

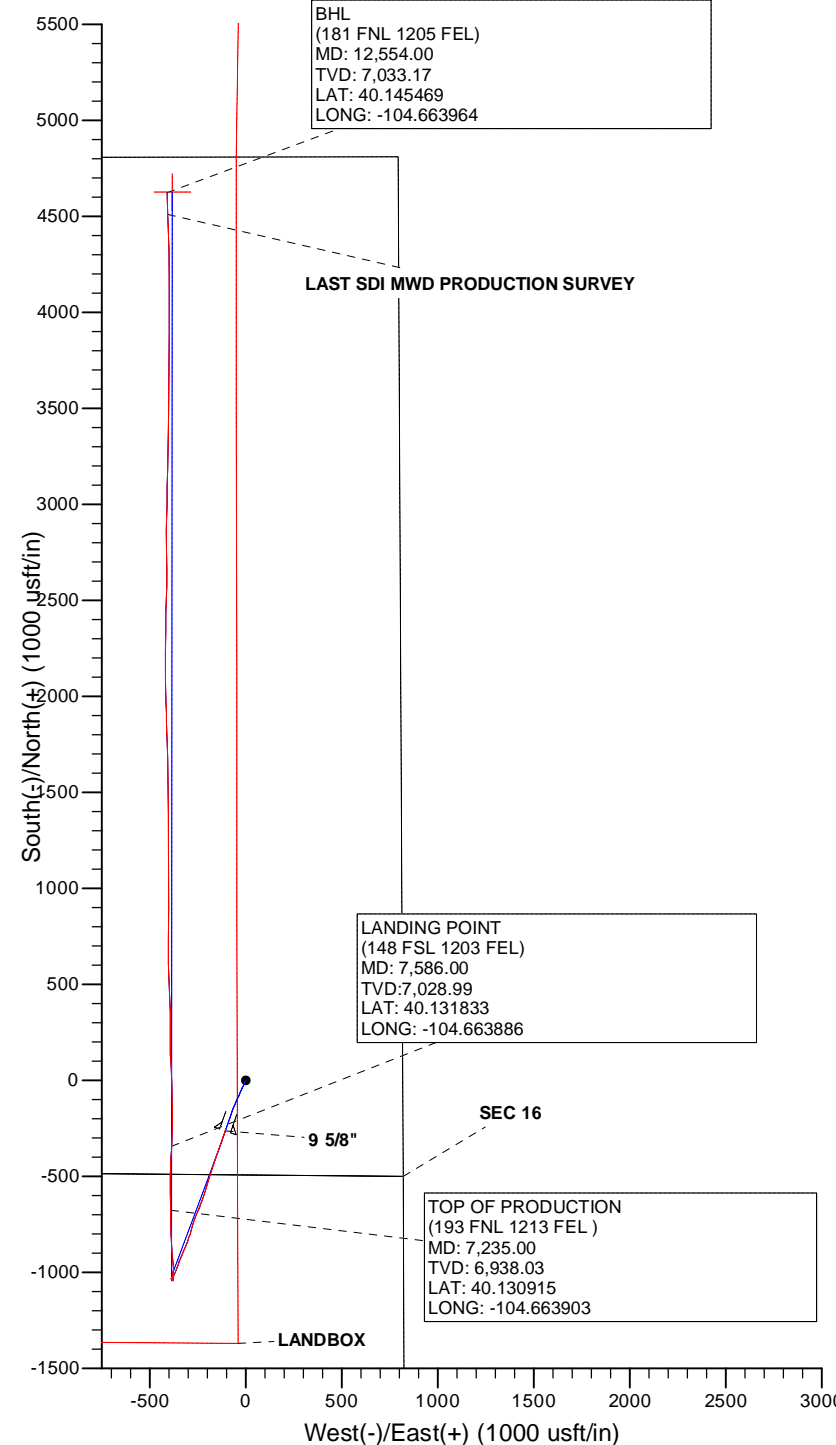
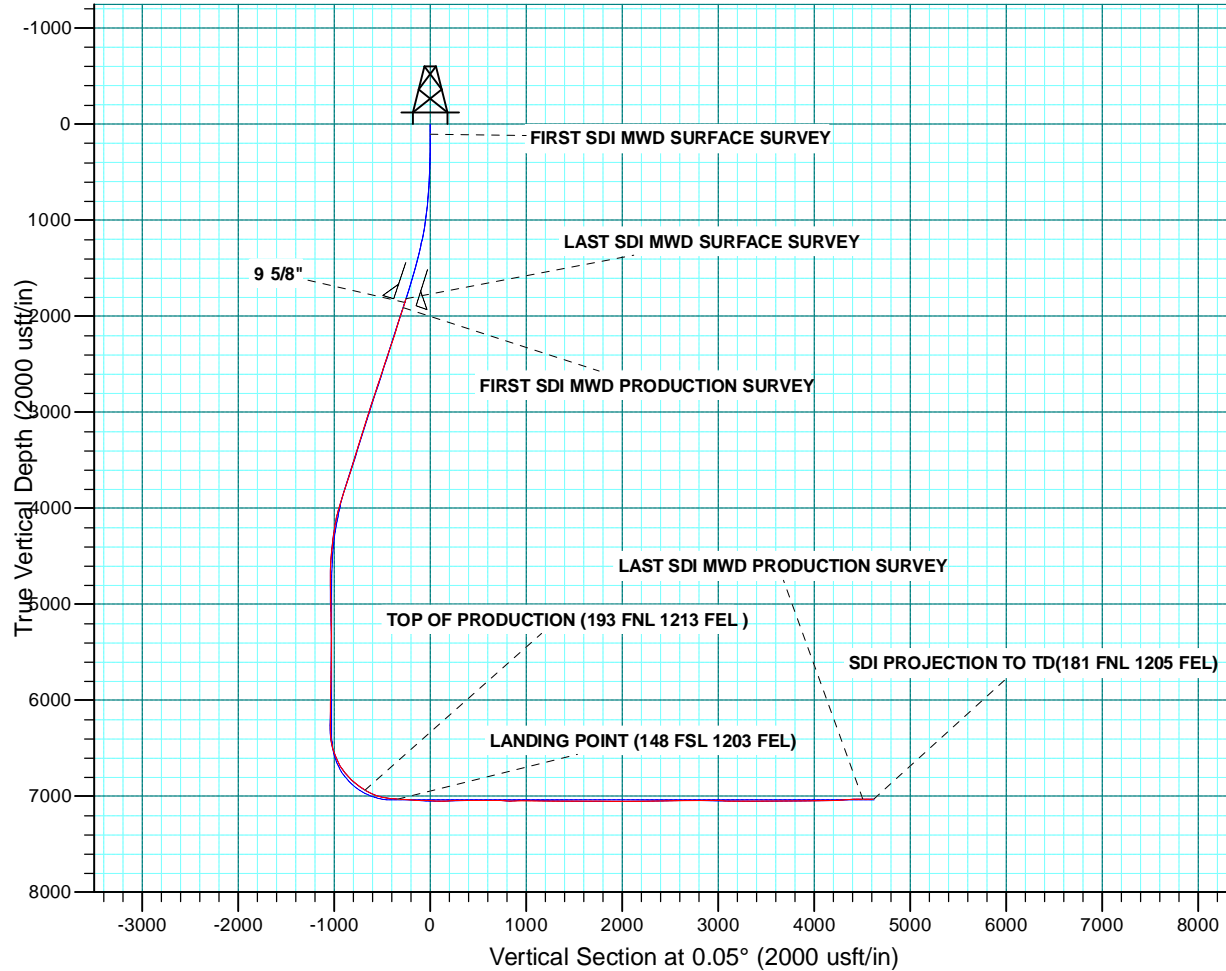
WELL DETAILS: COOK 27N-16HZ

