



ConocoPhillips

Arapahoe County, Colorado

Rush 4-65 29-30 2CH

Design A

Casing Depths

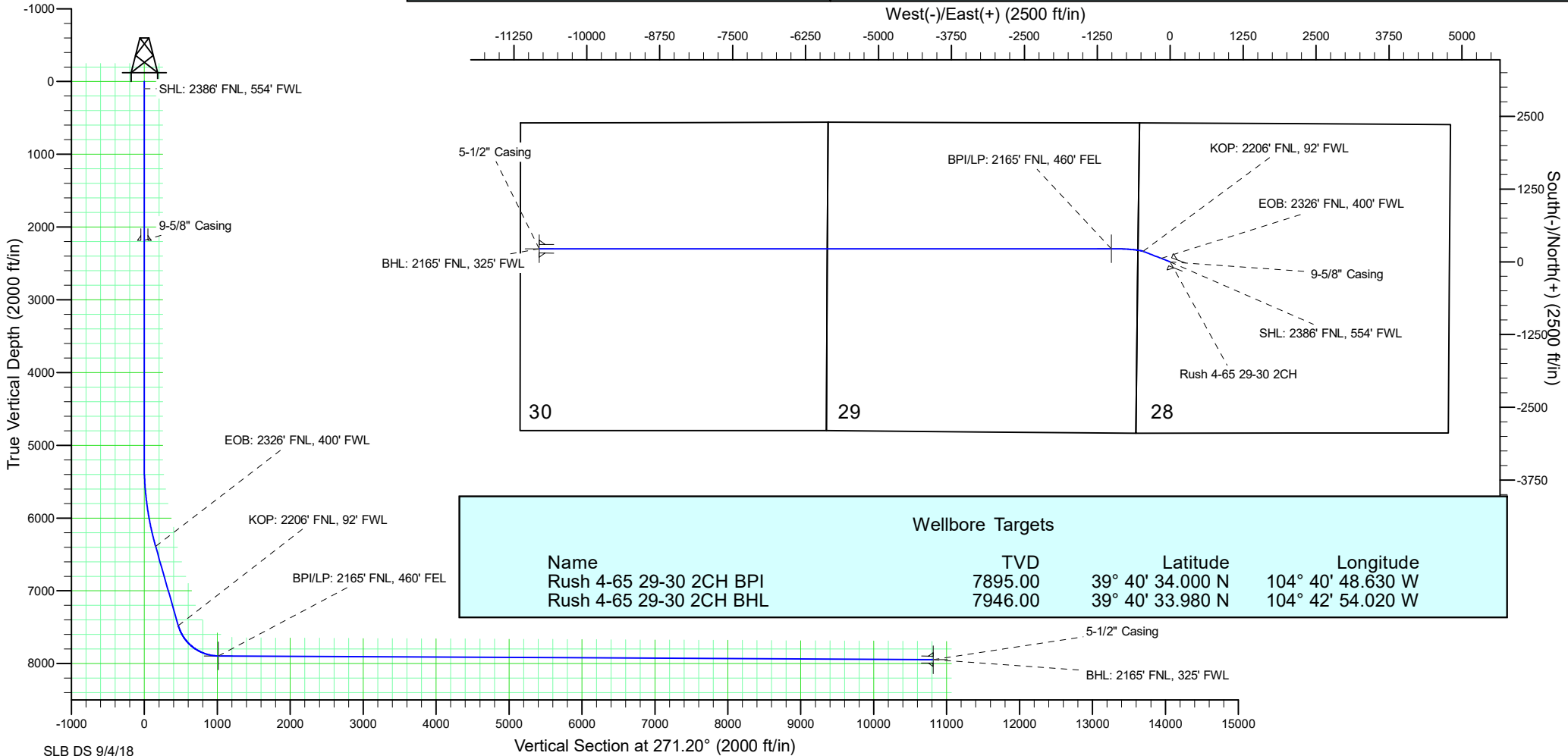
| TVD | MD | Name | Size |
|---------|----------|---------------|-------|
| 2185.00 | 2185.00 | 9-5/8" Casing | 9-5/8 |
| 7946.00 | 18089.44 | 5-1/2" Casing | 5-1/2 |

