

| WELL DETAILS: P_MOSER 19-4                  |       |            |            |                 |                   |
|---|-------|------------|------------|-----------------|-------------------|
| GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |       |            |            |                 |                   |
| +N/-S                                       | +E/-W | Northing   | Easting    | Latitude        | Longitude         |
| 0.00  | 0.00  | 1304665.79 | 3232109.06 | 40° 10' 0.188 N | 104° 40' 10.024 W |

| DESIGN TARGET DETAILS     |         |         |         |            |            |                 |                   |                        |
|---------------------------|---------|---------|---------|------------|------------|-----------------|-------------------|------------------------|
| Name                      | TVD     | +N/-S   | +E/-W   | Northing   | Easting    | Latitude        | Longitude         | Shape                  |
| PBHL                      | 7799.00 | -906.68 | -996.62 | 1303749.81 | 3231120.98 | 40° 9' 51.228 N | 104° 40' 22.861 W | Circle (Radius: 50.00) |
| - plan hits target center |         |         |         |            |            |                 |                   |                        |

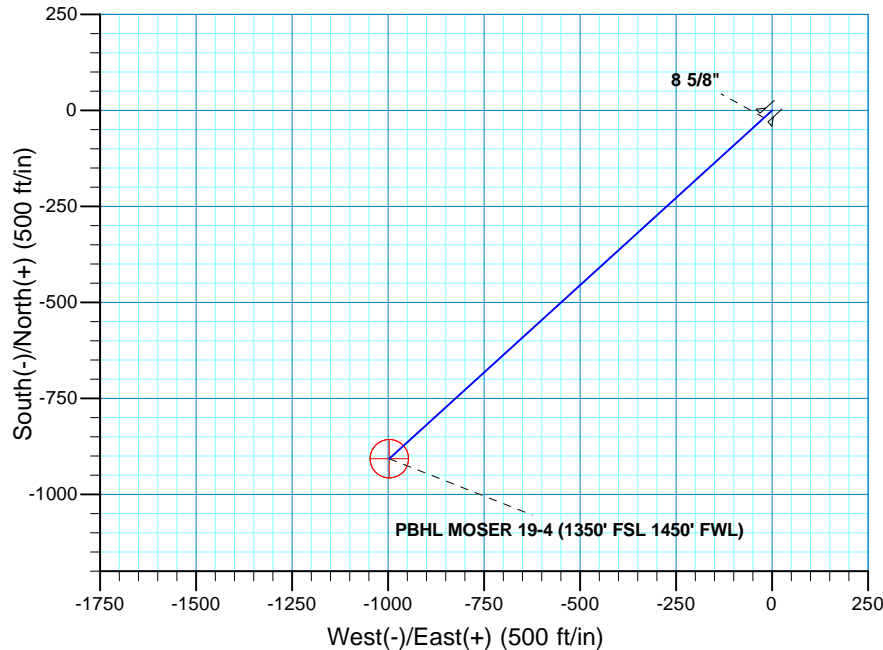
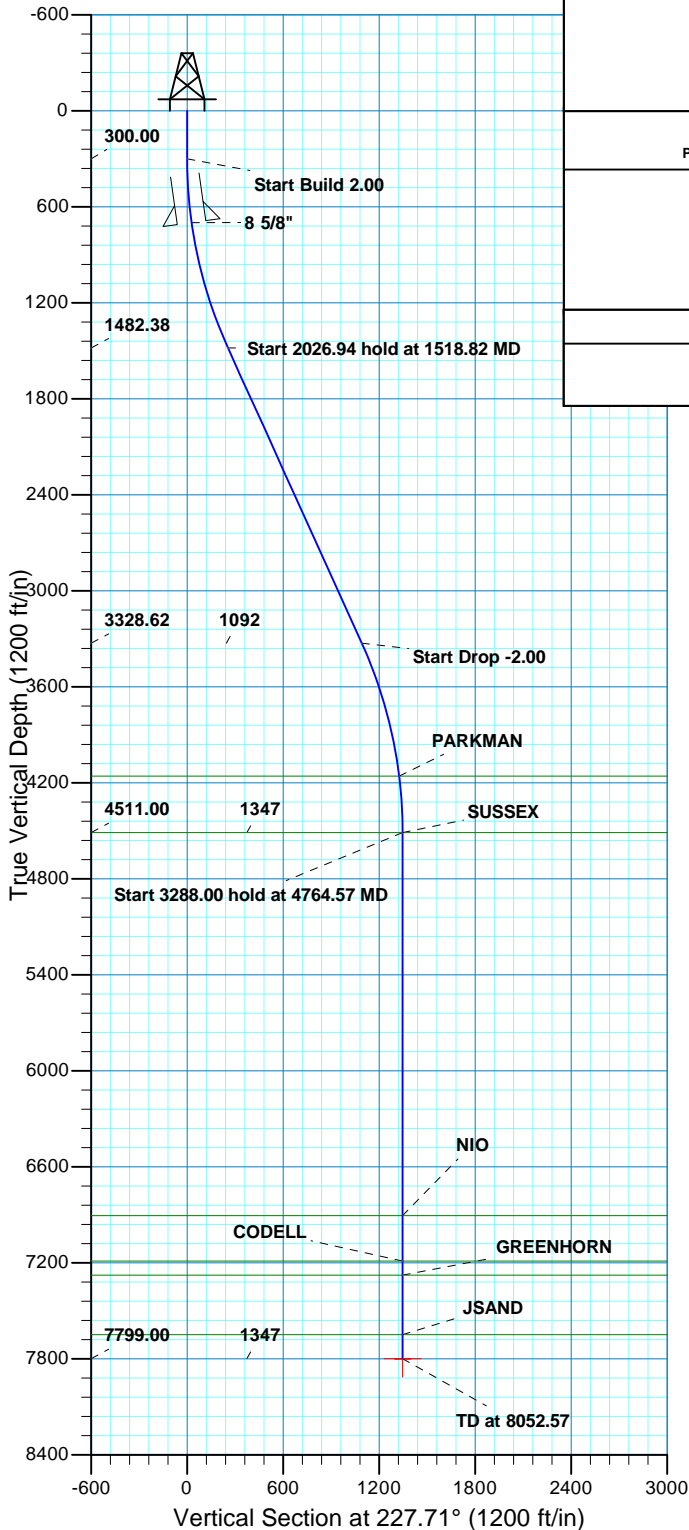
| SECTION DETAILS |       |        |         |         |         |      |        |         |                                       |  |
|-----------------|-------|--------|---------|---------|---------|------|--------|---------|---------------------------------------|--|
| MD              | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | Dleg | TFace  | VSEct   | Target                                |  |
| 0.00            | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    | 0.00                                  |  |