GL 4878 & KB 25 @ 4903.00usft (HP 307)

| +N/-S | +E/-W | Northing    | Easting    | Latitude  | Longitude   |
|-------|-------|-------------|------------|-----------|-------------|
| 0.00  | 0.00  | 14575261.23 | 1734750.50 | 40.132773 | -104.662501 |

PROJECT DETAILS: WELD-NAD83-UTMFT13N

Geodetic System: Universal Transverse Mercator (US Survey Feet)  
 Datum: North American Datum 1983  
 Ellipsoid: GRS 1980  
 Zone: Zone 13N (108 W to 102 W)  
 Location:  
 System Datum: Mean Sea Level



|                  |                                |                                     |  |
|------------------|--------------------------------|-------------------------------------|--|
| <b>Company:</b>  | US ROCKIES WATTENBERG PLANNING | <b>Local Co-ordinate Reference:</b> | Well COOK 27N-16HZ                     |
| <b>Project:</b>  | WELD-NAD83-UTMFT13N            | <b>TVD Reference:</b>               | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Site:</b>     | 2N-65W-16 Cook 16-16HZ         | <b>MD Reference:</b>                | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Well:</b>     | COOK 27N-16HZ                  | <b>North Reference:</b>             | True                                   |
| <b>Wellbore:</b> | Plan A                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Plan A                         | <b>Database:</b>                    | Denver Sales                           |

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

|                              |                        |                          |                    |
|------------------------------|------------------------|--------------------------|--------------------|
| <b>Site</b>                  | 2N-65W-16 Cook 16-16HZ |                          |                    |
| <b>Site Position:</b>        |                        | <b>Northing:</b>         | 14,575,370.71 usft |
| <b>From:</b>                 | Lat/Long               | <b>Easting:</b>          | 1,734,893.26 usft  |
| <b>Position Uncertainty:</b> | 0.00 usft              | <b>Slot Radius:</b>      | 13.200 in          |
|                              |                        | <b>Latitude:</b>         | 40.133073          |
|                              |                        | <b>Longitude:</b>        | -104.661989        |
|                              |                        | <b>Grid Convergence:</b> | 0.22 °             |

|                             |               |                            |                  |
|-----------------------------|---------------|----------------------------|------------------|
| <b>Well</b>                 | COOK 27N-16HZ |                            |                  |
| <b>Well Position</b>        | <b>+N/-S</b>  | 0.00 usft                  | <b>Northing:</b> |
|                             | <b>+E/-W</b>  | 0.00 usft                  | <b>Easting:</b>  |
| <b>Position Uncertainty</b> | 3.28 usft     | <b>Wellhead Elevation:</b> | 0.00 usft        |
|                             |               | <b>Latitude:</b>           | 40.132773        |
|                             |               | <b>Longitude:</b>          | -104.662501      |
|                             |               | <b>Ground Level:</b>       | 4,878.00 usft    |

