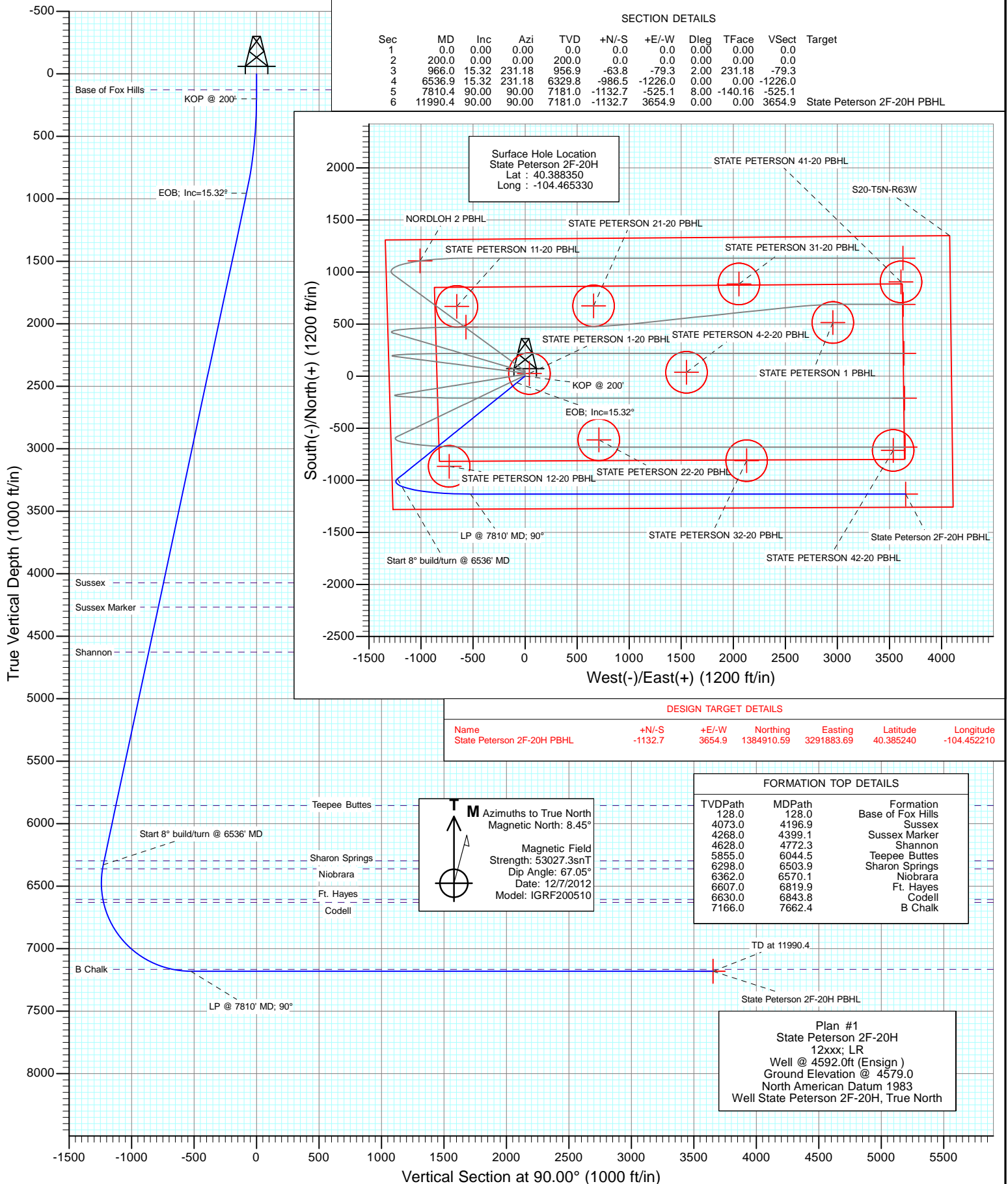




Project: DJ Wattenberg
Site: S20-T5N-R63W (State Peterson)
Well: State Peterson 2F-20H
Wellbore: Hz
Design: Plan #1



Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Project: | DJ Wattenberg | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site: | S20-T5N-R63W (State Peterson) | North Reference: | True |
| Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | DJ Wattenberg | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|-----------------------|-------------------------------|--------------|-----------------|-------------------|-------------|
| Site | S20-T5N-R63W (State Peterson) | | | | |
| Site Position: | | Northing: | 1,386,047.92 ft | Latitude: | 40.388480 |
| From: | Lat/Long | Easting: | 3,288,215.31 ft | Longitude: | -104.465330 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.67 ° |

| | | | | | | |
|----------------------|-----------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | State Peterson 2F-20H | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,386,000.55 ft | Latitude: | 40.388350 |
| | +E/-W | 0.0 ft | Easting: | 3,288,215.87 ft | Longitude: | -104.465330 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,579.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| Wellbore | Hz | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 12/7/2012 | 8.45 | 67.05 | 53,027 |

| | | | | | |
|--------------------------|----------------------------------|-----------------------|-----------------------|--------------------------|-----|
| 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 | 90.00 | |

