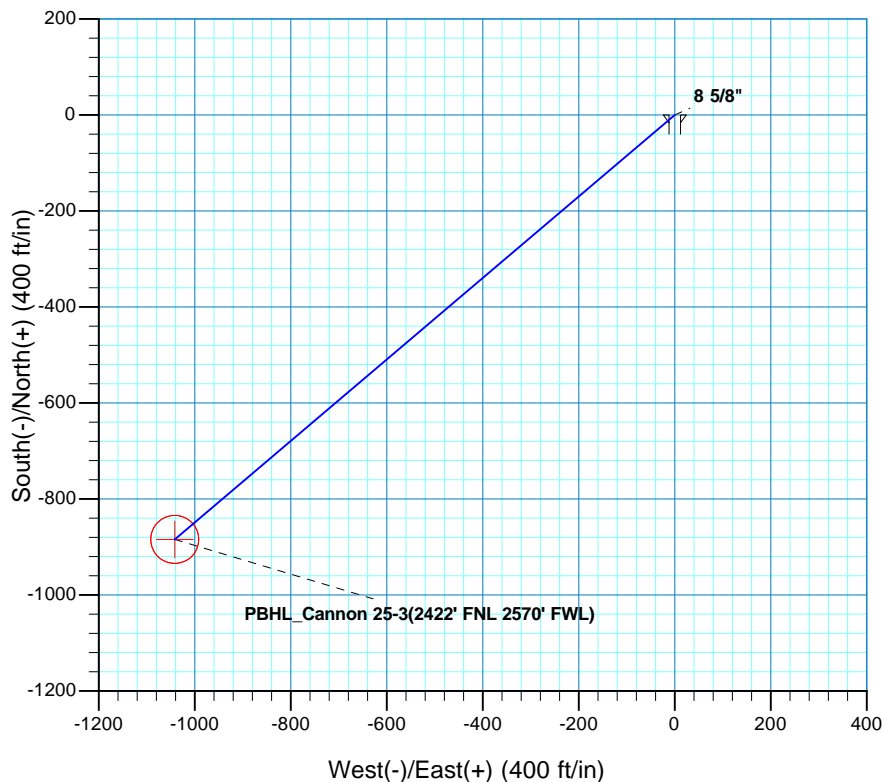
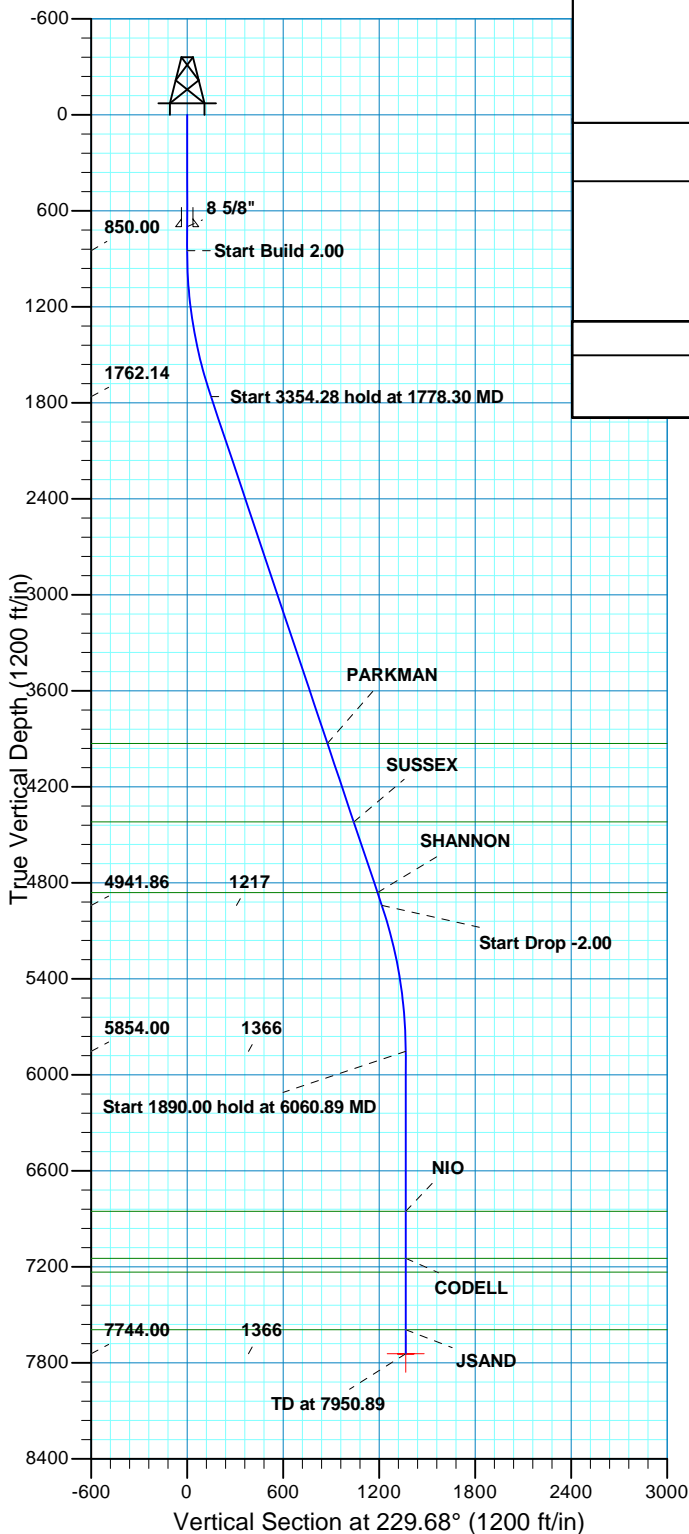