|                  |                   |                    |                            |
|------------------|-------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | Plan A            |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | HDGM              | 10/18/2015         | 8.38                       |
|                  |                   |                    | <b>Dip Angle (°)</b>       |
|                  |                   |                    | 66.67                      |
|                  |                   |                    | <b>Field Strength (nT)</b> |
|                  |                   |                    | 52,487                     |

|                          |                                |                      |                      |
|--------------------------|--------------------------------|----------------------|----------------------|
| <b>Design</b>            | Plan A                         |                      |                      |
| <b>Audit Notes:</b>      |                                |                      |                      |
| <b>Version:</b>          | 1.0                            | <b>Phase:</b>        | ACTUAL               |
|                          |                                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b>  | <b>+E/-W (usft)</b>  |
|                          | 0.00                           | 0.00                 | 0.00                 |
|                          |                                |                      | <b>Direction (°)</b> |
|                          |                                |                      | 0.05                 |

|                       |                  |                                       |                       |                                    |
|-----------------------|------------------|---------------------------------------|-----------------------|------------------------------------|
| <b>Survey Program</b> | <b>Date</b>      | 1/4/2016                              |                       |                                    |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>              | <b>Tool Name</b>      | <b>Description</b>                 |
| 18.00                 | 1,849.00         | Survey #1 SDI MWD SURFACE (Plan A)    | APC_ISCWSA REV 2 MWD  | Fixed:v2:standard declination      |
| 1,952.00              | 12,554.00        | Survey #2 SDI MWD PRODUCTION (Plan A) | APC_ISCWSA REV 2 MWD+ | Fixed:v2:crustal field declination |

|                                     |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
|-------------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|-------------------------------|------------------------------|--|
| <b>Survey</b>                       |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| <b>Measured Depth (usft)</b>        | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Vertical Section (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> |  |
| 0.00                                | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 18.00                               | 0.00                   | 0.00               | 18.00                        | 0.00                | 0.00                | 0.00                           | 0.00                           | 0.00                          | 0.00                         |  |
| 104.00                              | 0.45                   | 128.02             | 104.00                       | -0.21               | 0.27                | -0.21                          | 0.52                           | 0.52                          | 0.00                         |  |
| <b>FIRST SDI MWD SURFACE SURVEY</b> |                        |                    |                              |                     |                     |                                |                                |                               |                              |  |
| 191.00                              | 0.67                   | 207.09             | 191.00                       | -0.87               | 0.30                | -0.87                          | 0.84                           | 0.25                          | 90.89                        |  |
| 281.00                              | 1.27                   | 216.28             | 280.98                       | -2.14               | -0.53               | -2.14                          | 0.69                           | 0.67                          | 10.21                        |  |
| 388.00                              | 1.96                   | 218.13             | 387.94                       | -4.54               | -2.36               | -4.54                          | 0.65                           | 0.64                          | 1.73                         |  |
| 478.00                              | 1.92                   | 216.25             | 477.89                       | -6.97               | -4.20               | -6.97                          | 0.08                           | -0.04                         | -2.09                        |  |
| 568.00                              | 2.41                   | 204.35             | 567.82                       | -9.91               | -5.87               | -9.91                          | 0.74                           | 0.54                          | -13.22                       |  |
| 658.00                              | 3.77                   | 197.89             | 657.69                       | -14.45              | -7.56               | -14.45                         | 1.56                           | 1.51                          | -7.18                        |  |

|                  |                                |                                     |  |
|------------------|--------------------------------|-------------------------------------|--|
| <b>Company:</b>  | US ROCKIES WATTENBERG PLANNING | <b>Local Co-ordinate Reference:</b> | Well COOK 27N-16HZ                     |
| <b>Project:</b>  | WELD-NAD83-UTMFT13N            | <b>TVD Reference:</b>               | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Site:</b>     | 2N-65W-16 Cook 16-16HZ         | <b>MD Reference:</b>                | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Well:</b>     | COOK 27N-16HZ                  | <b>North Reference:</b>             | True                                   |
| <b>Wellbore:</b> | Plan A                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Plan A                         | <b>Database:</b>                    | Denver Sales                           |