| Plan Sections | | | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 966.0 | 15.32 | 231.18 | 956.9 | -63.8 | -79.3 | 2.00 | 2.00 | 0.00 | 231.18 | |
| 6,536.9 | 15.32 | 231.18 | 6,329.8 | -986.5 | -1,226.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,810.4 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -525.1 | 8.00 | 5.86 | -11.09 | -140.16 | |
| 11,990.4 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,654.9 | 0.00 | 0.00 | 0.00 | 0.00 | State Peterson 2F-20 |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Project: | DJ Wattenberg | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site: | S20-T5N-R63W (State Peterson) | North Reference: | True |
| Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| 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 | |
| 128.0 | 0.00 | 0.00 | 128.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | Base of Fox Hills |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 200' |
| 300.0 | 2.00 | 231.18 | 300.0 | -1.1 | -1.4 | -1.4 | 2.00 | 2.00 | |
| 400.0 | 4.00 | 231.18 | 399.8 | -4.4 | -5.4 | -5.4 | 2.00 | 2.00 | |
| 500.0 | 6.00 | 231.18 | 499.5 | -9.8 | -12.2 | -12.2 | 2.00 | 2.00 | |
| 600.0 | 8.00 | 231.18 | 598.7 | -17.5 | -21.7 | -21.7 | 2.00 | 2.00 | |
| 700.0 | 10.00 | 231.18 | 697.5 | -27.3 | -33.9 | -33.9 | 2.00 | 2.00 | |
| 800.0 | 12.00 | 231.18 | 795.6 | -39.2 | -48.8 | -48.8 | 2.00 | 2.00 | |
| 900.0 | 14.00 | 231.18 | 893.1 | -53.3 | -66.3 | -66.3 | 2.00 | 2.00 | |
| 966.0 | 15.32 | 231.18 | 956.9 | -63.8 | -79.3 | -79.3 | 2.00 | 2.00 | EOB; Inc=15.32° |
| 1,000.0 | 15.32 | 231.18 | 989.7 | -69.4 | -86.3 | -86.3 | 0.00 | 0.00 | |
| 1,100.0 | 15.32 | 231.18 | 1,086.1 | -86.0 | -106.9 | -106.9 | 0.00 | 0.00 | |
| 1,200.0 | 15.32 | 231.18 | 1,182.6 | -102.6 | -127.5 | -127.5 | 0.00 | 0.00 | |
| 1,300.0 | 15.32 | 231.18 | 1,279.0 | -119.1 | -148.1 | -148.1 | 0.00 | 0.00 | |
| 1,400.0 | 15.32 | 231.18 | 1,375.5 | -135.7 | -168.6 | -168.6 | 0.00 | 0.00 | |
| 1,500.0 | 15.32 | 231.18 | 1,471.9 | -152.3 | -189.2 | -189.2 | 0.00 | 0.00 | |
| 1,600.0 | 15.32 | 231.18 | 1,568.4 | -168.8 | -209.8 | -209.8 | 0.00 | 0.00 | |
| 1,700.0 | 15.32 | 231.18 | 1,664.8 | -185.4 | -230.4 | -230.4 | 0.00 | 0.00 | |
| 1,800.0 | 15.32 | 231.18 | 1,761.3 | -202.0 | -251.0 | -251.0 | 0.00 | 0.00 | |
| 1,900.0 | 15.32 | 231.18 | 1,857.7 | -218.5 | -271.6 | -271.6 | 0.00 | 0.00 | |
| 2,000.0 | 15.32 | 231.18 | 1,954.2 | -235.1 | -292.1 | -292.1 | 0.00 | 0.00 | |
| 2,100.0 | 15.32 | 231.18 | 2,050.6 | -251.6 | -312.7 | -312.7 | 0.00 | 0.00 | |
| 2,200.0 | 15.32 | 231.18 | 2,147.1 | -268.2 | -333.3 | -333.3 | 0.00 | 0.00 | |
| 2,300.0 | 15.32 | 231.18 | 2,243.5 | -284.8 | -353.9 | -353.9 | 0.00 | 0.00 | |
| 2,400.0 | 15.32 | 231.18 | 2,340.0 | -301.3 | -374.5 | -374.5 | 0.00 | 0.00 | |
| 2,500.0 | 15.32 | 231.18 | 2,436.4 | -317.9 | -395.1 | -395.1 | 0.00 | 0.00 | |
| 2,600.0 | 15.32 | 231.18 | 2,532.8 | -334.5 | -415.6 | -415.6 | 0.00 | 0.00 | |
| 2,700.0 | 15.32 | 231.18 | 2,629.3 | -351.0 | -436.2 | -436.2 | 0.00 | 0.00 | |
| 2,800.0 | 15.32 | 231.18 | 2,725.7 | -367.6 | -456.8 | -456.8 | 0.00 | 0.00 | |
| 2,900.0 | 15.32 | 231.18 | 2,822.2 | -384.1 | -477.4 | -477.4 | 0.00 | 0.00 | |
| 3,000.0 | 15.32 | 231.18 | 2,918.6 | -400.7 | -498.0 | -498.0 | 0.00 | 0.00 | |
| 3,100.0 | 15.32 | 231.18 | 3,015.1 | -417.3 | -518.6 | -518.6 | 0.00 | 0.00 | |
| 3,200.0 | 15.32 | 231.18 | 3,111.5 | -433.8 | -539.2 | -539.2 | 0.00 | 0.00 | |
| 3,300.0 | 15.32 | 231.18 | 3,208.0 | -450.4 | -559.7 | -559.7 | 0.00 | 0.00 | |
| 3,400.0 | 15.32 | 231.18 | 3,304.4 | -467.0 | -580.3 | -580.3 | 0.00 | 0.00 | |
| 3,500.0 | 15.32 | 231.18 | 3,400.9 | -483.5 | -600.9 | -600.9 | 0.00 | 0.00 | |
| 3,600.0 | 15.32 | 231.18 | 3,497.3 | -500.1 | -621.5 | -621.5 | 0.00 | 0.00 | |
| 3,700.0 | 15.32 | 231.18 | 3,593.8 | -516.6 | -642.1 | -642.1 | 0.00 | 0.00 | |
| 3,800.0 | 15.32 | 231.18 | 3,690.2 | -533.2 | -662.7 | -662.7 | 0.00 | 0.00 | |
| 3,900.0 | 15.32 | 231.18 | 3,786.7 | -549.8 | -683.2 | -683.2 | 0.00 | 0.00 | |
| 4,000.0 | 15.32 | 231.18 | 3,883.1 | -566.3 | -703.8 | -703.8 | 0.00 | 0.00 | |
| 4,100.0 | 15.32 | 231.18 | 3,979.5 | -582.9 | -724.4 | -724.4 | 0.00 | 0.00 | |
| 4,196.9 | 15.32 | 231.18 | 4,073.0 | -598.9 | -744.3 | -744.3 | 0.00 | 0.00 | Sussex |
| 4,200.0 | 15.32 | 231.18 | 4,076.0 | -599.5 | -745.0 | -745.0 | 0.00 | 0.00 | |
| 4,300.0 | 15.32 | 231.18 | 4,172.4 | -616.0 | -765.6 | -765.6 | 0.00 | 0.00 | |
| 4,399.1 | 15.32 | 231.18 | 4,268.0 | -632.4 | -786.0 | -786.0 | 0.00 | 0.00 | Sussex Marker |
| 4,400.0 | 15.32 | 231.18 | 4,268.9 | -632.6 | -786.2 | -786.2 | 0.00 | 0.00 | |
| 4,500.0 | 15.32 | 231.18 | 4,365.3 | -649.1 | -806.7 | -806.7 | 0.00 | 0.00 | |
| 4,600.0 | 15.32 | 231.18 | 4,461.8 | -665.7 | -827.3 | -827.3 | 0.00 | 0.00 | |
| 4,700.0 | 15.32 | 231.18 | 4,558.2 | -682.3 | -847.9 | -847.9 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Project: | DJ Wattenberg | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site: | S20-T5N-R63W (State Peterson) | North Reference: | True |
| Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| 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 |
| 4,772.3 | 15.32 | 231.18 | 4,628.0 | -694.3 | -862.8 | -862.8 | 0.00 | 0.00 | Shannon |
| 4,800.0 | 15.32 | 231.18 | 4,654.7 | -698.8 | -868.5 | -868.5 | 0.00 | 0.00 | |
| 4,900.0 | 15.32 | 231.18 | 4,751.1 | -715.4 | -889.1 | -889.1 | 0.00 | 0.00 | |
| 5,000.0 | 15.32 | 231.18 | 4,847.6 | -732.0 | -909.7 | -909.7 | 0.00 | 0.00 | |
| 5,100.0 | 15.32 | 231.18 | 4,944.0 | -748.5 | -930.2 | -930.2 | 0.00 | 0.00 | |
| 5,200.0 | 15.32 | 231.18 | 5,040.5 | -765.1 | -950.8 | -950.8 | 0.00 | 0.00 | |
| 5,300.0 | 15.32 | 231.18 | 5,136.9 | -781.6 | -971.4 | -971.4 | 0.00 | 0.00 | |
| 5,400.0 | 15.32 | 231.18 | 5,233.4 | -798.2 | -992.0 | -992.0 | 0.00 | 0.00 | |
| 5,500.0 | 15.32 | 231.18 | 5,329.8 | -814.8 | -1,012.6 | -1,012.6 | 0.00 | 0.00 | |
| 5,600.0 | 15.32 | 231.18 | 5,426.3 | -831.3 | -1,033.2 | -1,033.2 | 0.00 | 0.00 | |
| 5,700.0 | 15.32 | 231.18 | 5,522.7 | -847.9 | -1,053.7 | -1,053.7 | 0.00 | 0.00 | |
| 5,800.0 | 15.32 | 231.18 | 5,619.1 | -864.5 | -1,074.3 | -1,074.3 | 0.00 | 0.00 | |
| 5,900.0 | 15.32 | 231.18 | 5,715.6 | -881.0 | -1,094.9 | -1,094.9 | 0.00 | 0.00 | |
| 6,000.0 | 15.32 | 231.18 | 5,812.0 | -897.6 | -1,115.5 | -1,115.5 | 0.00 | 0.00 | |
| 6,044.5 | 15.32 | 231.18 | 5,855.0 | -905.0 | -1,124.7 | -1,124.7 | 0.00 | 0.00 | Teepee Buttes |
| 6,100.0 | 15.32 | 231.18 | 5,908.5 | -914.2 | -1,136.1 | -1,136.1 | 0.00 | 0.00 | |
| 6,200.0 | 15.32 | 231.18 | 6,004.9 | -930.7 | -1,156.7 | -1,156.7 | 0.00 | 0.00 | |
| 6,300.0 | 15.32 | 231.18 | 6,101.4 | -947.3 | -1,177.2 | -1,177.2 | 0.00 | 0.00 | |
| 6,400.0 | 15.32 | 231.18 | 6,197.8 | -963.8 | -1,197.8 | -1,197.8 | 0.00 | 0.00 | |
| 6,500.0 | 15.32 | 231.18 | 6,294.3 | -980.4 | -1,218.4 | -1,218.4 | 0.00 | 0.00 | |
| 6,503.9 | 15.32 | 231.18 | 6,298.0 | -981.0 | -1,219.2 | -1,219.2 | 0.00 | 0.00 | Sharon Springs |
| 6,536.9 | 15.32 | 231.18 | 6,329.8 | -986.5 | -1,226.0 | -1,226.0 | 0.00 | 0.00 | Start 8° build/turn @ 6536' MD |
| 6,570.1 | 13.39 | 223.81 | 6,362.0 | -992.0 | -1,232.1 | -1,232.1 | 8.00 | -5.82 | Niobrara |
| 6,600.0 | 11.88 | 215.28 | 6,391.2 | -997.0 | -1,236.3 | -1,236.3 | 8.00 | -5.03 | |
| 6,700.0 | 9.81 | 173.11 | 6,489.6 | -1,013.9 | -1,241.2 | -1,241.2 | 8.00 | -2.07 | |
| 6,800.0 | 13.35 | 136.35 | 6,587.6 | -1,030.8 | -1,232.2 | -1,232.2 | 8.00 | 3.54 | |
| 6,819.9 | 14.48 | 131.67 | 6,607.0 | -1,034.1 | -1,228.7 | -1,228.7 | 8.00 | 5.67 | Ft. Hayes |
| 6,843.8 | 15.94 | 126.97 | 6,630.0 | -1,038.1 | -1,223.9 | -1,223.9 | 8.00 | 6.10 | Codell |
| 6,900.0 | 19.67 | 118.71 | 6,683.5 | -1,047.2 | -1,209.4 | -1,209.4 | 8.00 | 6.64 | |
| 7,000.0 | 26.88 | 109.81 | 6,775.4 | -1,063.0 | -1,173.3 | -1,173.3 | 8.00 | 7.21 | |
| 7,100.0 | 34.42 | 104.52 | 6,861.3 | -1,077.8 | -1,124.6 | -1,124.6 | 8.00 | 7.54 | |
| 7,200.0 | 42.11 | 100.95 | 6,939.8 | -1,091.3 | -1,064.3 | -1,064.3 | 8.00 | 7.69 | |
| 7,300.0 | 49.88 | 98.32 | 7,009.2 | -1,103.2 | -993.4 | -993.4 | 8.00 | 7.77 | |
| 7,400.0 | 57.70 | 96.23 | 7,068.3 | -1,113.3 | -913.4 | -913.4 | 8.00 | 7.82 | |
| 7,500.0 | 65.55 | 94.48 | 7,115.8 | -1,121.5 | -825.9 | -825.9 | 8.00 | 7.85 | |
| 7,600.0 | 73.42 | 92.93 | 7,150.8 | -1,127.5 | -732.5 | -732.5 | 8.00 | 7.87 | |
| 7,662.4 | 78.34 | 92.03 | 7,166.0 | -1,130.1 | -672.0 | -672.0 | 8.00 | 7.88 | B Chalk |
| 7,700.0 | 81.30 | 91.51 | 7,172.6 | -1,131.2 | -635.1 | -635.1 | 8.00 | 7.88 | |
| 7,800.0 | 89.18 | 90.14 | 7,180.9 | -1,132.7 | -535.5 | -535.5 | 8.00 | 7.88 | |
| 7,810.4 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -525.1 | -525.1 | 8.00 | 7.88 | LP @ 7810' MD; 90° |
| 7,900.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -435.5 | -435.5 | 0.00 | 0.00 | |
| 8,000.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -335.5 | -335.5 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -235.5 | -235.5 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -135.5 | -135.5 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | -35.5 | -35.5 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 64.5 | 64.5 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 164.5 | 164.5 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 264.5 | 264.5 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 364.5 | 364.5 | 0.00 | 0.00 | |
| 8,800.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 464.5 | 464.5 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 564.5 | 564.5 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 664.5 | 664.5 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Project: | DJ Wattenberg | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site: | S20-T5N-R63W (State Peterson) | North Reference: | True |
| Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--|
| 9,100.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 764.5 | 764.5 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 864.5 | 864.5 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 964.5 | 964.5 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,064.5 | 1,064.5 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,164.5 | 1,164.5 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,264.5 | 1,264.5 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,364.5 | 1,364.5 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,464.5 | 1,464.5 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,564.5 | 1,564.5 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,664.5 | 1,664.5 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,764.5 | 1,764.5 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,864.5 | 1,864.5 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 1,964.5 | 1,964.5 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,064.5 | 2,064.5 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,164.5 | 2,164.5 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,264.5 | 2,264.5 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,364.5 | 2,364.5 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,464.5 | 2,464.5 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,564.5 | 2,564.5 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,664.5 | 2,664.5 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,764.5 | 2,764.5 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,864.5 | 2,864.5 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 2,964.5 | 2,964.5 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,064.5 | 3,064.5 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,164.5 | 3,164.5 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,264.5 | 3,264.5 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,364.5 | 3,364.5 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,464.5 | 3,464.5 | 0.00 | 0.00 | |
| 11,900.0 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,564.5 | 3,564.5 | 0.00 | 0.00 | |
| 11,990.4 | 90.00 | 90.00 | 7,181.0 | -1,132.7 | 3,654.9 | 3,654.9 | 0.00 | 0.00 | TD at 11990.4 - State Peterson 2F-20H PBHL |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| State Peterson 2F-20H f | 0.00 | 0.00 | 7,181.0 | -1,132.7 | 3,654.9 | 1,384,910.59 | 3,291,883.69 | 40.385240 | -104.452210 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|----------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Project: | DJ Wattenberg | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site: | S20-T5N-R63W (State Peterson) | North Reference: | True |
| Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #1 | | |

| Formations | | | | | | |
|---------------------|---------------------|-------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 128.0 | 128.0 | Base of Fox Hills | | | | |
| 4,196.9 | 4,073.0 | Sussex | | | | |
| 4,399.1 | 4,268.0 | Sussex Marker | | | | |
| 4,772.3 | 4,628.0 | Shannon | | | | |
| 6,044.5 | 5,855.0 | Teepee Buttes | | | | |
| 6,503.9 | 6,298.0 | Sharon Springs | | | | |
| 6,570.1 | 6,362.0 | Niobrara | | | | |
| 6,819.9 | 6,607.0 | Ft. Hayes | | | | |
| 6,843.8 | 6,630.0 | Codell | | | | |
| 7,662.4 | 7,166.0 | B Chalk | | | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|--------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' | |
| 966.0 | 956.9 | -63.8 | -79.3 | EOB; Inc=15.32° | |
| 6,536.9 | 6,329.8 | -986.5 | -1,226.0 | Start 8° build/turn @ 6536' MD | |
| 7,810.4 | 7,181.0 | -1,132.7 | -525.1 | LP @ 7810' MD; 90° | |
| 11,990.4 | 7,181.0 | -1,132.7 | 3,654.9 | TD at 11990.4 | |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S20-T5N-R63W (State Peterson)

