was G |
| 8695.0 | 9223.4 | WF TOG |
| 8735.0 | 9263.4 | TOG |
| 12395.0 | 12923.4 | Rollins |
| 12725.0 | 13253.4 | Cozzette |
| 12915.0 | 13443.4 | Corcoran |
| 13195.0 | 13723.4 | Sego |
| 13395.0 | 13923.4 | Lower Sego |

DESIGN DETAILS: Plan #1
105XXX; BH
KBE @ 8320.0ft (Original Well Elev)

| Target | Azimuth | Origin | N/S | E/W | From TVD |
|--------------------------|---------|--------|-----|-----|----------|
| F25 496 SGU 8515C-25 BHL | 105.66 | Slot | 0.0 | 0.0 | 0.0 |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well SGU 8515C-24 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Site: | F25 496 | North Reference: | True |
| Well: | SGU 8515C-24 | 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 | F25 496 | | | |
| Site Position: | | Northing: | 1,681,091.06 ft | Latitude: 39° 40' 27.10 N |
| From: | Lat/Long | Easting: | 2,262,632.54 ft | Longitude: 108° 7' 11.76 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: -1.65 ° |

| | | | | |
|-----------------------------|--------------|--------|----------------------------|-----------------|
| Well | SGU 8515C-24 | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,681,177.70 ft |
| | +E/-W | 0.0 ft | Easting: | 2,262,776.51 ft |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft |
| | | | Ground Level: | 8,298.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 5/6/2010 | 10.55 | 65.90 | 52,454 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| 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 | 26.66 |

| 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 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 996.4 | 20.89 | 26.66 | 981.1 | 112.2 | 56.3 | 3.00 | 3.00 | 0.00 | 26.66 | |
| 8,567.0 | 20.89 | 26.66 | 8,053.9 | 2,524.8 | 1,267.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 9,263.4 | 0.00 | 0.00 | 8,735.0 | 2,637.0 | 1,324.2 | 3.00 | -3.00 | 0.00 | 180.00 | F25 496 SGU 8515C- |
| 12,923.4 | 0.00 | 0.00 | 12,395.0 | 2,637.0 | 1,324.2 | 0.00 | 0.00 | 0.00 | 0.00 | F25 496 SGU 8515C- |
| 14,173.4 | 0.00 | 0.00 | 13,645.0 | 2,637.0 | 1,324.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 14,423.4 | 0.00 | 0.00 | 13,895.0 | 2,637.0 | 1,324.2 | 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 SGU 8515C-24 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Site: | F25 496 | North Reference: | True |
| Well: | SGU 8515C-24 | 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 | KOP @ 300' |
| 400.0 | 3.00 | 26.66 | 400.0 | 2.3 | 1.2 | 2.6 | 3.00 | 3.00 | |
| 500.0 | 6.00 | 26.66 | 499.6 | 9.3 | 4.7 | 10.5 | 3.00 | 3.00 | |
| 600.0 | 9.00 | 26.66 | 598.8 | 21.0 | 10.6 | 23.5 | 3.00 | 3.00 | |
| 700.0 | 12.00 | 26.66 | 697.1 | 37.3 | 18.7 | 41.7 | 3.00 | 3.00 | |
| 800.0 | 15.00 | 26.66 | 794.3 | 58.2 | 29.2 | 65.1 | 3.00 | 3.00 | |
| 900.0 | 18.00 | 26.66 | 890.2 | 83.5 | 41.9 | 93.5 | 3.00 | 3.00 | |
| 996.4 | 20.89 | 26.66 | 981.1 | 112.2 | 56.3 | 125.6 | 3.00 | 3.00 | EOB; Inc=20.89° |
