

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
4N-68W-13 SBJ 22-13HZ PAD
SBJ 13-6HZ**

Plan C

Plan: PERMIT REV-2

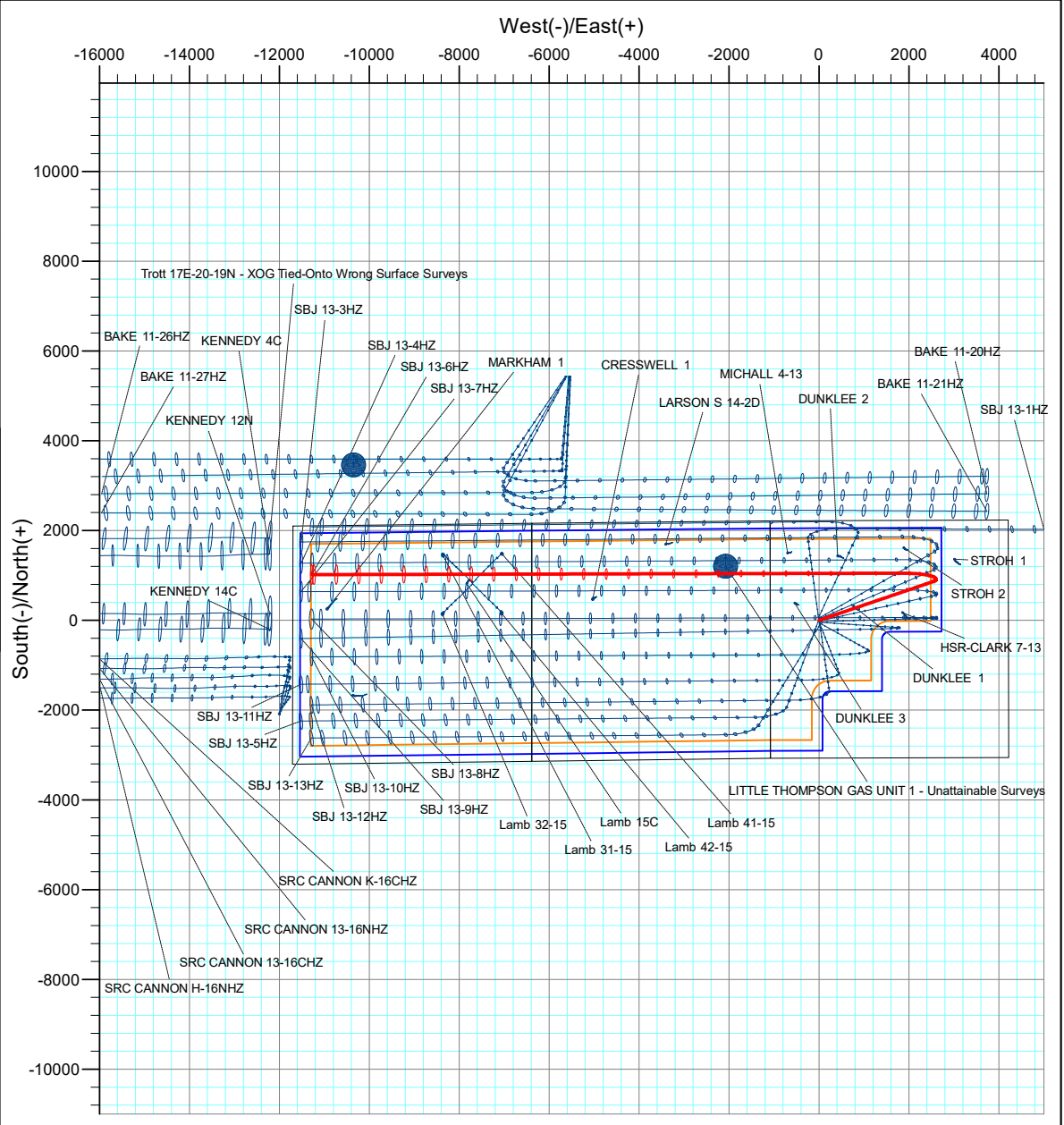
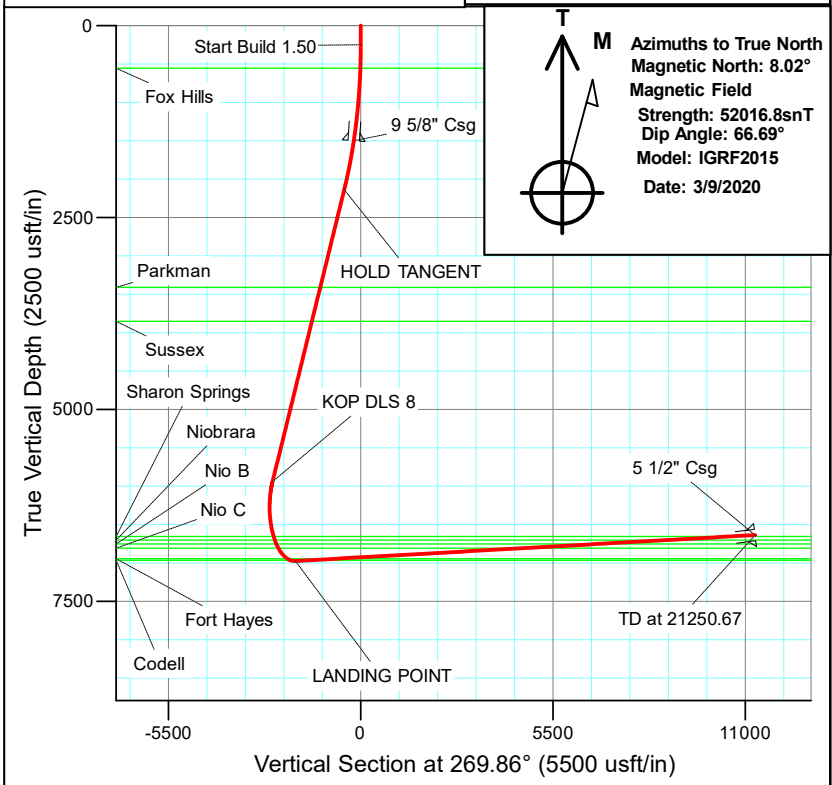
Standard Planning Report