| WELL DETAILS: P_Cannon 25-3              |       |            |            |                  |                   |
|--|-------|------------|------------|------------------|-------------------|
| GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |       |            |            |                  |                   |
| +N/-S                                    | +E/-W | Northing   | Easting    | Latitude         | Longitude         |
| 0.00                                     | 0.00  | 1306066.24 | 3238565.02 | 40° 10' 13.422 N | 104° 38' 46.691 W |

| DESIGN TARGET DETAILS     |         |         |          |            |            |                 |                  |
|---------------------------|---------|---------|----------|------------|------------|-----------------|------------------|
| Name                      | TVD     | +N/-S   | +E/-W    | Northing   | Easting    | Latitude        | Longitude        |
| PBH                       | 7744.00 | -884.08 | -1041.56 | 1305172.18 | 3237532.02 | 40° 10' 4.685 N | 104° 39' 0.108 W |
| - plan hits target center |         |         |          |            |            |                 |                  |
| Shape                     |         |         |          |            |            |                 |                  |
| Circle (Radius: 50.00)    |         |         |          |            |            |                 |                  |

| 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      |                                       |  |
| 850.00  | 0.00  | 0.00   | 850.00  | 0.00    | 0.00     | 0.00                  | 0.00    | 0.00      |                                       |  |
| 1778.30   | 18.57 | 229.68 | 1762.14 | -96.48  | -113.67  | 2.00                  | 229.68  | 149.09    |                                       |  |
| 5132.58   | 18.57 | 229.68 | 4941.86 | -787.60 | -927.90  | 0.00                  | 0.00    | 1217.09   |                                       |  |
| 6060.89   | 0.00  | 0.00   | 5854.00 | -884.08 | -1041.56 | 2.00                  | 180.00  | 1366.18   |                                       |  |
| 7950.89   | 0.00  | 0.00   | 7744.00 | -884.08 | -1041.56 | 0.00                  | 0.00    | 1366.18   | PBHL_Cannon 25-3(2422' FNL 2570' FWL) |  |
| PROJECT DETAILS: COLORADO NORTHERN ZONE - 83  |       |        |         |         |          | FORMATION TOP DETAILS |         |           |                                       |  |
|   |       |        |         |         |          | TVDPath               | MDPath  | Formation |                                       |  |
| Geodetic System: US State Plane 1983<br>Datum: North American Datum 1983<br>Ellipsoid: GRS 1980<br>Zone: Colorado Northern Zone<br>Location: SECTION 3 T2N R65W<br>System Datum: Mean Sea Level |       |        |         |         |          | 3929.00               | 4064.12 | PARKMAN   |                                       |  |
|   |       |        |         |         |          | 4420.00               | 4582.08 | SUSSEX    |                                       |  |
|   |       |        |         |         |          | 4862.00               | 5048.34 | SHANNON   |                                       |  |
|   |       |        |         |         |          | 6854.00               | 7060.89 | NIO       |                                       |  |
|   |       |        |         |         |          | 7148.00               | 7354.89 | CODELL    |                                       |  |
|   |       |        |         |         |          | 7234.00               | 7440.89 | GREENHORN |                                       |  |
|   |       |        |         |         |          | 7594.00               | 7800.89 | JSAND     |                                       |  |
| CASING DETAILS  |       |        |         |         |          |                       |         |           |                                       |  |
|   |       |        | TVD     | MD      | Name     | Size                  |         |           |                                       |  |
|   |       |        | 700.00  | 700.00  | 8 5/8"   | 8.625                 |         |           |                                       |  |