| 300.00          | 0.00  | 0.00   | 300.00  | 0.00    | 0.00    | 0.00 | 0.00   | 0.00    | 0.00                                  |  |
| 1518.82         | 24.38 | 227.71 | 1482.38 | -171.86 | -188.91 | 2.00 | 227.71 | 255.38  |                                       |  |
| 3545.75         | 24.38 | 227.71 | 3328.62 | -734.82 | -807.72 | 0.00 | 0.00   | 1091.96 |                                       |  |
| 4764.57         | 0.00  | 0.00   | 4511.00 | -906.68 | -996.62 | 2.00 | 180.00 | 1347.34 |                                       |  |
| 8052.57         | 0.00  | 0.00   | 7799.00 | -906.68 | -996.62 | 0.00 | 0.00   | 1347.34 | PBHL MOSER 19-4 (1350' FSL 1450' FWL) |  |

| PROJECT DETAILS: COLORADO NORTHERN ZONE - 83 |                           |          |         | FORMATION TOP DETAILS |         |           |           |
|--|---------------------------|----------|---------|-----------------------|---------|-----------|-----------|
| Geodetic System:                             | US State Plane 1983       | TVDPPath | 4159.00 | MDPath                | 4411.68 | Formation | PARKMAN   |
| Datum:                                       | North American Datum 1983 |          | 4511.00 |                       | 4764.57 |           | SUSSEX    |
| Ellipsoid:                                   | GRS 1980                  |          | 6905.00 |                       | 7158.57 |           | NIO       |
| Zone:  | Colorado Northern Zone    |          | 7190.00 |                       | 7443.57 |           | CODELL    |
| Location:                                    | SEC 4 T3N R6SW            |          | 7277.00 |                       | 7530.57 |           | GREENHORN |
| System Datum:                                | Mean Sea Level            |          | 7649.00 |                       | 7902.57 |           | JSAND     |

| CASING DETAILS |        |        |       |
|----------------|--------|--------|-------|
| TVD            | MD     | Name   | Size  |
| 700.00         | 701.31 | 8 5/8" | 8.625 |