04 May, 2021

| | | | | | | | | | | |
|--|---|----------------|--|--------------------|-------------------------|-----------------------|-----------------------|--------------------------|----------|----------------|
| Project: WELD-NAD83-UTMFT13N Site: 4N-68W-13 SBJ 22-13HZ PAD Well: SBJ 13-6HZ Wellbore: Plan C Design: PERMIT REV-2 | ELEVATION | | SURFACE HOLE LOCATION: SBJ 13-6HZ | | | | | | | |
| | GROUND ELEVATION: 4859.00 RKB = 17' @ 4876ft | | +N/-S 0.00 | +E/-W 0.00 | Northing 14641431.02 | Easting 1652444.60 | Latitude 40.314965 | Longitude -104.956852 | | |
| | CASING DETAILS | | DESIGN TARGET DETAILS | | | | | | | |
| | | TVD 1500.00 | MD 1523.46 | Name 9 5/8" Csg | Size 9-5/8 | | | | | |
| | | 6638.00 | 21250.67 | 5 1/2" Csg | 5-1/2 | | | | | |
| SECTION DETAILS | | | | | | | | | | |
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 250.00 | 0.00 | 0.00 | 250.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 2225.89 | 29.64 | 71.23 | 2138.95 | 160.79 | 473.19 | 1.50 | 71.23 | -473.58 | |
| 4 | 6601.87 | 29.64 | 71.23 | 5942.38 | 857.04 | 2522.15 | 0.00 | 0.00 | -2524.24 | |
| 5 | 8094.27 | 91.47 | 269.86 | 6976.00 | 1049.07 | 1870.91 | 8.00 | -158.50 | -1873.47 | SBJ 13-6HZ LP |
| 6 | 21250.67 | 91.47 | 269.86 | 6638.00 | 1017.48 | -11281.11 | 0.00 | 0.00 | 11278.59 | SBJ 13-6HZ BHL |

SHL **HEEL** **TOE**
2217' FNL **1175' FNL** **1088' FNL**
1079' FWL **2341' FEL** **419' FWL**
Section 13 **Section 13** **Section 15**
SWNW **NWNE** **NWNW**

| FORMATION TOP DETAILS | | |
|-----------------------|---------|----------------|
| TVDPATH | MDPATH | FORMATION |
| 556.00 | 556.33 | Fox Hills |
| 3411.00 | 3689.43 | Parkman |
| 3854.00 | 4199.12 | Sussex |
| 6656.00 | 7363.65 | Sharon Springs |
| 6703.00 | 7422.29 | Niobrara |
| 6755.00 | 7491.87 | Nio B |
| 6808.00 | 7570.11 | Nio C |
| 6947.00 | 7868.46 | Fort Hayes |
| 6967.00 | 7959.42 | Codell |



Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well SBJ 13-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Site: | 4N-68W-13 SBJ 22-13HZ PAD | North Reference: | True |
| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| | | | |
|--------------------|--|----------------------|----------------|
| Project | WELD-NAD83-UTMFT13N | | |
| Map System: | Universal Transverse Mercator (US Survey Feet) | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Zone 13N (108 W to 102 W) | | |

| | | | | | |
|------------------------------|---------------------------|---------------------|--------------------|--------------------------|-------------|
| Site | 4N-68W-13 SBJ 22-13HZ PAD | | | | |
| Site Position: | | Northing: | 14,641,145.55 usft | Latitude: | 40.314181 |
| From: | Lat/Long | Easting: | 1,652,517.50 usft | Longitude: | -104.956591 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.03 ° |

| | | | | | | |
|-----------------------------|--------------|-------------|----------------------------|--------------------|----------------------|---------------|
| Well | SBJ 13-6HZ | | | | | |
| Well Position | +N/-S | 285.50 usft | Northing: | 14,641,431.01 usft | Latitude: | 40.314965 |
| | +E/-W | -72.76 usft | Easting: | 1,652,444.60 usft | Longitude: | -104.956852 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | | Ground Level: | 4,859.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Plan C | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 3/9/2020 | 8.02 | 66.69 | 52,016.79974187 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | PERMIT REV-2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 269.86 |

| | | | | | |
|---------------------------------|------------------------|--------------------------|-----------------------|--|--|
| Plan Survey Tool Program | Date | 5/4/2021 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 2,000.00 | PERMIT REV-2 (Plan C) | APC_ISCWSA REV 2 MWD Fixed:v2:standard declination | |
| 2 | 2,000.00 | 21,250.67 | PERMIT REV-2 (Plan C) | APC_ISCWSA REV 2 MWD+II Fixed:v2:Rockies, crustal dec + | |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 250.00 | 0.00 | 0.00 | 250.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2,225.89 | 29.64 | 71.23 | 2,138.95 | 160.79 | 473.19 | 1.50 | 1.50 | 0.00 | 71.23 | |
| 6,601.87 | 29.64 | 71.23 | 5,942.38 | 857.04 | 2,522.15 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,094.27 | 91.47 | 269.86 | 6,976.00 | 1,049.07 | 1,870.91 | 8.00 | 4.14 | -10.81 | -158.50 | SBJ 13-6HZ LP |
| 21,250.67 | 91.47 | 269.86 | 6,638.00 | 1,017.48 | -11,281.11 | 0.00 | 0.00 | 0.00 | 0.00 | SBJ 13-6HZ BHL |