Ground Level: 5648.90
Surface Location Latitude: 39° 40' 31.770 N
Surface Location Longitude: 104° 40' 35.700 W
North Reference: True
25' RKB @ 5673.90ft (25' RKB)

North American Datum 1983
GRS 1980
US State Plane 1983
Colorado Central Zone

Well Profile Data

| MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | Vsect |
|----------|-------|--------|---------|--------|-----------|-------|----------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5279.00 | 0.00 | 0.00 | 5279.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6405.75 | 16.90 | 291.28 | 6389.48 | 59.88 | -153.74 | 1.50 | 154.95 |
| 7545.24 | 16.90 | 291.28 | 7479.76 | 180.12 | -462.42 | 0.00 | 466.08 |
| 8285.10 | 89.70 | 270.00 | 7895.00 | 225.67 | -1010.99 | 10.00 | 1015.48 |
| 18089.44 | 89.70 | 270.00 | 7946.00 | 225.91 | -10815.19 | 0.00 | 10817.55 |



ConocoPhillips RBU Gold Data

Niobrara Central Zone

Rush

Rush 4-65 29-30 2CH

Rush 4-65 29-30 2CH

Plan: Design A

Standard Planning Report

04 September, 2018

ConocoPhillips

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------|
| Database: | EDT 14 Central Planning | Local Co-ordinate Reference: | Well Rush 4-65 29-30 2CH |
| Company: | ConocoPhillips RBU Gold Data | TVD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| | | | |
|--------------------|---|----------------------|-----------------------------|
| Project | Niobrara Central Zone, Colorado Central Zone, FIPS Zone: 0502 | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | Using geodetic scale factor |

| | | | | | |
|-----------------------|----------|--------------|--------------------|-------------------|-------------------|
| Site | Rush | | | | |
| Site Position: | | Northing: | 1,674,265.179 usft | Latitude: | 39° 40' 55.358 N |
| From: | Lat/Long | Easting: | 3,220,614.549 usft | Longitude: | 104° 42' 58.151 W |
| Position Uncertainty: | 0.00 ft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.49 ° |

| | | | | | | |
|----------------------|---------------------|--------------|---------------------|--------------------|---------------|-------------------|
| Well | Rush 4-65 29-30 2CH | | | | | |
| Well Position | +N/-S | -2,384.38 ft | Northing: | 1,671,977.025 usft | Latitude: | 39° 40' 31.770 N |
| | +E/-W | 11,138.27 ft | Easting: | 3,231,772.808 usft | Longitude: | 104° 40' 35.700 W |
| Position Uncertainty | | 2.00 ft | Wellhead Elevation: | 5,648.90 ft | Ground Level: | 5,648.90 ft |

| | | | | | |
|------------------|---------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Rush 4-65 29-30 2CH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | BGGM2018 | 12/1/2018 | 8.14 | 66.27 | 51,842.35305181 |

| | | | | | |
|-------------------|--------------------------|--------|---------------|---------------|------------------|
| Design | Design A | | | | |
| Audit Notes: | | | | | |
| Version: | 0 | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (ft) | | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.00 | | 0.00 | 0.00 | 271.20 |

| Plan Survey Tool Program | | Date | 9/4/2018 | | |
|--------------------------|---------------|-------------------|--------------------------------|----------------|------------------------------|
| Depth From (ft) | Depth To (ft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 2,185.00 | Design A (Rush 4-65 29-30 2CH) | Gyro-BM-MS | Gyro - bat/mem drop m/s |
| 2 | 2,185.00 | 5,279.00 | Design A (Rush 4-65 29-30 2CH) | MWD+IFR_No SAG | MWD + IFR (No SAG) correctic |
| 3 | 5,279.00 | 6,405.75 | Design A (Rush 4-65 29-30 2CH) | MWD+IFR_No SAG | MWD + IFR (No SAG) correctic |
| 4 | 6,405.75 | 7,545.24 | Design A (Rush 4-65 29-30 2CH) | MWD+IFR_No SAG | MWD + IFR (No SAG) correctic |
| 5 | 7,545.24 | 8,285.10 | Design A (Rush 4-65 29-30 2CH) | MWD+IFR_No SAG | MWD + IFR (No SAG) correctic |
| 6 | 8,285.10 | 18,089.44 | Design A (Rush 4-65 29-30 2CH) | MWD+IFR_No SAG | MWD + IFR (No SAG) correctic |

