

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
5N-67W-18 DAMORE 5-18HZ PAD
DAMORE 18-6HZ**

Plan A

Plan: Permit Rev-3

SHL Lat/Long: 40.400854°/-104.942177°
Survey Program: MWD+IFR+MSA

Standard Planning Report

31 December, 2018

Project: WELD-NAD83-UTMFT13N
 Site: 5N-67W-18 DAMORE 5-18HZ PAD
 Well: DAMORE 18-6HZ
 Wellbore: Plan A
 Design: Permit Rev-3

US ROCKIES WATTENBERG PLANNING

| CASING DETAILS | | |
|----------------|---------|-------|
| TVD | MD | Size |
| 1500.00 | 1526.50 | 9-5/8 |
| 7176.00 | 7862.23 | 5-1/2 |

WELL DETAILS: DAMORE 18-6HZ
 GL = 4922.00
 RKB = 17' @ 4939.00usft (Drilling Rig)

SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Target |
|-----|----------|-------|--------|---------|---------|----------|------|--------|----------|-------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1695.33 | 22.43 | 239.00 | 1657.43 | -148.83 | -247.70 | 1.50 | 239.00 | -248.27 | |
| 4 | 4495.33 | 22.43 | 239.00 | 4245.60 | -699.08 | -1163.46 | 0.00 | 0.00 | -1166.13 | |
| 5 | 5616.83 | 0.00 | 0.00 | 5338.67 | -810.70 | -1349.23 | 2.00 | 180.00 | -1352.34 | |
| 6 | 6737.96 | 0.00 | 0.00 | 6459.80 | -810.70 | -1349.23 | 0.00 | 0.00 | -1352.34 | |
| 7 | 7862.23 | 89.94 | 89.78 | 7176.00 | -807.95 | -633.77 | 8.00 | 89.78 | -636.86 | |
| 8 | 17734.57 | 89.94 | 89.78 | 7186.00 | -769.99 | 9238.49 | 0.00 | 0.00 | 9235.46 | DAMORE 18-6HZ_BHL |

SHL
2224' FNL
700' FWL

HEEL
2253' FSL
75' FWL

TOE
2313' FSL
471' FEL

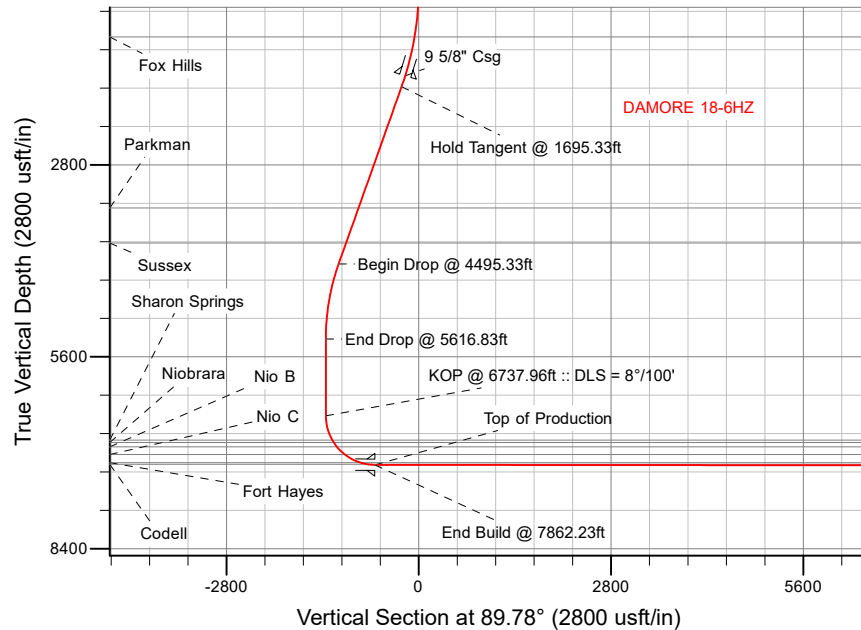
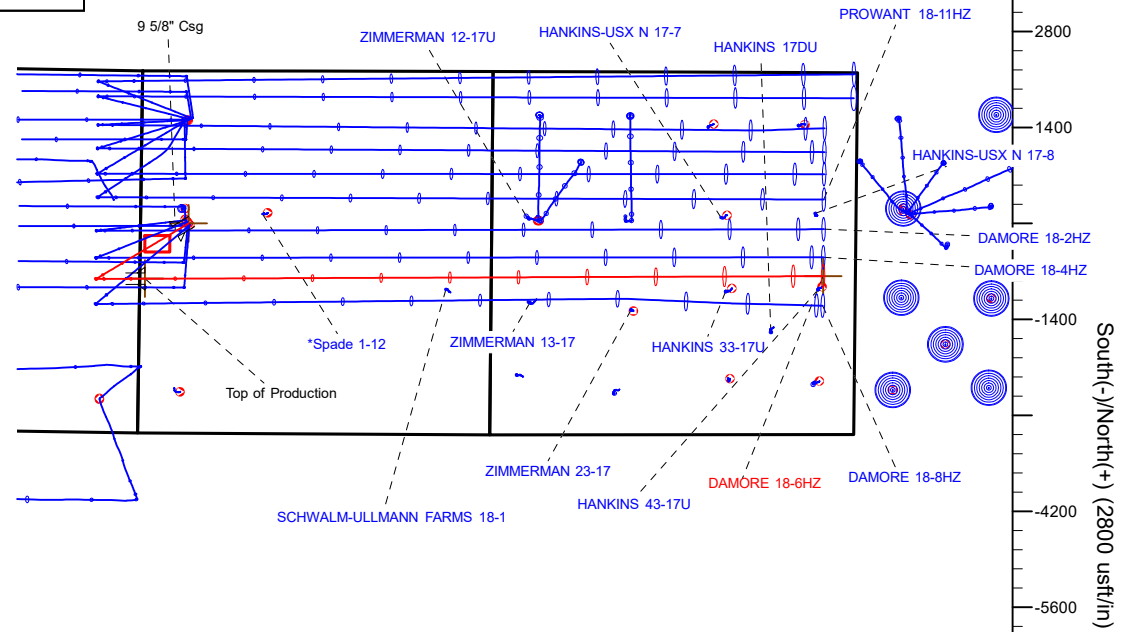
WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|-------------------|---------|---------|---------|-----------|-------------|
| DAMORE 18-6HZ_SHL | 0.00 | 0.00 | 0.00 | 40.400854 | -104.942177 |
| DAMORE 18-6HZ_BHL | 7186.00 | -769.99 | 9238.49 | 40.398735 | -104.908995 |

