

# **EXTRACTION OIL & GAS**

**WELD COUNTY**

**Sec 28-T1N-R68W**

**COYOTE TRAILS 33W-15-4N**

**ORIGINAL WELLBORE**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**11 February, 2019**



Project: WELD COUNTY  
Site: Sec 28-T1N-R68W  
Well: COYOTE TRAILS 33W-15-4N  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL 1



Azimuths to True North  
Magnetic North: 8.30°

Magnetic Field  
Strength: 52159.8nT  
Dip Angle: 66.51°  
Date: 6/29/2017  
Model: IGRF2015

#### WELL DETAILS: COYOTE TRAILS 33W-15-4N

|  | 5273.00 |       |            |            |             |              |      |
|--|---------|-------|------------|------------|-------------|--------------|------|
|  | +N/-S   | +E/-W | Northing   | Easting    | Latitude    | Longitude    | Slot |
|  | 0.00    | 0.00  | 1249858.73 | 3137900.87 | 40.018198°N | 105.007633°W |      |

#### SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W    | Dleg  | TFace  | VSec    | Target         |
|-----|----------|-------|--------|---------|----------|----------|-------|--------|---------|----------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00     | 0.00  | 0.00   | 0.00    |                |
| 2   | 1000.00  | 0.00  | 0.00   | 1000.00 | 0.00     | 0.00     | 0.00  | 0.00   | 0.00    |                |
| 3   | 2222.58  | 24.45 | 176.73 | 2185.81 | -256.52  | 14.66    | 2.00  | 176.73 | 58.65   |                |
| 4   | 6467.71  | 24.45 | 176.73 | 6050.19 | -2010.83 | 114.93   | 0.00  | 0.00   | 459.75  |                |
| 5   | 7690.29  | 0.00  | 0.00   | 7236.00 | -2267.35 | 129.59   | 2.00  | 180.00 | 518.40  |                |
| 6   | 7720.29  | 0.00  | 0.00   | 7266.00 | -2267.35 | 129.59   | 0.00  | 0.00   | 518.40  |                |
| 7   | 8620.35  | 90.00 | 269.90 | 7839.00 | -2268.32 | -443.41  | 10.00 | 269.90 | 1068.17 | CT 33W-4N LP   |
| 8   | 15894.12 | 90.00 | 269.90 | 7839.00 | -2280.97 | -7717.16 | 0.00  | 0.00   | 8047.20 | CT 33W-4N PBHL |

#### ANNOTATIONS

| MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W    | VSec    | Departure | Annotation                       |
|----------|-------|--------|---------|----------|----------|---------|-----------|----------------------------------|
| 1000.00  | 0.00  | 0.00   | 1000.00 | 0.00     | 0.00     | 0.00    | 0.00      | Start Build 2.00                 |
| 2222.58  | 24.45 | 176.73 | 2185.81 | -256.52  | 14.66    | 58.65   | 256.94    | Start 4245.13 hold at 2222.58 MD |
| 6467.71  | 24.45 | 176.73 | 6050.19 | -2010.83 | 114.93   | 459.75  | 2014.11   | Start Drop -2.00                 |
| 7690.29  | 0.00  | 0.00   | 7236.00 | -2267.35 | 129.59   | 518.40  | 2271.05   | Start 30.00 hold at 7690.29 MD   |
| 7720.29  | 0.00  | 0.00   | 7266.00 | -2267.35 | 129.59   | 518.40  | 2271.05   | Start DLS 10.00 TFO 269.90       |
| 8620.35  | 90.00 | 269.90 | 7839.00 | -2268.32 | -443.41  | 1068.17 | 2844.05   | Start 7273.77 hold at 8620.35 MD |
| 15894.12 | 90.00 | 269.90 | 7839.05 | -2280.69 | -7717.16 | 8047.12 | 10117.81  | TD at 15894.12                   |

#### DESIGN TARGET DETAILS

| Name                      | TVD     | +N/-S    | +E/-W    | Northing   | Easting    | Latitude    | Longitude    | Shape |
|---------------------------|---------|----------|----------|------------|------------|-------------|--------------|-------|
| CT 33W-4N LP              | 7839.00 | -2268.32 | -443.41  | 1247587.98 | 3137470.06 | 40.011971°N | 105.009216°W | Point |
| - plan hits target center |         |          |          |            |            |             |              |       |
| CT 33W-4N PBHL            | 7839.00 | -2280.97 | -7717.16 | 1247534.95 | 3130196.49 | 40.011933°N | 105.035184°W | Point |
| - plan hits target center |         |          |          |            |            |             |              |       |