# **US ROCKIES REGION PLANNING**

**COLORADO NORTHERN ZONE - 83**

**WELD\_CANNON 17-3 PAD**

**P\_Cannon 25-3**

**P\_Cannon 25-3**

**Plan: PLAN #2 9-13-10 RHS**

## **Standard Planning Report**

**13 September, 2010**

|                  |                             |                                     |  |
|------------------|-----------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_Cannon 25-3                       |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_CANNON 17-3 PAD        | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | P_Cannon 25-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | P_Cannon 25-3               |                                     |  |
| <b>Design:</b>   | PLAN #2 9-13-10 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                                       |                      |                |

|                       |          |  |                   |                   |                   |
|-----------------------|----------|--|-------------------|-------------------|-------------------|
| Site                  |          | WELD_CANNON 17-3 PAD, SECTION 3 T2N R65W |                   |                   |                   |
| Site Position:        |          | Northing:                                | 1,306,054.71 usft | Latitude:         | 40° 10' 13.307 N  |
| From:                 | Lat/Long | Easting:                                 | 3,238,576.31 usft | Longitude:        | 104° 38' 46.547 W |
| Position Uncertainty: | 0.00 ft  | Slot Radius:                             | 13.200 in         | Grid Convergence: | 0.55 °            |

|                      |                                    |           |                     |                   |               |                   |
|----------------------|------------------------------------|-----------|---------------------|-------------------|---------------|-------------------|
| Well                 | P_Cannon 25-3, 1531' FNL 1680' FEL |           |                     |                   |               |                   |
| Well Position        | +N/-S                              | 11.64 ft  | Northing:           | 1,306,066.24 usft | Latitude:     | 40° 10' 13.422 N  |
|                      | +E/-W                              | -11.18 ft | Easting:            | 3,238,565.02 usft | Longitude:    | 104° 38' 46.691 W |
| Position Uncertainty |                                    | 0.00 ft   | Wellhead Elevation: |                   | Ground Level: | 4,844.00 ft       |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | P_Cannon 25-3     |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010          | 08/17/2010         | 8.89                   | 66.91                | 53,111                     |

|                          |                              |                   |                      |                      |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| <b>Design</b>            | PLAN #2 9-13-10 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                 | 229.68               |

| <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    |                    |
| 850.00               | 0.00            | 0.00        | 850.00              | 0.00       | 0.00       | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 1,778.30             | 18.57           | 229.68      | 1,762.14            | -96.48     | -113.67    | 2.00                  | 2.00                 | 0.00                | 229.68  |                    |
| 5,132.58             | 18.57           | 229.68      | 4,941.86            | -787.60    | -927.90    | 0.00                  | 0.00                 | 0.00                | 0.00    |                    |
| 6,060.89             | 0.00            | 0.00        | 5,854.00            | -884.08    | -1,041.56  | 2.00                  | -2.00                | 0.00                | 180.00  |                    |
| 7,950.89             | 0.00            | 0.00        | 7,744.00            | -884.08    | -1,041.56  | 0.00                  | 0.00                 | 0.00                | 0.00    | PBHL_Cannon 25-3(2 |