FORMATION TOP DETAILS

| TVDPATH | MDPATH | FORMATION |
|---------|---------|----------------|
| 932.00 | 936.56 | Fox Hills |
| 3428.00 | 3610.82 | Parkman |
| 3939.00 | 4163.64 | Sussex |
| 6816.00 | 7110.77 | Sharon Springs |
| 6852.00 | 7153.00 | Niobrara |
| 6914.00 | 7229.95 | Nio B |
| 7024.00 | 7387.68 | Nio C |
| 7147.00 | 7658.46 | Fort Hayes |
| 7169.00 | 7762.76 | Codell |

West(-)/East(+) (2800 usft/in)



Plan: Permit Rev-3 (DAMORE 18-6HZ/Plan A)

Date: 12/31/2018

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

| | | | |
|--------------------|--|----------------------|----------------|
| 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 | 5N-67W-18 DAMORE 5-18HZ PAD | | | | |
| Site Position: | | Northing: | 14,672,768.45 usft | Latitude: | 40.401012 |
| From: | Lat/Long | Easting: | 1,656,467.04 usft | Longitude: | -104.942349 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.04 ° |

| | | | | | | |
|-----------------------------|---------------|-------------|----------------------------|--------------------|----------------------|---------------|
| Well | DAMORE 18-6HZ | | | | | |
| Well Position | +N-S | -57.54 usft | Northing: | 14,672,710.94 usft | Latitude: | 40.400854 |
| | +E-W | 47.89 usft | Easting: | 1,656,514.96 usft | Longitude: | -104.942177 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | | Ground Level: | 4,922.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Plan A | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 9/21/2018 | 8.17 | 66.80 | 52,229.21651326 |

| | | | | |
|--------------------------|--------------------------------|--------------------|----------------------|----------------------|
| Design | Permit Rev-3 | | | |
| 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 | 89.78 |

| | | | | | |
|---------------------------------|------------------------|--------------------------|-----------------------|---|--|
| Plan Survey Tool Program | Date | 12/30/2018 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 1,500.00 | Permit Rev-3 (Plan A) | APC_ISCWSA REV 2 MWD+I Fixed:v2:crustal field declinatio | |
| 2 | 1,500.00 | 17,734.57 | Permit Rev-3 (Plan A) | APC_ISCWSA REV 2 MWD+I Fixed:v2:Rockies, crustal dec + | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