State Peterson 2F-20H

Hz

Plan #1

Anticollision Report

07 December, 2012

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Reference | Plan #1 | | |
|------------------------------|---|----------------|---------------------|
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 500.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| Survey Tool Program | | Date | 12/7/2012 | | |
|---------------------|------------|-------------------|-----------|-------------|--|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 11,990.4 | Plan #1 (Hz) | MWD | Geolink MWD | |

| Summary | | | | | | |
|--|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| S20-T5N-R63W (State Peterson) | | | | | | |
| NORDLOH 2 - DD - Plan #1 | | | | | | Out of range |
| STATE PETERSON 1 (EXISTING) - Existing - Existing | | | | | | Out of range |
| STATE PETERSON 11-20 (EXISTING) - Existing - Existin | | | | | | Out of range |
| STATE PETERSON 1-20 (EXISTING) - Existing - Existin | 200.0 | 187.0 | 48.8 | 48.1 | 74.702 | CC, ES |
| STATE PETERSON 1-20 (EXISTING) - Existing - Existin | 600.0 | 585.7 | 76.5 | 74.4 | 37.512 | SF |
| STATE PETERSON 12-20 (EXISTING) - Existing - Existi | 4,786.8 | 4,616.0 | 217.3 | 187.5 | 7.308 | CC |
| STATE PETERSON 12-20 (EXISTING) - Existing - Existi | 4,800.0 | 4,628.7 | 217.3 | 187.5 | 7.288 | ES |
| STATE PETERSON 12-20 (EXISTING) - Existing - Existi | 4,900.0 | 4,725.1 | 219.3 | 189.0 | 7.234 | SF |
| STATE PETERSON 21-20 (EXISTING) - Existing - Existi | | | | | | Out of range |
| STATE PETERSON 22-20 (EXISTING) - Existing - Existi | | | | | | Out of range |
| State Peterson 2A-20H - Hz - Plan #1 | 200.0 | 200.0 | 47.4 | 46.7 | 72.558 | CC, ES |
| State Peterson 2A-20H - Hz - Plan #1 | 600.0 | 593.3 | 81.1 | 78.8 | 36.115 | SF |
| State Peterson 2B-20H - Hz - Plan #1 | 200.0 | 200.0 | 40.1 | 39.4 | 61.390 | CC, ES |
| State Peterson 2B-20H - Hz - Plan #1 | 800.0 | 794.9 | 91.8 | 88.5 | 28.046 | SF |
| State Peterson 2C-20H - Hz - Plan #1 | 200.0 | 200.0 | 29.1 | 28.5 | 44.647 | CC, ES |
| State Peterson 2C-20H - Hz - Plan #1 | 2,900.0 | 2,858.6 | 481.1 | 460.1 | 22.949 | SF |
| State Peterson 2D-20H - Hz - Plan #1 | 200.0 | 200.0 | 18.2 | 17.6 | 27.905 | CC, ES |
| State Peterson 2D-20H - Hz - Plan #1 | 4,100.0 | 4,078.0 | 487.1 | 457.7 | 16.562 | SF |
| State Peterson 2E-20H - Hz - Plan #1 | 200.0 | 200.0 | 7.3 | 6.6 | 11.162 | CC, ES |
| State Peterson 2E-20H - Hz - Plan #1 | 6,100.0 | 6,124.9 | 334.4 | 280.8 | 6.238 | SF |
| STATE PETERSON 31-20 (EXISTING) - Existing - Existi | | | | | | Out of range |
| STATE PETERSON 32-20 (EXISTING) - Existing - Existi | 10,463.2 | 7,177.0 | 321.1 | 241.8 | 4.049 | CC, ES |
| STATE PETERSON 32-20 (EXISTING) - Existing - Existi | 10,500.0 | 7,177.0 | 323.2 | 243.0 | 4.031 | SF |
| STATE PETERSON 41-20 (EXISTING) - Existing - Existi | | | | | | Out of range |
| STATE PETERSON 42-20 (EXISTING) - Existing - Existi | 11,870.8 | 7,213.0 | 419.6 | 306.2 | 3.700 | CC, ES |
| STATE PETERSON 42-20 (EXISTING) - Existing - Existi | 11,900.0 | 7,213.0 | 420.7 | 306.5 | 3.686 | SF |
| STATE PETERSON 4-2-20 (EXISTING) - Existing - Exist | | | | | | Out of range |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - STATE PETERSON 1-20 (EXISTING) - Existing - Existing | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------------|--|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 58.97 | 25.1 | 41.8 | 50.5 | | | | | |
| 100.0 | 100.0 | 87.0 | 87.0 | 0.2 | 0.2 | 58.97 | 25.1 | 41.8 | 48.8 | 0.30 | 160.552 | | | |
| 200.0 | 200.0 | 187.0 | 187.0 | 0.3 | 0.3 | 58.97 | 25.1 | 41.8 | 48.8 | 0.65 | 74.702 CC, ES | | | |
| 300.0 | 300.0 | 287.0 | 287.0 | 0.5 | 0.5 | -172.47 | 25.1 | 41.8 | 50.5 | 1.00 | 50.416 | | | |
| 400.0 | 399.8 | 386.8 | 386.8 | 0.7 | 0.7 | -173.17 | 25.1 | 41.8 | 55.7 | 1.35 | 41.271 | | | |
| 500.0 | 499.5 | 486.5 | 486.5 | 0.9 | 0.8 | -174.07 | 25.1 | 41.8 | 64.3 | 1.70 | 37.956 | | | |
| 600.0 | 598.7 | 585.7 | 585.7 | 1.2 | 1.0 | -174.99 | 25.1 | 41.8 | 76.5 | 2.04 | 37.512 SF | | | |
| 700.0 | 697.5 | 684.5 | 684.5 | 1.5 | 1.2 | -175.82 | 25.1 | 41.8 | 92.1 | 2.38 | 38.704 | | | |
| 800.0 | 795.6 | 782.6 | 782.6 | 1.9 | 1.4 | -176.51 | 25.1 | 41.8 | 111.1 | 2.71 | 40.926 | | | |
| 900.0 | 893.1 | 880.1 | 880.1 | 2.3 | 1.5 | -177.08 | 25.1 | 41.8 | 133.6 | 3.05 | 43.848 | | | |
| 1,000.0 | 989.7 | 976.7 | 976.7 | 2.8 | 1.7 | -177.53 | 25.1 | 41.8 | 159.2 | 3.38 | 47.135 | | | |
| 1,100.0 | 1,086.1 | 1,073.1 | 1,073.1 | 3.3 | 1.9 | -177.88 | 25.1 | 41.8 | 185.6 | 3.72 | 49.908 | | | |
| 1,200.0 | 1,182.6 | 1,169.6 | 1,169.6 | 3.7 | 2.0 | -178.15 | 25.1 | 41.8 | 212.0 | 4.06 | 52.218 | | | |
| 1,300.0 | 1,279.0 | 1,266.0 | 1,266.0 | 4.2 | 2.2 | -178.35 | 25.1 | 41.8 | 238.4 | 4.40 | 54.173 | | | |
| 1,400.0 | 1,375.5 | 1,362.5 | 1,362.5 | 4.7 | 2.4 | -178.52 | 25.1 | 41.8 | 264.9 | 4.74 | 55.848 | | | |
| 1,500.0 | 1,471.9 | 1,458.9 | 1,458.9 | 5.2 | 2.5 | -178.65 | 25.1 | 41.8 | 291.3 | 5.08 | 57.300 | | | |
| 1,600.0 | 1,568.4 | 1,555.4 | 1,555.4 | 5.7 | 2.7 | -178.76 | 25.1 | 41.8 | 317.7 | 5.42 | 58.570 | | | |
| 1,700.0 | 1,664.8 | 1,651.8 | 1,651.8 | 6.2 | 2.9 | -178.86 | 25.1 | 41.8 | 344.1 | 5.76 | 59.691 | | | |
| 1,800.0 | 1,761.3 | 1,748.3 | 1,748.3 | 6.7 | 3.1 | -178.94 | 25.1 | 41.8 | 370.5 | 6.11 | 60.687 | | | |
| 1,900.0 | 1,857.7 | 1,844.7 | 1,844.7 | 7.2 | 3.2 | -179.01 | 25.1 | 41.8 | 396.9 | 6.45 | 61.578 | | | |
| 2,000.0 | 1,954.2 | 1,941.2 | 1,941.2 | 7.7 | 3.4 | -179.07 | 25.1 | 41.8 | 423.3 | 6.79 | 62.380 | | | |
| 2,100.0 | 2,050.6 | 2,037.6 | 2,037.6 | 8.2 | 3.6 | -179.13 | 25.1 | 41.8 | 449.8 | 7.13 | 63.106 | | | |
| 2,200.0 | 2,147.1 | 2,134.1 | 2,134.1 | 8.7 | 3.7 | -179.18 | 25.1 | 41.8 | 476.2 | 7.47 | 63.765 | | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - STATE PETERSON 12-20 (EXISTING) - Existing - Existing | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 3,100.0 | 3,015.1 | 2,989.1 | 2,989.1 | 13.2 | 5.2 | -26.82 | -865.9 | -729.6 | 495.8 | 483.0 | 12.79 | 38.756 | | |
| 3,200.0 | 3,111.5 | 3,085.5 | 3,085.5 | 13.7 | 5.4 | -28.25 | -865.9 | -729.6 | 472.2 | 458.8 | 13.44 | 35.146 | | |