|                  |                             |                                     |   |
|------------------|-----------------------------|-------------------------------------|---|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_Cannon 25-3                          |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4844' & 15' RKB @ 4859.00ft<br>(ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4844' & 15' RKB @ 4859.00ft<br>(ASSUMED) |
| <b>Site:</b>     | WELD_CANNON 17-3 PAD        | <b>North Reference:</b>             | True  |
| <b>Well:</b>     | P_Cannon 25-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                           |
| <b>Wellbore:</b> | P_Cannon 25-3               |                                     |   |
| <b>Design:</b>   | PLAN #2 9-13-10 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                |
| 400.00                           | 0.00            | 0.00        | 400.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 500.00                           | 0.00            | 0.00        | 500.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 600.00                           | 0.00            | 0.00        | 600.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 700.00                           | 0.00            | 0.00        | 700.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 8 5/8"                           |                 |             |                     |            |            |                       |                       |                      |                     |
| 800.00                           | 0.00            | 0.00        | 800.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| 850.00                           | 0.00            | 0.00        | 850.00              | 0.00       | 0.00       | 0.00                  | 0.00                  | 0.00                 | 0.00                |
| Start Build 2.00                 |                 |             |                     |            |            |                       |                       |                      |                     |
| 900.00                           | 1.00            | 229.68      | 900.00              | -0.28      | -0.33      | 0.44                  | 2.00                  | 2.00                 | 0.00                |
| 1,000.00                         | 3.00            | 229.68      | 999.93              | -2.54      | -2.99      | 3.93                  | 2.00                  | 2.00                 | 0.00                |
| 1,100.00                         | 5.00            | 229.68      | 1,099.68            | -7.05      | -8.31      | 10.90                 | 2.00                  | 2.00                 | 0.00                |
| 1,200.00                         | 7.00            | 229.68      | 1,199.13            | -13.82     | -16.28     | 21.35                 | 2.00                  | 2.00                 | 0.00                |
| 1,300.00                         | 9.00            | 229.68      | 1,298.15            | -22.82     | -26.89     | 35.27                 | 2.00                  | 2.00                 | 0.00                |
| 1,400.00                         | 11.00           | 229.68      | 1,396.63            | -34.06     | -40.13     | 52.63                 | 2.00                  | 2.00                 | 0.00                |
| 1,500.00                         | 13.00           | 229.68      | 1,494.44            | -47.51     | -55.98     | 73.42                 | 2.00                  | 2.00                 | 0.00                |
| 1,600.00                         | 15.00           | 229.68      | 1,591.46            | -63.17     | -74.42     | 97.62                 | 2.00                  | 2.00                 | 0.00                |
| 1,700.00                         | 17.00           | 229.68      | 1,687.58            | -81.00     | -95.43     | 125.18                | 2.00                  | 2.00                 | 0.00                |
| 1,778.30                         | 18.57           | 229.68      | 1,762.14            | -96.48     | -113.67    | 149.09                | 2.00                  | 2.00                 | 0.00                |
| Start 3354.28 hold at 1778.30 MD |                 |             |                     |            |            |                       |                       |                      |                     |
| 1,800.00                         | 18.57           | 229.68      | 1,782.71            | -100.95    | -118.93    | 156.00                | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                         | 18.57           | 229.68      | 1,877.51            | -121.55    | -143.21    | 187.84                | 0.00                  | 0.00                 | 0.00                |
| 2,000.00                         | 18.57           | 229.68      | 1,972.30            | -142.16    | -167.48    | 219.68                | 0.00                  | 0.00                 | 0.00                |
