

US ROCKIES WATTENBERG PLANNING

**WELD-NAD83-UTMFT13N
2N-68W-35 NELSON 28-35HZ PAD
NELSON 35-3HZ**

Plan B

Plan: Permit Rev-1

SHL Lat/Long: 40.101354/-104.972334
Survey Program: MWD+IFR+MSA

Standard Planning Report

22 December, 2019

Project: WELD-NAD83-UTMFT13N
 Site: 2N-68W-35 NELSON 28-35HZ PAD
 Well: NELSON 35-3HZ
 Wellbore: Plan B
 Design: Permit Rev-1

US ROCKIES WATTENBERG PLANNING

| CASING DETAILS | | |
|----------------|---------|-------|
| TVD | MD | Size |
| 1500.00 | 1521.48 | 9-5/8 |
| 7623.00 | 8260.89 | 5-1/2 |

WELL DETAILS: NELSON 35-3HZ
 GL = 4952.00
 RKB = 17' @ 4969.00usft (Drilling Rig)

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 | 285.00 | 0.00 | 0.00 | 285.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1670.33 | 20.78 | 314.00 | 1640.16 | 172.60 | -178.74 | 1.50 | 314.00 | -172.39 | |
| 4 | 4470.33 | 20.78 | 314.00 | 4258.02 | 862.67 | -893.32 | 0.00 | 0.00 | -861.58 | |
| 5 | 5509.33 | 0.00 | 0.00 | 5274.39 | 992.12 | -1027.37 | 2.00 | 180.00 | -990.87 | |
| 6 | 7141.77 | 0.00 | 0.00 | 6906.83 | 992.12 | -1027.37 | 0.00 | 0.00 | -990.87 | |
| 7 | 8260.89 | 89.53 | 180.97 | 7623.00 | 281.91 | -1039.41 | 8.00 | 180.97 | -280.64 | |
| 8 | 14786.42 | 89.53 | 180.97 | 7676.62 | -6242.47 | -1149.97 | 0.00 | 0.00 | 6243.87 | NELSON 35-3HZ_target |
| 9 | 14929.91 | 89.53 | 178.82 | 7677.79 | -6385.94 | -1149.71 | 1.50 | -89.88 | 6387.34 | |
| 10 | 20120.01 | 89.53 | 178.82 | 7720.00 | -11574.76 | -1042.69 | 0.00 | 0.00 | 11576.03 | NELSON 35-3HZ_BHL |

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|-------------------|---------|-----------|----------|-----------|-------------|
| NELSON 35-3HZ_SHL | 0.00 | 0.00 | 0.00 | 40.101354 | -104.972334 |
| NELSON 35-3HZ_BHL | 7720.00 | -11574.76 | -1042.69 | 40.069568 | -104.976061 |

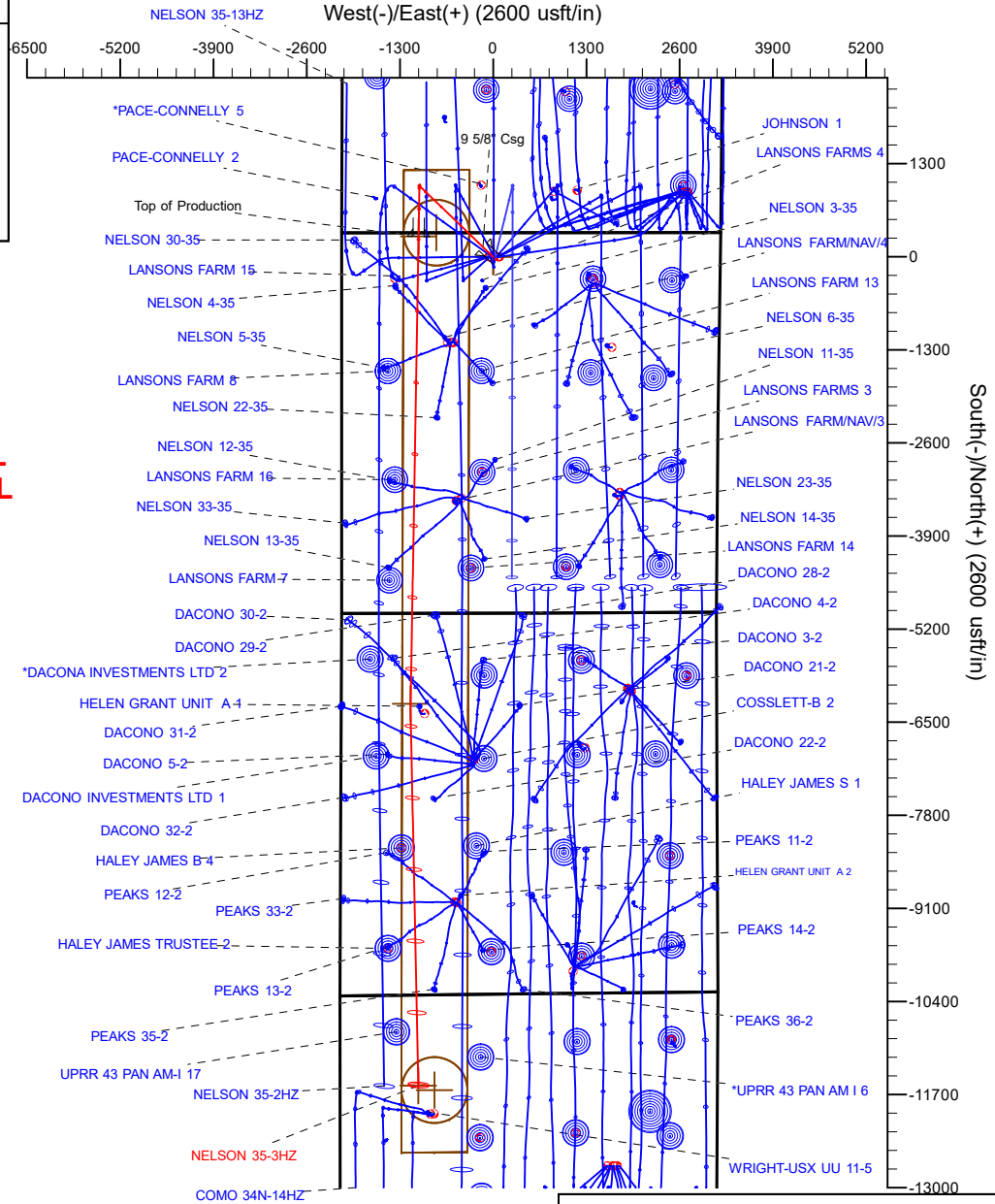
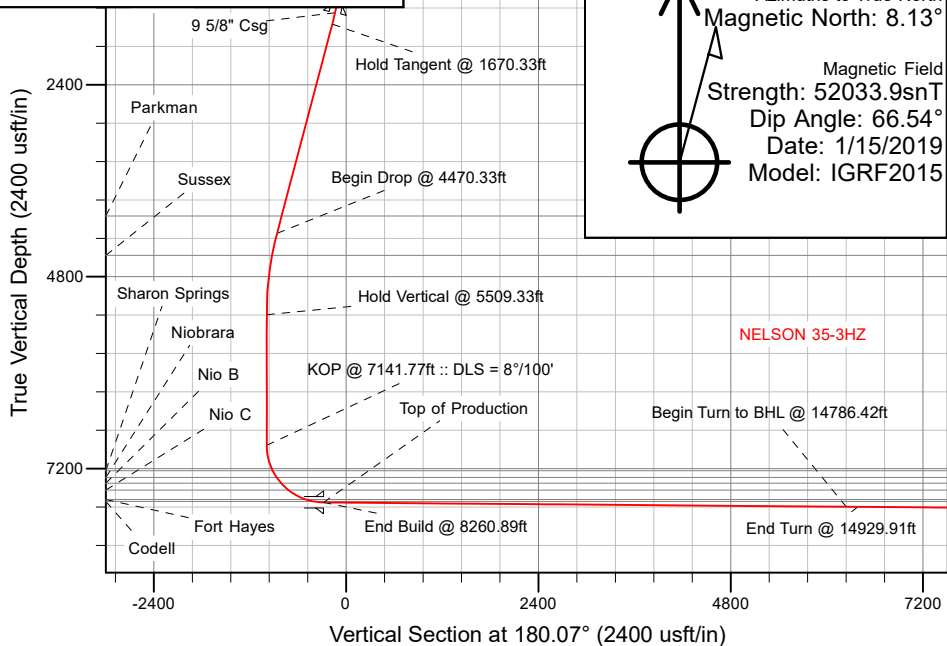
FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|----------------|
| 980.00 | 983.89 | Fox Hills |
| 4040.00 | 4237.14 | Parkman |
| 4532.00 | 4758.37 | Sussex |
| 7227.00 | 7473.70 | Sharon Springs |
| 7309.00 | 7568.80 | Niobrara |
| 7382.00 | 7661.33 | Nio B |
| 7469.00 | 7788.21 | Nio C |
| 7586.00 | 8035.47 | Fort Hayes |
| 7609.00 | 8124.79 | Codell |