| 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) |  |
| 748.00                          | 5.31            | 204.17      | 747.41                | -21.06       | -10.17       | -21.07                  | 1.80                    | 1.71                   | 6.98                  |  |
| 838.00                          | 6.24            | 202.70      | 836.95                | -29.37       | -13.77       | -29.38                  | 1.05                    | 1.03                   | -1.63                 |  |
| 932.00                          | 8.10            | 203.36      | 930.21                | -40.17       | -18.37       | -40.18                  | 1.98                    | 1.98                   | 0.70                  |  |
| 1,019.00                        | 9.30            | 205.12      | 1,016.21              | -52.16       | -23.78       | -52.18                  | 1.41                    | 1.38                   | 2.02                  |  |
| 1,109.00                        | 10.96           | 204.66      | 1,104.80              | -66.52       | -30.44       | -66.55                  | 1.85                    | 1.84                   | -0.51                 |  |
| 1,199.00                        | 11.98           | 204.07      | 1,193.00              | -82.82       | -37.82       | -82.86                  | 1.14                    | 1.13                   | -0.66                 |  |
| 1,289.00                        | 13.23           | 204.42      | 1,280.83              | -100.73      | -45.88       | -100.77                 | 1.39                    | 1.39                   | 0.39                  |  |
| 1,379.00                        | 14.52           | 202.38      | 1,368.20              | -120.54      | -54.44       | -120.59                 | 1.53                    | 1.43                   | -2.27                 |  |
| 1,514.00                        | 16.45           | 201.71      | 1,498.30              | -153.95      | -67.95       | -154.01                 | 1.44                    | 1.43                   | -0.50                 |  |
| 1,604.00                        | 17.35           | 200.67      | 1,584.41              | -178.35      | -77.40       | -178.41                 | 1.05                    | 1.00                   | -1.16                 |  |
| 1,695.00                        | 18.41           | 198.91      | 1,671.01              | -204.64      | -86.85       | -204.71                 | 1.31                    | 1.16                   | -1.93                 |  |
| 1,785.00                        | 18.48           | 199.22      | 1,756.39              | -231.55      | -96.15       | -231.63                 | 0.13                    | 0.08                   | 0.34                  |  |
| 1,849.00                        | 18.91           | 197.99      | 1,817.01              | -250.99      | -102.69      | -251.08                 | 0.91                    | 0.67                   | -1.92                 |  |
| LAST SDI MWD SURFACE SURVEY     |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 1,891.00                        | 18.80           | 198.23      | 1,856.76              | -263.89      | -106.91      | -263.99                 | 0.31                    | -0.25                  | 0.57                  |  |
| 9 5/8"                          |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 1,952.00                        | 18.65           | 198.58      | 1,914.53              | -282.48      | -113.10      | -282.58                 | 0.31                    | -0.25                  | 0.58                  |  |
| FIRST SDI MWD PRODUCTION SURVEY |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 2,047.00                        | 19.42           | 200.60      | 2,004.34              | -311.66      | -123.49      | -311.77                 | 1.07                    | 0.81                   | 2.13                  |  |
| 2,141.00                        | 19.16           | 200.28      | 2,093.06              | -340.76      | -134.34      | -340.87                 | 0.30                    | -0.28                  | -0.34                 |  |
| 2,236.00                        | 18.45           | 200.00      | 2,182.99              | -369.51      | -144.88      | -369.63                 | 0.75                    | -0.75                  | -0.29                 |  |
| 2,330.00                        | 19.41           | 199.51      | 2,271.90              | -398.21      | -155.19      | -398.34                 | 1.04                    | 1.02                   | -0.52                 |  |
| 2,424.00                        | 18.92           | 199.26      | 2,360.69              | -427.32      | -165.43      | -427.46                 | 0.53                    | -0.52                  | -0.27                 |  |
| 2,519.00                        | 19.20           | 197.61      | 2,450.49              | -456.75      | -175.24      | -456.90                 | 0.64                    | 0.29                   | -1.74                 |  |
| 2,613.00                        | 18.65           | 195.65      | 2,539.40              | -485.95      | -183.97      | -486.11                 | 0.89                    | -0.59                  | -2.09                 |  |
| 2,708.00                        | 18.68           | 196.04      | 2,629.41              | -515.20      | -192.27      | -515.37                 | 0.14                    | 0.03                   | 0.41                  |  |
| 2,802.00                        | 19.62           | 196.42      | 2,718.21              | -544.80      | -200.89      | -544.98                 | 1.01                    | 1.00                   | 0.40                  |  |
| 2,897.00                        | 18.97           | 195.65      | 2,807.87              | -574.97      | -209.56      | -575.16                 | 0.73                    | -0.68                  | -0.81                 |  |
| 2,991.00                        | 19.11           | 200.85      | 2,896.73              | -604.07      | -219.16      | -604.26                 | 1.81                    | 0.15                   | 5.53                  |  |
| 3,086.00                        | 18.80           | 200.55      | 2,986.58              | -632.93      | -230.07      | -633.13                 | 0.34                    | -0.33                  | -0.32                 |  |
| 3,180.00                        | 18.87           | 203.88      | 3,075.55              | -661.02      | -241.54      | -661.23                 | 1.15                    | 0.07                   | 3.54                  |  |
| 3,274.00                        | 18.45           | 203.12      | 3,164.61              | -688.59      | -253.54      | -688.82                 | 0.52                    | -0.45                  | -0.81                 |  |
| 3,369.00                        | 18.65           | 198.61      | 3,254.68              | -716.82      | -264.29      | -717.05                 | 1.52                    | 0.21                   | -4.75                 |  |
| 3,463.00                        | 19.42           | 197.41      | 3,343.54              | -745.97      | -273.76      | -746.21                 | 0.92                    | 0.82                   | -1.28                 |  |
| 3,558.00                        | 17.82           | 195.39      | 3,433.56              | -775.06      | -282.34      | -775.31                 | 1.82                    | -1.68                  | -2.13                 |  |
| 3,652.00                        | 17.28           | 197.40      | 3,523.19              | -802.25      | -290.34      | -802.50                 | 0.86                    | -0.57                  | 2.14                  |  |
| 3,747.00                        | 17.98           | 200.17      | 3,613.73              | -829.48      | -299.61      | -829.74                 | 1.15                    | 0.74                   | 2.92                  |  |
| 3,841.00                        | 19.32           | 202.28      | 3,702.79              | -857.49      | -310.51      | -857.76                 | 1.60                    | 1.43                   | 2.24                  |  |
| 3,935.00                        | 18.58           | 202.21      | 3,791.70              | -885.74      | -322.07      | -886.02                 | 0.79                    | -0.79                  | -0.07                 |  |
| 4,030.00                        | 18.54           | 202.45      | 3,881.75              | -913.71      | -333.55      | -914.00                 | 0.09                    | -0.04                  | 0.25                  |  |
| 4,124.00                        | 17.20           | 201.38      | 3,971.22              | -940.47      | -344.33      | -940.77                 | 1.47                    | -1.43                  | -1.14                 |  |
| 4,219.00                        | 15.10           | 201.00      | 4,062.46              | -965.10      | -353.88      | -965.41                 | 2.21                    | -2.21                  | -0.40                 |  |
| 4,313.00                        | 12.17           | 197.39      | 4,153.81              | -985.99      | -361.24      | -986.31                 | 3.24                    | -3.12                  | -3.84                 |  |
| 4,408.00                        | 9.26            | 208.04      | 4,247.15              | -1,002.30    | -367.82      | -1,002.62               | 3.69                    | -3.06                  | 11.21                 |  |