| 2,100.00                         | 18.57           | 229.68      | 2,067.10            | -162.76    | -191.76    | 251.52                | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                         | 18.57           | 229.68      | 2,161.89            | -183.37    | -216.03    | 283.36                | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                         | 18.57           | 229.68      | 2,256.69            | -203.97    | -240.30    | 315.20                | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                         | 18.57           | 229.68      | 2,351.48            | -224.57    | -264.58    | 347.04                | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                         | 18.57           | 229.68      | 2,446.28            | -245.18    | -288.85    | 378.88                | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                         | 18.57           | 229.68      | 2,541.08            | -265.78    | -313.13    | 410.72                | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                         | 18.57           | 229.68      | 2,635.87            | -286.39    | -337.40    | 442.56                | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                         | 18.57           | 229.68      | 2,730.67            | -306.99    | -361.68    | 474.40                | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                         | 18.57           | 229.68      | 2,825.46            | -327.60    | -385.95    | 506.24                | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                         | 18.57           | 229.68      | 2,920.26            | -348.20    | -410.23    | 538.08                | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                         | 18.57           | 229.68      | 3,015.05            | -368.80    | -434.50    | 569.92                | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                         | 18.57           | 229.68      | 3,109.85            | -389.41    | -458.77    | 601.76                | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                         | 18.57           | 229.68      | 3,204.65            | -410.01    | -483.05    | 633.60                | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                         | 18.57           | 229.68      | 3,299.44            | -430.62    | -507.32    | 665.44                | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                         | 18.57           | 229.68      | 3,394.24            | -451.22    | -531.60    | 697.28                | 0.00                  | 0.00                 | 0.00                |
| 3,600.00                         | 18.57           | 229.68      | 3,489.03            | -471.82    | -555.87    | 729.12                | 0.00                  | 0.00                 | 0.00                |
| 3,700.00                         | 18.57           | 229.68      | 3,583.83            | -492.43    | -580.15    | 760.96                | 0.00                  | 0.00                 | 0.00                |
| 3,800.00                         | 18.57           | 229.68      | 3,678.62            | -513.03    | -604.42    | 792.80                | 0.00                  | 0.00                 | 0.00                |
| 3,900.00                         | 18.57           | 229.68      | 3,773.42            | -533.64    | -628.69    | 824.64                | 0.00                  | 0.00                 | 0.00                |
| 4,000.00                         | 18.57           | 229.68      | 3,868.22            | -554.24    | -652.97    | 856.48                | 0.00                  | 0.00                 | 0.00                |
| 4,064.12                         | 18.57           | 229.68      | 3,929.00            | -567.45    | -668.53    | 876.89                | 0.00                  | 0.00                 | 0.00                |
| PARKMAN                          |                 |             |                     |            |            |                       |                       |                      |                     |
| 4,100.00                         | 18.57           | 229.68      | 3,963.01            | -574.84    | -677.24    | 888.32                | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                         | 18.57           | 229.68      | 4,057.81            | -595.45    | -701.52    | 920.16                | 0.00                  | 0.00                 | 0.00                |
| 4,300.00                         | 18.57           | 229.68      | 4,152.60            | -616.05    | -725.79    | 952.00                | 0.00                  | 0.00                 | 0.00                |
| 4,400.00                         | 18.57           | 229.68      | 4,247.40            | -636.66    | -750.07    | 983.83                | 0.00                  | 0.00                 | 0.00                |