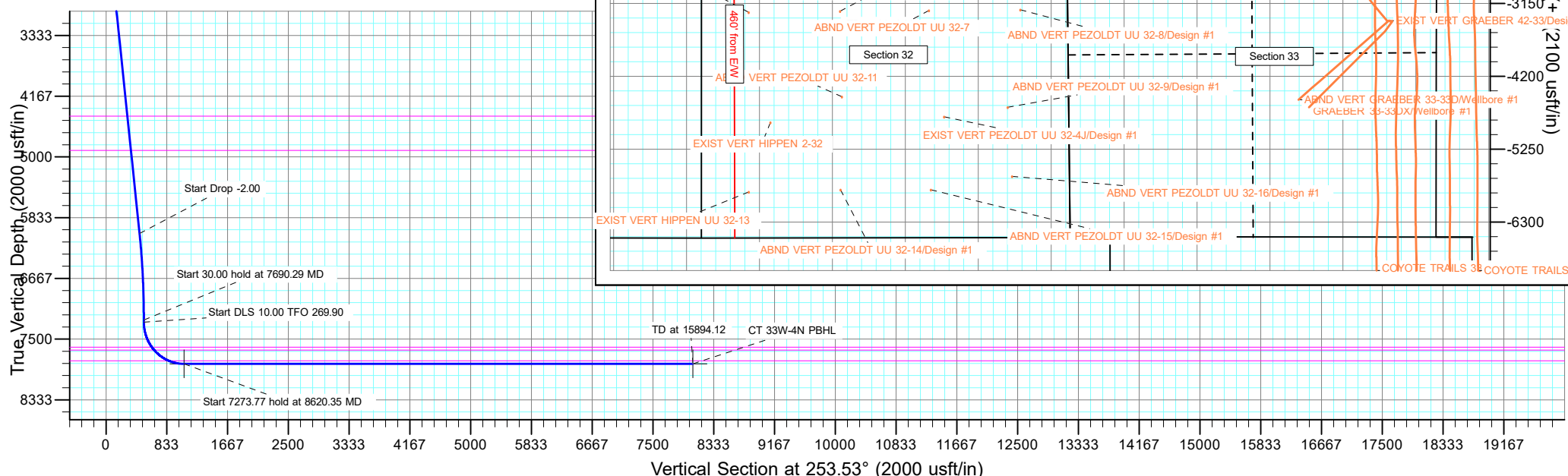
#### FORMATION TOP DETAILS

| TVDPath | MDPath  | Formation      |
|---------|---------|----------------|
| 4440.00 | 4698.87 | PARKMAN        |
| 4910.00 | 5215.18 | SUSSEX         |
| 7610.00 | 8089.27 | SHARON SPRINGS |
| 7650.00 | 8141.11 | NIOBRARA       |
| 7797.00 | 8399.61 | NIO B          |

#### PROJECT DETAILS: WELD COUNTY

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level

SHL:  
1230' FSL, 2399' FEL  
Sec 28-T1N-R68W  
LP:  
1034' FNL, 2482' FWL  
Sec 33-T1N-R68W  
BHL:  
1033' FNL, 460' FWL  
Sec 32-T1N-R68W



## Planning Report

|                  |                         |                                     |                              |
|------------------|-------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDT_32Bit_ODBC          | <b>Local Co-ordinate Reference:</b> | Well COYOTE TRAILS 33W-15-4N |
| <b>Company:</b>  | EXTRACTION OIL & GAS    | <b>TVD Reference:</b>               | KB 28' @ 5301.00usft         |
| <b>Project:</b>  | WELD COUNTY             | <b>MD Reference:</b>                | KB 28' @ 5301.00usft         |
| <b>Site:</b>     | Sec 28-T1N-R68W         | <b>North Reference:</b>             | True                         |
| <b>Well:</b>     | COYOTE TRAILS 33W-15-4N | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | ORIGINAL WELLBORE       |                                     |                              |
| <b>Design:</b>   | PROPOSAL 1              |                                     |                              |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | WELD COUNTY               |                      |                |
| <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                  |           | Sec 28-T1N-R68W |                   |                   |              |
| Site Position:        |           | Northing:       | 1,248,660.21 usft | Latitude:         | 40.014871°N  |
| From:                 | Lat/Long  | Easting:        | 3,140,299.83 usft | Longitude:        | 104.999092°W |
| Position Uncertainty: | 0.00 usft | Slot Radius:    | 13.200 in         | Grid Convergence: | 0.32 °       |