ConocoPhillips

Planning Report

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| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| 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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,279.00 | 0.00 | 0.00 | 5,279.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,405.75 | 16.90 | 291.28 | 6,389.48 | 59.88 | -153.74 | 1.50 | 1.50 | 0.00 | 291.28 | |
| 7,545.24 | 16.90 | 291.28 | 7,479.76 | 180.12 | -462.42 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,285.10 | 89.70 | 270.00 | 7,895.00 | 225.67 | -1,010.99 | 10.00 | 9.84 | -2.88 | -22.18 | Rush 4-65 29-30 2CH |
| 18,089.44 | 89.70 | 270.00 | 7,946.00 | 225.91 | -10,815.19 | 0.00 | 0.00 | 0.00 | 0.00 | Rush 4-65 29-30 2CH |

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| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| 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) | Turn Rate (°/100ft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SHL: 2386' FNL, 554' FWL | | | | | | | | | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 400.00 | 0.00 | 0.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 500.00 | 0.00 | 0.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 600.00 | 0.00 | 0.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 700.00 | 0.00 | 0.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 800.00 | 0.00 | 0.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 900.00 | 0.00 | 0.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,000.00 | 0.00 | 0.00 | 1,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 0.00 | 0.00 | 1,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,300.00 | 0.00 | 0.00 | 1,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,400.00 | 0.00 | 0.00 | 1,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,500.00 | 0.00 | 0.00 | 1,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,600.00 | 0.00 | 0.00 | 1,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,700.00 | 0.00 | 0.00 | 1,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,725.00 | 0.00 | 0.00 | 1,725.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Fox Hills Top | | | | | | | | | |
| 1,800.00 | 0.00 | 0.00 | 1,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 0.00 | 0.00 | 1,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,985.00 | 0.00 | 0.00 | 1,985.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pierre Top - Fox Hills Base | | | | | | | | | |
| 2,000.00 | 0.00 | 0.00 | 2,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 0.00 | 0.00 | 2,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,185.00 | 0.00 | 0.00 | 2,185.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Surface Casing - 9-5/8" Casing | | | | | | | | | |
| 2,200.00 | 0.00 | 0.00 | 2,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 0.00 | 0.00 | 2,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 0.00 | 0.00 | 2,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 0.00 | 0.00 | 2,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 0.00 | 0.00 | 2,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 0.00 | 0.00 | 2,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 0.00 | 0.00 | 2,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 0.00 | 0.00 | 2,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 0.00 | 0.00 | 3,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 0.00 | 0.00 | 3,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 0.00 | 0.00 | 3,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 0.00 | 0.00 | 3,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 0.00 | 0.00 | 3,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 0.00 | 0.00 | 3,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 0.00 | 0.00 | 3,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 0.00 | 0.00 | 3,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 0.00 | 0.00 | 3,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 0.00 | 0.00 | 3,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 0.00 | 0.00 | 4,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 0.00 | 0.00 | 4,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 0.00 | 0.00 | 4,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 0.00 | 0.00 | 4,300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 0.00 | 0.00 | 4,400.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 0.00 | 0.00 | 4,500.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 0.00 | 0.00 | 4,600.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Planning Report