| 1,000.0 | 20.89 | 26.66 | 984.4 | 113.4 | 56.9 | 126.8 | 0.00 | 0.00 | |
| 1,100.0 | 20.89 | 26.66 | 1,077.9 | 145.2 | 72.9 | 162.5 | 0.00 | 0.00 | |
| 1,200.0 | 20.89 | 26.66 | 1,171.3 | 177.1 | 88.9 | 198.2 | 0.00 | 0.00 | |
| 1,300.0 | 20.89 | 26.66 | 1,264.7 | 209.0 | 104.9 | 233.8 | 0.00 | 0.00 | |
| 1,400.0 | 20.89 | 26.66 | 1,358.1 | 240.8 | 120.9 | 269.5 | 0.00 | 0.00 | |
| 1,500.0 | 20.89 | 26.66 | 1,451.6 | 272.7 | 136.9 | 305.1 | 0.00 | 0.00 | |
| 1,600.0 | 20.89 | 26.66 | 1,545.0 | 304.6 | 152.9 | 340.8 | 0.00 | 0.00 | |
| 1,700.0 | 20.89 | 26.66 | 1,638.4 | 336.4 | 168.9 | 376.5 | 0.00 | 0.00 | |
| 1,760.6 | 20.89 | 26.66 | 1,695.0 | 355.7 | 178.6 | 398.1 | 0.00 | 0.00 | Para Creek |
| 1,800.0 | 20.89 | 26.66 | 1,731.8 | 368.3 | 184.9 | 412.1 | 0.00 | 0.00 | |
| 1,900.0 | 20.89 | 26.66 | 1,825.3 | 400.2 | 200.9 | 447.8 | 0.00 | 0.00 | |
| 2,000.0 | 20.89 | 26.66 | 1,918.7 | 432.0 | 217.0 | 483.4 | 0.00 | 0.00 | |
| 2,081.7 | 20.89 | 26.66 | 1,995.0 | 458.1 | 230.0 | 512.6 | 0.00 | 0.00 | Mahog Bench |
| 2,100.0 | 20.89 | 26.66 | 2,012.1 | 463.9 | 233.0 | 519.1 | 0.00 | 0.00 | |
| 2,145.9 | 20.89 | 26.66 | 2,055.0 | 478.5 | 240.3 | 535.5 | 0.00 | 0.00 | Base B |
| 2,200.0 | 20.89 | 26.66 | 2,105.5 | 495.8 | 249.0 | 554.8 | 0.00 | 0.00 | |
| 2,300.0 | 20.89 | 26.66 | 2,199.0 | 527.6 | 265.0 | 590.4 | 0.00 | 0.00 | |
| 2,400.0 | 20.89 | 26.66 | 2,292.4 | 559.5 | 281.0 | 626.1 | 0.00 | 0.00 | |
| 2,500.0 | 20.89 | 26.66 | 2,385.8 | 591.4 | 297.0 | 661.7 | 0.00 | 0.00 | |
| 2,600.0 | 20.89 | 26.66 | 2,479.2 | 623.2 | 313.0 | 697.4 | 0.00 | 0.00 | |
| 2,700.0 | 20.89 | 26.66 | 2,572.7 | 655.1 | 329.0 | 733.1 | 0.00 | 0.00 | |
| 2,800.0 | 20.89 | 26.66 | 2,666.1 | 687.0 | 345.0 | 768.7 | 0.00 | 0.00 | |
| 2,900.0 | 20.89 | 26.66 | 2,759.5 | 718.8 | 361.0 | 804.4 | 0.00 | 0.00 | |
| 3,000.0 | 20.89 | 26.66 | 2,852.9 | 750.7 | 377.0 | 840.0 | 0.00 | 0.00 | |
| 3,100.0 | 20.89 | 26.66 | 2,946.4 | 782.6 | 393.0 | 875.7 | 0.00 | 0.00 | |
| 3,200.0 | 20.89 | 26.66 | 3,039.8 | 814.4 | 409.0 | 911.4 | 0.00 | 0.00 | |
| 3,300.0 | 20.89 | 26.66 | 3,133.2 | 846.3 | 425.0 | 947.0 | 0.00 | 0.00 | |
| 3,400.0 | 20.89 | 26.66 | 3,226.7 | 878.2 | 441.0 | 982.7 | 0.00 | 0.00 | |
| 3,500.0 | 20.89 | 26.66 | 3,320.1 | 910.0 | 457.0 | 1,018.3 | 0.00 | 0.00 | |
| 3,600.0 | 20.89 | 26.66 | 3,413.5 | 941.9 | 473.0 | 1,054.0 | 0.00 | 0.00 | |
| 3,700.0 | 20.89 | 26.66 | 3,506.9 | 973.8 | 489.0 | 1,089.7 | 0.00 | 0.00 | |
| 3,800.0 | 20.89 | 26.66 | 3,600.4 | 1,005.6 | 505.0 | 1,125.3 | 0.00 | 0.00 | |
| 3,900.0 | 20.89 | 26.66 | 3,693.8 | 1,037.5 | 521.0 | 1,161.0 | 0.00 | 0.00 | |
| 4,000.0 | 20.89 | 26.66 | 3,787.2 | 1,069.4 | 537.0 | 1,196.6 | 0.00 | 0.00 | |
| 4,100.0 | 20.89 | 26.66 | 3,880.6 | 1,101.2 | 553.0 | 1,232.3 | 0.00 | 0.00 | |
| 4,200.0 | 20.89 | 26.66 | 3,974.1 | 1,133.1 | 569.0 | 1,268.0 | 0.00 | 0.00 | |
| 4,300.0 | 20.89 | 26.66 | 4,067.5 | 1,165.0 | 585.0 | 1,303.6 | 0.00 | 0.00 | |