**Scientific Drilling**  
Rocky Mountain Operations

# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_MOSER 11-4 PAD**

**P\_MOSER 19-4**

**P\_MOSER 19-4**

**Plan: PLAN #1 9-1-10 RHS**

## **Standard Planning Report**

**01 September, 2010**



|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_MOSER 19-4                           |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_MOSER 11-4 PAD         | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | P_MOSER 19-4                | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | P_MOSER 19-4                |                                     |   |
| <b>Design:</b>   | PLAN #1 9-1-10 RHS          |                                     |   |

|                    |  |                      |                |
|--------------------|--|----------------------|----------------|
| <b>Project</b>     | COLORADO NORTHERN ZONE - 83, KERR MCGEE OIL & GAS ONSHORE LP |                      |                |
| <b>Map System:</b> | US State Plane 1983  | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983                                    |                      |                |
| <b>Map Zone:</b>   | Colorado Northern Zone                                       |                      |                |

|                              |                                     |                     |                   |                          |                   |
|------------------------------|-------------------------------------|---------------------|-------------------|--------------------------|-------------------|
| <b>Site</b>                  | WELD_MOSER 11-4 PAD, SEC 4 T3N R65W |                     |                   |                          |                   |
| <b>Site Position:</b>        |                                     | <b>Northing:</b>    | 1,304,665.78 usft | <b>Latitude:</b>         | 40° 10' 0.188 N   |
| <b>From:</b>                 | Lat/Long                            | <b>Easting:</b>     | 3,232,109.06 usft | <b>Longitude:</b>        | 104° 40' 10.024 W |
| <b>Position Uncertainty:</b> | 0.00 ft                             | <b>Slot Radius:</b> | 13.200 in         | <b>Grid Convergence:</b> | 0.54 °            |

|                             |                                   |         |                            |                   |                      |                   |
|-----------------------------|-----------------------------------|---------|----------------------------|-------------------|----------------------|-------------------|
| <b>Well</b>                 | P_MOSER 19-4, 2260' FSL 2437' FWL |         |                            |                   |                      |                   |
| <b>Well Position</b>        | <b>+N/-S</b>                      | 0.00 ft | <b>Northing:</b>           | 1,304,665.78 usft | <b>Latitude:</b>     | 40° 10' 0.188 N   |
|                             | <b>+E/-W</b>                      | 0.00 ft | <b>Easting:</b>            | 3,232,109.06 usft | <b>Longitude:</b>    | 104° 40' 10.024 W |
| <b>Position Uncertainty</b> |                                   | 0.00 ft | <b>Wellhead Elevation:</b> |                   | <b>Ground Level:</b> | 4,859.00 ft       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | P_MOSER 19-4      |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 09/01/2010         | 8.90                   | 66.90                | 53,102                     |

|                          |                              |                   |                      |                      |  |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|--|
| <b>Design</b>            | PLAN #1 9-1-10 RHS           |                   |                      |                      |  |
| <b>Audit Notes:</b>      |                              |                   |                      |                      |  |
| <b>Version:</b>          | <b>Phase:</b>                | PLAN              | <b>Tie On Depth:</b> | 0.00                 |  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (ft)</b> | <b>+N/-S (ft)</b> | <b>+E/-W (ft)</b>    | <b>Direction (°)</b> |  |
|                          | 0.00                         | 0.00              | 0.00                 | 227.71               |  |