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| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| 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) | Turn Rate (°/100ft) |
| 4,700.00 | 0.00 | 0.00 | 4,700.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 0.00 | 0.00 | 4,800.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 0.00 | 0.00 | 4,900.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 0.00 | 0.00 | 5,000.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 0.00 | 0.00 | 5,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 0.00 | 0.00 | 5,200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,279.00 | 0.00 | 0.00 | 5,279.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 0.32 | 291.28 | 5,300.00 | 0.02 | -0.05 | 0.05 | 1.50 | 1.50 | 0.00 |
| 5,400.00 | 1.82 | 291.28 | 5,399.98 | 0.70 | -1.79 | 1.80 | 1.50 | 1.50 | 0.00 |
| 5,500.00 | 3.32 | 291.28 | 5,499.88 | 2.32 | -5.96 | 6.00 | 1.50 | 1.50 | 0.00 |
| 5,600.00 | 4.82 | 291.28 | 5,599.62 | 4.89 | -12.56 | 12.66 | 1.50 | 1.50 | 0.00 |
| 5,700.00 | 6.32 | 291.28 | 5,699.15 | 8.41 | -21.60 | 21.77 | 1.50 | 1.50 | 0.00 |
| 5,800.00 | 7.82 | 291.28 | 5,798.39 | 12.88 | -33.06 | 33.32 | 1.50 | 1.50 | 0.00 |
| 5,900.00 | 9.32 | 291.28 | 5,897.27 | 18.28 | -46.93 | 47.31 | 1.50 | 1.50 | 0.00 |
| 6,000.00 | 10.82 | 291.28 | 5,995.73 | 24.62 | -63.22 | 63.72 | 1.50 | 1.50 | 0.00 |
| 6,100.00 | 12.32 | 291.28 | 6,093.69 | 31.90 | -81.90 | 82.55 | 1.50 | 1.50 | 0.00 |
| 6,200.00 | 13.82 | 291.28 | 6,191.10 | 40.10 | -102.96 | 103.78 | 1.50 | 1.50 | 0.00 |
| 6,300.00 | 15.32 | 291.28 | 6,287.89 | 49.23 | -126.40 | 127.40 | 1.50 | 1.50 | 0.00 |
| 6,405.75 | 16.90 | 291.28 | 6,389.48 | 59.88 | -153.73 | 154.95 | 1.50 | 1.50 | 0.00 |
| EOB: 2326' FNL, 400' FWL | | | | | | | | | |
| 6,500.00 | 16.90 | 291.28 | 6,479.66 | 69.82 | -179.27 | 180.69 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 16.90 | 291.28 | 6,575.34 | 80.38 | -206.36 | 207.99 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 16.90 | 291.28 | 6,671.02 | 90.93 | -233.45 | 235.29 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 16.90 | 291.28 | 6,766.70 | 101.48 | -260.54 | 262.60 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 16.90 | 291.28 | 6,862.38 | 112.03 | -287.63 | 289.90 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 16.90 | 291.28 | 6,958.06 | 122.58 | -314.72 | 317.21 