|                  |                                |                                     |  |
|------------------|--------------------------------|-------------------------------------|--|
| <b>Company:</b>  | US ROCKIES WATTENBERG PLANNING | <b>Local Co-ordinate Reference:</b> | Well COOK 27N-16HZ                     |
| <b>Project:</b>  | WELD-NAD83-UTMFT13N            | <b>TVD Reference:</b>               | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Site:</b>     | 2N-65W-16 Cook 16-16HZ         | <b>MD Reference:</b>                | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Well:</b>     | COOK 27N-16HZ                  | <b>North Reference:</b>             | True                                   |
| <b>Wellbore:</b> | Plan A                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Plan A                         | <b>Database:</b>                    | Denver Sales                           |

| 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) |
| 4,502.00                              | 8.27            | 208.16      | 4,340.05              | -1,014.93    | -374.57      | -1,015.26               | 1.05                    | -1.05                  | 0.13                  |
| 4,597.00                              | 6.29            | 200.20      | 4,434.28              | -1,025.84    | -379.59      | -1,026.17               | 2.33                    | -2.08                  | -8.38                 |
| 4,691.00                              | 4.85            | 194.06      | 4,527.84              | -1,034.53    | -382.33      | -1,034.86               | 1.66                    | -1.53                  | -6.53                 |
| 4,786.00                              | 2.63            | 189.52      | 4,622.63              | -1,040.58    | -383.67      | -1,040.91               | 2.36                    | -2.34                  | -4.78                 |
| 4,880.00                              | 1.02            | 244.33      | 4,716.58              | -1,043.07    | -384.78      | -1,043.40               | 2.35                    | -1.71                  | 58.31                 |
| 4,975.00                              | 1.09            | 312.09      | 4,811.57              | -1,042.83    | -386.21      | -1,043.16               | 1.24                    | 0.07                   | 71.33                 |
| 5,069.00                              | 1.38            | 343.71      | 4,905.55              | -1,041.14    | -387.20      | -1,041.48               | 0.77                    | 0.31                   | 33.64                 |
| 5,164.00                              | 1.91            | 353.35      | 5,000.51              | -1,038.47    | -387.70      | -1,038.81               | 0.63                    | 0.56                   | 10.15                 |
| 5,258.00                              | 2.01            | 356.47      | 5,094.46              | -1,035.27    | -387.98      | -1,035.61               | 0.16                    | 0.11                   | 3.32                  |
| 5,353.00                              | 1.20            | 359.14      | 5,189.42              | -1,032.61    | -388.10      | -1,032.95               | 0.86                    | -0.85                  | 2.81                  |
| 5,448.00                              | 1.32            | 32.05       | 5,284.40              | -1,030.69    | -387.53      | -1,031.03               | 0.76                    | 0.13                   | 34.64                 |
| 5,542.00                              | 2.00            | 90.53       | 5,378.36              | -1,029.79    | -385.32      | -1,030.12               | 1.84                    | 0.72                   | 62.21                 |
| 5,637.00                              | 2.14            | 91.47       | 5,473.30              | -1,029.85    | -381.89      | -1,030.18               | 0.15                    | 0.15                   | 0.99                  |
| 5,731.00                              | 1.20            | 122.51      | 5,567.26              | -1,030.42    | -379.30      | -1,030.75               | 1.35                    | -1.00                  | 33.02                 |
| 5,826.00                              | 1.14            | 145.14      | 5,662.24              | -1,031.73    | -377.93      | -1,032.06               | 0.49                    | -0.06                  | 23.82                 |
| 5,920.00                              | 1.01            | 147.59      | 5,756.22              | -1,033.20    | -376.95      | -1,033.53               | 0.15                    | -0.14                  | 2.61                  |
| 6,014.00                              | 0.61            | 151.91      | 5,850.21              | -1,034.34    | -376.27      | -1,034.67               | 0.43                    | -0.43                  | 4.60                  |
| 6,109.00                              | 0.57            | 135.43      | 5,945.21              | -1,035.12    | -375.70      | -1,035.45               | 0.18                    | -0.04                  | -17.35                |
| 6,204.00                              | 0.38            | 136.57      | 6,040.21              | -1,035.69    | -375.15      | -1,036.02               | 0.20                    | -0.20                  | 1.20                  |
| 6,298.00                              | 1.97            | 189.97      | 6,134.19              | -1,037.51    | -375.21      | -1,037.83               | 1.88                    | 1.69                   | 56.81                 |
| 6,393.00                              | 1.79            | 193.14      | 6,229.13              | -1,040.56    | -375.83      | -1,040.89               | 0.22                    | -0.19                  | 3.34                  |