|                  |                             |                                     |  |
|------------------|-----------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_Cannon 25-3                       |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_CANNON 17-3 PAD        | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | P_Cannon 25-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | P_Cannon 25-3               |                                     |  |
| <b>Design:</b>   | PLAN #2 9-13-10 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) |  |
| 4,500.00                                | 18.57           | 229.68      | 4,342.19            | -657.26    | -774.34    | 1,015.67              | 0.00                  | 0.00                 | 0.00                |  |
| 4,582.08                                | 18.57           | 229.68      | 4,420.00            | -674.17    | -794.26    | 1,041.81              | 0.00                  | 0.00                 | 0.00                |  |
| <b>SUSSEX</b>                           |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 4,600.00                                | 18.57           | 229.68      | 4,436.99            | -677.86    | -798.62    | 1,047.51              | 0.00                  | 0.00                 | 0.00                |  |
| 4,700.00                                | 18.57           | 229.68      | 4,531.79            | -698.47    | -822.89    | 1,079.35              | 0.00                  | 0.00                 | 0.00                |  |
| 4,800.00                                | 18.57           | 229.68      | 4,626.58            | -719.07    | -847.16    | 1,111.19              | 0.00                  | 0.00                 | 0.00                |  |
| 4,900.00                                | 18.57           | 229.68      | 4,721.38            | -739.68    | -871.44    | 1,143.03              | 0.00                  | 0.00                 | 0.00                |  |
| 5,000.00                                | 18.57           | 229.68      | 4,816.17            | -760.28    | -895.71    | 1,174.87              | 0.00                  | 0.00                 | 0.00                |  |
| 5,048.34                                | 18.57           | 229.68      | 4,862.00            | -770.24    | -907.45    | 1,190.27              | 0.00                  | 0.00                 | 0.00                |  |
| <b>SHANNON</b>                          |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 5,100.00                                | 18.57           | 229.68      | 4,910.97            | -780.88    | -919.99    | 1,206.71              | 0.00                  | 0.00                 | 0.00                |  |
| 5,132.58                                | 18.57           | 229.68      | 4,941.86            | -787.60    | -927.90    | 1,217.09              | 0.00                  | 0.00                 | 0.00                |  |
| <b>Start Drop -2.00</b>                 |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 5,200.00                                | 17.22           | 229.68      | 5,006.01            | -801.00    | -943.69    | 1,237.80              | 2.00                  | -2.00                | 0.00                |  |
| 5,300.00                                | 15.22           | 229.68      | 5,102.03            | -819.07    | -964.98    | 1,265.73              | 2.00                  | -2.00                | 0.00                |  |
| 5,400.00                                | 13.22           | 229.68      | 5,198.96            | -834.97    | -983.70    | 1,290.29              | 2.00                  | -2.00                | 0.00                |  |
| 5,500.00                                | 11.22           | 229.68      | 5,296.69            | -848.66    | -999.84    | 1,311.45              | 2.00                  | -2.00                | 0.00                |  |
| 5,600.00                                | 9.22            | 229.68      | 5,395.10            | -860.14    | -1,013.36  | 1,329.19              | 2.00                  | -2.00                | 0.00                |  |
| 5,700.00                                | 7.22            | 229.68      | 5,494.07            | -869.39    | -1,024.26  | 1,343.48              | 2.00                  | -2.00                | 0.00                |  |
| 5,800.00                                | 5.22            | 229.68      | 5,593.47            | -876.40    | -1,032.51  | 1,354.31              | 2.00                  | -2.00                | 0.00                |  |
| 5,900.00                                | 3.22            | 229.68      | 5,693.20            | -881.16    | -1,038.12  | 1,361.66              | 2.00                  | -2.00                | 0.00                |  |
| 6,000.00                                | 1.22            | 229.68      | 5,793.12            | -883.66    | -1,041.07  | 1,365.53              | 2.00                  | -2.00                | 0.00                |  |
| 6,060.89                                | 0.00            | 0.00        | 5,854.00            | -884.08    | -1,041.56  | 1,366.18              | 2.00                  | -2.00                | 0.00                |  |
| <b>Start 1890.00 hold at 6060.89 MD</b> |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 6,100.00                                | 0.00            | 0.00        | 5,893.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,200.00                                | 0.00            | 0.00        | 5,993.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,300.00                                | 0.00            | 0.00        | 6,093.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,400.00                                | 0.00            | 0.00        | 6,193.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,500.00                                | 0.00            | 0.00        | 6,293.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,600.00                                | 0.00            | 0.00        | 6,393.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,700.00                                | 0.00            | 0.00        | 6,493.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,800.00                                | 0.00            | 0.00        | 6,593.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 6,900.00                                | 0.00            | 0.00        | 6,693.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,000.00                                | 0.00            | 0.00        | 6,793.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,060.89                                | 0.00            | 0.00        | 6,854.00            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| <b>NIO</b>                              |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,100.00                                | 0.00            | 0.00        | 6,893.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,200.00                                | 0.00            | 0.00        | 6,993.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,300.00                                | 0.00            | 0.00        | 7,093.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,354.89                                | 0.00            | 0.00        | 7,148.00            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| <b>CODELL</b>                           |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,400.00                                | 0.00            | 0.00        | 7,193.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,440.89                                | 0.00            | 0.00        | 7,234.00            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| <b>GREENHORN</b>                        |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,500.00                                | 0.00            | 0.00        | 7,293.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,600.00                                | 0.00            | 0.00        | 7,393.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,700.00                                | 0.00            | 0.00        | 7,493.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,800.00                                | 0.00            | 0.00        | 7,593.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| 7,800.89                                | 0.00            | 0.00        | 7,594.00            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |
| <b>JSAND</b>                            |                 |             |                     |            |            |                       |                       |                      |                     |  |
| 7,900.00                                | 0.00            | 0.00        | 7,693.11            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |  |