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 16.90 | 291.28 | 7,053.74 | 133.13 | -341.81 | 344.51 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 16.90 | 291.28 | 7,149.42 | 143.69 | -368.90 | 371.82 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 16.90 | 291.28 | 7,245.11 | 154.24 | -395.99 | 399.12 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 16.90 | 291.28 | 7,340.79 | 164.79 | -423.08 | 426.43 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 16.90 | 291.28 | 7,436.47 | 175.34 | -450.17 | 453.73 | 0.00 | 0.00 | 0.00 |
| 7,545.24 | 16.90 | 291.28 | 7,479.75 | 180.11 | -462.42 | 466.08 | 0.00 | 0.00 | 0.00 |
| KOP: 2206' FNL, 92' FWL | | | | | | | | | |
| 7,550.00 | 17.34 | 290.68 | 7,484.30 | 180.62 | -463.73 | 467.40 | 9.99 | 9.27 | -12.66 |
| 7,600.00 | 22.07 | 285.78 | 7,531.36 | 185.81 | -479.75 | 483.53 | 10.00 | 9.45 | -9.80 |
| 7,650.00 | 26.89 | 282.55 | 7,576.86 | 190.82 | -499.84 | 503.71 | 10.00 | 9.64 | -6.46 |
| 7,700.00 | 31.76 | 280.25 | 7,620.44 | 195.62 | -523.84 | 527.81 | 10.00 | 9.74 | -4.61 |
| 7,750.00 | 36.66 | 278.50 | 7,661.78 | 200.17 | -551.56 | 555.62 | 10.00 | 9.81 | -3.49 |
| 7,800.00 | 41.58 | 277.12 | 7,700.56 | 204.43 | -582.81 | 586.95 | 10.00 | 9.85 | -2.77 |
| 7,850.00 | 46.52 | 275.98 | 7,736.48 | 208.38 | -617.34 | 621.56 | 10.00 | 9.87 | -2.28 |
| 7,900.00 | 51.47 | 275.01 | 7,769.28 | 211.98 | -654.89 | 659.17 | 10.00 | 9.89 | -1.93 |
| 7,929.40 | 54.38 | 274.51 | 7,787.00 | 213.93 | -678.26 | 682.58 | 10.00 | 9.90 | -1.73 |
| Niobrara Top | | | | | | | | | |
| 7,950.00 | 56.42 | 274.17 | 7,798.70 | 215.21 | -695.17 | 699.51 | 10.00 | 9.91 | -1.62 |
| 8,000.00 | 61.38 | 273.42 | 7,824.52 | 218.04 | -737.87 | 742.27 | 10.00 | 9.92 | -1.50 |
| 8,050.00 | 66.34 | 272.74 | 7,846.54 | 220.45 | -782.68 | 787.12 | 10.00 | 9.92 | -1.36 |
| 8,100.00 | 71.31 | 272.11 | 7,864.59 | 222.41 | -829.25 | 833.71 | 10.00 | 9.93 | -1.26 |
| 8,150.00 | 76.28 | 271.51 | 7,878.55 | 223.93 | -877.22 | 881.71 | 10.00 | 9.93 | -1.19 |
| 8,180.53 | 79.31 | 271.16 | 7,885.00 | 224.62 | -907.05 | 911.54 | 10.00 | 9.94 | -1.15 |
| C Chalk Top | | | | | | | | | |
| 8,200.00 | 81.24 | 270.94 | 7,888.29 | 224.98 | -926.24 | 930.73 | 10.00 | 9.94 | -1.13 |
| 8,250.00 | 86.21 | 270.39 | 7,893.75 | 225.55 | -975.92 | 980.42 | 10.00 | 9.94 | -1.11 |
| 8,285.10 | 89.70 | 270.00 | 7,895.00 | 225.67 | -1,010.99 | 1,015.48 | 10.00 | 9.94 | -1.10 |