| 6,487.00                              | 1.36            | 298.02      | 6,323.11              | -1,041.47    | -377.15      | -1,041.79               | 2.67                    | -0.46                  | 111.57                |
| 6,582.00                              | 9.74            | 357.10      | 6,417.61              | -1,032.89    | -378.56      | -1,033.22               | 9.60                    | 8.82                   | 62.19                 |
| 6,677.00                              | 17.50           | 2.01        | 6,509.88              | -1,010.56    | -378.46      | -1,010.89               | 8.25                    | 8.17                   | 5.17                  |
| 6,771.00                              | 20.42           | 3.60        | 6,598.77              | -980.06      | -376.94      | -980.39                 | 3.15                    | 3.11                   | 1.69                  |
| 6,866.00                              | 31.28           | 355.12      | 6,684.16              | -938.81      | -378.00      | -939.14                 | 12.05                   | 11.43                  | -8.93                 |
| 6,960.00                              | 39.10           | 355.25      | 6,760.92              | -884.87      | -382.54      | -885.20                 | 8.32                    | 8.32                   | 0.14                  |
| 7,055.00                              | 46.71           | 355.88      | 6,830.46              | -820.43      | -387.51      | -820.77                 | 8.02                    | 8.01                   | 0.66                  |
| 7,149.00                              | 53.93           | 358.69      | 6,890.44              | -748.23      | -390.84      | -748.57                 | 8.02                    | 7.68                   | 2.99                  |
| 7,235.00                              | 58.86           | 359.70      | 6,938.03              | -676.63      | -391.83      | -676.97                 | 5.82                    | 5.74                   | 1.18                  |
| TOP OF PRODUCTION (193 FNL 1213 FEL ) |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,244.00                              | 59.38           | 359.80      | 6,942.64              | -668.91      | -391.86      | -669.25                 | 5.82                    | 5.74                   | 1.11                  |
| 7,338.00                              | 67.28           | 357.97      | 6,984.81              | -585.00      | -393.54      | -585.34                 | 8.58                    | 8.40                   | -1.95                 |
| 7,433.00                              | 78.98           | 1.65        | 7,012.34              | -494.26      | -393.75      | -494.60                 | 12.86                   | 12.32                  | 3.87                  |
| 7,527.00                              | 85.77           | 2.74        | 7,024.80              | -401.22      | -390.18      | -401.56                 | 7.31                    | 7.22                   | 1.16                  |
| 7,586.00                              | 86.08           | 2.90        | 7,028.99              | -342.44      | -387.28      | -342.77                 | 0.59                    | 0.53                   | 0.26                  |
| LANDING POINT (148 FSL 1203 FEL)      |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,622.00                              | 86.27           | 2.99        | 7,031.40              | -306.56      | -385.44      | -306.90                 | 0.59                    | 0.53                   | 0.26                  |
| 7,716.00                              | 85.94           | 0.21        | 7,037.78              | -212.83      | -382.82      | -213.16                 | 2.97                    | -0.35                  | -2.96                 |
| 7,810.00                              | 87.55           | 358.81      | 7,043.12              | -118.99      | -383.63      | -119.32                 | 2.27                    | 1.71                   | -1.49                 |
| 7,905.00                              | 87.45           | 357.34      | 7,047.26              | -24.13       | -386.81      | -24.47                  | 1.55                    | -0.11                  | -1.55                 |
| 7,999.00                              | 89.09           | 357.79      | 7,050.10              | 69.74        | -390.81      | 69.39                   | 1.81                    | 1.74                   | 0.48                  |
| 8,094.00                              | 91.68           | 358.99      | 7,049.46              | 164.69       | -393.47      | 164.34                  | 3.00                    | 2.73                   | 1.26                  |

|                  |                                |                                     |  |
|------------------|--------------------------------|-------------------------------------|--|
| <b>Company:</b>  | US ROCKIES WATTENBERG PLANNING | <b>Local Co-ordinate Reference:</b> | Well COOK 27N-16HZ                     |
| <b>Project:</b>  | WELD-NAD83-UTMFT13N            | <b>TVD Reference:</b>               | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Site:</b>     | 2N-65W-16 Cook 16-16HZ         | <b>MD Reference:</b>                | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Well:</b>     | COOK 27N-16HZ                  | <b>North Reference:</b>             | True                                   |
| <b>Wellbore:</b> | Plan A                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Plan A                         | <b>Database:</b>                    | Denver Sales                           |