SHL
336' FNL
2114' FWL

HEEL
50' FNL
1075' FWL

TOE
1265' FNL
1093' FWL



Plan: Permit Rev-1 (NELSON 35-3HZ/Plan B)
 Date: 12/22/2019

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| | | | |
|--------------------|--|----------------------|----------------|
| 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 | 2N-68W-35 NELSON 28-35HZ PAD | | | | |
| Site Position: | | Northing: | 14,563,661.77 usft | Latitude: | 40.101408 |
| From: | Lat/Long | Easting: | 1,648,208.17 usft | Longitude: | -104.972137 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.02 ° |

| | | | | | | |
|-----------------------------|---------------|-------------|----------------------------|--------------------|----------------------|---------------|
| Well | NELSON 35-3HZ | | | | | |
| Well Position | +N-S | -19.66 usft | Northing: | 14,563,642.08 usft | Latitude: | 40.101354 |
| | +E-W | -55.09 usft | Easting: | 1,648,153.09 usft | Longitude: | -104.972334 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | | Ground Level: | 4,952.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Plan B | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 1/15/2019 | 8.13 | 66.54 | 52,033.91388622 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | Permit Rev-1 | | | |
| 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 | 180.07 |

| | | | | | |
|---------------------------------|------------------------|--------------------------|-----------------------|--|--|
| Plan Survey Tool Program | Date | 12/22/2019 | | | |
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 1,500.00 | Permit Rev-1 (Plan B) | APC_ISCWSA REV 2 MWD+II Fixed:v2:crustal field declinatio | |
| 2 | 1,500.00 | 20,120.01 | Permit Rev-1 (Plan B) | APC_ISCWSA REV 2 MWD+II Fixed:v2:Rockies, crustal dec + | |