| 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 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,695.33 | 22.43 | 239.00 | 1,657.43 | -148.83 | -247.70 | 1.50 | 1.50 | 0.00 | 239.00 | |
| 4,495.33 | 22.43 | 239.00 | 4,245.60 | -699.08 | -1,163.46 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,616.83 | 0.00 | 0.00 | 5,338.67 | -810.70 | -1,349.23 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,737.96 | 0.00 | 0.00 | 6,459.80 | -810.70 | -1,349.23 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,862.23 | 89.94 | 89.78 | 7,176.00 | -807.95 | -633.77 | 8.00 | 8.00 | 7.99 | 89.78 | |
| 17,734.57 | 89.94 | 89.78 | 7,186.00 | -769.99 | 9,238.49 | 0.00 | 0.00 | 0.00 | 0.00 | DAMORE 18-6HZ_BH |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

| 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 | 0.00 |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 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 | 0.00 |
| Begin Nudge @ 200.00ft | | | | | | | | | | |
| 300.00 | 1.50 | 239.00 | 299.99 | -0.67 | -1.12 | -1.12 | 1.50 | 1.50 | 0.00 | 0.00 |
| 400.00 | 3.00 | 239.00 | 399.91 | -2.70 | -4.49 | -4.50 | 1.50 | 1.50 | 0.00 | 0.00 |
| 500.00 | 4.50 | 239.00 | 499.69 | -6.06 | -10.09 | -10.12 | 1.50 | 1.50 | 0.00 | 0.00 |
| 600.00 | 6.00 | 239.00 | 599.27 | -10.78 | -17.94 | -17.98 | 1.50 | 1.50 | 0.00 | 0.00 |
| 700.00 | 7.50 | 239.00 | 698.57 | -16.83 | -28.01 | -28.08 | 1.50 | 1.50 | 0.00 | 0.00 |
| 800.00 | 9.00 | 239.00 | 797.54 | -24.22 | -40.31 | -40.40 | 1.50 | 1.50 | 0.00 | 0.00 |
| 900.00 | 10.50 | 239.00 | 896.09 | -32.94 | -54.83 | -54.95 | 1.50 | 1.50 | 0.00 | 0.00 |
| 936.56 | 11.05 | 239.00 | 932.00 | -36.46 | -60.68 | -60.82 | 1.50 | 1.50 | 0.00 | 0.00 |
| Fox Hills | | | | | | | | | | |
| 1,000.00 | 12.00 | 239.00 | 994.16 | -42.99 | -71.55 | -71.71 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,100.00 | 13.50 | 239.00 | 1,091.70 | -54.36 | -90.46 | -90.67 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,200.00 | 15.00 | 239.00 | 1,188.62 | -67.03 | -111.56 | -111.82 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,300.00 | 16.50 | 239.00 | 1,284.86 | -81.01 | -134.83 | -135.14 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,400.00 | 18.00 | 239.00 | 1,380.36 | -96.29 | -160.25 | -160.62 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,500.00 | 19.50 | 239.00 | 1,475.05 | -112.84 | -187.80 | -188.23 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,526.50 | 19.90 | 239.00 | 1,500.00 | -117.44 | -195.46 | -195.91 | 1.50 | 1.50 | 0.00 | 0.00 |
| 9 5/8" Csg | | | | | | | | | | |
| 1,600.00 | 21.00 | 239.00 | 1,568.86 | -130.67 | -217.47 | -217.97 | 1.50 | 1.50 | 0.00 | 0.00 |
| 1,695.33 | 22.43 | 239.00 | 1,657.43 | -148.83 | -247.70 | -248.27 | 1.50 | 1.50 | 0.00 | 0.00 |
| Hold Tangent @ 1695.33ft | | | | | | | | | | |
| 1,700.00 | 22.43 | 239.00 | 1,661.74 | -149.75 | -249.23 | -249.80 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,800.00 | 22.43 | 239.00 | 1,754.18 | -169.40 | -281.93 | -282.58 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 22.43 | 239.00 | 1,846.61 | -189.05 | -314.64 | -315.36 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 22.43 | 239.00 | 1,939.05 | -208.70 | -347.34 | -348.14 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 22.43 | 239.00 | 2,031.48 | -228.36 | -380.05 | -380.92 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 22.43 | 239.00 | 2,123.92 | -248.01 | -412.75 | -413.70 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 22.43 | 239.00 | 2,216.35 | -267.66 | -445.46 | -446.48 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 22.43 | 239.00 | 2,308.79 | -287.31 | -478.17 | -479.27 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 22.43 | 239.00 | 2,401.22 | -306.96 | -510.87 | -512.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 22.43 | 239.00 | 2,493.66 | -326.61 | -543.58 | -544.83 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 22.43 | 239.00 | 2,586.09 | -346.27 | -576.28 | -577.61 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 22.43 | 239.00 | 2,678.53 | -365.92 | -608.99 | -610.39 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 22.43 | 239.00 | 2,770.96 | -385.57 | -641.69 | -643.17 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 22.43 | 239.00 | 2,863.39 | -405.22 | -674.40 | -675.95 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 22.43 | 239.00 | 2,955.83 | -424.87 | -707.11 | -708.73 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 22.43 | 239.00 | 3,048.26 | -444.52 | -739.81 | -741.51 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 22.43 | 239.00 | 3,140.70 | -464.17 | -772.52 | -774.29 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 22.43 | 239.00 | 3,233.13 | -483.83 | -805.22 | -807.07 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 22.43 | 239.00 | 3,325.57 | -503.48 | -837.93 | -839.85 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 22.43 | 239.00 | 3,418.00 | -523.13 | -870.63 | -872.64 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,610.82 | 22.43 | 239.00 | 3,428.00 | -525.25 | -874.17 | -876.18 | 0.00 | 0.00 | 0.00 | 0.00 |
| Parkman | | | | | | | | | | |
| 3,700.00 | 22.43 | 239.00 | 3,510.44 | -542.78 | -903.34 | -905.42 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 22.43 | 239.00 | 3,602.87 | -562.43 | -936.04 | -938.20 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 22.43 | 239.00 | 3,695.31 | -582.08 | -968.75 | -970.98 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 22.43 | 239.00 | 3,787.74 | -601.74 | -1,001.46 | -1,003.76 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 22.43 | 239.00 | 3,880.18 | -621.39 | -1,034.16 | -1,036.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 4,163.64 | 22.43 | 239.00 | 3,939.00 | -633.89 | -1,054.97 | -1,057.40 | 0.00 | 0.00 | 0.00 | 0.00 |
| Sussex | | | | | | | | | | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