| <b>Plan Sections</b> |                 |             |                     |            |            |                       |                      |                     |         |                   |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft)  | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target            |
| 0.00                 | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                   |
| 300.00               | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                   |
| 1,518.82             | 24.38           | 227.71      | 1,482.38            | -171.86    | -188.91    | 2.00                  | 2.00                 | 0.00                | 227.71  |                   |
| 3,545.75             | 24.38           | 227.71      | 3,328.62            | -734.82    | -807.72    | 0.00                  | 0.00                 | 0.00                | 0.00    |                   |
| 4,764.57             | 0.00            | 0.00        | 4,511.00            | -906.68    | -996.62    | 2.00                  | -2.00                | 0.00                | 180.00  |                   |
| 8,052.57             | 0.00            | 0.00        | 7,799.00            | -906.68    | -996.62    | 0.00                  | 0.00                 | 0.00                | 0.00    | PBHL MOSER 19-4 ( |

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_MOSER 19-4                           |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_MOSER 11-4 PAD         | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | P_MOSER 19-4                | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | P_MOSER 19-4                |                                     |   |
| <b>Design:</b>   | PLAN #1 9-1-10 RHS          |                                     |   |

| Planned Survey                          |                 |             |                     |            |            |                       |                       |                      |                     |  |
|---|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft)                     | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 0.00                                    | 0.00            | 0.00        | 0.00                | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 100.00                                  | 0.00            | 0.00        | 100.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 200.00                                  | 0.00            | 0.00        | 200.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| 300.00                                  | 0.00            | 0.00        | 300.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |  |
| <b>Start Build 2.00</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 400.00                                  | 2.00            | 227.71      | 399.98              | -1.17      | -1.29      | 1.75                  | 2.00                  | 2.00                 | 0.00                |  |
| 500.00                                  | 4.00            | 227.71      | 499.84              | -4.70      | -5.16      | 6.98                  | 2.00                  | 2.00                 | 0.00                |  |
| 600.00                                  | 6.00            | 227.71      | 599.45              | -10.56     | -11.61     | 15.69                 | 2.00                  | 2.00                 | 0.00                |  |
| 700.00                                  | 8.00            | 227.71      | 698.70              | -18.76     | -20.62     | 27.88                 | 2.00                  | 2.00                 | 0.00                |  |
| 701.31                                  | 8.03            | 227.71      | 700.00              | -18.88     | -20.76     | 28.06                 | 2.00                  | 2.00                 | 0.00                |  |
| <b>8 5/8"</b>                           |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 800.00                                  | 10.00           | 227.71      | 797.47              | -29.29     | -32.19     | 43.52                 | 2.00                  | 2.00                 | 0.00                |  |
| 900.00                                  | 12.00           | 227.71      | 895.62              | -42.13     | -46.31     | 62.60                 | 2.00                  | 2.00                 | 0.00                |  |
| 1,000.00                                | 14.00           | 227.71      | 993.06              | -57.26     | -62.95     | 85.10                 | 2.00                  | 2.00                 | 0.00                |  |
| 1,100.00                                | 16.00           | 227.71      | 1,089.64            | -74.68     | -82.09     | 110.98                | 2.00                  | 2.00                 | 0.00                |  |
| 1,200.00                                | 18.00           | 227.71      | 1,185.27            | -94.35     | -103.72    | 140.21                | 2.00                  | 2.00                 | 0.00                |  |
| 1,300.00                                | 20.00           | 227.71      | 1,279.82            | -116.26    | -127.80    | 172.77                | 2.00                  | 2.00                 | 0.00                |  |
| 1,400.00                                | 22.00           | 227.71      | 1,373.17            | -140.38    | -154.30    | 208.60                | 2.00                  | 2.00                 | 0.00                |  |
| 1,500.00                                | 24.00           | 227.71      | 1,465.21            | -166.67    | -183.20    | 247.67                | 2.00                  | 2.00                 | 0.00                |  |
| 1,518.82                                | 24.38           | 227.71      | 1,482.38            | -171.86    | -188.91    | 255.38                | 2.00                  | 2.00                 | 0.00                |  |
| <b>Start 2026.94 hold at 1518.82 MD</b> |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 1,600.00                                | 24.38           | 227.71      | 1,556.33            | -194.41    | -213.69    | 288.89                | 0.00                  | 0.00                 | 0.00                |  |