Corporate Planning Report

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|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| 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 | |
| 285.00 | 0.00 | 0.00 | 285.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,670.33 | 20.78 | 314.00 | 1,640.16 | 172.60 | -178.74 | 1.50 | 1.50 | 0.00 | 314.00 | |
| 4,470.33 | 20.78 | 314.00 | 4,258.02 | 862.67 | -893.32 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,509.33 | 0.00 | 0.00 | 5,274.39 | 992.12 | -1,027.37 | 2.00 | -2.00 | 4.43 | 180.00 | |
| 7,141.77 | 0.00 | 0.00 | 6,906.83 | 992.12 | -1,027.37 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,260.89 | 89.53 | 180.97 | 7,623.00 | 281.91 | -1,039.41 | 8.00 | 8.00 | -16.00 | 180.97 | |
| 14,786.42 | 89.53 | 180.97 | 7,676.62 | -6,242.47 | -1,149.97 | 0.00 | 0.00 | 0.00 | 0.00 | NELSON 35-3HZ_targ |
| 14,929.91 | 89.53 | 178.82 | 7,677.79 | -6,385.94 | -1,149.71 | 1.50 | 0.00 | -1.50 | -89.88 | |
| 20,120.01 | 89.53 | 178.82 | 7,720.00 | -11,574.77 | -1,042.69 | 0.00 | 0.00 | 0.00 | 0.00 | NELSON 35-3HZ_BH |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| 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 |
| 285.00 | 0.00 | 0.00 | 285.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Begin Nudge @ 285.00ft | | | | | | | | | | |
| 300.00 | 0.23 | 314.00 | 300.00 | 0.02 | -0.02 | -0.02 | 1.50 | 1.50 | 0.00 | |
| 400.00 | 1.73 | 314.00 | 399.98 | 1.20 | -1.25 | -1.20 | 1.50 | 1.50 | 0.00 | |
| 500.00 | 3.23 | 314.00 | 499.89 | 4.20 | -4.35 | -4.20 | 1.50 | 1.50 | 0.00 | |
| 600.00 | 4.73 | 314.00 | 599.64 | 9.02 | -9.34 | -9.01 | 1.50 | 1.50 | 0.00 | |
| 700.00 | 6.23 | 314.00 | 699.18 | 15.65 | -16.20 | -15.63 | 1.50 | 1.50 | 0.00 | |
| 800.00 | 7.73 | 314.00 | 798.44 | 24.08 | -24.94 | -24.05 | 1.50 | 1.50 | 0.00 | |
| 900.00 | 9.23 | 314.00 | 897.35 | 34.32 | -35.54 | -34.27 | 1.50 | 1.50 | 0.00 | |
| 983.89 | 10.48 | 314.00 | 980.00 | 44.29 | -45.87 | -44.24 | 1.50 | 1.50 | 0.00 | |
| Fox Hills | | | | | | | | | | |
| 1,000.00 | 10.73 | 314.00 | 995.83 | 46.35 | -48.00 | -46.29 | 1.50 | 1.50 | 0.00 | |
| 1,100.00 | 12.23 | 314.00 | 1,093.83 | 60.17 | -62.31 | -60.09 | 1.50 | 1.50 | 0.00 | |
| 1,200.00 | 13.73 | 314.00 | 1,191.27 | 75.77 | -78.46 | -75.67 | 1.50 | 1.50 | 0.00 | |
| 1,300.00 | 15.23 | 314.00 | 1,288.10 | 93.13 | -96.44 | -93.01 | 1.50 | 1.50 | 0.00 | |
| 1,400.00 | 16.73 | 314.00 | 1,384.23 | 112.25 | -116.23 | -112.10 | 1.50 | 1.50 | 0.00 | |
| 1,500.00 | 18.23 | 314.00 | 1,479.61 | 133.11 | -137.84 | -132.94 | 1.50 | 1.50 | 0.00 | |
| 1,521.48 | 18.55 | 314.00 | 1,500.00 | 137.81 | -142.71 | -137.64 | 1.50 | 1.50 | 0.00 | |
| 9 5/8" Csg | | | | | | | | | | |
| 1,600.00 | 19.73 | 314.00 | 1,574.18 | 155.69 | -161.22 | -155.50 | 1.50 | 1.50 | 0.00 | |
| 1,670.33 | 20.78 | 314.00 | 1,640.16 | 172.60 | -178.74 | -172.39 | 1.50 | 1.50 | 0.00 | |
| Hold Tangent @ 1670.33ft | | | | | | | | | | |
| 1,700.00 | 20.78 | 314.00 | 1,667.90 | 179.92 | -186.31 | -179.69 | 0.00 | 0.00 | 0.00 | |
| 1,800.00 | 20.78 | 314.00 | 1,761.39 | 204.56 | -211.83 | -204.30 | 0.00 | 0.00 | 0.00 | |
| 1,900.00 | 20.78 | 314.00 | 1,854.89 | 229.21 | -237.35 | -228.92 | 0.00 | 0.00 | 0.00 | |
| 2,000.00 | 20.78 | 314.00 | 1,948.38 | 253.85 | -262.87 | -253.53 | 0.00 | 0.00 | 0.00 | |
| 2,100.00 | 20.78 | 314.00 | 2,041.88 | 278.50 | -288.39 | -278.14 | 0.00 | 0.00 | 0.00 | |
| 2,200.00 | 20.78 | 314.00 | 2,135.37 | 303.14 | -313.91 | -302.76 | 0.00 | 0.00 | 0.00 | |
| 2,300.00 | 20.78 | 314.00 | 2,228.87 | 327.79 | -339.43 | -327.37 | 0.00 | 0.00 | 0.00 | |
| 2,400.00 | 20.78 | 314.00 | 2,322.36 | 352.43 | -364.95 | -351.99 | 0.00 | 0.00 | 0.00 | |
| 2,500.00 | 20.78 | 314.00 | 2,415.86 | 377.08 | -390.47 | -376.60 | 0.00 | 0.00 | 0.00 | |
| 2,600.00 | 20.78 | 314.00 | 2,509.35 | 401.72 | -416.00 | -401.21 | 0.00 | 0.00 | 0.00 | |
| 2,700.00 | 20.78 | 314.00 | 2,602.85 | 426.37 | -441.52 | -425.83 | 0.00 | 0.00 | 0.00 | |
| 2,800.00 | 20.78 | 314.00 | 2,696.34 | 451.01 | -467.04 | -450.44 | 0.00 | 0.00 | 0.00 | |
| 2,900.00 | 20.78 | 314.00 | 2,789.84 | 475.66 | -492.56 | -475.06 | 0.00 | 0.00 | 0.00 | |
| 3,000.00 | 20.78 | 314.00 | 2,883.33 | 500.30 | -518.08 | -499.67 | 0.00 | 0.00 | 0.00 | |
| 3,100.00 | 20.78 | 314.00 | 2,976.83 | 524.95 | -543.60 | -524.28 | 0.00 | 0.00 | 0.00 | |
| 3,200.00 | 20.78 | 314.00 | 3,070.32 | 549.59 | -569.12 | -548.90 | 0.00 | 0.00 | 0.00 | |
| 3,300.00 | 20.78 | 314.00 | 3,163.82 | 574.24 | -594.64 | -573.51 | 0.00 | 0.00 | 0.00 | |
| 3,400.00 | 20.78 | 314.00 | 3,257.31 | 598.88 | -620.16 | -598.13 | 0.00 | 0.00 | 0.00 | |
| 3,500.00 | 20.78 | 314.00 | 3,350.81 | 623.53 | -645.68 | -622.74 | 0.00 | 0.00 | 0.00 | |