| 3,300.0 | 3,208.0 | 3,182.0 | 3,182.0 | 14.2 | 5.6 | -29.83 | -865.9 | -729.6 | 448.9 | 434.8 | 14.12 | 31.797 | | |
| 3,400.0 | 3,304.4 | 3,278.4 | 3,278.4 | 14.7 | 5.7 | -31.58 | -865.9 | -729.6 | 426.0 | 411.1 | 14.85 | 28.692 | | |
| 3,500.0 | 3,400.9 | 3,374.9 | 3,374.9 | 15.2 | 5.9 | -33.53 | -865.9 | -729.6 | 403.5 | 387.8 | 15.63 | 25.820 | | |
| 3,600.0 | 3,497.3 | 3,471.3 | 3,471.3 | 15.7 | 6.1 | -35.69 | -865.9 | -729.6 | 381.5 | 365.0 | 16.47 | 23.169 | | |
| 3,700.0 | 3,593.8 | 3,567.8 | 3,567.8 | 16.2 | 6.2 | -38.12 | -865.9 | -729.6 | 360.1 | 342.7 | 17.37 | 20.731 | | |
| 3,800.0 | 3,690.2 | 3,664.2 | 3,664.2 | 16.7 | 6.4 | -40.83 | -865.9 | -729.6 | 339.4 | 321.0 | 18.34 | 18.501 | | |
| 3,900.0 | 3,786.7 | 3,760.7 | 3,760.7 | 17.2 | 6.6 | -43.87 | -865.9 | -729.6 | 319.5 | 300.1 | 19.39 | 16.475 | | |
| 4,000.0 | 3,883.1 | 3,857.1 | 3,857.1 | 17.7 | 6.7 | -47.30 | -865.9 | -729.6 | 300.7 | 280.2 | 20.52 | 14.651 | | |
| 4,100.0 | 3,979.5 | 3,953.5 | 3,953.5 | 18.2 | 6.9 | -51.15 | -865.9 | -729.6 | 283.1 | 261.3 | 21.73 | 13.028 | | |
| 4,200.0 | 4,076.0 | 4,050.0 | 4,050.0 | 18.7 | 7.1 | -55.46 | -865.9 | -729.6 | 266.9 | 243.9 | 23.00 | 11.607 | | |
| 4,300.0 | 4,172.4 | 4,146.4 | 4,146.4 | 19.2 | 7.2 | -60.28 | -865.9 | -729.6 | 252.5 | 228.2 | 24.31 | 10.387 | | |
| 4,400.0 | 4,268.9 | 4,242.9 | 4,242.9 | 19.7 | 7.4 | -65.60 | -865.9 | -729.6 | 240.1 | 214.5 | 25.62 | 9.370 | | |
| 4,500.0 | 4,365.3 | 4,339.3 | 4,339.3 | 20.2 | 7.6 | -71.41 | -865.9 | -729.6 | 230.1 | 203.2 | 26.90 | 8.555 | | |
| 4,600.0 | 4,461.8 | 4,435.8 | 4,435.8 | 20.7 | 7.7 | -77.64 | -865.9 | -729.6 | 222.8 | 194.7 | 28.06 | 7.940 | | |
| 4,700.0 | 4,558.2 | 4,532.2 | 4,532.2 | 21.2 | 7.9 | -84.19 | -865.9 | -729.6 | 218.5 | 189.4 | 29.05 | 7.520 | | |
| 4,786.8 | 4,642.0 | 4,616.0 | 4,616.0 | 21.7 | 8.1 | -90.00 | -865.9 | -729.6 | 217.3 | 187.5 | 29.73 | 7.308 | CC | |
| 4,800.0 | 4,654.7 | 4,628.7 | 4,628.7 | 21.7 | 8.1 | -90.89 | -865.9 | -729.6 | 217.3 | 187.5 | 29.81 | 7.288 | ES | |
| 4,900.0 | 4,751.1 | 4,725.1 | 4,725.1 | 22.2 | 8.2 | -97.56 | -865.9 | -729.6 | 219.3 | 189.0 | 30.32 | 7.234 | SF | |
| 5,000.0 | 4,847.6 | 4,821.6 | 4,821.6 | 22.7 | 8.4 | -104.04 | -865.9 | -729.6 | 224.4 | 193.9 | 30.57 | 7.343 | | |
| 5,100.0 | 4,944.0 | 4,918.0 | 4,918.0 | 23.2 | 8.6 | -110.17 | -865.9 | -729.6 | 232.5 | 201.9 | 30.59 | 7.599 | | |
| 5,200.0 | 5,040.5 | 5,014.5 | 5,014.5 | 23.7 | 8.8 | -115.85 | -865.9 | -729.6 | 243.1 | 212.7 | 30.45 | 7.986 | | |
| 5,300.0 | 5,136.9 | 5,110.9 | 5,110.9 | 24.2 | 8.9 | -121.04 | -865.9 | -729.6 | 256.1 | 225.9 | 30.18 | 8.485 | | |
| 5,400.0 | 5,233.4 | 5,207.4 | 5,207.4 | 24.7 | 9.1 | -125.72 | -865.9 | -729.6 | 271.0 | 241.2 | 29.85 | 9.078 | | |
| 5,500.0 | 5,329.8 | 5,303.8 | 5,303.8 | 25.3 | 9.3 | -129.91 | -865.9 | -729.6 | 287.6 | 258.1 | 29.50 | 9.749 | | |
| 5,600.0 | 5,426.3 | 5,400.3 | 5,400.3 | 25.8 | 9.4 | -133.64 | -865.9 | -729.6 | 305.6 | 276.4 | 29.15 | 10.482 | | |
| 5,700.0 | 5,522.7 | 5,496.7 | 5,496.7 | 26.3 | 9.6 | -136.96 | -865.9 | -729.6 | 324.7 | 295.8 | 28.82 | 11.265 | | |
| 5,800.0 | 5,619.1 | 5,593.1 | 5,593.1 | 26.8 | 9.8 | -139.92 | -865.9 | -729.6 | 344.8 | 316.2 | 28.53 | 12.084 | | |
| 5,900.0 | 5,715.6 | 5,689.6 | 5,689.6 | 27.3 | 9.9 | -142.55 | -865.9 | -729.6 | 365.6 | 337.4 | 28.28 | 12.929 | | |
| 6,000.0 | 5,812.0 | 5,786.0 | 5,786.0 | 27.8 | 10.1 | -144.90 | -865.9 | -729.6 | 387.2 | 359.1 | 28.07 | 13.793 | | |
| 6,100.0 | 5,908.5 | 5,882.5 | 5,882.5 | 28.3 | 10.3 | -147.00 | -865.9 | -729.6 | 409.4 | 381.4 | 27.91 | 14.666 | | |
| 6,200.0 | 6,004.9 | 5,978.9 | 5,978.9 | 28.8 | 10.4 | -148.90 | -865.9 | -729.6 | 432.0 | 404.2 | 27.79 | 15.544 | | |
| 6,300.0 | 6,101.4 | 6,075.4 | 6,075.4 | 29.3 | 10.6 | -150.60 | -865.9 | -729.6 | 455.0 | 427.3 | 27.71 | 16.422 | | |
| 6,400.0 | 6,197.8 | 6,171.8 | 6,171.8 | 29.8 | 10.8 | -152.14 | -865.9 | -729.6 | 478.4 | 450.7 | 27.66 | 17.295 | | |
| 7,000.0 | 6,775.4 | 6,749.4 | 6,749.4 | 30.7 | 11.8 | -47.03 | -865.9 | -729.6 | 485.6 | 461.7 | 23.87 | 20.341 | | |
| 7,100.0 | 6,861.3 | 6,835.3 | 6,835.3 | 30.3 | 11.9 | -48.22 | -865.9 | -729.6 | 448.3 | 425.7 | 22.60 | 19.834 | | |
| 7,200.0 | 6,939.8 | 6,913.8 | 6,913.8 | 29.8 | 12.1 | -53.34 | -865.9 | -729.6 | 403.5 | 380.9 | 22.61 | 17.843 | | |
| 7,300.0 | 7,009.2 | 6,983.2 | 6,983.2 | 29.1 | 12.2 | -61.84 | -865.9 | -729.6 | 354.8 | 330.3 | 24.55 | 14.454 | | |
| 7,400.0 | 7,068.3 | 7,042.3 | 7,042.3 | 28.4 | 12.3 | -72.60 | -865.9 | -729.6 | 308.2 | 280.8 | 27.45 | 11.231 | | |
| 7,500.0 | 7,115.8 | 7,089.8 | 7,089.8 | 27.7 | 12.4 | -83.16 | -865.9 | -729.6 | 273.1 | 243.6 | 29.52 | 9.251 | | |
| 7,588.2 | 7,147.3 | 7,121.3 | 7,121.3 | 27.1 | 12.4 | -90.00 | -865.9 | -729.6 | 261.4 | 231.2 | 30.11 | 8.679 | | |
| 7,600.0 | 7,150.8 | 7,124.8 | 7,124.8 | 27.0 | 12.4 | -90.65 | -865.9 | -729.6 | 261.6 | 231.5 | 30.11 | 8.688 | | |
| 7,700.0 | 7,172.6 | 7,146.6 | 7,146.6 | 26.3 | 12.5 | -93.34 | -865.9 | -729.6 | 281.6 | 251.8 | 29.90 | 9.421 | | |
| 7,800.0 | 7,180.9 | 7,154.9 | 7,154.9 | 25.8 | 12.5 | -90.60 | -865.9 | -729.6 | 329.9 | 300.2 | 29.70 | 11.107 | | |
| 7,900.0 | 7,181.0 | 7,155.0 | 7,155.0 | 25.3 | 12.5 | -90.00 | -865.9 | -729.6 | 397.0 | 367.3 | 29.69 | 13.372 | | |
| 8,000.0 | 7,181.0 | 7,155.0 | 7,155.0 | 25.0 | 12.5 | -90.00 | -865.9 | -729.6 | 475.9 | 445.8 | 30.02 | 15.849 | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - State Peterson 2A-20H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: | | 0-MWD | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 47.4 | 0.0 | 47.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 0.00 | 47.4 | 0.0 | 47.4 | 47.1 | 0.30 | 155.958 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 0.00 | 47.4 | 0.0 | 47.4 | 46.7 | 0.65 | 72.558 | CC, ES | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 128.75 | 48.4 | -1.4 | 49.5 | 48.5 | 1.00 | 49.255 | | |
| 400.0 | 399.8 | 397.7 | 397.6 | 0.7 | 0.7 | 128.56 | 51.4 | -5.5 | 55.8 | 54.4 | 1.38 | 40.550 | | |
| 500.0 | 499.5 | 495.9 | 495.4 | 0.9 | 0.9 | 128.30 | 56.4 | -12.3 | 66.4 | 64.6 | 1.79 | 37.170 | | |