| Well                 | COYOTE TRAILS 33W-15-4N |                |                     |                   |               |               |
|----------------------|-------------------------|----------------|---------------------|-------------------|---------------|---------------|
| Well Position        | +N/-S                   | 1,212.05 usft  | Northing:           | 1,249,858.73 usft | Latitude:     | 40.018198°N   |
|                      | +E/-W                   | -2,392.15 usft | Easting:            | 3,137,900.87 usft | Longitude:    | 105.007633°W  |
| Position Uncertainty |                         | 0.00 usft      | Wellhead Elevation: |                   | Ground Level: | 5,273.00 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | ORIGINAL WELLBORE |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 6/29/2017          | 8.30                   | 66.51                | 52,159.79445661            |

|                   |                            |                 |                 |                  |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design            | PROPOSAL 1                 |                 |                 |                  |
| Audit Notes:      |                            |                 |                 |                  |
| Version:          | Phase:                     | PROTOTYPE       | Tie On Depth:   | 0.00             |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(°) |
|                   | 0.00                       | 0.00            | 0.00            | 253.53           |

|                                 |                        |                          |                           |                |  |
|---------------------------------|------------------------|--------------------------|---------------------------|----------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 2/11/2019                |                           |                |  |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>          | <b>Remarks</b> |  |
| 1                               | 0.00                   | 15,894.12                | PROPOSAL 1 (ORIGINAL WELL | MWD OWSG       |  |
|                                 |                        |                          | OWSG MWD - Standard       |                |  |

|                              |                        |                    |                              |                     |                     |                              |                             |                            |                |                |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|------------------------------|-----------------------------|----------------------------|----------------|----------------|
| <b>Plan Sections</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>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>  |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.00           |                |
| 1,000.00                     | 0.00                   | 0.00               | 1,000.00                     | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.00           |                |
| 2,222.58                     | 24.45                  | 176.73             | 2,185.81                     | -256.52             | 14.66               | 2.00                         | 2.00                        | 0.00                       | 176.73         |                |
| 6,467.71                     | 24.45                  | 176.73             | 6,050.19                     | -2,010.83           | 114.93              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                |
| 7,690.29                     | 0.00                   | 0.00               | 7,236.00                     | -2,267.35           | 129.59              | 2.00                         | -2.00                       | 0.00                       | 180.00         |                |
| 7,720.29                     | 0.00                   | 0.00               | 7,266.00                     | -2,267.35           | 129.59              | 0.00                         | 0.00                        | 0.00                       | 0.00           |                |
| 8,620.35                     | 90.00                  | 269.90             | 7,839.00                     | -2,268.32           | -443.41             | 10.00                        | 10.00                       | -10.01                     | 269.90         | CT 33W-4N LP   |
| 15,894.12                    | 90.00                  | 269.90             | 7,839.00                     | -2,280.97           | -7,717.16           | 0.00                         | 0.00                        | 0.00                       | 0.00           | CT 33W-4N PBHL |

# Planning Report

|                  |                         |                                     |                              |
|------------------|-------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDT_32Bit_ODBC          | <b>Local Co-ordinate Reference:</b> | Well COYOTE TRAILS 33W-15-4N |
| <b>Company:</b>  | EXTRACTION OIL & GAS    | <b>TVD Reference:</b>               | KB 28' @ 5301.00usft         |
| <b>Project:</b>  | WELD COUNTY             | <b>MD Reference:</b>                | KB 28' @ 5301.00usft         |
| <b>Site:</b>     | Sec 28-T1N-R68W         | <b>North Reference:</b>             | True                         |
| <b>Well:</b>     | COYOTE TRAILS 33W-15-4N | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | ORIGINAL WELLBORE       |                                     |                              |
| <b>Design:</b>   | PROPOSAL 1              |                                     |                              |