| 3,600.00 | 20.78 | 314.00 | 3,444.30 | 648.17 | -671.20 | -647.35 | 0.00 | 0.00 | 0.00 | |
| 3,700.00 | 20.78 | 314.00 | 3,537.80 | 672.82 | -696.72 | -671.97 | 0.00 | 0.00 | 0.00 | |
| 3,800.00 | 20.78 | 314.00 | 3,631.29 | 697.46 | -722.25 | -696.58 | 0.00 | 0.00 | 0.00 | |
| 3,900.00 | 20.78 | 314.00 | 3,724.79 | 722.11 | -747.77 | -721.19 | 0.00 | 0.00 | 0.00 | |
| 4,000.00 | 20.78 | 314.00 | 3,818.28 | 746.75 | -773.29 | -745.81 | 0.00 | 0.00 | 0.00 | |
| 4,100.00 | 20.78 | 314.00 | 3,911.78 | 771.40 | -798.81 | -770.42 | 0.00 | 0.00 | 0.00 | |
| 4,200.00 | 20.78 | 314.00 | 4,005.27 | 796.04 | -824.33 | -795.04 | 0.00 | 0.00 | 0.00 | |
| 4,237.14 | 20.78 | 314.00 | 4,040.00 | 805.20 | -833.81 | -804.18 | 0.00 | 0.00 | 0.00 | |
| Parkman | | | | | | | | | | |
| 4,300.00 | 20.78 | 314.00 | 4,098.77 | 820.69 | -849.85 | -819.65 | 0.00 | 0.00 | 0.00 | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| 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) |
| 4,400.00 | 20.78 | 314.00 | 4,192.26 | 845.33 | -875.37 | -844.26 | 0.00 | 0.00 | 0.00 |
| 4,470.33 | 20.78 | 314.00 | 4,258.02 | 862.67 | -893.32 | -861.58 | 0.00 | 0.00 | 0.00 |
| Begin Drop @ 4470.33ft | | | | | | | | | |
| 4,500.00 | 20.19 | 314.00 | 4,285.81 | 869.88 | -900.79 | -868.78 | 2.00 | -2.00 | 0.00 |
| 4,600.00 | 18.19 | 314.00 | 4,380.25 | 892.71 | -924.43 | -891.58 | 2.00 | -2.00 | 0.00 |
| 4,700.00 | 16.19 | 314.00 | 4,475.78 | 913.23 | -945.68 | -912.08 | 2.00 | -2.00 | 0.00 |
| 4,758.37 | 15.02 | 314.00 | 4,532.00 | 924.14 | -956.97 | -922.97 | 2.00 | -2.00 | 0.00 |
| Sussex | | | | | | | | | |
| 4,800.00 | 14.19 | 314.00 | 4,572.29 | 931.43 | -964.52 | -930.25 | 2.00 | -2.00 | 0.00 |
| 4,900.00 | 12.19 | 314.00 | 4,669.64 | 947.28 | -980.93 | -946.08 | 2.00 | -2.00 | 0.00 |
| 5,000.00 | 10.19 | 314.00 | 4,767.74 | 960.75 | -994.89 | -959.54 | 2.00 | -2.00 | 0.00 |
| 5,100.00 | 8.19 | 314.00 | 4,866.45 | 971.84 | -1,006.37 | -970.61 | 2.00 | -2.00 | 0.00 |
| 5,200.00 | 6.19 | 314.00 | 4,965.66 | 980.53 | -1,015.37 | -979.29 | 2.00 | -2.00 | 0.00 |
| 5,300.00 | 4.19 | 314.00 | 5,065.25 | 986.81 | -1,021.87 | -985.56 | 2.00 | -2.00 | 0.00 |
| 5,400.00 | 2.19 | 314.00 | 5,165.09 | 990.67 | -1,025.87 | -989.42 | 2.00 | -2.00 | 0.00 |
| 5,500.00 | 0.19 | 314.00 | 5,265.06 | 992.11 | -1,027.36 | -990.86 | 2.00 | -2.00 | 0.00 |
| 5,509.33 | 0.00 | 0.00 | 5,274.39 | 992.12 | -1,027.37 | -990.87 | 2.00 | -2.00 | 492.86 |
| Hold Vertical @ 5509.33ft | | | | | | | | | |
| 5,600.00 | 0.00 | 0.00 | 5,365.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 0.00 | 0.00 | 5,465.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 0.00 | 0.00 | 5,565.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 0.00 | 0.00 | 5,665.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 0.00 | 0.00 | 5,765.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 0.00 | 0.00 | 5,865.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 0.00 | 0.00 | 5,965.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 0.00 | 0.00 | 6,065.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 0.00 | 0.00 | 6,165.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 0.00 | 0.00 | 6,265.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,600.00 | 0.00 | 0.00 | 6,365.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,700.00 | 0.00 | 0.00 | 6,465.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 0.00 | 0.00 | 6,565.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 0.00 | 0.00 | 6,665.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 0.00 | 0.00 | 6,765.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 0.00 | 0.00 | 6,865.06 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| 7,141.77 | 0.00 | 0.00 | 6,906.83 | 992.12 | -1,027.37 | -990.87 | 0.00 | 0.00 | 0.00 |
| KOP @ 7141.77ft :: DLS = 8°/100' | | | | | | | | | |
| 7,200.00 | 4.66 | 180.97 | 6,965.00 | 989.76 | -1,027.41 | -988.50 | 8.00 | 8.00 | -307.45 |
| 7,300.00 | 12.66 | 180.97 | 7,063.78 | 974.72 | -1,027.67 | -973.46 | 8.00 | 8.00 | 0.00 |
| 7,400.00 | 20.66 | 180.97 | 7,159.50 | 946.08 | -1,028.15 | -944.82 | 8.00 | 8.00 | 0.00 |
| 7,473.70 | 26.55 | 180.97 | 7,227.00 | 916.58 | -1,028.65 | -915.33 | 8.00 | 8.00 | 0.00 |
| Sharon Springs | | | | | | | | | |
| 7,500.00 | 28.66 | 180.97 | 7,250.31 | 904.40 | -1,028.86 | -903.14 | 8.00 | 8.00 | 0.00 |
| 7,568.80 | 34.16 | 180.97 | 7,309.00 | 868.56 | -1,029.47 | -867.30 | 8.00 | 8.00 | 0.00 |
| Niobrara | | | | | | | | | |
| 7,600.00 | 36.66 | 180.97 | 7,334.43 | 850.49 | -1,029.77 | -849.23 | 8.00 | 8.00 | 0.00 |
| 7,661.33 | 41.56 | 180.97 | 7,382.00 | 811.82 | -1,030.43 | -810.56 | 8.00 | 8.00 | 0.00 |