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Planning Report

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| Company: | ConocoPhillips RBU Gold Data | TVD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| 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) | Turn Rate (°/100ft) |
| BPI/LP: 2165' FNL, 460' FEL | | | | | | | | | |
| 8,300.00 | 89.70 | 270.00 | 7,895.08 | 225.67 | -1,025.89 | 1,030.38 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 89.70 | 270.00 | 7,895.60 | 225.67 | -1,125.89 | 1,130.36 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.70 | 270.00 | 7,896.12 | 225.68 | -1,225.89 | 1,230.33 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 89.70 | 270.00 | 7,896.64 | 225.68 | -1,325.89 | 1,330.31 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 89.70 | 270.00 | 7,897.16 | 225.68 | -1,425.89 | 1,430.29 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 89.70 | 270.00 | 7,897.68 | 225.68 | -1,525.88 | 1,530.26 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 89.70 | 270.00 | 7,898.20 | 225.69 | -1,625.88 | 1,630.24 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.70 | 270.00 | 7,898.72 | 225.69 | -1,725.88 | 1,730.22 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 89.70 | 270.00 | 7,899.24 | 225.69 | -1,825.88 | 1,830.20 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 89.70 | 270.00 | 7,899.76 | 225.69 | -1,925.88 | 1,930.17 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 89.70 | 270.00 | 7,900.28 | 225.70 | -2,025.88 | 2,030.15 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 89.70 | 270.00 | 7,900.80 | 225.70 | -2,125.88 | 2,130.13 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 89.70 | 270.00 | 7,901.32 | 225.70 | -2,225.87 | 2,230.10 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 89.70 | 270.00 | 7,901.84 | 225.70 | -2,325.87 | 2,330.08 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 89.70 | 270.00 | 7,902.36 | 225.71 | -2,425.87 | 2,430.06 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 89.70 | 270.00 | 7,902.88 | 225.71 | -2,525.87 | 2,530.03 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 89.70 | 270.00 | 7,903.40 | 225.71 | -2,625.87 | 2,630.01 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.70 | 270.00 | 7,903.92 | 225.71 | -2,725.87 | 2,729.99 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 89.70 | 270.00 | 7,904.44 | 225.72 | -2,825.87 | 2,829.96 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 89.70 | 270.00 | 7,904.96 | 225.72 | -2,925.87 | 2,929.94 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.70 | 270.00 | 7,905.48 | 225.72 | -3,025.86 | 3,029.92 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 89.70 | 270.00 | 7,906.00 | 225.72 | -3,125.86 | 3,129.89 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.70 | 270.00 | 7,906.52 | 225.73 | -3,225.86 | 3,229.87 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.70 | 270.00 | 7,907.04 | 225.73 | -3,325.86 | 3,329.85 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.70 | 270.00 | 7,907.56 | 225.73 | -3,425.86 | 3,429.83 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.70 | 270.00 | 7,908.08 | 225.73 | -3,525.86 | 3,529.80 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.70 | 270.00 | 7,908.60 | 225.74 | -3,625.86 | 3,629.78 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.70 | 270.00 | 7,909.12 | 225.74 | -3,725.85 | 3,729.76 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.70 | 270.00 | 7,909.64 | 225.74 | -3,825.85 | 3,829.73 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.70 | 270.00 | 7,910.16 | 225.74 | -3,925.85 | 3,929.71 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.70 | 270.00 | 7,910.68 | 225.75 | -4,025.85 | 4,029.69 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.70 | 270.00 | 7,911.20 | 225.75 | -4,125.85 | 4,129.66 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.70 | 270.00 | 7,911.72 | 225.75 | -4,225.85 | 4,229.64 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.70 | 270.00 | 7,912.24 | 225.75 | -4,325.85 | 4,329.62 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.70 | 270.00 | 7,912.76 | 225.76 | -4,425.85 | 4,429.59 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.70 | 270.00 | 7,913.28 | 225.76 | -4,525.84 | 4,529.57 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 89.70 | 270.00 | 7,913.80 | 225.76 | -4,625.84 | 4,629.55 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.70 | 270.00 | 7,914.32 | 225.76 | -4,725.84 | 4,729.53 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 89.70 | 270.00 | 7,914.84 | 225.77 | -4,825.84 | 4,829.50 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 89.70 | 270.00 | 7,915.36 | 225.77 | -4,925.84 | 4,929.48 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 89.70 | 270.00 | 7,915.88 | 225.77 | -5,025.84 | 5,029.46 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 89.70 | 270.00 | 7,916.40 | 225.77 | -5,125.84 | 5,129.43 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 89.70 | 270.00 | 7,916.93 | 225.78 | -5,225.83 | 5,229.41 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 89.70 | 270.00 | 7,917.45 | 225.78 | -5,325.83 | 5,329.39 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 89.70 | 270.00 | 7,917.97 | 225.78 | -5,425.83 | 5,429.36 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 89.70 | 270.00 | 7,918.49 | 225.78 | -5,525.83 | 5,529.34 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 89.70 | 270.00 | 7,919.01 | 225.79 | -5,625.83 | 5,629.32 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 89.70 | 270.00 | 7,919.53 | 225.79 | -5,725.83 | 5,729.29 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 89.70 | 270.00 | 7,920.05 | 225.79 | -5,825.83 | 5,829.27 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 89.70 | 270.00 | 7,920.57 | 225.79 | -5,925.82 | 5,929.25 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 89.70 | 270.00 | 7,921.09 | 225.80 | -6,025.82 | 6,029.22 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 89.70 | 270.00 | 7,921.61 | 225.80 | -6,125.82 | 6,129.20 | 0.00 | 0.00 | 0.00 |