| 4,400.0 | 20.89 | 26.66 | 4,160.9 | 1,196.9 | 601.0 | 1,339.3 | 0.00 | 0.00 | |
| 4,500.0 | 20.89 | 26.66 | 4,254.3 | 1,228.7 | 617.0 | 1,374.9 | 0.00 | 0.00 | |
| 4,600.0 | 20.89 | 26.66 | 4,347.8 | 1,260.6 | 633.0 | 1,410.6 | 0.00 | 0.00 | |
| 4,700.0 | 20.89 | 26.66 | 4,441.2 | 1,292.5 | 649.0 | 1,446.3 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well SGU 8515C-24 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Site: | F25 496 | North Reference: | True |
| Well: | SGU 8515C-24 | 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 |
| 4,800.0 | 20.89 | 26.66 | 4,534.6 | 1,324.3 | 665.0 | 1,481.9 | 0.00 | 0.00 | |
| 4,900.0 | 20.89 | 26.66 | 4,628.0 | 1,356.2 | 681.0 | 1,517.6 | 0.00 | 0.00 | |
| 5,000.0 | 20.89 | 26.66 | 4,721.5 | 1,388.1 | 697.0 | 1,553.2 | 0.00 | 0.00 | |
| 5,100.0 | 20.89 | 26.66 | 4,814.9 | 1,419.9 | 713.0 | 1,588.9 | 0.00 | 0.00 | |
| 5,200.0 | 20.89 | 26.66 | 4,908.3 | 1,451.8 | 729.0 | 1,624.6 | 0.00 | 0.00 | |
| 5,300.0 | 20.89 | 26.66 | 5,001.7 | 1,483.7 | 745.0 | 1,660.2 | 0.00 | 0.00 | |
| 5,400.0 | 20.89 | 26.66 | 5,095.2 | 1,515.5 | 761.0 | 1,695.9 | 0.00 | 0.00 | |
| 5,500.0 | 20.89 | 26.66 | 5,188.6 | 1,547.4 | 777.0 | 1,731.5 | 0.00 | 0.00 | |
| 5,600.0 | 20.89 | 26.66 | 5,282.0 | 1,579.3 | 793.0 | 1,767.2 | 0.00 | 0.00 | |
| 5,700.0 | 20.89 | 26.66 | 5,375.4 | 1,611.1 | 809.1 | 1,802.9 | 0.00 | 0.00 | |
| 5,800.0 | 20.89 | 26.66 | 5,468.9 | 1,643.0 | 825.1 | 1,838.5 | 0.00 | 0.00 | |
| 5,900.0 | 20.89 | 26.66 | 5,562.3 | 1,674.9 | 841.1 | 1,874.2 | 0.00 | 0.00 | |
| 5,935.0 | 20.89 | 26.66 | 5,595.0 | 1,686.0 | 846.7 | 1,886.7 | 0.00 | 0.00 | Was G |
| 6,000.0 | 20.89 | 26.66 | 5,655.7 | 1,706.7 | 857.1 | 1,909.8 | 0.00 | 0.00 | |
| 6,100.0 | 20.89 | 26.66 | 5,749.1 | 1,738.6 | 873.1 | 1,945.5 | 0.00 | 0.00 | |
| 6,200.0 | 20.89 | 26.66 | 5,842.6 | 1,770.5 | 889.1 | 1,981.2 | 0.00 | 0.00 | |
| 6,300.0 | 20.89 | 26.66 | 5,936.0 | 1,802.3 | 905.1 | 2,016.8 | 0.00 | 0.00 | |
| 6,400.0 | 20.89 | 26.66 | 6,029.4 | 1,834.2 | 921.1 | 2,052.5 | 0.00 | 0.00 | |
| 6,500.0 | 20.89 | 26.66 | 6,122.9 | 1,866.1 | 937.1 | 2,088.1 | 0.00 | 0.00 | |
| 6,600.0 | 20.89 | 26.66 | 6,216.3 | 1,897.9 | 953.1 | 2,123.8 | 0.00 | 0.00 | |
| 6,700.0 | 20.89 | 26.66 | 6,309.7 | 1,929.8 | 969.1 | 2,159.5 | 0.00 | 0.00 | |
| 6,800.0 | 20.89 | 26.66 | 6,403.1 | 1,961.7 | 985.1 | 2,195.1 | 0.00 | 0.00 | |
| 6,900.0 | 20.89 | 26.66 | 6,496.6 | 1,993.5 | 1,001.1 | 2,230.8 | 0.00 | 0.00 | |
| 7,000.0 | 20.89 | 26.66 | 6,590.0 | 2,025.4 | 1,017.1 | 2,266.4 | 0.00 | 0.00 | |
| 7,100.0 | 20.89 | 26.66 | 6,683.4 | 2,057.3 | 1,033.1 | 2,302.1 | 0.00 | 0.00 | |
| 7,200.0 | 20.89 | 26.66 | 6,776.8 | 2,089.1 | 1,049.1 | 2,337.8 | 0.00 | 0.00 | |
| 7,300.0 | 20.89 | 26.66 | 6,870.3 | 2,121.0 | 1,065.1 | 2,373.4 | 0.00 | 0.00 | |
| 7,400.0 | 20.89 | 26.66 | 6,963.7 | 2,152.9 | 1,081.1 | 2,409.1 | 0.00 | 0.00 | |
| 7,500.0 | 20.89 | 26.66 | 7,057.1 | 2,184.7 | 1,097.1 | 2,444.7 | 0.00 | 0.00 | |