| Nio B | | | | | | | | | |
| 7,700.00 | 44.66 | 180.97 | 7,410.23 | 785.39 | -1,030.88 | -784.13 | 8.00 | 8.00 | 0.00 |
| 7,788.21 | 51.71 | 180.97 | 7,469.00 | 719.70 | -1,031.99 | -718.44 | 8.00 | 8.00 | 0.00 |
| Nio C | | | | | | | | | |
| 7,800.00 | 52.66 | 180.97 | 7,476.23 | 710.39 | -1,032.15 | -709.12 | 8.00 | 8.00 | 0.00 |
| 7,900.00 | 60.66 | 180.97 | 7,531.15 | 626.93 | -1,033.56 | -625.66 | 8.00 | 8.00 | 0.00 |
| 8,000.00 | 68.66 | 180.97 | 7,573.92 | 536.63 | -1,035.09 | -535.37 | 8.00 | 8.00 | 0.00 |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| 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) |
| 8,035.47 | 71.50 | 180.97 | 7,586.00 | 503.30 | -1,035.66 | -502.03 | 8.00 | 8.00 | 0.00 |
| Fort Hayes | | | | | | | | | |
| 8,100.00 | 76.66 | 180.97 | 7,603.70 | 441.27 | -1,036.71 | -440.00 | 8.00 | 8.00 | 0.00 |
| 8,124.79 | 78.64 | 180.97 | 7,609.00 | 417.06 | -1,037.12 | -415.79 | 8.00 | 8.00 | 0.00 |
| Codell | | | | | | | | | |
| 8,200.00 | 84.66 | 180.97 | 7,619.92 | 342.69 | -1,038.38 | -341.42 | 8.00 | 8.00 | 0.00 |
| 8,260.89 | 89.53 | 180.97 | 7,623.00 | 281.91 | -1,039.41 | -280.64 | 8.00 | 8.00 | 0.00 |
| End Build @ 8260.89ft - Top of Production | | | | | | | | | |
| 8,300.00 | 89.53 | 180.97 | 7,623.32 | 242.80 | -1,040.07 | -241.53 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 89.53 | 180.97 | 7,624.15 | 142.82 | -1,041.76 | -141.55 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.53 | 180.97 | 7,624.97 | 42.84 | -1,043.46 | -41.56 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 89.53 | 180.97 | 7,625.79 | -57.14 | -1,045.15 | 58.42 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 89.53 | 180.97 | 7,626.61 | -157.13 | -1,046.85 | 158.40 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 89.53 | 180.97 | 7,627.43 | -257.11 | -1,048.54 | 258.39 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 89.53 | 180.97 | 7,628.25 | -357.09 | -1,050.24 | 358.37 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.53 | 180.97 | 7,629.08 | -457.07 | -1,051.93 | 458.36 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 89.53 | 180.97 | 7,629.90 | -557.05 | -1,053.62 | 558.34 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 89.53 | 180.97 | 7,630.72 | -657.04 | -1,055.32 | 658.33 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 89.53 | 180.97 | 7,631.54 | -757.02 | -1,057.01 | 758.31 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 89.53 | 180.97 | 7,632.36 | -857.00 | -1,058.71 | 858.29 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 89.53 | 180.97 | 7,633.18 | -956.98 | -1,060.40 | 958.28 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 89.53 | 180.97 | 7,634.01 | -1,056.97 | -1,062.10 | 1,058.26 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 89.53 | 180.97 | 7,634.83 | -1,156.95 | -1,063.79 | 1,158.25 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 89.53 | 180.97 | 7,635.65 | -1,256.93 | -1,065.48 | 1,258.23 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 89.53 | 180.97 | 7,636.47 | -1,356.91 | -1,067.18 | 1,358.22 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.53 | 180.97 | 7,637.29 | -1,456.89 | -1,068.87 | 1,458.20 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 89.53 | 180.97 | 7,638.11 | -1,556.88 | -1,070.57 | 1,558.18 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 89.53 | 180.97 | 7,638.94 | -1,656.86 | -1,072.26 | 1,658.17 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 89.53 | 180.97 | 7,639.76 | -1,756.84 | -1,073.96 | 1,758.15 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 89.53 | 180.97 | 7,640.58 | -1,856.82 | -1,075.65 | 1,858.14 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.53 | 180.97 | 7,641.40 | -1,956.81 | -1,077.34 | 1,958.12 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 89.53 | 180.97 | 7,642.22 | -2,056.79 | -1,079.04 | 2,058.11 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 89.53 | 180.97 | 7,643.04 | -2,156.77 | -1,080.73 | 2,158.09 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 89.53 | 180.97 | 7,643.87 | -2,256.75 | -1,082.43 | 2,258.07 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 89.53 | 180.97 | 7,644.69 | -2,356.74 | -1,084.12 | 2,358.06 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.53 | 180.97 | 7,645.51 | -2,456.72 | -1,085.82 | 2,458.04 | 0.00 | 0.00 | 0.00 |
| 11,100.00 | 89.53 | 180.97 | 7,646.33 | -2,556.70 | -1,087.51 | 2,558.03 | 0.00 | 0.00 | 0.00 |
| 11,200.00 | 89.53 | 180.97 | 7,647.15 | -2,656.68 | -1,089.20 | 2,658.01 | 0.00 | 0.00 | 0.00 |
| 11,300.00 | 89.53 | 180.97 | 7,647.97 | -2,756.66 | -1,090.90 | 2,758.00 | 0.00 | 0.00 | 0.00 |