| 600.0 | 598.7 | 593.3 | 592.1 | 1.2 | 1.2 | 128.02 | 63.3 | -21.7 | 81.1 | 78.8 | 2.24 | 36.115 | SF | |
| 700.0 | 697.5 | 689.7 | 687.4 | 1.5 | 1.5 | 127.72 | 72.1 | -33.7 | 99.9 | 97.1 | 2.76 | 36.126 | | |
| 800.0 | 795.6 | 784.9 | 780.8 | 1.9 | 1.8 | 127.42 | 82.5 | -48.0 | 122.7 | 119.3 | 3.35 | 36.614 | | |
| 900.0 | 893.1 | 878.6 | 872.3 | 2.3 | 2.2 | 127.10 | 94.7 | -64.5 | 149.5 | 145.5 | 4.01 | 37.292 | | |
| 1,000.0 | 989.7 | 970.7 | 961.4 | 2.8 | 2.7 | 126.89 | 108.3 | -83.1 | 180.0 | 175.3 | 4.73 | 38.063 | | |
| 1,100.0 | 1,086.1 | 1,062.0 | 1,049.1 | 3.3 | 3.1 | 126.47 | 123.5 | -103.8 | 212.7 | 207.3 | 5.49 | 38.770 | | |
| 1,200.0 | 1,182.6 | 1,156.2 | 1,139.2 | 3.7 | 3.6 | 125.94 | 139.7 | -126.0 | 246.2 | 239.9 | 6.28 | 39.223 | | |
| 1,300.0 | 1,279.0 | 1,250.5 | 1,229.3 | 4.2 | 4.1 | 125.53 | 156.0 | -148.2 | 279.6 | 272.5 | 7.07 | 39.538 | | |
| 1,400.0 | 1,375.5 | 1,344.7 | 1,319.4 | 4.7 | 4.6 | 125.21 | 172.3 | -170.4 | 313.0 | 305.2 | 7.87 | 39.762 | | |
| 1,500.0 | 1,471.9 | 1,438.9 | 1,409.5 | 5.2 | 5.1 | 124.95 | 188.6 | -192.6 | 346.5 | 337.8 | 8.68 | 39.927 | | |
| 1,600.0 | 1,568.4 | 1,533.2 | 1,499.7 | 5.7 | 5.7 | 124.74 | 204.8 | -214.8 | 380.0 | 370.5 | 9.49 | 40.052 | | |
| 1,700.0 | 1,664.8 | 1,627.4 | 1,589.8 | 6.2 | 6.2 | 124.56 | 221.1 | -237.0 | 413.4 | 403.1 | 10.30 | 40.149 | | |
| 1,800.0 | 1,761.3 | 1,721.6 | 1,679.9 | 6.7 | 6.7 | 124.41 | 237.4 | -259.2 | 446.9 | 435.8 | 11.11 | 40.226 | | |
| 1,900.0 | 1,857.7 | 1,815.8 | 1,770.0 | 7.2 | 7.2 | 124.28 | 253.7 | -281.4 | 480.4 | 468.4 | 11.92 | 40.288 | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - State Peterson 2B-20H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|-------------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 40.1 | 0.0 | 40.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 0.00 | 40.1 | 0.0 | 40.1 | 39.8 | 0.30 | 131.953 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 0.00 | 40.1 | 0.0 | 40.1 | 39.4 | 0.65 | 61.390 CC, ES | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 130.70 | 40.1 | 0.0 | 41.2 | 40.2 | 1.00 | 41.035 | | |
| 400.0 | 399.8 | 399.5 | 399.5 | 0.7 | 0.7 | 133.54 | 40.6 | -1.7 | 45.1 | 43.7 | 1.36 | 33.044 | | |
| 500.0 | 499.5 | 499.0 | 498.8 | 0.9 | 0.9 | 134.78 | 42.0 | -6.6 | 52.2 | 50.4 | 1.75 | 29.758 | | |
| 600.0 | 598.7 | 598.1 | 597.6 | 1.2 | 1.1 | 134.76 | 44.5 | -14.9 | 62.3 | 60.1 | 2.19 | 28.473 | | |
| 700.0 | 697.5 | 696.8 | 695.5 | 1.5 | 1.3 | 133.97 | 47.8 | -26.3 | 75.5 | 72.8 | 2.69 | 28.073 | | |
| 800.0 | 795.6 | 794.9 | 792.4 | 1.9 | 1.6 | 132.81 | 52.1 | -40.9 | 91.8 | 88.5 | 3.27 | 28.046 SF | | |
| 900.0 | 893.1 | 892.3 | 888.1 | 2.3 | 2.0 | 131.51 | 57.3 | -58.5 | 111.1 | 107.1 | 3.94 | 28.159 | | |
| 1,000.0 | 989.7 | 989.2 | 982.6 | 2.8 | 2.4 | 130.35 | 63.3 | -78.9 | 133.2 | 128.5 | 4.69 | 28.424 | | |
| 1,100.0 | 1,086.1 | 1,086.5 | 1,077.4 | 3.3 | 2.8 | 129.65 | 69.6 | -100.1 | 156.0 | 150.5 | 5.46 | 28.586 | | |
| 1,200.0 | 1,182.6 | 1,183.9 | 1,172.3 | 3.7 | 3.2 | 129.12 | 75.8 | -121.2 | 178.8 | 172.6 | 6.24 | 28.653 | | |
| 1,300.0 | 1,279.0 | 1,281.2 | 1,267.1 | 4.2 | 3.6 | 128.72 | 82.0 | -142.4 | 201.6 | 194.6 | 7.03 | 28.671 | | |
| 1,400.0 | 1,375.5 | 1,378.6 | 1,361.9 | 4.7 | 4.0 | 128.39 | 88.3 | -163.5 | 224.4 | 216.6 | 7.83 | 28.664 | | |
| 1,500.0 | 1,471.9 | 1,476.0 | 1,456.7 | 5.2 | 4.4 | 128.13 | 94.5 | -184.6 | 247.3 | 238.7 | 8.63 | 28.644 | | |
| 1,600.0 | 1,568.4 | 1,573.3 | 1,551.6 | 5.7 | 4.8 | 127.91 | 100.7 | -205.8 | 270.1 | 260.7 | 9.44 | 28.618 | | |
| 1,700.0 | 1,664.8 | 1,670.7 | 1,646.4 | 6.2 | 5.3 | 127.73 | 107.0 | -226.9 | 293.0 | 282.7 | 10.25 | 28.590 | | |
| 1,800.0 | 1,761.3 | 1,768.0 | 1,741.2 | 6.7 | 5.7 | 127.57 | 113.2 | -248.0 | 315.8 | 304.8 | 11.06 | 28.561 | | |
| 1,900.0 | 1,857.7 | 1,865.4 | 1,836.0 | 7.2 | 6.1 | 127.43 | 119.4 | -269.2 | 338.7 | 326.8 | 11.87 | 28.532 | | |
| 2,000.0 | 1,954.2 | 1,962.7 | 1,930.9 | 7.7 | 6.5 | 127.31 | 125.7 | -290.3 | 361.5 | 348.8 | 12.68 | 28.504 | | |
| 2,100.0 | 2,050.6 | 2,060.1 | 2,025.7 | 8.2 | 7.0 | 127.21 | 131.9 | -311.5 | 384.4 | 370.9 | 13.50 | 28.478 | | |
| 2,200.0 | 2,147.1 | 2,157.4 | 2,120.5 | 8.7 | 7.4 | 127.11 | 138.1 | -332.6 | 407.2 | 392.9 | 14.31 | 28.453 | | |
| 2,300.0 | 2,243.5 | 2,254.8 | 2,215.3 | 9.2 | 7.8 | 127.03 | 144.4 | -353.7 | 430.1 | 414.9 | 15.13 | 28.429 | | |
| 2,400.0 | 2,340.0 | 2,352.1 | 2,310.2 | 9.7 | 8.2 | 126.96 | 150.6 | -374.9 | 452.9 | 437.0 | 15.94 | 28.407 | | |
| 2,500.0 | 2,436.4 | 2,449.5 | 2,405.0 | 10.2 | 8.7 | 126.89 | 156.8 | -396.0 | 475.8 | 459.0 | 16.76 | 28.386 | | |
| 2,600.0 | 2,532.8 | 2,546.8 | 2,499.8 | 10.7 | 9.1 | 126.83 | 163.1 | -417.2 | 498.6 | 481.0 | 17.58 | 28.367 | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - State Peterson 2C-20H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 29.1 | 0.0 | 29.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 0.00 | 29.1 | 0.0 | 29.1 | 28.8 | 0.30 | 95.966 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 0.00 | 29.1 | 0.0 | 29.1 | 28.5 | 0.65 | 44.647 CC, ES | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 131.38 | 29.1 | 0.0 | 30.3 | 29.3 | 1.00 | 30.156 | | |
| 400.0 | 399.8 | 399.8 | 399.8 | 0.7 | 0.7 | 137.97 | 29.1 | 0.0 | 34.0 | 32.6 | 1.36 | 24.956 | | |
| 500.0 | 499.5 | 499.7 | 499.6 | 0.9 | 0.9 | 143.69 | 29.4 | -1.7 | 40.6 | 38.9 | 1.73 | 23.519 | | |
| 600.0 | 598.7 | 599.5 | 599.3 | 1.2 | 1.0 | 145.96 | 30.0 | -6.9 | 49.8 | 47.7 | 2.11 | 23.557 | | |
| 700.0 | 697.5 | 699.1 | 698.6 | 1.5 | 1.3 | 146.03 | 31.1 | -15.5 | 61.3 | 58.7 | 2.54 | 24.095 | | |
| 800.0 | 795.6 | 798.6 | 797.3 | 1.9 | 1.5 | 144.89 | 32.7 | -27.5 | 75.0 | 72.0 | 3.04 | 24.699 | | |
| 900.0 | 893.1 | 897.7 | 895.2 | 2.3 | 1.8 | 143.17 | 34.6 | -42.8 | 91.1 | 87.5 | 3.62 | 25.178 | | |
| 1,000.0 | 989.7 | 996.4 | 992.1 | 2.8 | 2.1 | 141.22 | 37.0 | -61.3 | 109.4 | 105.1 | 4.29 | 25.467 | | |
| 1,100.0 | 1,086.1 | 1,094.8 | 1,088.0 | 3.3 | 2.5 | 138.63 | 39.8 | -83.2 | 128.0 | 123.0 | 5.08 | 25.214 | | |
| 1,200.0 | 1,182.6 | 1,192.8 | 1,183.0 | 3.7 | 3.0 | 135.82 | 42.9 | -107.0 | 146.9 | 140.9 | 5.92 | 24.809 | | |
| 1,300.0 | 1,279.0 | 1,290.8 | 1,278.0 | 4.2 | 3.4 | 133.64 | 45.9 | -130.9 | 165.9 | 159.2 | 6.78 | 24.479 | | |