| 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) |  |
| 8,188.00              | 90.84           | 359.97      | 7,047.40              | 258.66       | -394.33      | 258.31                  | 1.37                    | -0.89                  | 1.04                  |  |
| 8,283.00              | 91.24           | 359.27      | 7,045.67              | 353.64       | -394.96      | 353.29                  | 0.85                    | 0.42                   | -0.74                 |  |
| 8,378.00              | 90.30           | 358.09      | 7,044.40              | 448.60       | -397.14      | 448.26                  | 1.59                    | -0.99                  | -1.24                 |  |
| 8,472.00              | 89.50           | 357.59      | 7,044.56              | 542.53       | -400.69      | 542.18                  | 1.00                    | -0.85                  | -0.53                 |  |
| 8,567.00              | 88.82           | 359.76      | 7,045.95              | 637.49       | -402.88      | 637.14                  | 2.39                    | -0.72                  | 2.28                  |  |
| 8,661.00              | 89.30           | 0.80        | 7,047.49              | 731.48       | -402.42      | 731.13                  | 1.22                    | 0.51                   | 1.11                  |  |
| 8,756.00              | 90.00           | 0.01        | 7,048.07              | 826.47       | -401.75      | 826.12                  | 1.11                    | 0.74                   | -0.83                 |  |
| 8,850.00              | 91.14           | 0.53        | 7,047.14              | 920.46       | -401.31      | 920.11                  | 1.33                    | 1.21                   | 0.55                  |  |
| 9,039.00              | 88.46           | 359.70      | 7,047.80              | 1,109.44     | -400.93      | 1,109.09                | 1.48                    | -1.42                  | -0.44                 |  |
| 9,134.00              | 88.39           | 359.50      | 7,050.41              | 1,204.41     | -401.59      | 1,204.05                | 0.22                    | -0.07                  | -0.21                 |  |
| 9,228.00              | 88.76           | 359.65      | 7,052.75              | 1,298.37     | -402.29      | 1,298.02                | 0.42                    | 0.39                   | 0.16                  |  |
| 9,322.00              | 89.23           | 359.49      | 7,054.40              | 1,392.36     | -403.00      | 1,392.00                | 0.53                    | 0.50                   | -0.17                 |  |
| 9,417.00              | 90.57           | 359.60      | 7,054.56              | 1,487.35     | -403.75      | 1,487.00                | 1.42                    | 1.41                   | 0.12                  |  |
| 9,511.00              | 91.24           | 359.64      | 7,053.08              | 1,581.34     | -404.37      | 1,580.98                | 0.71                    | 0.71                   | 0.04                  |  |
| 9,606.00              | 89.93           | 358.69      | 7,052.11              | 1,676.32     | -405.76      | 1,675.96                | 1.70                    | -1.38                  | -1.00                 |  |
| 9,701.00              | 89.60           | 357.96      | 7,052.50              | 1,771.28     | -408.54      | 1,770.92                | 0.84                    | -0.35                  | -0.77                 |  |
| 9,795.00              | 89.83           | 357.29      | 7,052.96              | 1,865.19     | -412.43      | 1,864.83                | 0.75                    | 0.24                   | -0.71                 |  |
| 9,889.00              | 89.33           | 358.60      | 7,053.65              | 1,959.13     | -415.80      | 1,958.76                | 1.49                    | -0.53                  | 1.39                  |  |
| 9,984.00              | 89.43           | 357.93      | 7,054.68              | 2,054.08     | -418.68      | 2,053.71                | 0.71                    | 0.11                   | -0.71                 |  |
| 10,079.00             | 90.10           | 1.33        | 7,055.07              | 2,149.06     | -419.29      | 2,148.69                | 3.65                    | 0.71                   | 3.58                  |  |
| 10,173.00             | 90.44           | 0.97        | 7,054.63              | 2,243.04     | -417.40      | 2,242.68                | 0.53                    | 0.36                   | -0.38                 |  |
| 10,268.00             | 90.97           | 359.86      | 7,053.46              | 2,338.03     | -416.72      | 2,337.66                | 1.29                    | 0.56                   | -1.17                 |  |
| 10,362.00             | 90.84           | 0.94        | 7,051.98              | 2,432.01     | -416.06      | 2,431.65                | 1.16                    | -0.14                  | 1.15                  |  |
| 10,457.00             | 91.24           | 1.83        | 7,050.25              | 2,526.97     | -413.76      | 2,526.61                | 1.03                    | 0.42                   | 0.94                  |  |
| 10,551.00             | 91.74           | 0.39        | 7,047.81              | 2,620.92     | -411.94      | 2,620.56                | 1.62                    | 0.53                   | -1.53                 |  |
| 10,646.00             | 90.84           | 359.10      | 7,045.67              | 2,715.89     | -412.37      | 2,715.53                | 1.66                    | -0.95                  | -1.36                 |  |
| 10,740.00             | 89.33           | 0.17        | 7,045.53              | 2,809.88     | -412.97      | 2,809.52                | 1.97                    | -1.61                  | 1.14                  |  |
| 10,835.00             | 90.23           | 0.68        | 7,045.89              | 2,904.88     | -412.26      | 2,904.52                | 1.09                    | 0.95                   | 0.54                  |  |
| 10,929.00             | 89.23           | 1.38        | 7,046.34              | 2,998.86     | -410.57      | 2,998.50                | 1.30                    | -1.06                  | 0.74                  |  |
| 11,024.00             | 88.52           | 1.17        | 7,048.20              | 3,093.82     | -408.46      | 3,093.46                | 0.78                    | -0.75                  | -0.22                 |  |
| 11,118.00             | 88.46           | 0.82        | 7,050.68              | 3,187.77     | -406.83      | 3,187.41                | 0.38                    | -0.06                  | -0.37                 |  |
| 11,213.00             | 90.27           | 0.88        | 7,051.73              | 3,282.75     | -405.42      | 3,282.40                | 1.91                    | 1.91                   | 0.06                  |  |
| 11,307.00             | 89.76           | 0.78        | 7,051.71              | 3,376.74     | -404.06      | 3,376.39                | 0.55                    | -0.54                  | -0.11                 |  |
| 11,402.00             | 91.17           | 1.09        | 7,050.94              | 3,471.72     | -402.50      | 3,471.37                | 1.52                    | 1.48                   | 0.33                  |  |
| 11,496.00             | 90.13           | 1.09        | 7,049.87              | 3,565.70     | -400.72      | 3,565.35                | 1.11                    | -1.11                  | 0.00                  |  |
| 11,590.00             | 89.63           | 0.41        | 7,050.07              | 3,659.69     | -399.49      | 3,659.34                | 0.90                    | -0.53                  | -0.72                 |  |
| 11,685.00             | 90.91           | 0.22        | 7,049.62              | 3,754.68     | -398.96      | 3,754.33                | 1.36                    | 1.35                   | -0.20                 |  |
| 11,779.00             | 92.38           | 0.04        | 7,046.92              | 3,848.64     | -398.75      | 3,848.29                | 1.58                    | 1.56                   | -0.19                 |  |
| 11,874.00             | 89.56           | 359.39      | 7,045.31              | 3,943.62     | -399.22      | 3,943.27                | 3.05                    | -2.97                  | -0.68                 |  |
| 11,968.00             | 89.60           | 0.32        | 7,046.00              | 4,037.61     | -399.46      | 4,037.26                | 0.99                    | 0.04                   | 0.99                  |  |
| 12,062.00             | 91.07           | 0.09        | 7,045.45              | 4,131.61     | -399.13      | 4,131.26                | 1.58                    | 1.56                   | -0.24                 |  |
| 12,157.00             | 92.55           | 359.58      | 7,042.45              | 4,226.56     | -399.40      | 4,226.21                | 1.65                    | 1.56                   | -0.54                 |  |
| 12,251.00             | 92.55           | 358.52      | 7,038.27              | 4,320.45     | -400.96      | 4,320.10                | 1.13                    | 0.00                   | -1.13                 |  |
| 12,346.00             | 91.01           | 358.73      | 7,035.32              | 4,415.38     | -403.23      | 4,415.02                | 1.64                    | -1.62                  | 0.22                  |  |