| 11,400.00 | 89.53 | 180.97 | 7,648.80 | -2,856.65 | -1,092.59 | 2,857.98 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.53 | 180.97 | 7,649.62 | -2,956.63 | -1,094.29 | 2,957.96 | 0.00 | 0.00 | 0.00 |
| 11,600.00 | 89.53 | 180.97 | 7,650.44 | -3,056.61 | -1,095.98 | 3,057.95 | 0.00 | 0.00 | 0.00 |
| 11,700.00 | 89.53 | 180.97 | 7,651.26 | -3,156.59 | -1,097.68 | 3,157.93 | 0.00 | 0.00 | 0.00 |
| 11,800.00 | 89.53 | 180.97 | 7,652.08 | -3,256.58 | -1,099.37 | 3,257.92 | 0.00 | 0.00 | 0.00 |
| 11,900.00 | 89.53 | 180.97 | 7,652.90 | -3,356.56 | -1,101.06 | 3,357.90 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.53 | 180.97 | 7,653.73 | -3,456.54 | -1,102.76 | 3,457.89 | 0.00 | 0.00 | 0.00 |
| 12,100.00 | 89.53 | 180.97 | 7,654.55 | -3,556.52 | -1,104.45 | 3,557.87 | 0.00 | 0.00 | 0.00 |
| 12,200.00 | 89.53 | 180.97 | 7,655.37 | -3,656.50 | -1,106.15 | 3,657.85 | 0.00 | 0.00 | 0.00 |
| 12,300.00 | 89.53 | 180.97 | 7,656.19 | -3,756.49 | -1,107.84 | 3,757.84 | 0.00 | 0.00 | 0.00 |
| 12,400.00 | 89.53 | 180.97 | 7,657.01 | -3,856.47 | -1,109.54 | 3,857.82 | 0.00 | 0.00 | 0.00 |
| 12,500.00 | 89.53 | 180.97 | 7,657.83 | -3,956.45 | -1,111.23 | 3,957.81 | 0.00 | 0.00 | 0.00 |
| 12,600.00 | 89.53 | 180.97 | 7,658.66 | -4,056.43 | -1,112.92 | 4,057.79 | 0.00 | 0.00 | 0.00 |
| 12,700.00 | 89.53 | 180.97 | 7,659.48 | -4,156.42 | -1,114.62 | 4,157.77 | 0.00 | 0.00 | 0.00 |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| 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) |
| 12,800.00 | 89.53 | 180.97 | 7,660.30 | -4,256.40 | -1,116.31 | 4,257.76 | 0.00 | 0.00 | 0.00 |
| 12,900.00 | 89.53 | 180.97 | 7,661.12 | -4,356.38 | -1,118.01 | 4,357.74 | 0.00 | 0.00 | 0.00 |
| 13,000.00 | 89.53 | 180.97 | 7,661.94 | -4,456.36 | -1,119.70 | 4,457.73 | 0.00 | 0.00 | 0.00 |
| 13,100.00 | 89.53 | 180.97 | 7,662.76 | -4,556.35 | -1,121.40 | 4,557.71 | 0.00 | 0.00 | 0.00 |
| 13,200.00 | 89.53 | 180.97 | 7,663.59 | -4,656.33 | -1,123.09 | 4,657.70 | 0.00 | 0.00 | 0.00 |
| 13,300.00 | 89.53 | 180.97 | 7,664.41 | -4,756.31 | -1,124.78 | 4,757.68 | 0.00 | 0.00 | 0.00 |
| 13,400.00 | 89.53 | 180.97 | 7,665.23 | -4,856.29 | -1,126.48 | 4,857.66 | 0.00 | 0.00 | 0.00 |
| 13,500.00 | 89.53 | 180.97 | 7,666.05 | -4,956.27 | -1,128.17 | 4,957.65 | 0.00 | 0.00 | 0.00 |
| 13,600.00 | 89.53 | 180.97 | 7,666.87 | -5,056.26 | -1,129.87 | 5,057.63 | 0.00 | 0.00 | 0.00 |
| 13,700.00 | 89.53 | 180.97 | 7,667.69 | -5,156.24 | -1,131.56 | 5,157.62 | 0.00 | 0.00 | 0.00 |
| 13,800.00 | 89.53 | 180.97 | 7,668.52 | -5,256.22 | -1,133.26 | 5,257.60 | 0.00 | 0.00 | 0.00 |
| 13,900.00 | 89.53 | 180.97 | 7,669.34 | -5,356.20 | -1,134.95 | 5,357.59 | 0.00 | 0.00 | 0.00 |
| 14,000.00 | 89.53 | 180.97 | 7,670.16 | -5,456.19 | -1,136.64 | 5,457.57 | 0.00 | 0.00 | 0.00 |
| 14,100.00 | 89.53 | 180.97 | 7,670.98 | -5,556.17 | -1,138.34 | 5,557.55 | 0.00 | 0.00 | 0.00 |
| 14,200.00 | 89.53 | 180.97 | 7,671.80 | -5,656.15 | -1,140.03 | 5,657.54 | 0.00 | 0.00 | 0.00 |
| 14,300.00 | 89.53 | 180.97 | 7,672.62 | -5,756.13 | -1,141.73 | 5,757.52 | 0.00 | 0.00 | 0.00 |
| 14,400.00 | 89.53 | 180.97 | 7,673.45 | -5,856.11 | -1,143.42 | 5,857.51 | 0.00 | 0.00 | 0.00 |
| 14,500.00 | 89.53 | 180.97 | 7,674.27 | -5,956.10 | -1,145.12 | 5,957.49 | 0.00 | 0.00 | 0.00 |
| 14,600.00 | 89.53 | 180.97 | 7,675.09 | -6,056.08 | -1,146.81 | 6,057.48 | 0.00 | 0.00 | 0.00 |
| 14,700.00 | 89.53 | 180.97 | 7,675.91 | -6,156.06 | -1,148.50 | 6,157.46 | 0.00 | 0.00 | 0.00 |
| 14,786.42 | 89.53 | 180.97 | 7,676.62 | -6,242.47 | -1,149.97 | 6,243.87 | 0.00 | 0.00 | 0.00 |
| Begin Turn to BHL @ 14786.42ft | | | | | | | | | |
| 14,800.00 | 89.53 | 180.77 | 7,676.73 | -6,256.04 | -1,150.18 | 6,257.44 | 1.50 | 0.00 | -1.50 |
| 14,900.00 | 89.53 | 179.27 | 7,677.55 | -6,356.04 | -1,150.21 | 6,357.44 | 1.50 | 0.00 | -1.50 |
| 14,929.91 | 89.53 | 178.82 | 7,677.79 | -6,385.94 | -1,149.71 | 6,387.34 | 1.50 | 0.00 | -1.50 |
| End Turn @ 14929.91ft | | | | | | | | | |
| 15,000.00 | 89.53 | 178.82 | 7,678.36 | -6,456.02 | -1,148.26 | 6,457.41 | 0.00 | 0.00 | 0.00 |
| 15,100.00 | 89.53 | 178.82 | 7,679.18 | -6,555.99 | -1,146.20 | 6,557.39 | 0.00 | 0.00 | 0.00 |
| 15,200.00 | 89.53 | 178.82 | 7,679.99 | -6,655.97 | -1,144.14 | 6,657.36 | 0.00 | 0.00 | 0.00 |
| 15,300.00 | 89.53 | 178.82 | 7,680.80 | -6,755.94 | -1,142.07 | 6,757.33 | 0.00 | 0.00 | 0.00 |
| 15,400.00 | 89.53 | 178.82 | 7,681.62 | -6,855.92 | -1,140.01 | 6,857.31 | 0.00 | 0.00 | 0.00 |
| 15,500.00 | 89.53 | 178.82 | 7,682.43 | -6,955.89 | -1,137.95 | 6,957.28 | 0.00 | 0.00 | 0.00 |
| 15,600.00 | 89.53 | 178.82 | 7,683.24 | -7,055.87 | -1,135.89 | 7,057.25 | 0.00 | 0.00 | 0.00 |
| 15,700.00 | 89.53 | 178.82 | 7,684.06 | -7,155.84 | -1,133.83 | 7,157.22 | 0.00 | 0.00 | 0.00 |