ConocoPhillips

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------|
| Database: | EDT 14 Central Planning | Local Co-ordinate Reference: | Well Rush 4-65 29-30 2CH |
| Company: | ConocoPhillips RBU Gold Data | TVD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| 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) | Turn Rate (°/100ft) |
| 13,500.00 | 89.70 | 270.00 | 7,922.13 | 225.80 | -6,225.82 | 6,229.18 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 89.70 | 270.00 | 7,922.65 | 225.80 | -6,325.82 | 6,329.16 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 89.70 | 270.00 | 7,923.17 | 225.81 | -6,425.82 | 6,429.13 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 89.70 | 270.00 | 7,923.69 | 225.81 | -6,525.82 | 6,529.11 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 89.70 | 270.00 | 7,924.21 | 225.81 | -6,625.82 | 6,629.09 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 89.70 | 270.00 | 7,924.73 | 225.81 | -6,725.81 | 6,729.06 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 89.70 | 270.00 | 7,925.25 | 225.82 | -6,825.81 | 6,829.04 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 89.70 | 270.00 | 7,925.77 | 225.82 | -6,925.81 | 6,929.02 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 89.70 | 270.00 | 7,926.29 | 225.82 | -7,025.81 | 7,028.99 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 89.70 | 270.00 | 7,926.81 | 225.82 | -7,125.81 | 7,128.97 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 89.70 | 270.00 | 7,927.33 | 225.83 | -7,225.81 | 7,228.95 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 89.70 | 270.00 | 7,927.85 | 225.83 | -7,325.81 | 7,328.92 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 89.70 | 270.00 | 7,928.37 | 225.83 | -7,425.80 | 7,428.90 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 89.70 | 270.00 | 7,928.89 | 225.83 | -7,525.80 | 7,528.88 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 89.70 | 270.00 | 7,929.41 | 225.84 | -7,625.80 | 7,628.86 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 89.70 | 270.00 | 7,929.93 | 225.84 | -7,725.80 | 7,728.83 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 89.70 | 270.00 | 7,930.45 | 225.84 | -7,825.80 | 7,828.81 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 89.70 | 270.00 | 7,930.97 | 225.84 | -7,925.80 | 7,928.79 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 89.70 | 270.00 | 7,931.49 | 225.85 | -8,025.80 | 8,028.76 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 89.70 | 270.00 | 7,932.01 | 225.85 | -8,125.80 | 8,128.74 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 89.70 | 270.00 | 7,932.53 | 225.85 | -8,225.79 | 8,228.72 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 89.70 | 270.00 | 7,933.05 | 225.85 | -8,325.79 | 8,328.69 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 89.70 | 270.00 | 7,933.57 | 225.86 | -8,425.79 | 8,428.67 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 89.70 | 270.00 | 7,934.09 | 225.86 | -8,525.79 | 8,528.65 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 89.70 | 270.00 | 7,934.61 | 225.86 | -8,625.79 | 8,628.62 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 89.70 | 270.00 | 7,935.13 | 225.86 | -8,725.79 | 8,728.60 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 89.70 | 270.00 | 7,935.65 | 225.87 | -8,825.79 | 8,828.58 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 89.70 | 270.00 | 7,936.17 | 225.87 | -8,925.78 | 8,928.55 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 89.70 | 270.00 | 7,936.69 | 225.87 | -9,025.78 | 9,028.53 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 89.70 | 270.00 | 7,937.21 | 225.87 | -9,125.78 | 9,128.51 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 89.70 | 270.00 | 7,937.73 | 225.88 | -9,225.78 | 9,228.49 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 89.70 | 270.00 | 7,938.25 | 225.88 | -9,325.78 | 9,328.46 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 89.70 | 270.00 | 7,938.77 | 225.88 | -9,425.78 | 9,428.44 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 89.70 | 270.00 | 7,939.29 | 225.88 | -9,525.78 | 9,528.42 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 89.70 | 270.00 | 7,939.81 | 225.89 | -9,625.77 | 9,628.39 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 89.70 | 270.00 | 7,940.33 | 225.89 | -9,725.77 | 9,728.37 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 89.70 | 270.00 | 7,940.85 | 225.89 | -9,825.77 | 9,828.35 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 89.70 | 270.00 | 7,941.37 | 225.89 | -9,925.77 | 9,928.32 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 89.70 | 270.00 | 7,941.89 | 225.90 | -10,025.77 | 10,028.30 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 89.70 | 270.00 | 7,942.41 | 225.90 | -10,125.77 | 10,128.28 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 89.70 | 270.00 | 7,942.93 | 225.90 | -10,225.77 | 10,228.25 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 89.70 | 270.00 | 7,943.45 | 225.90 | -10,325.77 | 10,328.23 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 89.70 | 270.00 | 7,943.97 | 225.91 | -10,425.76 | 10,428.21 | 0.00 | 0.00 | 0.00 |
| 17,800.00 | 89.70 | 270.00 | 7,944.49 | 225.91 | -10,525.76 | 10,528.18 | 0.00 | 0.00 | 0.00 |
| 17,900.00 | 89.70 | 270.00 | 7,945.01 | 225.91 | -10,625.76 | 10,628.16 | 0.00 | 0.00 | 0.00 |
| 18,000.00 | 89.70 | 270.00 | 7,945.53 | 225.91 | -10,725.76 | 10,728.14 | 0.00 | 0.00 | 0.00 |
| 18,089.44 | 89.70 | 270.00 | 7,946.00 | 225.91 | -10,815.19 | 10,817.55 | 0.00 | 0.00 | 0.00 |
| BHL: 2165' FNL, 325' FWL | | | | | | | | | |