| 1,700.00                                | 24.38           | 227.71      | 1,647.41            | -222.18    | -244.22    | 330.16                | 0.00                  | 0.00                 | 0.00                |  |
| 1,800.00                                | 24.38           | 227.71      | 1,738.50            | -249.95    | -274.75    | 371.44                | 0.00                  | 0.00                 | 0.00                |  |
| 1,900.00                                | 24.38           | 227.71      | 1,829.58            | -277.73    | -305.28    | 412.71                | 0.00                  | 0.00                 | 0.00                |  |
| 2,000.00                                | 24.38           | 227.71      | 1,920.67            | -305.50    | -335.81    | 453.98                | 0.00                  | 0.00                 | 0.00                |  |
| 2,100.00                                | 24.38           | 227.71      | 2,011.75            | -333.28    | -366.34    | 495.25                | 0.00                  | 0.00                 | 0.00                |  |
| 2,200.00                                | 24.38           | 227.71      | 2,102.84            | -361.05    | -396.87    | 536.53                | 0.00                  | 0.00                 | 0.00                |  |
| 2,300.00                                | 24.38           | 227.71      | 2,193.92            | -388.82    | -427.40    | 577.80                | 0.00                  | 0.00                 | 0.00                |  |
| 2,400.00                                | 24.38           | 227.71      | 2,285.01            | -416.60    | -457.93    | 619.07                | 0.00                  | 0.00                 | 0.00                |  |
| 2,500.00                                | 24.38           | 227.71      | 2,376.09            | -444.37    | -488.46    | 660.35                | 0.00                  | 0.00                 | 0.00                |  |
| 2,600.00                                | 24.38           | 227.71      | 2,467.18            | -472.15    | -518.99    | 701.62                | 0.00                  | 0.00                 | 0.00                |  |
| 2,700.00                                | 24.38           | 227.71      | 2,558.27            | -499.92    | -549.51    | 742.89                | 0.00                  | 0.00                 | 0.00                |  |
| 2,800.00                                | 24.38           | 227.71      | 2,649.35            | -527.69    | -580.04    | 784.16                | 0.00                  | 0.00                 | 0.00                |  |
| 2,900.00                                | 24.38           | 227.71      | 2,740.44            | -555.47    | -610.57    | 825.44                | 0.00                  | 0.00                 | 0.00                |  |
| 3,000.00                                | 24.38           | 227.71      | 2,831.52            | -583.24    | -641.10    | 866.71                | 0.00                  | 0.00                 | 0.00                |  |
| 3,100.00                                | 24.38           | 227.71      | 2,922.61            | -611.02    | -671.63    | 907.98                | 0.00                  | 0.00                 | 0.00                |  |
| 3,200.00                                | 24.38           | 227.71      | 3,013.69            | -638.79    | -702.16    | 949.25                | 0.00                  | 0.00                 | 0.00                |  |
| 3,300.00                                | 24.38           | 227.71      | 3,104.78            | -666.57    | -732.69    | 990.53                | 0.00                  | 0.00                 | 0.00                |  |
| 3,400.00                                | 24.38           | 227.71      | 3,195.86            | -694.34    | -763.22    | 1,031.80              | 0.00                  | 0.00                 | 0.00                |  |
| 3,500.00                                | 24.38           | 227.71      | 3,286.95            | -722.11    | -793.75    | 1,073.07              | 0.00                  | 0.00                 | 0.00                |  |
| 3,545.75                                | 24.38           | 227.71      | 3,328.62            | -734.82    | -807.72    | 1,091.96              | 0.00                  | 0.00                 | 0.00                |  |
| <b>Start Drop -2.00</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 3,600.00                                | 23.29           | 227.71      | 3,378.24            | -749.57    | -823.93    | 1,113.88              | 2.00                  | -2.00                | 0.00                |  |
| 3,700.00                                | 21.29           | 227.71      | 3,470.77            | -775.10    | -851.99    | 1,151.81              | 2.00                  | -2.00                | 0.00                |  |
| 3,800.00                                | 19.29           | 227.71      | 3,564.55            | -798.43    | -877.64    | 1,186.48              | 2.00                  | -2.00                | 0.00                |  |
| 3,900.00                                | 17.29           | 227.71      | 3,659.50            | -819.55    | -900.85    | 1,217.87              | 2.00                  | -2.00                | 0.00                |  |
| 4,000.00                                | 15.29           | 227.71      | 3,755.48            | -838.43    | -921.60    | 1,245.92              | 2.00                  | -2.00                | 0.00                |  |
| 4,100.00                                | 13.29           | 227.71      | 3,852.38            | -855.04    | -939.86    | 1,270.60              | 2.00                  | -2.00                | 0.00                |  |
| 4,200.00                                | 11.29           | 227.71      | 3,950.08            | -869.36    | -955.61    | 1,291.89              | 2.00                  | -2.00                | 0.00                |  |
| 4,300.00                                | 9.29            | 227.71      | 4,048.47            | -881.38    | -968.82    | 1,309.75              | 2.00                  | -2.00                | 0.00                |  |
| 4,400.00                                | 7.29            | 227.71      | 4,147.42            | -891.09    | -979.49    | 1,324.17              | 2.00                  | -2.00                | 0.00                |  |