| 7,600.0 | 20.89 | 26.66 | 7,150.5 | 2,216.6 | 1,113.1 | 2,480.4 | 0.00 | 0.00 | |
| 7,700.0 | 20.89 | 26.66 | 7,244.0 | 2,248.5 | 1,129.1 | 2,516.1 | 0.00 | 0.00 | |
| 7,800.0 | 20.89 | 26.66 | 7,337.4 | 2,280.3 | 1,145.1 | 2,551.7 | 0.00 | 0.00 | |
| 7,900.0 | 20.89 | 26.66 | 7,430.8 | 2,312.2 | 1,161.1 | 2,587.4 | 0.00 | 0.00 | |
| 8,000.0 | 20.89 | 26.66 | 7,524.2 | 2,344.1 | 1,177.1 | 2,623.0 | 0.00 | 0.00 | |
| 8,100.0 | 20.89 | 26.66 | 7,617.7 | 2,375.9 | 1,193.1 | 2,658.7 | 0.00 | 0.00 | |
| 8,200.0 | 20.89 | 26.66 | 7,711.1 | 2,407.8 | 1,209.1 | 2,694.4 | 0.00 | 0.00 | |
| 8,300.0 | 20.89 | 26.66 | 7,804.5 | 2,439.7 | 1,225.1 | 2,730.0 | 0.00 | 0.00 | |
| 8,400.0 | 20.89 | 26.66 | 7,897.9 | 2,471.5 | 1,241.1 | 2,765.7 | 0.00 | 0.00 | |
| 8,500.0 | 20.89 | 26.66 | 7,991.4 | 2,503.4 | 1,257.1 | 2,801.3 | 0.00 | 0.00 | |
| 8,567.0 | 20.89 | 26.66 | 8,053.9 | 2,524.8 | 1,267.8 | 2,825.2 | 0.00 | 0.00 | Start Drop -3.00 |
| 8,600.0 | 19.90 | 26.66 | 8,084.9 | 2,535.0 | 1,273.0 | 2,836.7 | 3.00 | -3.00 | |
| 8,700.0 | 16.90 | 26.66 | 8,179.8 | 2,563.2 | 1,287.2 | 2,868.3 | 3.00 | -3.00 | |
| 8,800.0 | 13.90 | 26.66 | 8,276.2 | 2,587.0 | 1,299.1 | 2,894.8 | 3.00 | -3.00 | |
| 8,900.0 | 10.90 | 26.66 | 8,373.8 | 2,606.2 | 1,308.7 | 2,916.3 | 3.00 | -3.00 | |
| 9,000.0 | 7.90 | 26.66 | 8,472.5 | 2,620.8 | 1,316.1 | 2,932.6 | 3.00 | -3.00 | |
| 9,100.0 | 4.90 | 26.66 | 8,571.8 | 2,630.7 | 1,321.1 | 2,943.8 | 3.00 | -3.00 | |
| 9,200.0 | 1.90 | 26.66 | 8,671.6 | 2,636.0 | 1,323.7 | 2,949.7 | 3.00 | -3.00 | |
| 9,223.4 | 1.20 | 26.66 | 8,695.0 | 2,636.6 | 1,324.0 | 2,950.4 | 3.00 | -3.00 | WF |
| 9,263.4 | 0.00 | 0.00 | 8,735.0 | 2,637.0 | 1,324.2 | 2,950.8 | 3.00 | -3.00 | EOD; Inc=0° - TOG - F25 496 SGU 8515C-25 1 |
| 9,300.0 | 0.00 | 0.00 | 8,771.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 8,871.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 9,500.0 | 0.00 | 0.00 | 8,971.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well SGU 8515C-24 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Site: | F25 496 | North Reference: | True |
| Well: | SGU 8515C-24 | 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 | 0.00 | 0.00 | 9,071.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 9,171.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 9,800.0 | 0.00 | 0.00 | 9,271.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,371.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,000.0 | 0.00 | 0.00 | 9,471.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,100.0 | 0.00 | 0.00 | 9,571.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,200.0 | 0.00 | 0.00 | 9,671.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,300.0 | 0.00 | 0.00 | 9,771.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,400.0 | 0.00 | 0.00 | 9,871.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,500.0 | 0.00 | 0.00 | 9,971.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,600.0 | 0.00 | 0.00 | 10,071.