| 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) | |
| 4,200.00 | 22.43 | 239.00 | 3,972.61 | -641.04 | -1,066.87 | -1,069.32 | 0.00 | 0.00 | 0.00 | |
| 4,300.00 | 22.43 | 239.00 | 4,065.04 | -660.69 | -1,099.57 | -1,102.10 | 0.00 | 0.00 | 0.00 | |
| 4,400.00 | 22.43 | 239.00 | 4,157.48 | -680.34 | -1,132.28 | -1,134.88 | 0.00 | 0.00 | 0.00 | |
| 4,495.33 | 22.43 | 239.00 | 4,245.60 | -699.08 | -1,163.46 | -1,166.13 | 0.00 | 0.00 | 0.00 | |
| Begin Drop @ 4495.33ft | | | | | | | | | | |
| 4,500.00 | 22.34 | 239.00 | 4,249.92 | -699.99 | -1,164.98 | -1,167.66 | 2.00 | -2.00 | 0.00 | |
| 4,600.00 | 20.34 | 239.00 | 4,343.06 | -718.73 | -1,196.17 | -1,198.92 | 2.00 | -2.00 | 0.00 | |
| 4,700.00 | 18.34 | 239.00 | 4,437.41 | -735.78 | -1,224.55 | -1,227.36 | 2.00 | -2.00 | 0.00 | |
| 4,800.00 | 16.34 | 239.00 | 4,532.86 | -751.13 | -1,250.09 | -1,252.96 | 2.00 | -2.00 | 0.00 | |
| 4,900.00 | 14.34 | 239.00 | 4,629.30 | -764.75 | -1,272.76 | -1,275.69 | 2.00 | -2.00 | 0.00 | |
| 5,000.00 | 12.34 | 239.00 | 4,726.60 | -776.63 | -1,292.53 | -1,295.50 | 2.00 | -2.00 | 0.00 | |
| 5,100.00 | 10.34 | 239.00 | 4,824.64 | -786.75 | -1,309.38 | -1,312.39 | 2.00 | -2.00 | 0.00 | |
| 5,200.00 | 8.34 | 239.00 | 4,923.31 | -795.11 | -1,323.28 | -1,326.33 | 2.00 | -2.00 | 0.00 | |
| 5,300.00 | 6.34 | 239.00 | 5,022.49 | -801.69 | -1,334.23 | -1,337.30 | 2.00 | -2.00 | 0.00 | |
| 5,400.00 | 4.34 | 239.00 | 5,122.05 | -806.48 | -1,342.20 | -1,345.29 | 2.00 | -2.00 | 0.00 | |
| 5,500.00 | 2.34 | 239.00 | 5,221.87 | -809.47 | -1,347.19 | -1,350.29 | 2.00 | -2.00 | 0.00 | |
| 5,600.00 | 0.34 | 239.00 | 5,321.84 | -810.68 | -1,349.19 | -1,352.29 | 2.00 | -2.00 | 0.00 | |
| 5,616.83 | 0.00 | 0.00 | 5,338.67 | -810.70 | -1,349.23 | -1,352.34 | 2.00 | -2.00 | 0.00 | |
| End Drop @ 5616.83ft | | | | | | | | | | |
| 5,700.00 | 0.00 | 0.00 | 5,421.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 5,800.00 | 0.00 | 0.00 | 5,521.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 5,900.00 | 0.00 | 0.00 | 5,621.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,000.00 | 0.00 | 0.00 | 5,721.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,100.00 | 0.00 | 0.00 | 5,821.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,200.00 | 0.00 | 0.00 | 5,921.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,300.00 | 0.00 | 0.00 | 6,021.