Corporate Planning Report

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|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well SBJ 13-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Site: | 4N-68W-13 SBJ 22-13HZ PAD | North Reference: | True |
| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| Planned Survey | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|----------------|----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 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 |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 250.00 | 0.00 | 0.00 | 250.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 1.50 | | | | | | | | | |
| 300.00 | 0.75 | 71.23 | 300.00 | 0.11 | 0.31 | -0.31 | 1.50 | 1.50 | 0.00 |
| 400.00 | 2.25 | 71.23 | 399.96 | 0.95 | 2.79 | -2.79 | 1.50 | 1.50 | 0.00 |
| 500.00 | 3.75 | 71.23 | 499.82 | 2.63 | 7.74 | -7.75 | 1.50 | 1.50 | 0.00 |
| 556.33 | 4.59 | 71.23 | 556.00 | 3.95 | 11.62 | -11.63 | 1.50 | 1.50 | 0.00 |
| Fox Hills | | | | | | | | | |
| 600.00 | 5.25 | 71.23 | 599.51 | 5.16 | 15.17 | -15.18 | 1.50 | 1.50 | 0.00 |
| 700.00 | 6.75 | 71.23 | 698.96 | 8.52 | 25.07 | -25.09 | 1.50 | 1.50 | 0.00 |
| 800.00 | 8.25 | 71.23 | 798.10 | 12.72 | 37.43 | -37.46 | 1.50 | 1.50 | 0.00 |
| 900.00 | 9.75 | 71.23 | 896.87 | 17.75 | 52.24 | -52.28 | 1.50 | 1.50 | 0.00 |
| 1,000.00 | 11.25 | 71.23 | 995.19 | 23.61 | 69.49 | -69.55 | 1.50 | 1.50 | 0.00 |
| 1,100.00 | 12.75 | 71.23 | 1,093.00 | 30.30 | 89.18 | -89.25 | 1.50 | 1.50 | 0.00 |
| 1,200.00 | 14.25 | 71.23 | 1,190.24 | 37.81 | 111.28 | -111.37 | 1.50 | 1.50 | 0.00 |
| 1,300.00 | 15.75 | 71.23 | 1,286.83 | 46.14 | 135.79 | -135.90 | 1.50 | 1.50 | 0.00 |
| 1,400.00 | 17.25 | 71.23 | 1,382.71 | 55.28 | 162.68 | -162.81 | 1.50 | 1.50 | 0.00 |
| 1,500.00 | 18.75 | 71.23 | 1,477.81 | 65.22 | 191.93 | -192.09 | 1.50 | 1.50 | 0.00 |
| 1,523.46 | 19.10 | 71.23 | 1,500.00 | 67.67 | 199.14 | -199.30 | 1.50 | 1.50 | 0.00 |
| 9 5/8" Csg | | | | | | | | | |
| 1,600.00 | 20.25 | 71.23 | 1,572.07 | 75.96 | 223.54 | -223.72 | 1.50 | 1.50 | 0.00 |
| 1,700.00 | 21.75 | 71.23 | 1,665.43 | 87.49 | 257.47 | -257.68 | 1.50 | 1.50 | 0.00 |
| 1,800.00 | 23.25 | 71.23 | 1,757.81 | 99.80 | 293.70 | -293.94 | 1.50 | 1.50 | 0.00 |
| 1,900.00 | 24.75 | 71.23 | 1,849.16 | 112.89 | 332.21 | -332.49 | 1.50 | 1.50 | 0.00 |
| 2,000.00 | 26.25 | 71.23 | 1,939.42 | 126.74 | 372.97 | -373.28 | 1.50 | 1.50 | 0.00 |
| 2,100.00 | 27.75 | 71.23 | 2,028.52 | 141.34 | 415.96 | -416.30 | 1.50 | 1.50 | 0.00 |
| 2,200.00 | 29.25 | 71.23 | 2,116.40 | 156.70 | 461.13 | -461.52 | 1.50 | 1.50 | 0.00 |
| 2,225.89 | 29.64 | 71.23 | 2,138.95 | 160.79 | 473.19 | -473.58 | 1.50 | 1.50 | 0.00 |
| HOLD TANGENT | | | | | | | | | |
| 2,300.00 | 29.64 | 71.23 | 2,203.36 | 172.58 | 507.88 | -508.30 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 29.64 | 71.23 | 2,290.27 | 188.49 | 554.71 | -555.17 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 29.64 | 71.23 | 2,377.19 | 204.40 | 601.53 | -602.03 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 29.64 | 71.23 | 2,464.10 | 220.31 | 648.35 | -648.89 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 29.64 | 71.23 | 2,551.02 | 236.22 | 695.18 | -695.75 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 29.64 | 71.23 | 2,637.94 | 252.14 | 742.00 | -742.61 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 29.64 | 71.23 | 2,724.85 | 268.05 | 788.82 | -789.48 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 29.64 | 71.23 | 2,811.77 | 283.96 | 835.65 | -836.34 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 29.64 | 71.23 | 2,898.69 | 299.87 | 882.47 | -883.20 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 29.64 | 71.23 | 2,985.60 | 315.78 | 929.29 | -930.06 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 29.64 | 71.23 | 3,072.52 | 331.69 | 976.11 | -976.92 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 29.64 | 71.23 | 3,159.44 | 347.60 | 1,022.94 | -1,023.78 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 29.64 | 71.23 | 3,246.35 | 363.51 | 1,069.76 | -1,070.65 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 29.64 | 71.23 | 3,333.27 | 379.42 | 1,116.58 | -1,117.51 | 0.00 | 0.00 | 0.00 |
| 3,689.43 | 29.64 | 71.23 | 3,411.00 | 393.65 | 1,158.46 | -1,159.42 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | |
| 3,700.00 | 29.64 | 71.23 | 3,420.18 | 395.33 | 1,163.41 | -1,164.37 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 29.64 | 71.23 | 3,507.10 | 411.24 | 1,210.23 | -1,211.23 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 29.64 | 71.23 | 3,594.02 | 427.15 | 1,257.05 | -1,258.09 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 29.64 | 71.23 | 3,680.93 | 443.06 | 1,303.88 | -1,304.95 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 29.64 | 71.23 | 3,767.85 | 458.97 | 1,350.70 | -1,351.82 | 0.00 | 0.00 | 0.00 |
| 4,199.12 | 29.64 | 71.23 | 3,854.00 | 474.74 | 1,397.11 | -1,398.27 | 0.00 | 0.00 | 0.00 |