| 1,400.0 | 1,375.5 | 1,388.8 | 1,373.0 | 4.7 | 3.8 | 131.91 | 49.0 | -154.9 | 185.2 | 177.6 | 7.65 | 24.214 | | |
| 1,500.0 | 1,471.9 | 1,486.8 | 1,468.0 | 5.2 | 4.3 | 130.50 | 52.0 | -178.8 | 204.6 | 196.1 | 8.53 | 24.001 | | |
| 1,600.0 | 1,568.4 | 1,584.8 | 1,563.0 | 5.7 | 4.7 | 129.34 | 55.1 | -202.7 | 224.1 | 214.7 | 9.41 | 23.828 | | |
| 1,700.0 | 1,664.8 | 1,682.8 | 1,657.9 | 6.2 | 5.2 | 128.36 | 58.2 | -226.6 | 243.7 | 233.4 | 10.29 | 23.684 | | |
| 1,800.0 | 1,761.3 | 1,780.8 | 1,752.9 | 6.7 | 5.6 | 127.53 | 61.2 | -250.5 | 263.3 | 252.1 | 11.17 | 23.564 | | |
| 1,900.0 | 1,857.7 | 1,878.8 | 1,847.9 | 7.2 | 6.1 | 126.82 | 64.3 | -274.4 | 283.0 | 270.9 | 12.06 | 23.463 | | |
| 2,000.0 | 1,954.2 | 1,976.7 | 1,942.9 | 7.7 | 6.6 | 126.19 | 67.4 | -298.3 | 302.7 | 289.8 | 12.95 | 23.377 | | |
| 2,100.0 | 2,050.6 | 2,074.7 | 2,037.8 | 8.2 | 7.0 | 125.65 | 70.4 | -322.2 | 322.5 | 308.6 | 13.84 | 23.302 | | |
| 2,200.0 | 2,147.1 | 2,172.7 | 2,132.8 | 8.7 | 7.5 | 125.16 | 73.5 | -346.1 | 342.2 | 327.5 | 14.73 | 23.237 | | |
| 2,300.0 | 2,243.5 | 2,270.7 | 2,227.8 | 9.2 | 7.9 | 124.73 | 76.6 | -370.0 | 362.0 | 346.4 | 15.62 | 23.181 | | |
| 2,400.0 | 2,340.0 | 2,368.7 | 2,322.8 | 9.7 | 8.4 | 124.35 | 79.6 | -393.9 | 381.8 | 365.3 | 16.51 | 23.131 | | |
| 2,500.0 | 2,436.4 | 2,466.7 | 2,417.7 | 10.2 | 8.9 | 124.00 | 82.7 | -417.9 | 401.7 | 384.3 | 17.40 | 23.086 | | |
| 2,600.0 | 2,532.8 | 2,564.7 | 2,512.7 | 10.7 | 9.3 | 123.68 | 85.7 | -441.8 | 421.5 | 403.2 | 18.29 | 23.046 | | |
| 2,700.0 | 2,629.3 | 2,662.7 | 2,607.7 | 11.2 | 9.8 | 123.40 | 88.8 | -465.7 | 441.3 | 422.2 | 19.18 | 23.011 | | |
| 2,800.0 | 2,725.7 | 2,760.6 | 2,702.7 | 11.7 | 10.2 | 123.14 | 91.9 | -489.6 | 461.2 | 441.1 | 20.07 | 22.978 | | |
| 2,900.0 | 2,822.2 | 2,858.6 | 2,797.6 | 12.2 | 10.7 | 122.90 | 94.9 | -513.5 | 481.1 | 460.1 | 20.96 | 22.949 SF | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - State Peterson 2D-20H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 18.2 | 0.0 | 18.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 0.00 | 18.2 | 0.0 | 18.2 | 17.9 | 0.30 | 59.979 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 0.00 | 18.2 | 0.0 | 18.2 | 17.6 | 0.65 | 27.905 CC, ES | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 132.83 | 18.2 | 0.0 | 19.4 | 18.4 | 1.00 | 19.287 | | |
| 400.0 | 399.8 | 399.8 | 399.8 | 0.7 | 0.7 | 142.29 | 18.2 | 0.0 | 23.2 | 21.9 | 1.36 | 17.101 | | |
| 500.0 | 499.5 | 499.5 | 499.5 | 0.9 | 0.8 | 152.24 | 18.2 | 0.0 | 30.6 | 28.9 | 1.71 | 17.872 | | |
| 600.0 | 598.7 | 599.6 | 599.6 | 1.2 | 1.0 | 158.16 | 17.9 | -1.7 | 40.7 | 38.6 | 2.07 | 19.693 | | |
| 700.0 | 697.5 | 700.0 | 699.8 | 1.5 | 1.2 | 160.02 | 17.1 | -6.9 | 52.0 | 49.6 | 2.43 | 21.390 | | |
| 800.0 | 795.6 | 800.5 | 800.0 | 1.9 | 1.4 | 159.84 | 15.7 | -15.6 | 64.4 | 61.6 | 2.82 | 22.797 | | |
| 900.0 | 893.1 | 901.2 | 899.9 | 2.3 | 1.7 | 158.59 | 13.8 | -27.7 | 77.7 | 74.5 | 3.26 | 23.846 | | |
| 1,000.0 | 989.7 | 1,002.0 | 999.5 | 2.8 | 2.0 | 156.76 | 11.3 | -43.3 | 92.0 | 88.2 | 3.76 | 24.439 | | |
| 1,100.0 | 1,086.1 | 1,103.1 | 1,098.7 | 3.3 | 2.3 | 154.06 | 8.2 | -62.5 | 104.9 | 100.6 | 4.37 | 24.021 | | |
| 1,200.0 | 1,182.6 | 1,203.1 | 1,196.2 | 3.7 | 2.7 | 150.81 | 4.7 | -84.1 | 116.5 | 111.5 | 5.07 | 23.006 | | |
| 1,300.0 | 1,279.0 | 1,302.2 | 1,292.9 | 4.2 | 3.1 | 148.07 | 1.3 | -105.9 | 128.3 | 122.5 | 5.81 | 22.099 | | |
| 1,400.0 | 1,375.5 | 1,401.4 | 1,389.5 | 4.7 | 3.5 | 145.79 | -2.2 | -127.7 | 140.3 | 133.7 | 6.58 | 21.334 | | |
| 1,500.0 | 1,471.9 | 1,500.5 | 1,486.2 | 5.2 | 3.9 | 143.88 | -5.7 | -149.4 | 152.5 | 145.2 | 7.37 | 20.694 | | |
| 1,600.0 | 1,568.4 | 1,599.6 | 1,582.8 | 5.7 | 4.3 | 142.25 | -9.2 | -171.2 | 164.9 | 156.7 | 8.18 | 20.159 | | |
| 1,700.0 | 1,664.8 | 1,698.8 | 1,679.5 | 6.2 | 4.7 | 140.84 | -12.7 | -193.0 | 177.3 | 168.3 | 9.00 | 19.708 | | |
| 1,800.0 | 1,761.3 | 1,797.9 | 1,776.1 | 6.7 | 5.1 | 139.63 | -16.2 | -214.7 | 189.9 | 180.0 | 9.83 | 19.325 | | |
| 1,900.0 | 1,857.7 | 1,897.0 | 1,872.8 | 7.2 | 5.5 | 138.56 | -19.6 | -236.5 | 202.5 | 191.8 | 10.66 | 18.998 | | |
| 2,000.0 | 1,954.2 | 1,996.2 | 1,969.4 | 7.7 | 6.0 | 137.62 | -23.1 | -258.2 | 215.2 | 203.7 | 11.50 | 18.717 | | |
| 2,100.0 | 2,050.6 | 2,095.3 | 2,066.1 | 8.2 | 6.4 | 136.78 | -26.6 | -280.0 | 227.9 | 215.6 | 12.34 | 18.472 | | |
| 2,200.0 | 2,147.1 | 2,194.4 | 2,162.7 | 8.7 | 6.8 | 136.03 | -30.1 | -301.8 | 240.7 | 227.5 | 13.18 | 18.258 | | |
| 2,300.0 | 2,243.5 | 2,293.6 | 2,259.4 | 9.2 | 7.2 | 135.36 | -33.6 | -323.5 | 253.5 | 239.5 | 14.03 | 18.069 | | |
| 2,400.0 | 2,340.0 | 2,392.7 | 2,356.1 | 9.7 | 7.6 | 134.75 | -37.1 | -345.3 | 266.4 | 251.5 | 14.88 | 17.902 | | |
| 2,500.0 | 2,436.4 | 2,491.8 | 2,452.7 | 10.2 | 8.1 | 134.20 | -40.6 | -367.1 | 279.2 | 263.5 | 15.73 | 17.753 | | |
| 2,600.0 | 2,532.8 | 2,591.0 | 2,549.4 | 10.7 | 8.5 | 133.70 | -44.0 | -388.8 | 292.1 | 275.5 | 16.58 | 17.619 | | |
| 2,700.0 | 2,629.3 | 2,690.1 | 2,646.0 | 11.2 | 8.9 | 133.23 | -47.5 | -410.6 | 305.0 | 287.6 | 17.43 | 17.499 | | |
| 2,800.0 | 2,725.7 | 2,789.2 | 2,742.7 | 11.7 | 9.3 | 132.81 | -51.0 | -432.3 | 318.0 | 299.7 | 18.28 | 17.390 | | |
| 2,900.0 | 2,822.2 | 2,888.4 | 2,839.3 | 12.2 | 9.8 | 132.42 | -54.5 | -454.1 | 330.9 | 311.8 | 19.14 | 17.291 | | |
| 3,000.0 | 2,918.6 | 2,987.5 | 2,936.0 | 12.7 | 10.2 | 132.06 | -58.0 | -475.9 | 343.9 | 323.9 | 19.99 | 17.200 | | |
| 3,100.0 | 3,015.1 | 3,086.6 | 3,032.6 | 13.2 | 10.6 | 131.72 | -61.5 | -497.6 | 356.9 | 336.0 | 20.85 | 17.118 | | |
| 3,200.0 | 3,111.5 | 3,185.8 | 3,129.3 | 13.7 | 11.1 | 131.41 | -64.9 | -519.4 | 369.8 | 348.1 | 21.70 | 17.042 | | |
| 3,300.0 | 3,208.0 | 3,284.9 | 3,225.9 | 14.2 | 11.5 | 131.12 | -68.4 | -541.2 | 382.8 | 360.3 | 22.56 | 16.972 | | |
| 3,400.0 | 3,304.4 | 3,384.0 | 3,322.6 | 14.7 | 11.9 | 130.85 | -71.9 | -562.9 | 395.8 | 372.4 | 23.41 | 16.907 | | |
| 3,500.0 | 3,400.9 | 3,483.2 | 3,419.2 | 15.2 | 12.3 | 130.60 | -75.4 | -584.7 | 408.9 | 384.6 | 24.27 | 16.847 | | |
| 3,600.0 | 3,497.3 | 3,582.3 | 3,515.9 | 15.7 | 12.8 | 130.36 | -78.9 | -606.4 | 421.9 | 396.8 | 25.13 | 16.791 | | |