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,400.00 | 0.00 | 0.00 | 6,121.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,500.00 | 0.00 | 0.00 | 6,221.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,600.00 | 0.00 | 0.00 | 6,321.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,700.00 | 0.00 | 0.00 | 6,421.84 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| 6,737.96 | 0.00 | 0.00 | 6,459.80 | -810.70 | -1,349.23 | -1,352.34 | 0.00 | 0.00 | 0.00 | |
| KOP @ 6737.96ft :: DLS = 8°/100' | | | | | | | | | | |
| 6,800.00 | 4.96 | 89.78 | 6,521.76 | -810.69 | -1,346.55 | -1,349.65 | 8.00 | 8.00 | 0.00 | |
| 6,900.00 | 12.96 | 89.78 | 6,620.46 | -810.63 | -1,330.98 | -1,334.08 | 8.00 | 8.00 | 0.00 | |
| 7,000.00 | 20.96 | 89.78 | 6,716.03 | -810.52 | -1,301.83 | -1,304.93 | 8.00 | 8.00 | 0.00 | |
| 7,100.00 | 28.96 | 89.78 | 6,806.62 | -810.36 | -1,259.66 | -1,262.76 | 8.00 | 8.00 | 0.00 | |
| 7,110.77 | 29.82 | 89.78 | 6,816.00 | -810.34 | -1,254.37 | -1,257.48 | 8.00 | 8.00 | 0.00 | |
| Sharon Springs | | | | | | | | | | |
| 7,153.00 | 33.20 | 89.78 | 6,852.00 | -810.25 | -1,232.30 | -1,235.40 | 8.00 | 8.00 | 0.00 | |
| Niobrara | | | | | | | | | | |
| 7,200.00 | 36.96 | 89.78 | 6,890.45 | -810.15 | -1,205.29 | -1,208.40 | 8.00 | 8.00 | 0.00 | |
| 7,229.95 | 39.36 | 89.78 | 6,914.00 | -810.08 | -1,186.79 | -1,189.89 | 8.00 | 8.00 | 0.00 | |
| Nio B | | | | | | | | | | |
| 7,300.00 | 44.96 | 89.78 | 6,965.90 | -809.90 | -1,139.79 | -1,142.89 | 8.00 | 8.00 | 0.00 | |
| 7,387.68 | 51.98 | 89.78 | 7,024.00 | -809.64 | -1,074.19 | -1,077.29 | 8.00 | 8.00 | 0.00 | |
| Nio C | | | | | | | | | | |
| 7,400.00 | 52.96 | 89.78 | 7,031.50 | -809.61 | -1,064.42 | -1,067.52 | 8.00 | 8.00 | 0.00 | |
| 7,500.00 | 60.96 | 89.78 | 7,085.98 | -809.28 | -980.66 | -983.76 | 8.00 | 8.00 | 0.00 | |
| 7,600.00 | 68.96 | 89.78 | 7,128.26 | -808.94 | -890.13 | -893.23 | 8.00 | 8.00 | 0.00 | |
| 7,658.46 | 73.64 | 89.78 | 7,147.00 | -808.72 | -834.77 | -837.87 | 8.00 | 8.00 | 0.00 | |
| Fort Hayes | | | | | | | | | | |
| 7,700.00 | 76.96 | 89.78 | 7,157.54 | -808.57 | -794.60 | -797.70 | 8.00 | 8.00 | 0.00 | |
| 7,762.77 | 81.98 | 89.78 | 7,169.00 | -808.33 | -732.91 | -736.01 | 8.00 | 8.00 | 0.00 | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