Corporate Planning Report

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| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| Sussex | | | | | | | | | | |
| 4,200.00 | 29.64 | 71.23 | 3,854.77 | 474.88 | 1,397.52 | -1,398.68 | 0.00 | 0.00 | 0.00 | |
| 4,300.00 | 29.64 | 71.23 | 3,941.68 | 490.80 | 1,444.35 | -1,445.54 | 0.00 | 0.00 | 0.00 | |
| 4,400.00 | 29.64 | 71.23 | 4,028.60 | 506.71 | 1,491.17 | -1,492.40 | 0.00 | 0.00 | 0.00 | |
| 4,500.00 | 29.64 | 71.23 | 4,115.51 | 522.62 | 1,537.99 | -1,539.26 | 0.00 | 0.00 | 0.00 | |
| 4,600.00 | 29.64 | 71.23 | 4,202.43 | 538.53 | 1,584.81 | -1,586.13 | 0.00 | 0.00 | 0.00 | |
| 4,700.00 | 29.64 | 71.23 | 4,289.35 | 554.44 | 1,631.64 | -1,632.99 | 0.00 | 0.00 | 0.00 | |
| 4,800.00 | 29.64 | 71.23 | 4,376.26 | 570.35 | 1,678.46 | -1,679.85 | 0.00 | 0.00 | 0.00 | |
| 4,900.00 | 29.64 | 71.23 | 4,463.18 | 586.26 | 1,725.28 | -1,726.71 | 0.00 | 0.00 | 0.00 | |
| 5,000.00 | 29.64 | 71.23 | 4,550.10 | 602.17 | 1,772.11 | -1,773.57 | 0.00 | 0.00 | 0.00 | |
| 5,100.00 | 29.64 | 71.23 | 4,637.01 | 618.08 | 1,818.93 | -1,820.43 | 0.00 | 0.00 | 0.00 | |
| 5,200.00 | 29.64 | 71.23 | 4,723.93 | 633.99 | 1,865.75 | -1,867.30 | 0.00 | 0.00 | 0.00 | |
| 5,300.00 | 29.64 | 71.23 | 4,810.85 | 649.90 | 1,912.58 | -1,914.16 | 0.00 | 0.00 | 0.00 | |
| 5,400.00 | 29.64 | 71.23 | 4,897.76 | 665.81 | 1,959.40 | -1,961.02 | 0.00 | 0.00 | 0.00 | |
| 5,500.00 | 29.64 | 71.23 | 4,984.68 | 681.72 | 2,006.22 | -2,007.88 | 0.00 | 0.00 | 0.00 | |
| 5,600.00 | 29.64 | 71.23 | 5,071.59 | 697.63 | 2,053.04 | -2,054.74 | 0.00 | 0.00 | 0.00 | |
| 5,700.00 | 29.64 | 71.23 | 5,158.51 | 713.55 | 2,099.87 | -2,101.61 | 0.00 | 0.00 | 0.00 | |
| 5,800.00 | 29.64 | 71.23 | 5,245.43 | 729.46 | 2,146.69 | -2,148.47 | 0.00 | 0.00 | 0.00 | |
| 5,900.00 | 29.64 | 71.23 | 5,332.34 | 745.37 | 2,193.51 | -2,195.33 | 0.00 | 0.00 | 0.00 | |
| 6,000.00 | 29.64 | 71.23 | 5,419.26 | 761.28 | 2,240.34 | -2,242.19 | 0.00 | 0.00 | 0.00 | |
| 6,100.00 | 29.64 | 71.23 | 5,506.18 | 777.19 | 2,287.16 | -2,289.05 | 0.00 | 0.00 | 0.00 | |
| 6,200.00 | 29.64 | 71.23 | 5,593.09 | 793.10 | 2,333.98 | -2,335.91 | 0.00 | 0.00 | 0.00 | |
| 6,300.00 | 29.64 | 71.23 | 5,680.01 | 809.01 | 2,380.81 | -2,382.78 | 0.00 | 0.00 | 0.00 | |
| 6,400.00 | 29.64 | 71.23 | 5,766.93 | 824.92 | 2,427.63 | -2,429.64 | 0.00 | 0.00 | 0.00 | |
| 6,500.00 | 29.64 | 71.23 | 5,853.84 | 840.83 | 2,474.45 | -2,476.50 | 0.00 | 0.00 | 0.00 | |
| 6,600.00 | 29.64 | 71.23 | 5,940.76 | 856.74 | 2,521.28 | -2,523.36 | 0.00 | 0.00 | 0.00 | |
| 6,601.87 | 29.64 | 71.23 | 5,942.38 | 857.04 | 2,522.15 | -2,524.24 | 0.00 | 0.00 | 0.00 | |
| KOP DLS 8 | | | | | | | | | | |
| 6,700.00 | 22.50 | 63.72 | 6,030.50 | 873.19 | 2,562.02 | -2,564.15 | 8.00 | -7.27 | -7.66 | |
| 6,800.00 | 15.89 | 49.79 | 6,124.93 | 890.53 | 2,589.68 | -2,591.85 | 8.00 | -6.61 | -13.93 | |
| 6,900.00 | 11.19 | 21.44 | 6,222.23 | 908.43 | 2,603.70 | -2,605.92 | 8.00 | -4.70 | -28.34 | |
| 7,000.00 | 11.16 | 339.25 | 6,320.49 | 926.54 | 2,603.82 | -2,606.08 | 8.00 | -0.03 | -42.19 | |
| 7,100.00 | 15.82 | 310.70 | 6,417.81 | 944.51 | 2,590.04 | -2,592.34 | 8.00 | 4.66 | -28.55 | |
| 7,200.00 | 22.42 | 296.66 | 6,512.29 | 961.99 | 2,562.61 | -2,564.95 | 8.00 | 6.60 | -14.04 | |
| 7,300.00 | 29.69 | 288.99 | 6,602.09 | 978.63 | 2,522.08 | -2,524.46 | 8.00 | 7.27 | -7.67 | |
| 7,363.65 | 34.48 | 285.70 | 6,656.00 | 988.65 | 2,489.81 | -2,492.22 | 8.00 | 7.52 | -5.17 | |
| Sharon Springs | | | | | | | | | | |
| 7,400.00 | 37.24 | 284.16 | 6,685.46 | 994.12 | 2,469.23 | -2,471.66 | 8.00 | 7.61 | -4.23 | |
| 7,422.29 | 38.95 | 283.31 | 6,703.00 | 997.39 | 2,455.88 | -2,458.31 | 8.00 | 7.65 | -3.81 | |
| Niobrara | | | | | | | | | | |
| 7,491.87 | 44.30 | 281.02 | 6,755.00 | 1,007.08 | 2,410.70 | -2,413.16 | 8.00 | 7.70 | -3.30 | |
| Nio B | | | | | | | | | | |
| 7,500.00 | 44.93 | 280.78 | 6,760.78 | 1,008.16 | 2,405.10 | -2,407.56 | 8.00 | 7.73 | -2.94 | |
| 7,570.11 | 50.37 | 278.91 | 6,808.00 | 1,016.98 | 2,354.06 | -2,356.54 | 8.00 | 7.75 | -2.66 | |
| Nio C | | | | | | | | | | |
| 7,600.00 | 52.69 | 278.21 | 6,826.59 | 1,020.46 | 2,330.93 | -2,333.41 | 8.00 | 7.78 | -2.37 | |
| 7,700.00 | 60.50 | 276.12 | 6,881.60 | 1,030.79 | 2,248.16 | -2,250.67 | 8.00 | 7.81 | -2.09 | |
| 7,800.00 | 68.34 | 274.33 | 6,924.75 | 1,038.95 | 2,158.40 | -2,160.94 | 8.00 | 7.84 | -1.79 | |
| 7,868.46 | 73.71 | 273.22 | 6,947.00 | 1,043.21 | 2,093.82 | -2,096.37 | 8.00 | 7.85 | -1.62 | |
| Fort Hayes | | | | | | | | | | |
| 7,900.00 | 76.19 | 272.73 | 6,955.19 | 1,044.79 | 2,063.41 | -2,065.96 | 8.00 | 7.86 | -1.56 | |
| 7,959.42 | 80.86 | 271.83 | 6,967.00 | 1,047.10 | 2,005.24 | -2,007.80 | 8.00 | 7.86 | -1.51 | |
| Codell | | | | | | | | | | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well SBJ 13-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Site: | 4N-68W-13 SBJ 22-13HZ PAD | North Reference: | True |
| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| Planned Survey | | | | | | | | | |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,000.00 | 84.06 | 271.23 | 6,972.32 | 1,048.17 | 1,965.03 | -1,967.59 | 8.00 | 7.87 | -1.48 |
| 8,094.27 | 91.47 | 269.86 | 6,976.00 | 1,049.07 | 1,870.91 | -1,873.47 | 8.00 | 7.87 | -1.45 |
| LANDING POINT | | | | | | | | | |
| 8,100.00 | 91.47 | 269.86 | 6,975.85 | 1,049.06 | 1,865.18 | -1,867.74 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 91.47 | 269.86 | 6,973.28 | 1,048.82 | 1,765.21 | -1,767.77 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 91.47 | 269.86 | 6,970.71 | 1,048.58 | 1,665.24 | -1,667.80 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 91.47 | 269.86 | 6,968.15 | 1,048.34 | 1,565.28 | -1,567.84 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 91.47 | 269.86 | 6,965.58 | 1,048.10 | 1,465.31 | -1,467.87 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 91.47 | 269.86 | 6,963.01 | 1,047.86 | 1,365.34 | -1,367.90 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 91.47 | 269.86 | 6,960.44 | 1,047.62 | 1,265.38 | -1,267.93 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 91.47 | 269.86 | 6,957.87 | 1,047.38 | 1,165.41 | -1,167.97 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 91.47 | 269.86 | 6,955.30 | 1,047.14 | 1,065.44 | -1,068.00 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 91.47 | 269.86 | 6,952.73 | 1,046.90 | 965.48 | -968.03 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 91.47 | 269.86 | 6,950.16 | 1,046.66 | 865.51 | -868.07 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 91.47 | 269.86 | 6,947.59 | 1,046.42 | 765.54 | -768.10 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 91.47 | 269.86 | 6,945.02 | 1,046.18 | 665.58 | -668.13 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 91.47 | 269.86 | 6,942.45 | 1,045.94 | 565.61 | -568.17 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 91.47 | 269.86 | 6,939.89 | 1,045.70 | 465.64 | -468.20 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 91.47 | 269.86 | 6,937.32 | 1,045.46 | 365.68 | -368.23 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 91.47 | 269.86 | 6,934.75 | 1,045.22 | 265.71 | -268.26 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 91.47 | 269.86 | 6,932.18 | 1,044.98 | 165.74 | -168.30 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 91.47 | 269.86 | 6,929.61 | 1,044.74 | 65.78 | -68.33 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 91.47 | 269.86 | 6,927.04 | 1,044.50 | -34.19 | 31.64 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 91.47 | 269.86 | 6,924.47 | 1,044.26 | -134.16 | 131.60 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 91.47 | 269.86 | 6,921.90 | 1,044.02 | -234.12 | 231.57 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 91.47 | 269.86 | 6,919.33 | 1,043.77 | -334.09 | 331.54 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 91.47 | 269.86 | 6,916.76 | 1,043.53 | -434.06 | 431.50 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 91.47 | 269.86 | 6,914.19 | 1,043.29 | -534.02 | 531.47 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 91.47 | 269.86 | 6,911.63 | 1,043.05 | -633.99 | 631.44 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 91.47 | 269.86 | 6,909.06 | 1,042.81 | -733.96 | 731.41 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 91.47 | 269.86 | 6,906.49 | 1,042.57 | -833.92 | 831.37 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 91.47 | 269.86 | 6,903.92 | 1,042.33 | -933.89 | 931.34 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 91.47 | 269.86 | 6,901.35 | 1,042.09 | -1,033.86 | 1,031.31 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 91.47 | 269.86 | 6,898.78 | 1,041.85 | -1,133.82 | 1,131.27 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 91.47 | 269.86 | 6,896.21 | 1,041.61 | -1,233.79 | 1,231.24 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 91.47 | 269.86 | 6,893.64 | 1,041.37 | -1,333.76 | 1,331.21 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 91.47 | 269.86 | 6,891.07 | 1,041.13 | -1,433.72 | 1,431.17 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 91.47 | 269.86 | 6,888.50 | 1,040.89 | -1,533.69 | 1,531.14 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 91.47 | 269.86 | 6,885.93 | 1,040.65 | -1,633.66 | 1,631.11 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 91.47 | 269.86 | 6,883.37 | 1,040.41 | -1,733.62 | 1,731.08 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 91.47 | 269.86 | 6,880.80 | 1,040.17 | -1,833.59 | 1,831.04 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 91.47 | 269.86 | 6,878.23 | 1,039.93 | -1,933.56 | 1,931.01 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 91.47 | 269.86 | 6,875.66 | 1,039.69 | -2,033.52 | 2,030.98 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 91.47 | 269.86 | 6,873.09 | 1,039.45 | -2,133.49 | 2,130.94 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 91.47 | 269.86 | 6,870.52 | 1,039.21 | -2,233.46 | 2,230.91 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 91.47 | 269.86 | 6,867.95 | 1,038.97 | -2,333.42 | 2,330.88 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 91.47 | 269.86 | 6,865.38 | 1,038.73 | -2,433.39 | 2,430.84 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 91.47 | 269.86 | 6,862.81 | 1,038.49 | -2,533.36 | 2,530.81 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 91.47 | 269.86 | 6,860.24 | 1,038.25 | -2,633.32 | 2,630.78 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 91.47 | 269.86 | 6,857.67 | 1,038.01 | -2,733.29 | 2,730.75 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 91.47 | 269.86 | 6,855.11 | 1,037.77 | -2,833.26 | 2,830.71 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 91.47 | 269.86 | 6,852.54 | 1,037.53 | -2,933.22 | 2,930.68 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 91.47 | 269.86 | 6,849.97 | 1,037.29 | -3,033.19 | 3,030.65 | 0.00 | 0.00 | 0.00 |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well SBJ 13-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Site: | 4N-68W-13 SBJ 22-13HZ PAD | North Reference: | True |
| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| Planned Survey | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 13,100.00 | 91.47 | 269.86 | 6,847.40 | 1,037.05 | -3,133.16 | 3,130.61 | 0.00 | 0.00 | 0.00 | |
| 13,200.00 | 91.47 | 269.86 | 6,844.83 | 1,036.81 | -3,233.12 | 3,230.58 | 0.00 | 0.00 | 0.00 | |
| 13,300.00 | 91.47 | 269.86 | 6,842.26 | 1,036.57 | -3,333.09 | 3,330.55 | 0.00 | 0.00 | 0.00 | |
| 13,400.00 | 91.47 | 269.86 | 6,839.69 | 1,036.33 | -3,433.06 | 3,430.51 | 0.00 | 0.00 | 0.00 | |
| 13,500.00 | 91.47 | 269.86 | 6,837.12 | 1,036.09 | -3,533.02 | 3,530.48 | 0.00 | 0.00 | 0.00 | |
| 13,600.00 | 91.47 | 269.86 | 6,834.55 | 1,035.85 | -3,632.99 | 3,630.45 | 0.00 | 0.00 | 0.00 | |
| 13,700.00 | 91.47 | 269.86 | 6,831.98 | 1,035.61 | -3,732.96 | 3,730.42 | 0.00 | 0.00 | 0.00 | |
| 13,800.00 | 91.47 | 269.86 | 6,829.41 | 1,035.37 | -3,832.92 | 3,830.38 | 0.00 | 0.00 | 0.00 | |
| 13,900.00 | 91.47 | 269.86 | 6,826.85 | 1,035.13 | -3,932.89 | 3,930.35 | 0.00 | 0.00 | 0.00 | |
| 14,000.00 | 91.47 | 269.86 | 6,824.28 | 1,034.89 | -4,032.86 | 4,030.32 | 0.00 | 0.00 | 0.00 | |
| 14,100.00 | 91.47 | 269.86 | 6,821.71 | 1,034.65 | -4,132.82 | 4,130.28 | 0.00 | 0.00 | 0.00 | |
| 14,200.00 | 91.47 | 269.86 | 6,819.14 | 1,034.41 | -4,232.79 | 4,230.25 | 0.00 | 0.00 | 0.00 | |
| 14,300.00 | 91.47 | 269.86 | 6,816.57 | 1,034.17 | -4,332.76 | 4,330.22 | 0.00 | 0.00 | 0.00 | |
| 14,400.00 | 91.47 | 269.86 | 6,814.00 | 1,033.93 | -4,432.72 | 4,430.18 | 0.00 | 0.00 | 0.00 | |
| 14,500.00 | 91.47 | 269.86 | 6,811.43 | 1,033.69 | -4,532.69 | 4,530.15 | 0.00 | 0.00 | 0.00 | |
| 14,600.00 | 91.47 | 269.86 | 6,808.86 | 1,033.45 | -4,632.66 | 4,630.12 | 0.00 | 0.00 | 0.00 | |
| 14,700.00 | 91.47 | 269.86 | 6,806.29 | 1,033.21 | -4,732.62 | 4,730.09 | 0.00 | 0.00 | 0.00 | |
| 14,800.00 | 91.47 | 269.86 | 6,803.72 | 1,032.97 | -4,832.59 | 4,830.05 | 0.00 | 0.00 | 0.00 | |
| 14,900.00 | 91.47 | 269.86 | 6,801.15 | 1,032.73 | -4,932.56 | 4,930.02 | 0.00 | 0.00 | 0.00 | |
| 15,000.00 | 91.47 | 269.86 | 6,798.59 | 1,032.49 | -5,032.52 | 5,029.99 | 0.00 | 0.00 | 0.00 | |
| 15,100.00 | 91.47 | 269.86 | 6,796.02 | 1,032.25 | -5,132.49 | 5,129.95 | 0.00 | 0.00 | 0.00 | |
| 15,200.00 | 91.47 | 269.86 | 6,793.45 | 1,032.01 | -5,232.46 | 5,229.92 | 0.00 | 0.00 | 0.00 | |
| 15,300.00 | 91.47 | 269.86 | 6,790.88 | 1,031.77 | -5,332.42 | 5,329.89 | 0.00 | 0.00 | 0.00 | |
| 15,400.00 | 91.47 | 269.86 | 6,788.31 | 1,031.53 | -5,432.39 | 5,429.85 | 0.00 | 0.00 | 0.00 | |
| 15,500.00 | 91.47 | 269.86 | 6,785.74 | 1,031.29 | -5,532.36 | 5,529.82 | 0.00 | 0.00 | 0.00 | |
| 15,600.00 | 91.47 | 269.86 | 6,783.17 | 1,031.05 | -5,632.32 | 5,629.79 | 0.00 | 0.00 | 0.00 | |
| 15,700.00 | 91.47 | 269.86 | 6,780.60 | 1,030.81 | -5,732.29 | 5,729.76 | 0.00 | 0.00 | 0.00 | |
| 15,800.00 | 91.47 | 269.86 | 6,778.03 | 1,030.57 | -5,832.26 | 5,829.72 | 0.00 | 0.00 | 0.00 | |
| 15,900.00 | 91.47 | 269.86 | 6,775.46 | 1,030.33 | -5,932.22 | 5,929.69 | 0.00 | 0.00 | 0.00 | |
| 16,000.00 | 91.47 | 269.86 | 6,772.89 | 1,030.09 | -6,032.19 | 6,029.66 | 0.00 | 0.00 | 0.00 | |
| 16,100.00 | 91.47 | 269.86 | 6,770.33 | 1,029.85 | -6,132.16 | 6,129.62 | 0.00 | 0.00 | 0.00 | |
| 16,200.00 | 91.47 | 269.86 | 6,767.76 | 1,029.61 | -6,232.12 | 6,229.59 | 0.00 | 0.00 | 0.00 | |
| 16,300.00 | 91.47 | 269.86 | 6,765.19 | 1,029.37 | -6,332.09 | 6,329.56 | 0.00 | 0.00 | 0.00 | |
| 16,400.00 | 91.47 | 269.86 | 6,762.62 | 1,029.13 | -6,432.06 | 6,429.52 | 0.00 | 0.00 | 0.00 | |
| 16,500.00 | 91.47 | 269.86 | 6,760.05 | 1,028.89 | -6,532.03 | 6,529.49 | 0.00 | 0.00 | 0.00 | |
| 16,600.00 | 91.47 | 269.86 | 6,757.48 | 1,028.65 | -6,631.99 | 6,629.46 | 0.00 | 0.00 | 0.00 | |