| 15,800.00 | 89.53 | 178.82 | 7,684.87 | -7,255.82 | -1,131.76 | 7,257.20 | 0.00 | 0.00 | 0.00 |
| 15,900.00 | 89.53 | 178.82 | 7,685.68 | -7,355.79 | -1,129.70 | 7,357.17 | 0.00 | 0.00 | 0.00 |
| 16,000.00 | 89.53 | 178.82 | 7,686.50 | -7,455.77 | -1,127.64 | 7,457.14 | 0.00 | 0.00 | 0.00 |
| 16,100.00 | 89.53 | 178.82 | 7,687.31 | -7,555.75 | -1,125.58 | 7,557.12 | 0.00 | 0.00 | 0.00 |
| 16,200.00 | 89.53 | 178.82 | 7,688.12 | -7,655.72 | -1,123.52 | 7,657.09 | 0.00 | 0.00 | 0.00 |
| 16,300.00 | 89.53 | 178.82 | 7,688.94 | -7,755.70 | -1,121.46 | 7,757.06 | 0.00 | 0.00 | 0.00 |
| 16,400.00 | 89.53 | 178.82 | 7,689.75 | -7,855.67 | -1,119.39 | 7,857.03 | 0.00 | 0.00 | 0.00 |
| 16,500.00 | 89.53 | 178.82 | 7,690.56 | -7,955.65 | -1,117.33 | 7,957.01 | 0.00 | 0.00 | 0.00 |
| 16,600.00 | 89.53 | 178.82 | 7,691.37 | -8,055.62 | -1,115.27 | 8,056.98 | 0.00 | 0.00 | 0.00 |
| 16,700.00 | 89.53 | 178.82 | 7,692.19 | -8,155.60 | -1,113.21 | 8,156.95 | 0.00 | 0.00 | 0.00 |
| 16,800.00 | 89.53 | 178.82 | 7,693.00 | -8,255.57 | -1,111.15 | 8,256.92 | 0.00 | 0.00 | 0.00 |
| 16,900.00 | 89.53 | 178.82 | 7,693.81 | -8,355.55 | -1,109.08 | 8,356.90 | 0.00 | 0.00 | 0.00 |
| 17,000.00 | 89.53 | 178.82 | 7,694.63 | -8,455.52 | -1,107.02 | 8,456.87 | 0.00 | 0.00 | 0.00 |
| 17,100.00 | 89.53 | 178.82 | 7,695.44 | -8,555.50 | -1,104.96 | 8,556.84 | 0.00 | 0.00 | 0.00 |
| 17,200.00 | 89.53 | 178.82 | 7,696.25 | -8,655.48 | -1,102.90 | 8,656.82 | 0.00 | 0.00 | 0.00 |
| 17,300.00 | 89.53 | 178.82 | 7,697.07 | -8,755.45 | -1,100.84 | 8,756.79 | 0.00 | 0.00 | 0.00 |
| 17,400.00 | 89.53 | 178.82 | 7,697.88 | -8,855.43 | -1,098.77 | 8,856.76 | 0.00 | 0.00 | 0.00 |
| 17,500.00 | 89.53 | 178.82 | 7,698.69 | -8,955.40 | -1,096.71 | 8,956.73 | 0.00 | 0.00 | 0.00 |
| 17,600.00 | 89.53 | 178.82 | 7,699.51 | -9,055.38 | -1,094.65 | 9,056.71 | 0.00 | 0.00 | 0.00 |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| 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) | |
| 17,700.00 | 89.53 | 178.82 | 7,700.32 | -9,155.35 | -1,092.59 | 9,156.68 | 0.00 | 0.00 | 0.00 | |
| 17,800.00 | 89.53 | 178.82 | 7,701.13 | -9,255.33 | -1,090.53 | 9,256.65 | 0.00 | 0.00 | 0.00 | |
| 17,900.00 | 89.53 | 178.82 | 7,701.95 | -9,355.30 | -1,088.46 | 9,356.63 | 0.00 | 0.00 | 0.00 | |
| 18,000.00 | 89.53 | 178.82 | 7,702.76 | -9,455.28 | -1,086.40 | 9,456.60 | 0.00 | 0.00 | 0.00 | |
| 18,100.00 | 89.53 | 178.82 | 7,703.57 | -9,555.25 | -1,084.34 | 9,556.57 | 0.00 | 0.00 | 0.00 | |
| 18,200.00 | 89.53 | 178.82 | 7,704.39 | -9,655.23 | -1,082.28 | 9,656.54 | 0.00 | 0.00 | 0.00 | |
| 18,300.00 | 89.53 | 178.82 | 7,705.20 | -9,755.21 | -1,080.22 | 9,756.52 | 0.00 | 0.00 | 0.00 | |
| 18,400.00 | 89.53 | 178.82 | 7,706.01 | -9,855.18 | -1,078.15 | 9,856.49 | 0.00 | 0.00 | 0.00 | |
| 18,500.00 | 89.53 | 178.82 | 7,706.83 | -9,955.16 | -1,076.09 | 9,956.46 | 0.00 | 0.00 | 0.00 | |
| 18,600.00 | 89.53 | 178.82 | 7,707.64 | -10,055.13 | -1,074.03 | 10,056.44 | 0.00 | 0.00 | 0.00 | |
| 18,700.00 | 89.53 | 178.82 | 7,708.45 | -10,155.11 | -1,071.97 | 10,156.41 | 0.00 | 0.00 | 0.00 | |
| 18,800.00 | 89.53 | 178.82 | 7,709.27 | -10,255.08 | -1,069.91 | 10,256.38 | 0.00 | 0.00 | 0.00 | |
| 18,900.00 | 89.53 | 178.82 | 7,710.08 | -10,355.06 | -1,067.84 | 10,356.35 | 0.00 | 0.00 | 0.00 | |
| 19,000.00 | 89.53 | 178.82 | 7,710.89 | -10,455.03 | -1,065.78 | 10,456.33 | 0.00 | 0.00 | 0.00 | |
| 19,100.00 | 89.53 | 178.82 | 7,711.71 | -10,555.01 | -1,063.72 | 10,556.30 | 0.00 | 0.00 | 0.00 | |
| 19,200.00 | 89.53 | 178.82 | 7,712.52 | -10,654.98 | -1,061.66 | 10,656.27 | 0.00 | 0.00 | 0.00 | |
| 19,300.00 | 89.53 | 178.82 | 7,713.33 | -10,754.96 | -1,059.60 | 10,756.25 | 0.00 | 0.00 | 0.00 | |
| 19,400.00 | 89.53 | 178.82 | 7,714.14 | -10,854.93 | -1,057.54 | 10,856.22 | 0.00 | 0.00 | 0.00 | |
| 19,500.00 | 89.53 | 178.82 | 7,714.96 | -10,954.91 | -1,055.47 | 10,956.19 | 0.00 | 0.00 | 0.00 | |
| 19,600.00 | 89.53 | 178.82 | 7,715.77 | -11,054.89 | -1,053.41 | 11,056.16 | 0.00 | 0.00 | 0.00 | |
| 19,700.00 | 89.53 | 178.82 | 7,716.58 | -11,154.86 | -1,051.35 | 11,156.14 | 0.00 | 0.00 | 0.00 | |
| 19,800.00 | 89.53 | 178.82 | 7,717.40 | -11,254.84 | -1,049.29 | 11,256.11 | 0.00 | 0.00 | 0.00 | |
| 19,900.00 | 89.53 | 178.82 | 7,718.21 | -11,354.81 | -1,047.23 | 11,356.08 | 0.00 | 0.00 | 0.00 | |
| 20,000.00 | 89.53 | 178.82 | 7,719.02 | -11,454.79 | -1,045.16 | 11,456.06 | 0.00 | 0.00 | 0.00 | |
| 20,100.00 | 89.53 | 178.82 | 7,719.84 | -11,554.76 | -1,043.10 | 11,556.03 | 0.00 | 0.00 | 0.00 | |
| 20,120.01 | 89.53 | 178.82 | 7,720.00 | -11,574.77 | -1,042.69 | 11,576.03 | 0.00 | 0.00 | 0.00 | |
| TD Well @ 20120.01ft | | | | | | | | | | |