| 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) |
| Codell | | | | | | | | | |
| 7,800.00 | 84.96 | 89.78 | 7,173.23 | -808.19 | -695.92 | -699.02 | 8.00 | 8.00 | 0.00 |
| 7,862.23 | 89.94 | 89.78 | 7,176.00 | -807.95 | -633.77 | -636.87 | 8.00 | 8.00 | 0.00 |
| End Build @ 7862.23ft - Top of Production | | | | | | | | | |
| 7,900.00 | 89.94 | 89.78 | 7,176.04 | -807.80 | -596.00 | -599.10 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 89.94 | 89.78 | 7,176.14 | -807.42 | -496.00 | -499.10 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 89.94 | 89.78 | 7,176.24 | -807.04 | -396.00 | -399.10 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 89.94 | 89.78 | 7,176.34 | -806.65 | -296.00 | -299.10 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 89.94 | 89.78 | 7,176.44 | -806.27 | -196.00 | -199.10 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 89.94 | 89.78 | 7,176.54 | -805.88 | -96.00 | -99.10 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.94 | 89.78 | 7,176.64 | -805.50 | 3.99 | 0.90 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 89.94 | 89.78 | 7,176.74 | -805.11 | 103.99 | 100.90 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 89.94 | 89.78 | 7,176.85 | -804.73 | 203.99 | 200.90 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 89.94 | 89.78 | 7,176.95 | -804.34 | 303.99 | 300.90 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 89.94 | 89.78 | 7,177.05 | -803.96 | 403.99 | 400.90 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.94 | 89.78 | 7,177.15 | -803.57 | 503.99 | 500.90 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 89.94 | 89.78 | 7,177.25 | -803.19 | 603.99 | 600.90 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 89.94 | 89.78 | 7,177.35 | -802.81 | 703.99 | 700.90 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 89.94 | 89.78 | 7,177.45 | -802.42 | 803.99 | 800.90 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 89.94 | 89.78 | 7,177.56 | -802.04 | 903.99 | 900.90 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 89.94 | 89.78 | 7,177.66 | -801.65 | 1,003.99 | 1,000.90 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 89.94 | 89.78 | 7,177.76 | -801.27 | 1,103.99 | 1,100.90 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 89.94 | 89.78 | 7,177.86 | -800.88 | 1,203.99 | 1,200.90 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 89.94 | 89.78 | 7,177.96 | -800.50 | 1,303.98 | 1,300.90 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 89.94 | 89.78 | 7,178.06 | -800.11 | 1,403.98 | 1,400.90 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.94 | 89.78 | 7,178.16 | -799.73 | 1,503.98 | 1,500.90 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 89.94 | 89.78 | 7,178.26 | -799.35 | 1,603.98 | 1,600.90 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 89.94 | 89.78 | 7,178.37 | -798.96 | 1,703.98 | 1,700.90 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.94 | 89.78 | 7,178.47 | -798.58 | 1,803.98 | 1,800.90 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 89.94 | 89.78 | 7,178.57 | -798.19 | 1,903.98 | 1,900.90 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.94 | 89.78 | 7,178.67 | -797.81 | 2,003.98 | 2,000.90 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.94 | 89.78 | 7,178.77 | -797.42 | 2,103.98 | 2,100.90 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.94 | 89.78 | 7,178.87 | -797.04 | 2,203.98 | 2,200.90 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.94 | 89.78 | 7,178.97 | -796.65 | 2,303.98 | 2,300.90 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.94 | 89.78 | 7,179.07 | -796.27 | 2,403.98 | 2,400.90 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.94 | 89.78 | 7,179.18 | -795.88 | 2,503.97 | 2,500.90 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.94 | 89.78 | 7,179.28 | -795.50 | 2,603.97 | 2,600.90 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.94 | 89.78 | 7,179.38 | -795.12 | 2,703.97 | 2,700.90 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.94 | 89.78 | 7,179.48 | -794.73 | 2,803.97 | 2,800.90 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.94 | 89.78 | 7,179.58 | -794.35 | 2,903.97 | 2,900.90 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.94 | 89.78 | 7,179.68 | -793.96 | 3,003.97 | 3,000.90 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.94 | 89.78 | 7,179.78 | -793.58 | 3,103.97 | 3,100.90 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.94 | 89.78 | 7,179.89 | -793.19 | 3,203.97 | 3,200.90 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.94 | 89.78 | 7,179.99 | -792.81 | 3,303.97 | 3,300.90 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 89.94 | 89.78 | 7,180.09 | -792.42 | 3,403.97 | 3,400.90 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.94 | 89.78 | 7,180.19 | -792.04 | 3,503.97 | 3,500.90 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 89.94 | 89.78 | 7,180.29 | -791.66 | 3,603.97 | 3,600.90 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 89.94 | 89.78 | 7,180.39 | -791.27 | 3,703.97 | 3,700.90 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 89.94 | 89.78 | 7,180.49 | -790.89 | 3,803.96 | 3,800.90 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 89.94 | 89.78 | 7,180.59 | -790.50 | 3,903.96 | 3,900.90 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 89.94 | 89.78 | 7,180.70 | -790.12 | 4,003.96 | 4,000.90 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 89.94 | 89.78 | 7,180.80 | -789.73 | 4,103.96 | 4,100.90 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 89.94 | 89.78 | 7,180.90 | -789.35 | 4,203.96 | 4,200.90 | 0.00 | 0.00 | 0.00 |
| 12,800.00 | 89.94 | 89.78 | 7,181.00 | -788.96 | 4,303.96 | 4,300.90 | 0.00 | 0.00 | 0.00 |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