ConocoPhillips

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|-------------------------------|
| Database: | EDT 14 Central Planning | Local Co-ordinate Reference: | Well Rush 4-65 29-30 2CH |
| Company: | ConocoPhillips RBU Gold Data | TVD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Project: | Niobrara Central Zone | MD Reference: | 25' RKB @ 5673.90ft (25' RKB) |
| Site: | Rush | North Reference: | True |
| Well: | Rush 4-65 29-30 2CH | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Rush 4-65 29-30 2CH | | |
| Design: | Design A | | |

| Design Targets | | | | | | | | | |
|---------------------------|-----------|----------|----------|--------|------------|---------------|---------------|------------------|-------------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (ft) | (ft) | (ft) | (usft) | (usft) | | |
| - Shape | | | | | | | | | |
| Rush 4-65 29-30 2CH B | 0.00 | 0.00 | 7,895.00 | 225.67 | -1,010.99 | 1,672,193.521 | 3,230,759.827 | 39° 40' 34.000 N | 104° 40' 48.630 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Rush 4-65 29-30 2CH B | 0.00 | 0.00 | 7,946.00 | 225.91 | -10,815.19 | 1,672,104.903 | 3,220,956.181 | 39° 40' 33.980 N | 104° 42' 54.020 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Casing Points | | | | | |
|----------------|----------------|---------------|--|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | | Casing Diameter | Hole Diameter |
| (ft) | (ft) | | | (") | (") |
| 2,185.00 | 2,185.00 | 9-5/8" Casing | | 9-5/8 | 12-1/4 |
| 18,089.44 | 7,946.00 | 5-1/2" Casing | | 5-1/2 | 8-1/2 |

| Formations | | | | | |
|----------------|----------------|-----------------------------|-----------|------|---------------|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction |
| (ft) | (ft) | | | (°) | (°) |
| 1,725.00 | 1,725.00 | Fox Hills Top | | 0.00 | |
| 1,985.00 | 1,985.00 | Pierre Top - Fox Hills Base | | 0.00 | |
| 2,185.00 | 2,185.00 | Surface Casing | | 0.00 | |
| 7,929.40 | 7,787.00 | Niobrara Top | | 0.00 | |
| 8,180.53 | 7,885.00 | C Chalk Top | | 0.00 | |

| Plan Annotations | | | | |
|------------------|----------------|-------------------|------------|-----------------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | |
| 100.00 | 100.00 | 0.00 | 0.00 | SHL: 2386' FNL, 554' FWL |
| 6,405.75 | 6,389.48 | 59.88 | -153.73 | EOB: 2326' FNL, 400' FWL |
| 7,545.24 | 7,479.75 | 180.11 | -462.42 | KOP: 2206' FNL, 92' FWL |
| 8,285.10 | 7,895.00 | 225.67 | -1,010.99 | BPI/LP: 2165' FNL, 460' FEL |
| 18,089.44 | 7,946.00 | 225.91 | -10,815.19 | BHL: 2165' FNL, 325' FWL |