|                  |                                |                                     |  |
|------------------|--------------------------------|-------------------------------------|--|
| <b>Company:</b>  | US ROCKIES WATTENBERG PLANNING | <b>Local Co-ordinate Reference:</b> | Well COOK 27N-16HZ                     |
| <b>Project:</b>  | WELD-NAD83-UTMFT13N            | <b>TVD Reference:</b>               | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Site:</b>     | 2N-65W-16 Cook 16-16HZ         | <b>MD Reference:</b>                | GL 4878 & KB 25 @ 4903.00usft (HP 307) |
| <b>Well:</b>     | COOK 27N-16HZ                  | <b>North Reference:</b>             | True                                   |
| <b>Wellbore:</b> | Plan A                         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Design:</b>   | Plan A                         | <b>Database:</b>                    | Denver Sales                           |

| 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) |
| 12,440.00                                     | 90.47           | 358.39      | 7,034.10              | 4,509.34     | -405.60      | 4,508.98                | 0.68                    | -0.57                  | -0.36                 |
| <b>LAST SDI MWD PRODUCTION SURVEY</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,554.00                                     | 90.47           | 358.39      | 7,033.17              | 4,623.29     | -408.80      | 4,622.93                | 0.00                    | 0.00                   | 0.00                  |
| <b>SDI PROJECTION TO TD(181 FNL 1205 FEL)</b> |                 |             |                       |              |              |                         |                         |                        |                       |

| Casing Points         |                       |        |                      |                    |  |
|-----------------------|-----------------------|--------|----------------------|--------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name   | Casing Diameter (in) | Hole Diameter (in) |  |
| 1,891.00              | 1,856.76              | 9 5/8" | 9.625                | 13.500             |  |

| Design Annotations    |                       |                   |              |  |  |
|-----------------------|-----------------------|-------------------|--------------|--|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |  |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                                |  |
| 104.00                | 104.00                | -0.21             | 0.27         | FIRST SDI MWD SURFACE SURVEY           |  |
| 1,849.00              | 1,817.01              | -250.99           | -102.69      | LAST SDI MWD SURFACE SURVEY            |  |
| 1,952.00              | 1,914.53              | -282.48           | -113.10      | FIRST SDI MWD PRODUCTION SURVEY        |  |
| 7,235.00              | 6,938.03              | -676.63           | -391.83      | TOP OF PRODUCTION (193 FNL 1213 FEL )  |  |
| 7,586.00              | 7,028.99              | -342.44           | -387.28      | LANDING POINT (148 FSL 1203 FEL)       |  |
| 12,440.00             | 7,034.10              | 4,509.34          | -405.60      | LAST SDI MWD PRODUCTION SURVEY         |  |
| 12,554.00             | 7,033.17              | 4,623.29          | -408.80      | SDI PROJECTION TO TD(181 FNL 1205 FEL) |  |

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_