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) |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 12,900.00 | 89.94 | 89.78 | 7,181.10 | -788.58 | 4,403.96 | 4,400.90 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 89.94 | 89.78 | 7,181.20 | -788.19 | 4,503.96 | 4,500.90 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 89.94 | 89.78 | 7,181.30 | -787.81 | 4,603.96 | 4,600.90 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 89.94 | 89.78 | 7,181.41 | -787.43 | 4,703.96 | 4,700.90 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 89.94 | 89.78 | 7,181.51 | -787.04 | 4,803.96 | 4,800.90 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 89.94 | 89.78 | 7,181.61 | -786.66 | 4,903.96 | 4,900.90 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 89.94 | 89.78 | 7,181.71 | -786.27 | 5,003.96 | 5,000.90 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 89.94 | 89.78 | 7,181.81 | -785.89 | 5,103.95 | 5,100.90 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 89.94 | 89.78 | 7,181.91 | -785.50 | 5,203.95 | 5,200.90 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 89.94 | 89.78 | 7,182.01 | -785.12 | 5,303.95 | 5,300.90 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 89.94 | 89.78 | 7,182.11 | -784.73 | 5,403.95 | 5,400.90 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 89.94 | 89.78 | 7,182.22 | -784.35 | 5,503.95 | 5,500.90 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 89.94 | 89.78 | 7,182.32 | -783.97 | 5,603.95 | 5,600.90 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 89.94 | 89.78 | 7,182.42 | -783.58 | 5,703.95 | 5,700.90 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 89.94 | 89.78 | 7,182.52 | -783.20 | 5,803.95 | 5,800.90 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 89.94 | 89.78 | 7,182.62 | -782.81 | 5,903.95 | 5,900.90 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 89.94 | 89.78 | 7,182.72 | -782.43 | 6,003.95 | 6,000.90 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 89.94 | 89.78 | 7,182.82 | -782.04 | 6,103.95 | 6,100.90 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 89.94 | 89.78 | 7,182.93 | -781.66 | 6,203.95 | 6,200.90 | 0.00 | 0.00 | 0.00 |
| 14,800.00 | 89.94 | 89.78 | 7,183.03 | -781.27 | 6,303.94 | 6,300.90 | 0.00 | 0.00 | 0.00 |
| 14,900.00 | 89.94 | 89.78 | 7,183.13 | -780.89 | 6,403.94 | 6,400.90 | 0.00 | 0.00 | 0.00 |
| 15,000.00 | 89.94 | 89.78 | 7,183.23 | -780.50 | 6,503.94 | 6,500.90 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 89.94 | 89.78 | 7,183.33 | -780.12 | 6,603.94 | 6,600.90 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 89.94 | 89.78 | 7,183.43 | -779.74 | 6,703.94 | 6,700.90 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 89.94 | 89.78 | 7,183.53 | -779.35 | 6,803.94 | 6,800.90 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 89.94 | 89.78 | 7,183.63 | -778.97 | 6,903.94 | 6,900.90 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 89.94 | 89.78 | 7,183.74 | -778.58 | 7,003.94 | 7,000.90 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 89.94 | 89.78 | 7,183.84 | -778.20 | 7,103.94 | 7,100.90 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 89.94 | 89.78 | 7,183.94 | -777.81 | 7,203.94 | 7,200.90 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 89.94 | 89.78 | 7,184.04 | -777.43 | 7,303.94 | 7,300.90 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 89.94 | 89.78 | 7,184.14 | -777.04 | 7,403.94 | 7,400.90 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 89.94 | 89.78 | 7,184.24 | -776.66 | 7,503.94 | 7,500.90 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 89.94 | 89.78 | 7,184.34 | -776.28 | 7,603.93 | 7,600.90 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 89.94 | 89.78 | 7,184.45 | -775.89 | 7,703.93 | 7,700.90 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 89.94 | 89.78 | 7,184.55 | -775.51 | 7,803.93 | 7,800.90 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 89.94 | 89.78 | 7,184.65 | -775.12 | 7,903.93 | 7,900.90 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 89.94 | 89.78 | 7,184.75 | -774.74 | 8,003.93 | 8,000.90 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 89.94 | 89.78 | 7,184.85 | -774.35 | 8,103.93 | 8,100.90 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 89.94 | 89.78 | 7,184.95 | -773.97 | 8,203.93 | 8,200.90 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 89.94 | 89.78 | 7,185.05 | -773.58 | 8,303.93 | 8,300.90 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 89.94 | 89.78 | 7,185.15 | -773.20 | 8,403.93 | 8,400.90 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 89.94 | 89.78 | 7,185.26 | -772.81 | 8,503.93 | 8,500.90 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 89.94 | 89.78 | 7,185.36 | -772.43 | 8,603.93 | 8,600.90 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 89.94 | 89.78 | 7,185.46 | -772.05 | 8,703.93 | 8,700.90 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 89.94 | 89.78 | 7,185.56 | -771.66 | 8,803.93 | 8,800.90 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 89.94 | 89.78 | 7,185.66 | -771.28 | 8,903.92 | 8,900.90 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 89.94 | 89.78 | 7,185.76 | -770.89 | 9,003.92 | 9,000.90 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 89.94 | 89.78 | 7,185.86 | -770.51 | 9,103.92 | 9,100.90 | 0.00 | 0.00 | 0.00 |
| 17,700.00 | 89.94 | 89.78 | 7,185.97 | -770.12 | 9,203.92 | 9,200.90 | 0.00 | 0.00 | 0.00 |
| 17,734.57 | 89.94 | 89.78 | 7,186.00 | -769.99 | 9,238.49 | 9,235.46 | 0.00 | 0.00 | 0.00 |