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,700.0 | 0.00 | 0.00 | 10,171.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,800.0 | 0.00 | 0.00 | 10,271.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 10,900.0 | 0.00 | 0.00 | 10,371.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,000.0 | 0.00 | 0.00 | 10,471.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,100.0 | 0.00 | 0.00 | 10,571.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,200.0 | 0.00 | 0.00 | 10,671.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,300.0 | 0.00 | 0.00 | 10,771.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,400.0 | 0.00 | 0.00 | 10,871.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,500.0 | 0.00 | 0.00 | 10,971.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,600.0 | 0.00 | 0.00 | 11,071.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,700.0 | 0.00 | 0.00 | 11,171.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,800.0 | 0.00 | 0.00 | 11,271.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 11,900.0 | 0.00 | 0.00 | 11,371.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,000.0 | 0.00 | 0.00 | 11,471.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,100.0 | 0.00 | 0.00 | 11,571.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,200.0 | 0.00 | 0.00 | 11,671.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,300.0 | 0.00 | 0.00 | 11,771.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,400.0 | 0.00 | 0.00 | 11,871.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,500.0 | 0.00 | 0.00 | 11,971.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,600.0 | 0.00 | 0.00 | 12,071.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,700.0 | 0.00 | 0.00 | 12,171.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,800.0 | 0.00 | 0.00 | 12,271.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,900.0 | 0.00 | 0.00 | 12,371.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 12,923.4 | 0.00 | 0.00 | 12,395.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | Rollins - F25 496 SGU 8515C-25 BHL |
| 13,000.0 | 0.00 | 0.00 | 12,471.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,023.4 | 0.00 | 0.00 | 12,495.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | TD @ 13023.4' |
| 13,100.0 | 0.00 | 0.00 | 12,571.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,200.0 | 0.00 | 0.00 | 12,671.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,253.4 | 0.00 | 0.00 | 12,725.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | Cozzette |
| 13,300.0 | 0.00 | 0.00 | 12,771.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,400.0 | 0.00 | 0.00 | 12,871.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,443.4 | 0.00 | 0.00 | 12,915.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | Corcoran |