|                  |                             |                                     |  |
|------------------|-----------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM5000-RobertS-Local       | <b>Local Co-ordinate Reference:</b> | Well P_Cannon 25-3                       |
| <b>Company:</b>  | US ROCKIES REGION PLANNING  | <b>TVD Reference:</b>               | GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |
| <b>Project:</b>  | COLORADO NORTHERN ZONE - 83 | <b>MD Reference:</b>                | GL 4844' & 15' RKB @ 4859.00ft (ASSUMED) |
| <b>Site:</b>     | WELD_CANNON 17-3 PAD        | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | P_Cannon 25-3               | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | P_Cannon 25-3               |                                     |  |
| <b>Design:</b>   | PLAN #2 9-13-10 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) |
| 7,950.89                              | 0.00            | 0.00        | 7,744.00            | -884.08    | -1,041.56  | 1,366.18              | 0.00                  | 0.00                 | 0.00                |
| PBHL_Cannon 25-3(2422' FNL 2570' FWL) |                 |             |                     |            |            |                       |                       |                      |                     |

| Design Targets  |               |              |          |            |            |                 |                |                 |                  |
|---|---------------|--------------|----------|------------|------------|-----------------|----------------|-----------------|------------------|
| Target Name<br>- hit/miss target<br>- Shape   | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude        | Longitude        |
| PBHL_Cannon 25-3(2422' FNL 2570' FWL)<br>- plan hits target center<br>- Circle (radius 50.00) | 0.00          | 0.00         | 7,744.00 | -884.08    | -1,041.56  | 1,305,172.18    | 3,237,532.02   | 40° 10' 4.685 N | 104° 39' 0.108 W |

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

| Formations          |                     |           |           |         |                   |  |
|---------------------|---------------------|-----------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name      | Lithology | Dip (°) | Dip Direction (°) |  |
| 4,064.12            | 3,929.00            | PARKMAN   |           |         |                   |  |
| 4,582.08            | 4,420.00            | SUSSEX    |           |         |                   |  |
| 5,048.34            | 4,862.00            | SHANNON   |           |         |                   |  |
| 7,060.89            | 6,854.00            | NIO       |           |         |                   |  |
| 7,354.89            | 7,148.00            | CODELL    |           |         |                   |  |
| 7,440.89            | 7,234.00            | GREENHORN |           |         |                   |  |
| 7,800.89            | 7,594.00            | JSAND     |           |         |                   |  |

| Plan Annotations    |                     |                   |            |                                  |  |
|---------------------|---------------------|-------------------|------------|----------------------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates |            | Comment                          |  |
|                     |                     | +N/-S (ft)        | +E/-W (ft) |                                  |  |
| 850.00              | 850.00              | 0.00              | 0.00       | Start Build 2.00                 |  |
| 1,778.30            | 1,762.14            | -96.48            | -113.67    | Start 3354.28 hold at 1778.30 MD |  |
| 5,132.58            | 4,941.86            | -787.60           | -927.90    | Start Drop -2.00                 |  |
| 6,060.89            | 5,854.00            | -884.08           | -1,041.56  | Start 1890.00 hold at 6060.89 MD |  |
| 7,950.89            | 7,744.00            | -884.08           | -1,041.56  | TD at 7950.89                    |  |