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_MOSER 19-4                           |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_MOSER 11-4 PAD         | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | P_MOSER 19-4                | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | P_MOSER 19-4                |                                     |   |
| <b>Design:</b>   | PLAN #1 9-1-10 RHS          |                                     |   |

| Planned Survey                                   |                 |             |                     |            |            |                       |                       |                      |                     |  |
|--|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (ft)                              | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 4,411.68   | 7.06            | 227.71      | 4,159.00            | -892.07    | -980.57    | 1,325.63              | 2.00                  | -2.00                | 0.00                |  |
| <b>PARKMAN</b>                                   |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 4,500.00   | 5.29            | 227.71      | 4,246.81            | -898.46    | -987.59    | 1,335.13              | 2.00                  | -2.00                | 0.00                |  |
| 4,600.00   | 3.29            | 227.71      | 4,346.52            | -903.50    | -993.13    | 1,342.61              | 2.00                  | -2.00                | 0.00                |  |
| 4,700.00   | 1.29            | 227.71      | 4,446.44            | -906.19    | -996.09    | 1,346.61              | 2.00                  | -2.00                | 0.00                |  |
| 4,764.57   | 0.00            | 0.00        | 4,511.00            | -906.68    | -996.62    | 1,347.34              | 2.00                  | -2.00                | 204.89              |  |
| <b>Start 3288.00 hold at 4764.57 MD - SUSSEX</b> |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 4,800.00   | 0.00            | 0.00        | 4,546.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 4,900.00   | 0.00            | 0.00        | 4,646.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,000.00   | 0.00            | 0.00        | 4,746.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,100.00   | 0.00            | 0.00        | 4,846.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,200.00   | 0.00            | 0.00        | 4,946.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,300.00   | 0.00            | 0.00        | 5,046.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,400.00   | 0.00            | 0.00        | 5,146.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,500.00   | 0.00            | 0.00        | 5,246.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,600.00   | 0.00            | 0.00        | 5,346.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,700.00   | 0.00            | 0.00        | 5,446.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,800.00   | 0.00            | 0.00        | 5,546.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 5,900.00   | 0.00            | 0.00        | 5,646.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,000.00   | 0.00            | 0.00        | 5,746.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,100.00   | 0.00            | 0.00        | 5,846.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,200.00   | 0.00            | 0.00        | 5,946.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,300.00   | 0.00            | 0.00        | 6,046.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,400.00   | 0.00            | 0.00        | 6,146.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,500.00   | 0.00            | 0.00        | 6,246.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,600.00   | 0.00            | 0.00        | 6,346.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,700.00   | 0.00            | 0.00        | 6,446.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,800.00   | 0.00            | 0.00        | 6,546.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 6,900.00   | 0.00            | 0.00        | 6,646.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,000.00   | 0.00            | 0.00        | 6,746.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,100.00   | 0.00            | 0.00        | 6,846.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,158.57   | 0.00            | 0.00        | 6,905.00            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| <b>NIO</b>                                       |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,200.00   | 0.00            | 0.00        | 6,946.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,300.00   | 0.00            | 0.00        | 7,046.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,400.00   | 0.00            | 0.00        | 7,146.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,443.57   | 0.00            | 0.00        | 7,190.00            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| <b>CODELL</b>                                    |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,500.00   | 0.00            | 0.00        | 7,246.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,530.57   | 0.00            | 0.00        | 7,277.00            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| <b>GREENHORN</b>                                 |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,600.00   | 0.00            | 0.00        | 7,346.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,700.00   | 0.00            | 0.00        | 7,446.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,800.00   | 0.00            | 0.00        | 7,546.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,900.00   | 0.00            | 0.00        | 7,646.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 7,902.57   | 0.00            | 0.00        | 7,649.00            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| <b>JSAND</b>                                     |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 8,000.00   | 0.00            | 0.00        | 7,746.43            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| 8,052.57   | 0.00            | 0.00        | 7,799.00            | -906.68    | -996.62    | 1,347.34              | 0.00                  | 0.00                 | 0.00                |  |
| <b>PBHL MOSER 19-4 (1350' FSL 1450' FWL)</b>     |                 |             |                     |            |            |                       |                       |                      |                     |  |