| 3,700.0 | 3,593.8 | 3,681.5 | 3,612.5 | 16.2 | 13.2 | 130.14 | -82.4 | -628.2 | 434.9 | 408.9 | 25.98 | 16.739 | | |
| 3,800.0 | 3,690.2 | 3,780.6 | 3,709.2 | 16.7 | 13.6 | 129.93 | -85.9 | -650.0 | 447.9 | 421.1 | 26.84 | 16.690 | | |
| 3,900.0 | 3,786.7 | 3,879.7 | 3,805.8 | 17.2 | 14.1 | 129.73 | -89.3 | -671.7 | 461.0 | 433.3 | 27.69 | 16.645 | | |
| 4,000.0 | 3,883.1 | 3,978.9 | 3,902.5 | 17.7 | 14.5 | 129.54 | -92.8 | -693.5 | 474.0 | 445.5 | 28.55 | 16.602 | | |
| 4,100.0 | 3,979.5 | 4,078.0 | 3,999.1 | 18.2 | 14.9 | 129.36 | -96.3 | -715.3 | 487.1 | 457.7 | 29.41 | 16.562 SF | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - State Peterson 2E-20H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 7.3 | 0.0 | 7.3 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 0.00 | 7.3 | 0.0 | 7.3 | 7.0 | 0.30 | 23.992 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 0.00 | 7.3 | 0.0 | 7.3 | 6.6 | 0.65 | 11.162 CC, ES | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 138.02 | 7.3 | 0.0 | 8.5 | 7.5 | 1.00 | 8.462 | | |
| 400.0 | 399.8 | 400.1 | 400.1 | 0.7 | 0.7 | 148.29 | 6.5 | -1.6 | 11.6 | 10.2 | 1.36 | 8.520 | | |
| 500.0 | 499.5 | 500.4 | 500.3 | 0.9 | 0.9 | 151.56 | 4.3 | -6.3 | 15.3 | 13.6 | 1.72 | 8.880 | | |
| 600.0 | 598.7 | 600.8 | 600.2 | 1.2 | 1.1 | 151.53 | 0.5 | -14.2 | 19.5 | 17.4 | 2.11 | 9.233 | | |
| 700.0 | 697.5 | 701.2 | 699.9 | 1.5 | 1.3 | 149.91 | -4.8 | -25.3 | 24.2 | 21.6 | 2.55 | 9.492 | | |
| 800.0 | 795.6 | 801.8 | 799.2 | 1.9 | 1.7 | 147.53 | -11.6 | -39.5 | 29.3 | 26.3 | 3.05 | 9.620 | | |
| 900.0 | 893.1 | 902.4 | 897.9 | 2.3 | 2.0 | 144.83 | -19.9 | -56.9 | 35.0 | 31.4 | 3.65 | 9.611 | | |
| 1,000.0 | 989.7 | 1,003.0 | 996.0 | 2.8 | 2.4 | 141.89 | -29.7 | -77.4 | 41.2 | 36.8 | 4.36 | 9.448 | | |
| 1,100.0 | 1,086.1 | 1,103.3 | 1,092.9 | 3.3 | 2.9 | 137.41 | -40.8 | -100.5 | 46.2 | 41.0 | 5.22 | 8.848 | | |
| 1,200.0 | 1,182.6 | 1,203.1 | 1,189.3 | 3.7 | 3.4 | 133.49 | -51.9 | -123.7 | 51.3 | 45.1 | 6.14 | 8.342 | | |
| 1,300.0 | 1,279.0 | 1,302.9 | 1,285.8 | 4.2 | 3.8 | 130.28 | -63.0 | -147.0 | 56.5 | 49.4 | 7.10 | 7.962 | | |
| 1,400.0 | 1,375.5 | 1,402.7 | 1,382.2 | 4.7 | 4.3 | 127.63 | -74.2 | -170.3 | 61.9 | 53.9 | 8.07 | 7.674 | | |
| 1,500.0 | 1,471.9 | 1,502.5 | 1,478.6 | 5.2 | 4.8 | 125.41 | -85.3 | -193.5 | 67.5 | 58.4 | 9.05 | 7.451 | | |
| 1,600.0 | 1,568.4 | 1,602.3 | 1,575.0 | 5.7 | 5.3 | 123.53 | -96.4 | -216.8 | 73.1 | 63.0 | 10.04 | 7.276 | | |
| 1,700.0 | 1,664.8 | 1,702.2 | 1,671.5 | 6.2 | 5.8 | 121.91 | -107.5 | -240.1 | 78.7 | 67.7 | 11.03 | 7.136 | | |
| 1,800.0 | 1,761.3 | 1,802.0 | 1,767.9 | 6.7 | 6.3 | 120.52 | -118.7 | -263.3 | 84.5 | 72.4 | 12.03 | 7.023 | | |
| 1,900.0 | 1,857.7 | 1,901.8 | 1,864.3 | 7.2 | 6.7 | 119.30 | -129.8 | -286.6 | 90.2 | 77.2 | 13.02 | 6.930 | | |
| 2,000.0 | 1,954.2 | 2,001.6 | 1,960.8 | 7.7 | 7.2 | 118.23 | -140.9 | -309.9 | 96.0 | 82.0 | 14.02 | 6.852 | | |
| 2,100.0 | 2,050.6 | 2,101.4 | 2,057.2 | 8.2 | 7.7 | 117.28 | -152.1 | -333.1 | 101.9 | 86.9 | 15.01 | 6.787 | | |
| 2,200.0 | 2,147.1 | 2,201.2 | 2,153.6 | 8.7 | 8.2 | 116.43 | -163.2 | -356.4 | 107.7 | 91.7 | 16.00 | 6.731 | | |
| 2,300.0 | 2,243.5 | 2,301.1 | 2,250.0 | 9.2 | 8.7 | 115.67 | -174.3 | -379.7 | 113.6 | 96.6 | 17.00 | 6.683 | | |
| 2,400.0 | 2,340.0 | 2,400.9 | 2,346.5 | 9.7 | 9.2 | 114.99 | -185.4 | -402.9 | 119.5 | 101.5 | 17.99 | 6.642 | | |
| 2,500.0 | 2,436.4 | 2,500.7 | 2,442.9 | 10.2 | 9.7 | 114.37 | -196.6 | -426.2 | 125.4 | 106.4 | 18.99 | 6.606 | | |
| 2,600.0 | 2,532.8 | 2,600.5 | 2,539.3 | 10.7 | 10.2 | 113.81 | -207.7 | -449.5 | 131.4 | 111.4 | 19.98 | 6.574 | | |
| 2,700.0 | 2,629.3 | 2,700.3 | 2,635.7 | 11.2 | 10.7 | 113.29 | -218.8 | -472.7 | 137.3 | 116.3 | 20.97 | 6.546 | | |
| 2,800.0 | 2,725.7 | 2,800.1 | 2,732.2 | 11.7 | 11.2 | 112.82 | -230.0 | -496.0 | 143.2 | 121.3 | 21.97 | 6.521 | | |
| 2,900.0 | 2,822.2 | 2,900.0 | 2,828.6 | 12.2 | 11.7 | 112.39 | -241.1 | -519.3 | 149.2 | 126.2 | 22.96 | 6.499 | | |
| 3,000.0 | 2,918.6 | 2,999.8 | 2,925.0 | 12.7 | 12.1 | 111.99 | -252.2 | -542.5 | 155.2 | 131.2 | 23.95 | 6.479 | | |
| 3,100.0 | 3,015.1 | 3,099.6 | 3,021.4 | 13.2 | 12.6 | 111.61 | -263.3 | -565.8 | 161.1 | 136.2 | 24.94 | 6.461 | | |
| 3,200.0 | 3,111.5 | 3,199.4 | 3,117.9 | 13.7 | 13.1 | 111.27 | -274.5 | -589.1 | 167.1 | 141.2 | 25.93 | 6.444 | | |
| 3,300.0 | 3,208.0 | 3,299.2 | 3,214.3 | 14.2 | 13.6 | 110.95 | -285.6 | -612.3 | 173.1 | 146.2 | 26.92 | 6.429 | | |
| 3,400.0 | 3,304.4 | 3,399.0 | 3,310.7 | 14.7 | 14.1 | 110.65 | -296.7 | -635.6 | 179.1 | 151.2 | 27.91 | 6.416 | | |
| 3,500.0 | 3,400.9 | 3,498.8 | 3,407.2 | 15.2 | 14.6 | 110.37 | -307.9 | -658.9 | 185.1 | 156.2 | 28.91 | 6.403 | | |
| 3,600.0 | 3,497.3 | 3,598.7 | 3,503.6 | 15.7 | 15.1 | 110.11 | -319.0 | -682.1 | 191.1 | 161.2 | 29.90 | 6.392 | | |
| 3,700.0 | 3,593.8 | 3,698.5 | 3,600.0 | 16.2 | 15.6 | 109.86 | -330.1 | -705.4 | 197.1 | 166.2 | 30.89 | 6.382 | | |
| 3,800.0 | 3,690.2 | 3,798.3 | 3,696.4 | 16.7 | 16.1 | 109.63 | -341.2 | -728.7 | 203.1 | 171.2 | 31.87 | 6.372 | | |
| 3,900.0 | 3,786.7 | 3,898.1 | 3,792.9 | 17.2 | 16.6 | 109.41 | -352.4 | -751.9 | 209.1 | 176.2 | 32.86 | 6.363 | | |
| 4,000.0 | 3,883.1 | 3,997.9 | 3,889.3 | 17.7 | 17.1 | 109.20 | -363.5 | -775.2 | 215.1 | 181.3 | 33.85 | 6.355 | | |
| 4,100.0 | 3,979.5 | 4,097.7 | 3,985.7 | 18.2 | 17.6 | 109.01 | -374.6 | -798.5 | 221.1 | 186.3 | 34.84 | 6.347 | | |
| 4,200.0 | 4,076.0 | 4,197.6 | 4,082.1 | 18.7 | 18.1 | 108.82 | -385.8 | -821.7 | 227.2 | 191.3 | 35.83 | 6.340 | | |
| 4,300.0 | 4,172.4 | 4,297.4 | 4,178.6 | 19.2 | 18.6 | 108.65 | -396.9 | -845.0 | 233.2 | 196.4 | 36.82 | 6.333 | | |
| 4,400.0 | 4,268.9 | 4,397.2 | 4,275.0 | 19.7 | 19.0 | 108.48 | -408.0 | -868.3 | 239.2 | 201.4 | 37.81 | 6.326 | | |
| 4,500.0 | 4,365.3 | 4,497.0 | 4,371.4 | 20.2 | 19.5 | 108.32 | -419.1 | -891.5 | 245.2 | 206.4 | 38.80 | 6.321 | | |
| 4,600.0 | 4,461.8 | 4,596.8 | 4,467.8 | 20.7 | 20.0 | 108.17 | -430.3 | -914.8 | 251.2 | 211.5 | 39.79 | 6.315 | | |
| 4,700.0 | 4,558.2 | 4,696.6 | 4,564.3 | 21.2 | 20.5 | 108.03 | -441.4 | -938.1 | 257.3 | 216.5 | 40.77 | 6.310 | | |