| Casing Points | | | | | |
|-----------------------|-----------------------|-------------------|---------------------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 1,521.48 | 1,500.00 | 9 5/8" Csg | 9-5/8 | 13-1/2 | |
| 8,260.89 | 7,623.00 | Top of Production | 5-1/2 | 7-7/8 | |

| Formations | | | | | |
|-----------------------|-----------------------|----------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 983.89 | 980.00 | Fox Hills | | | |
| 4,237.14 | 4,040.00 | Parkman | | | |
| 4,758.37 | 4,532.00 | Sussex | | | |
| 7,473.70 | 7,227.00 | Sharon Springs | | | |
| 7,568.80 | 7,309.00 | Niobrara | | | |
| 7,661.33 | 7,382.00 | Nio B | | | |
| 7,788.21 | 7,469.00 | Nio C | | | |
| 8,035.47 | 7,586.00 | Fort Hayes | | | |
| 8,124.79 | 7,609.00 | Codell | | | |

Corporate Planning Report

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | PLANNING | Local Co-ordinate Reference: | Well NELSON 35-3HZ |
| Company: | US ROCKIES WATTENBERG PLANNING | TVD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Project: | WELD-NAD83-UTMFT13N | MD Reference: | RKB = 17' @ 4969.00usft (Drilling Rig) |
| Site: | 2N-68W-35 NELSON 28-35HZ PAD | North Reference: | True |
| Well: | NELSON 35-3HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Plan B | | |
| Design: | Permit Rev-1 | | |

| Plan Annotations | | | | |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 285.00 | 285.00 | 0.00 | 0.00 | Begin Nudge @ 285.00ft |
| 1,670.33 | 1,640.16 | 172.60 | -178.74 | Hold Tangent @ 1670.33ft |
| 4,470.33 | 4,258.02 | 862.67 | -893.32 | Begin Drop @ 4470.33ft |
| 5,509.33 | 5,274.39 | 992.12 | -1,027.37 | Hold Vertical @ 5509.33ft |
| 7,141.77 | 6,906.83 | 992.12 | -1,027.37 | KOP @ 7141.77ft :: DLS = 8°/100' |
| 8,260.89 | 7,623.00 | 281.91 | -1,039.41 | End Build @ 8260.89ft |
| 14,786.42 | 7,676.62 | -6,242.47 | -1,149.97 | Begin Turn to BHL @ 14786.42ft |
| 14,929.91 | 7,677.79 | -6,385.94 | -1,149.71 | End Turn @ 14929.91ft |
| 20,120.01 | 7,720.00 | -11,574.77 | -1,042.69 | TD Well @ 20120.01ft |