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_MOSER 19-4                           |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4859' & RKB 15'<br>@ 4874.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_MOSER 11-4 PAD         | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | P_MOSER 19-4                | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | P_MOSER 19-4                |                                     |   |
| <b>Design:</b>   | PLAN #1 9-1-10 RHS          |                                     |   |

| Design Targets   |           |          |          |         |         |              |              |                 |                   |
|--|-----------|----------|----------|---------|---------|--------------|--------------|-----------------|-------------------|
| Target Name  | Dip Angle | Dip Dir. | TVD      | +N/-S   | +E/-W   | Northing     | Easting      | Latitude        | Longitude         |
| - hit/miss target  | (°)       | (°)      | (ft)     | (ft)    | (ft)    | (usft)       | (usft)       |                 |                   |
| - Shape  |           |          |          |         |         |              |              |                 |                   |
| PBHL MOSER 19-4 (13'<br>- plan hits target center<br>- Circle (radius 50.00) | 0.00      | 0.00     | 7,799.00 | -906.68 | -996.62 | 1,303,749.81 | 3,231,120.98 | 40° 9' 51.228 N | 104° 40' 22.861 W |

| Casing Points  |                |        |      |                 |               |
|----------------|----------------|--------|------|-----------------|---------------|
| Measured Depth | Vertical Depth |        | Name | Casing Diameter | Hole Diameter |
| (ft)           | (ft)           |        |      | (in)            | (in)          |
| 701.31         | 700.00         | 8 5/8" |      | 8.625           | 11.000        |

| Formations     |                |           |           |     |               |
|----------------|----------------|-----------|-----------|-----|---------------|
| Measured Depth | Vertical Depth | Name      | Lithology | Dip | Dip Direction |
| (ft)           | (ft)           |           |           | (°) | (°)           |
| 4,411.68       | 4,159.00       | PARKMAN   |           |     |               |
| 4,764.57       | 4,511.00       | SUSSEX    |           |     |               |
| 7,158.57       | 6,905.00       | NIO       |           |     |               |
| 7,443.57       | 7,190.00       | CODELL    |           |     |               |
| 7,530.57       | 7,277.00       | GREENHORN |           |     |               |
| 7,902.57       | 7,649.00       | JSAND     |           |     |               |

| Plan Annotations |                |                   |         |                                  |  |
|------------------|----------------|-------------------|---------|----------------------------------|--|
| Measured Depth   | Vertical Depth | Local Coordinates |         | Comment                          |  |
| (ft)             | (ft)           | +N/-S             | +E/-W   |                                  |  |
|                  |                | (ft)              | (ft)    |                                  |  |
| 300.00           | 300.00         | 0.00              | 0.00    | Start Build 2.00                 |  |
| 1,518.82         | 1,482.38       | -171.86           | -188.91 | Start 2026.94 hold at 1518.82 MD |  |
| 3,545.75         | 3,328.62       | -734.82           | -807.72 | Start Drop -2.00                 |  |
| 4,764.57         | 4,511.00       | -906.68           | -996.62 | Start 3288.00 hold at 4764.57 MD |  |
| 8,052.57         | 7,799.00       | -906.68           | -996.62 | TD at 8052.57                    |  |