TD Well @ 17734.57ft

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well DAMORE 18-6HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4939.00usft (Drilling Rig) |
| Site: | 5N-67W-18 DAMORE 5-18HZ PAD | North Reference: | True |
| Well: | DAMORE 18-6HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan A | | |
| Design: | Permit Rev-3 | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|-------------------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 1,526.50 | 1,500.00 | 9 5/8" Csg | 9-5/8 | 13-1/2 | |
| 7,862.23 | 7,176.00 | Top of Production | 5-1/2 | 7-7/8 | |

| Formations | | | | | | |
|-----------------------|-----------------------|----------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 936.56 | 932.00 | Fox Hills | | | | |
| 3,610.82 | 3,428.00 | Parkman | | | | |
| 4,163.64 | 3,939.00 | Sussex | | | | |
| 7,110.77 | 6,816.00 | Sharon Springs | | | | |
| 7,153.00 | 6,852.00 | Niobrara | | | | |
| 7,229.95 | 6,914.00 | Nio B | | | | |
| 7,387.68 | 7,024.00 | Nio C | | | | |
| 7,658.46 | 7,147.00 | Fort Hayes | | | | |
| 7,762.77 | 7,169.00 | Codell | | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment | |
| | | +N/-S (usft) | +E/-W (usft) | | |
| 200.00 | 200.00 | 0.00 | 0.00 | Begin Nudge @ 200.00ft | |
| 1,695.33 | 1,657.43 | -148.83 | -247.70 | Hold Tangent @ 1695.33ft | |
| 4,495.33 | 4,245.60 | -699.08 | -1,163.46 | Begin Drop @ 4495.33ft | |
| 5,616.83 | 5,338.67 | -810.70 | -1,349.23 | End Drop @ 5616.83ft | |
| 6,737.96 | 6,459.80 | -810.70 | -1,349.23 | KOP @ 6737.96ft :: DLS = 8°/100' | |
| 7,862.23 | 7,176.00 | -807.95 | -633.77 | End Build @ 7862.23ft | |
| 17,734.57 | 7,186.00 | -769.99 | 9,238.49 | TD Well @ 17734.57ft | |