| 16,700.00 | 91.47 | 269.86 | 6,754.91 | 1,028.41 | -6,731.96 | 6,729.43 | 0.00 | 0.00 | 0.00 | |
| 16,800.00 | 91.47 | 269.86 | 6,752.34 | 1,028.17 | -6,831.93 | 6,829.39 | 0.00 | 0.00 | 0.00 | |
| 16,900.00 | 91.47 | 269.86 | 6,749.77 | 1,027.93 | -6,931.89 | 6,929.36 | 0.00 | 0.00 | 0.00 | |
| 17,000.00 | 91.47 | 269.86 | 6,747.20 | 1,027.69 | -7,031.86 | 7,029.33 | 0.00 | 0.00 | 0.00 | |
| 17,100.00 | 91.47 | 269.86 | 6,744.63 | 1,027.45 | -7,131.83 | 7,129.29 | 0.00 | 0.00 | 0.00 | |
| 17,200.00 | 91.47 | 269.86 | 6,742.07 | 1,027.21 | -7,231.79 | 7,229.26 | 0.00 | 0.00 | 0.00 | |
| 17,300.00 | 91.47 | 269.86 | 6,739.50 | 1,026.97 | -7,331.76 | 7,329.23 | 0.00 | 0.00 | 0.00 | |
| 17,400.00 | 91.47 | 269.86 | 6,736.93 | 1,026.73 | -7,431.73 | 7,429.19 | 0.00 | 0.00 | 0.00 | |
| 17,500.00 | 91.47 | 269.86 | 6,734.36 | 1,026.49 | -7,531.69 | 7,529.16 | 0.00 | 0.00 | 0.00 | |
| 17,600.00 | 91.47 | 269.86 | 6,731.79 | 1,026.25 | -7,631.66 | 7,629.13 | 0.00 | 0.00 | 0.00 | |
| 17,700.00 | 91.47 | 269.86 | 6,729.22 | 1,026.01 | -7,731.63 | 7,729.10 | 0.00 | 0.00 | 0.00 | |
| 17,800.00 | 91.47 | 269.86 | 6,726.65 | 1,025.77 | -7,831.59 | 7,829.06 | 0.00 | 0.00 | 0.00 | |
| 17,900.00 | 91.47 | 269.86 | 6,724.08 | 1,025.53 | -7,931.56 | 7,929.03 | 0.00 | 0.00 | 0.00 | |
| 18,000.00 | 91.47 | 269.86 | 6,721.51 | 1,025.29 | -8,031.53 | 8,029.00 | 0.00 | 0.00 | 0.00 | |
| 18,100.00 | 91.47 | 269.86 | 6,718.94 | 1,025.05 | -8,131.49 | 8,128.96 | 0.00 | 0.00 | 0.00 | |
| 18,200.00 | 91.47 | 269.86 | 6,716.37 | 1,024.81 | -8,231.46 | 8,228.93 | 0.00 | 0.00 | 0.00 | |
| 18,300.00 | 91.47 | 269.86 | 6,713.81 | 1,024.57 | -8,331.43 | 8,328.90 | 0.00 | 0.00 | 0.00 | |
| 18,400.00 | 91.47 | 269.86 | 6,711.24 | 1,024.32 | -8,431.39 | 8,428.86 | 0.00 | 0.00 | 0.00 | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well SBJ 13-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Site: | 4N-68W-13 SBJ 22-13HZ PAD | North Reference: | True |
| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 18,500.00 | 91.47 | 269.86 | 6,708.67 | 1,024.08 | -8,531.36 | 8,528.83 | 0.00 | 0.00 | 0.00 |
| 18,600.00 | 91.47 | 269.86 | 6,706.10 | 1,023.84 | -8,631.33 | 8,628.80 | 0.00 | 0.00 | 0.00 |
| 18,700.00 | 91.47 | 269.86 | 6,703.53 | 1,023.60 | -8,731.29 | 8,728.77 | 0.00 | 0.00 | 0.00 |
| 18,800.00 | 91.47 | 269.86 | 6,700.96 | 1,023.36 | -8,831.26 | 8,828.73 | 0.00 | 0.00 | 0.00 |
| 18,900.00 | 91.47 | 269.86 | 6,698.39 | 1,023.12 | -8,931.23 | 8,928.70 | 0.00 | 0.00 | 0.00 |
| 19,000.00 | 91.47 | 269.86 | 6,695.82 | 1,022.88 | -9,031.19 | 9,028.67 | 0.00 | 0.00 | 0.00 |
| 19,100.00 | 91.47 | 269.86 | 6,693.25 | 1,022.64 | -9,131.16 | 9,128.63 | 0.00 | 0.00 | 0.00 |
| 19,200.00 | 91.47 | 269.86 | 6,690.68 | 1,022.40 | -9,231.13 | 9,228.60 | 0.00 | 0.00 | 0.00 |
| 19,300.00 | 91.47 | 269.86 | 6,688.11 | 1,022.16 | -9,331.09 | 9,328.57 | 0.00 | 0.00 | 0.00 |
| 19,400.00 | 91.47 | 269.86 | 6,685.55 | 1,021.92 | -9,431.06 | 9,428.53 | 0.00 | 0.00 | 0.00 |
| 19,500.00 | 91.47 | 269.86 | 6,682.98 | 1,021.68 | -9,531.03 | 9,528.50 | 0.00 | 0.00 | 0.00 |
| 19,600.00 | 91.47 | 269.86 | 6,680.41 | 1,021.44 | -9,630.99 | 9,628.47 | 0.00 | 0.00 | 0.00 |
| 19,700.00 | 91.47 | 269.86 | 6,677.84 | 1,021.20 | -9,730.96 | 9,728.44 | 0.00 | 0.00 | 0.00 |
| 19,800.00 | 91.47 | 269.86 | 6,675.27 | 1,020.96 | -9,830.93 | 9,828.40 | 0.00 | 0.00 | 0.00 |
| 19,900.00 | 91.47 | 269.86 | 6,672.70 | 1,020.72 | -9,930.89 | 9,928.37 | 0.00 | 0.00 | 0.00 |
| 20,000.00 | 91.47 | 269.86 | 6,670.13 | 1,020.48 | -10,030.86 | 10,028.34 | 0.00 | 0.00 | 0.00 |
| 20,100.00 | 91.47 | 269.86 | 6,667.56 | 1,020.24 | -10,130.83 | 10,128.30 | 0.00 | 0.00 | 0.00 |
| 20,200.00 | 91.47 | 269.86 | 6,664.99 | 1,020.00 | -10,230.79 | 10,228.27 | 0.00 | 0.00 | 0.00 |
| 20,300.00 | 91.47 | 269.86 | 6,662.42 | 1,019.76 | -10,330.76 | 10,328.24 | 0.00 | 0.00 | 0.00 |
| 20,400.00 | 91.47 | 269.86 | 6,659.85 | 1,019.52 | -10,430.73 | 10,428.20 | 0.00 | 0.00 | 0.00 |
| 20,500.00 | 91.47 | 269.86 | 6,657.29 | 1,019.28 | -10,530.69 | 10,528.17 | 0.00 | 0.00 | 0.00 |
| 20,600.00 | 91.47 | 269.86 | 6,654.72 | 1,019.04 | -10,630.66 | 10,628.14 | 0.00 | 0.00 | 0.00 |
| 20,700.00 | 91.47 | 269.86 | 6,652.15 | 1,018.80 | -10,730.63 | 10,728.11 | 0.00 | 0.00 | 0.00 |
| 20,800.00 | 91.47 | 269.86 | 6,649.58 | 1,018.56 | -10,830.59 | 10,828.07 | 0.00 | 0.00 | 0.00 |
| 20,900.00 | 91.47 | 269.86 | 6,647.01 | 1,018.32 | -10,930.56 | 10,928.04 | 0.00 | 0.00 | 0.00 |
| 21,000.00 | 91.47 | 269.86 | 6,644.44 | 1,018.08 | -11,030.53 | 11,028.01 | 0.00 | 0.00 | 0.00 |
| 21,100.00 | 91.47 | 269.86 | 6,641.87 | 1,017.84 | -11,130.49 | 11,127.97 | 0.00 | 0.00 | 0.00 |
| 21,200.00 | 91.47 | 269.86 | 6,639.30 | 1,017.60 | -11,230.46 | 11,227.94 | 0.00 | 0.00 | 0.00 |
| 21,250.67 | 91.47 | 269.86 | 6,638.00 | 1,017.48 | -11,281.11 | 11,278.59 | 0.00 | 0.00 | 0.00 |
| TD at 21250.67 | | | | | | | | | |