| 4,800.0 | 4,654.7 | 4,796.5 | 4,660.7 | 21.7 | 21.0 | 107.89 | -452.5 | -961.3 | 263.3 | 221.5 | 41.76 | 6.305 | | |
| 4,900.0 | 4,751.1 | 4,896.3 | 4,757.1 | 22.2 | 21.5 | 107.76 | -463.7 | -984.6 | 269.3 | 226.6 | 42.75 | 6.300 | | |
| 5,000.0 | 4,847.6 | 4,996.1 | 4,853.5 | 22.7 | 22.0 | 107.63 | -474.8 | -1,007.9 | 275.4 | 231.6 | 43.74 | 6.296 | | |
| 5,100.0 | 4,944.0 | 5,095.9 | 4,950.0 | 23.2 | 22.5 | 107.52 | -485.9 | -1,031.1 | 281.4 | 236.7 | 44.73 | 6.292 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - State Peterson 2E-20H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 5,200.0 | 5,040.5 | 5,195.7 | 5,046.4 | 23.7 | 23.0 | 107.40 | -497.0 | -1,054.4 | 287.4 | 241.7 | 45.71 | 6.288 | | |
| 5,300.0 | 5,136.9 | 5,295.5 | 5,142.8 | 24.2 | 23.5 | 107.29 | -508.2 | -1,077.7 | 293.5 | 246.8 | 46.70 | 6.284 | | |
| 5,400.0 | 5,233.4 | 5,395.4 | 5,239.3 | 24.7 | 24.0 | 107.18 | -519.3 | -1,100.9 | 299.5 | 251.8 | 47.69 | 6.280 | | |
| 5,500.0 | 5,329.8 | 5,495.2 | 5,335.7 | 25.3 | 24.5 | 107.08 | -530.4 | -1,124.2 | 305.5 | 256.9 | 48.68 | 6.277 | | |
| 5,600.0 | 5,426.3 | 5,595.0 | 5,432.1 | 25.8 | 25.0 | 106.99 | -541.6 | -1,147.5 | 311.6 | 261.9 | 49.66 | 6.274 | | |
| 5,700.0 | 5,522.7 | 5,694.8 | 5,528.5 | 26.3 | 25.5 | 106.89 | -552.7 | -1,170.8 | 317.6 | 267.0 | 50.65 | 6.271 | | |
| 5,800.0 | 5,619.1 | 5,794.6 | 5,625.0 | 26.8 | 26.0 | 106.80 | -563.8 | -1,194.0 | 323.7 | 272.0 | 51.64 | 6.268 | | |
| 5,900.0 | 5,715.6 | 5,894.4 | 5,721.4 | 27.3 | 26.4 | 106.71 | -574.9 | -1,217.3 | 329.7 | 277.1 | 52.63 | 6.265 | | |
| 6,000.0 | 5,812.0 | 6,006.5 | 5,830.3 | 27.8 | 26.9 | 107.15 | -587.5 | -1,240.1 | 334.7 | 281.2 | 53.51 | 6.255 | | |
| 6,100.0 | 5,908.5 | 6,124.9 | 5,947.6 | 28.3 | 27.1 | 110.40 | -601.0 | -1,246.7 | 334.4 | 280.8 | 53.60 | 6.238 SF | | |
| 6,200.0 | 6,004.9 | 6,234.7 | 6,056.0 | 28.8 | 27.1 | 116.23 | -613.6 | -1,235.4 | 330.8 | 278.2 | 52.54 | 6.295 | | |
| 6,300.0 | 6,101.4 | 6,332.3 | 6,149.9 | 29.3 | 26.8 | 123.74 | -624.4 | -1,211.4 | 328.3 | 278.2 | 50.12 | 6.550 | | |
| 6,301.7 | 6,103.0 | 6,333.8 | 6,151.3 | 29.3 | 26.8 | 123.88 | -624.6 | -1,210.9 | 328.3 | 278.2 | 50.07 | 6.557 | | |
| 6,400.0 | 6,197.8 | 6,416.7 | 6,227.9 | 29.8 | 26.5 | 131.84 | -633.4 | -1,180.5 | 332.3 | 285.7 | 46.56 | 7.136 | | |
| 6,500.0 | 6,294.3 | 6,488.5 | 6,291.0 | 30.3 | 26.0 | 139.57 | -640.7 | -1,147.1 | 347.2 | 304.7 | 42.48 | 8.173 | | |
| 6,600.0 | 6,391.2 | 6,550.0 | 6,342.1 | 30.7 | 25.6 | 163.23 | -646.6 | -1,113.5 | 374.6 | 336.9 | 37.71 | 9.934 | | |
| 6,700.0 | 6,489.6 | 6,610.9 | 6,389.8 | 31.0 | 25.1 | -146.86 | -652.1 | -1,076.1 | 410.1 | 377.4 | 32.72 | 12.532 | | |
| 6,800.0 | 6,587.6 | 6,669.6 | 6,432.6 | 31.0 | 24.6 | -103.46 | -657.0 | -1,036.2 | 449.6 | 420.8 | 28.82 | 15.598 | | |
| 6,900.0 | 6,683.5 | 6,727.5 | 6,471.5 | 31.0 | 24.1 | -80.36 | -661.5 | -993.6 | 490.2 | 464.1 | 26.15 | 18.751 | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S20-T5N-R63W (State Peterson) - STATE PETERSON 32-20 (EXISTING) - Existing - Existing | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 10,100.0 | 7,181.0 | 7,177.0 | 7,177.0 | 60.2 | 12.5 | -90.00 | -811.6 | 2,127.7 | 484.8 | 414.1 | 70.66 | 6.861 | | |
| 10,200.0 | 7,181.0 | 7,177.0 | 7,177.0 | 62.5 | 12.5 | -90.00 | -811.6 | 2,127.7 | 415.2 | 342.2 | 73.03 | 5.685 | | |
| 10,300.0 | 7,181.0 | 7,177.0 | 7,177.0 | 64.8 | 12.5 | -90.00 | -811.6 | 2,127.7 | 360.2 | 284.8 | 75.41 | 4.777 | | |
| 10,400.0 | 7,181.0 | 7,177.0 | 7,177.0 | 67.1 | 12.5 | -90.00 | -811.6 | 2,127.7 | 327.3 | 249.5 | 77.79 | 4.207 | | |
| 10,463.2 | 7,181.0 | 7,177.0 | 7,177.0 | 68.6 | 12.5 | -90.00 | -811.6 | 2,127.7 | 321.1 | 241.8 | 79.30 | 4.049 CC, ES | | |
| 10,500.0 | 7,181.0 | 7,177.0 | 7,177.0 | 69.5 | 12.5 | -90.00 | -811.6 | 2,127.7 | 323.2 | 243.0 | 80.18 | 4.031 SF | | |
| 10,600.0 | 7,181.0 | 7,177.0 | 7,177.0 | 71.8 | 12.5 | -90.00 | -811.6 | 2,127.7 | 349.0 | 266.5 | 82.58 | 4.227 | | |
| 10,700.0 | 7,181.0 | 7,177.0 | 7,177.0 | 74.2 | 12.5 | -90.00 | -811.6 | 2,127.7 | 399.0 | 314.0 | 84.98 | 4.695 | | |
| 10,800.0 | 7,181.0 | 7,177.0 | 7,177.0 | 76.5 | 12.5 | -90.00 | -811.6 | 2,127.7 | 465.3 | 378.0 | 87.38 | 5.325 | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | S20-T5N-R63W (State Peterson) - STATE PETERSON 42-20 (EXISTING) - Existing - Existing | | | | Offset Site Error: | | 0.0 ft |
|-----------------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|---------|-----------------|---|------------------------|-------------------|--|--------------------|--|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | +E/-W | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | | | | | | |
| 11,600.0 | 7,181.0 | 7,213.0 | 7,213.0 | 95.6 | 12.6 | -90.00 | -713.0 | 3,535.3 | 499.4 | 392.6 | 106.82 | 4.675 | | | | |
| 11,700.0 | 7,181.0 | 7,213.0 | 7,213.0 | 98.0 | 12.6 | -90.00 | -713.0 | 3,535.3 | 453.1 | 343.8 | 109.26 | 4.147 | | | | |
| 11,800.0 | 7,181.0 | 7,213.0 | 7,213.0 | 100.4 | 12.6 | -90.00 | -713.0 | 3,535.3 | 425.6 | 313.9 | 111.69 | 3.810 | | | | |
| 11,870.8 | 7,181.0 | 7,213.0 | 7,213.0 | 102.1 | 12.6 | -90.00 | -713.0 | 3,535.3 | 419.6 | 306.2 | 113.42 | 3.700 CC, ES | | | | |
| 11,900.0 | 7,181.0 | 7,213.0 | 7,213.0 | 102.8 | 12.6 | -90.00 | -713.0 | 3,535.3 | 420.7 | 306.5 | 114.13 | 3.686 SF | | | | |
| 11,990.4 | 7,181.0 | 7,213.0 | 7,213.0 | 105.0 | 12.6 | -90.00 | -713.0 | 3,535.3 | 436.3 | 320.0 | 116.34 | 3.751 | | | | |

Anticollision Report

| | | | |
|---------------------------|-------------------------------|-------------------------------------|-----------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well State Peterson 2F-20H |
| Project: | DJ Wattenberg | TVD Reference: | Well @ 4592.0ft (Ensign) |
| Reference Site: | S20-T5N-R63W (State Peterson) | MD Reference: | Well @ 4592.0ft (Ensign) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | State Peterson 2F-20H | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Hz | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to Well @ 4592.0ft (Ensign)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: State Peterson 2F-20H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.67°