| 13,500.0 | 0.00 | 0.00 | 12,971.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,600.0 | 0.00 | 0.00 | 13,071.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,700.0 | 0.00 | 0.00 | 13,171.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,723.4 | 0.00 | 0.00 | 13,195.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | Sego |
| 13,800.0 | 0.00 | 0.00 | 13,271.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,900.0 | 0.00 | 0.00 | 13,371.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 13,923.4 | 0.00 | 0.00 | 13,395.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | Lower Sego |
| 14,000.0 | 0.00 | 0.00 | 13,471.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 14,100.0 | 0.00 | 0.00 | 13,571.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well SGU 8515C-24 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | KBE @ 8320.0ft (Original Well Elev) |
| Site: | F25 496 | North Reference: | True |
| Well: | SGU 8515C-24 | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 14,173.4 | 0.00 | 0.00 | 13,645.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 14,200.0 | 0.00 | 0.00 | 13,671.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 14,300.0 | 0.00 | 0.00 | 13,771.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 14,400.0 | 0.00 | 0.00 | 13,871.6 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | |
| 14,423.4 | 0.00 | 0.00 | 13,895.0 | 2,637.0 | 1,324.2 | 2,950.8 | 0.00 | 0.00 | Permit TD @ 14423.4' |

Targets

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------------|-----------------|
| F25 496 SGU 8515C-25 - plan hits target center - Rectangle (sides W30.0 H50.0 D0.0) | 0.00 | 0.00 | 12,395.0 | 2,637.0 | 1,324.2 | 1,683,775.39 | 2,264,176.17 | 39° 40' 54.06 N | 108° 6' 53.01 W |
| F25 496 SGU 8515C-25 - plan hits target center - Point | 0.00 | 0.00 | 8,735.0 | 2,637.0 | 1,324.2 | 1,683,775.39 | 2,264,176.17 | 39° 40' 54.06 N | 108° 6' 53.01 W |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|-------------|-----------|---------|-------------------|
| 1,760.6 | 1,695.0 | Para Creek | | 0.00 | |
| 2,081.7 | 1,995.0 | Mahog Bench | | 0.00 | |
| 2,145.9 | 2,055.0 | Base B | | 0.00 | |
| 5,935.0 | 5,595.0 | Was G | | 0.00 | |
| 9,223.4 | 8,695.0 | WF | | 0.00 | |
| 9,263.4 | 8,735.0 | TOG | | 0.00 | |
| 12,923.4 | 12,395.0 | Rollins | | 0.00 | |
| 13,253.4 | 12,725.0 | Cozzette | | 0.00 | |
| 13,443.4 | 12,915.0 | Corcoran | | 0.00 | |
| 13,723.4 | 13,195.0 | Sego | | 0.00 | |
| 13,923.4 | 13,395.0 | Lower Sego | | 0.00 | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates +N/-S (ft) | +E/-W (ft) | Comment |
|---------------------|---------------------|---------------------------------|------------|----------------------|
| 300.0 | 300.0 | 0.0 | 0.0 | KOP @ 300' |
| 996.4 | 981.1 | 112.2 | 56.3 | EOB; Inc=20.89° |
| 8,567.0 | 8,053.9 | 2,524.8 | 1,267.8 | Start Drop -3.00 |
| 9,263.4 | 8,735.0 | 2,637.0 | 1,324.2 | EOD; Inc=0° |
| 13,023.4 | 12,495.0 | 2,637.0 | 1,324.2 | TD @ 13023.4' |
| 14,423.4 | 13,895.0 | 2,637.0 | 1,324.2 | Permit TD @ 14423.4' |