| Design Targets | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| SBJ 13-6HZ BHL - hit/miss target - Shape - Point | 0.00 | 0.00 | 6,638.00 | 1,017.48 | -11,281.11 | 14,642,443.00 | 1,641,163.00 | 40.317752 | -104.997323 |
| SBJ 13-6HZ LP - plan hits target center - Point | 0.00 | 0.00 | 6,976.00 | 1,049.07 | 1,870.91 | 14,642,481.00 | 1,654,315.00 | 40.317846 | -104.950140 |

| Casing Points | | | | | |
|-----------------------|-----------------------|------------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 1,523.46 | 1,500.00 | 9 5/8" Csg | 9-5/8 | 13-1/2 | |
| 21,250.67 | 6,638.00 | 5 1/2" Csg | 5-1/2 | 7-7/8 | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well SBJ 13-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4876.00usft (Drilling Rig) |
| Site: | 4N-68W-13 SBJ 22-13HZ PAD | North Reference: | True |
| Well: | SBJ 13-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan C | | |
| Design: | PERMIT REV-2 | | |

| Formations | | | | | |
|-----------------------|-----------------------|----------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 556.33 | 556.00 | Fox Hills | | | |
| 3,689.43 | 3,411.00 | Parkman | | | |
| 4,199.12 | 3,854.00 | Sussex | | | |
| 7,363.65 | 6,656.00 | Sharon Springs | | | |
| 7,422.29 | 6,703.00 | Niobrara | | | |
| 7,491.87 | 6,755.00 | Nio B | | | |
| 7,570.11 | 6,808.00 | Nio C | | | |
| 7,868.46 | 6,947.00 | Fort Hayes | | | |
| 7,959.42 | 6,967.00 | Codell | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|---------|------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 250.00 | 250.00 | 0.00 | 0.00 | | Start Build 1.50 |
| 2,225.89 | 2,138.95 | 160.79 | 473.19 | | HOLD TANGENT |
| 6,601.87 | 5,942.38 | 857.04 | 2,522.15 | | KOP DLS 8 |
| 8,094.27 | 6,976.00 | 1,049.07 | 1,870.91 | | LANDING POINT |
| 21,250.67 | 6,638.00 | 1,017.48 | -11,281.11 | | TD at 21250.67 |