| Planned Survey                   |                 |             |                       |              |              |                         |                       |                      |                     |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | 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                |
| 800.00                           | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 900.00                           | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| 1,000.00                         | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                  | 0.00                 | 0.00                |
| Start Build 2.00                 |                 |             |                       |              |              |                         |                       |                      |                     |
| 1,100.00                         | 2.00            | 176.73      | 1,099.98              | -1.74        | 0.10         | 0.40                    | 2.00                  | 2.00                 | 0.00                |
| 1,200.00                         | 4.00            | 176.73      | 1,199.84              | -6.97        | 0.40         | 1.59                    | 2.00                  | 2.00                 | 0.00                |
| 1,300.00                         | 6.00            | 176.73      | 1,299.45              | -15.67       | 0.90         | 3.58                    | 2.00                  | 2.00                 | 0.00                |
| 1,400.00                         | 8.00            | 176.73      | 1,398.70              | -27.83       | 1.59         | 6.36                    | 2.00                  | 2.00                 | 0.00                |
| 1,500.00                         | 10.00           | 176.73      | 1,497.47              | -43.45       | 2.48         | 9.93                    | 2.00                  | 2.00                 | 0.00                |
| 1,600.00                         | 12.00           | 176.73      | 1,595.62              | -62.50       | 3.57         | 14.29                   | 2.00                  | 2.00                 | 0.00                |
| 1,700.00                         | 14.00           | 176.73      | 1,693.06              | -84.96       | 4.86         | 19.42                   | 2.00                  | 2.00                 | 0.00                |
| 1,800.00                         | 16.00           | 176.73      | 1,789.64              | -110.80      | 6.33         | 25.33                   | 2.00                  | 2.00                 | 0.00                |
| 1,900.00                         | 18.00           | 176.73      | 1,885.27              | -139.98      | 8.00         | 32.01                   | 2.00                  | 2.00                 | 0.00                |
| 2,000.00                         | 20.00           | 176.73      | 1,979.82              | -172.49      | 9.86         | 39.44                   | 2.00                  | 2.00                 | 0.00                |
| 2,100.00                         | 22.00           | 176.73      | 2,073.17              | -208.26      | 11.90        | 47.62                   | 2.00                  | 2.00                 | 0.00                |
| 2,200.00                         | 24.00           | 176.73      | 2,165.21              | -247.27      | 14.13        | 56.54                   | 2.00                  | 2.00                 | 0.00                |
| 2,222.58                         | 24.45           | 176.73      | 2,185.81              | -256.52      | 14.66        | 58.65                   | 2.00                  | 2.00                 | 0.00                |
| Start 4245.13 hold at 2222.58 MD |                 |             |                       |              |              |                         |                       |                      |                     |
| 2,300.00                         | 24.45           | 176.73      | 2,256.28              | -288.52      | 16.49        | 65.97                   | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                         | 24.45           | 176.73      | 2,347.31              | -329.84      | 18.85        | 75.41                   | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                         | 24.45           | 176.73      | 2,438.34              | -371.17      | 21.21        | 84.86                   | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                         | 24.45           | 176.73      | 2,529.38              | -412.49      | 23.58        | 94.31                   | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                         | 24.45           | 176.73      | 2,620.41              | -453.82      | 25.94        | 103.76                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                         | 24.45           | 176.73      | 2,711.44              | -495.14      | 28.30        | 113.21                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                         | 24.45           | 176.73      | 2,802.47              | -536.47      | 30.66        | 122.66                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                         | 24.45           | 176.73      | 2,893.50              | -577.79      | 33.02        | 132.10                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                         | 24.45           | 176.73      | 2,984.53              | -619.12      | 35.39        | 141.55                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                         | 24.45           | 176.73      | 3,075.56              | -660.44      | 37.75        | 151.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                         | 24.45           | 176.73      | 3,166.59              | -701.77      | 40.11        | 160.45                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                         | 24.45           | 176.73      | 3,257.62              | -743.09      | 42.47        | 169.90                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                         | 24.45           | 176.73      | 3,348.65              | -784.42      | 44.83        | 179.35                  | 0.00                  | 0.00                 | 0.00                |
| 3,600.00                         | 24.45           | 176.73      | 3,439.69              | -825.74      | 47.20        | 188.80                  | 0.00                  | 0.00                 | 0.00                |
| 3,700.00                         | 24.45           | 176.73      | 3,530.72              | -867.07      | 49.56        | 198.24                  | 0.00                  | 0.00                 | 0.00                |
| 3,800.00                         | 24.45           | 176.73      | 3,621.75              | -908.39      | 51.92        | 207.69                  | 0.00                  | 0.00                 | 0.00                |
| 3,900.00                         | 24.45           | 176.73      | 3,712.78              | -949.72      | 54.28        | 217.14                  | 0.00                  | 0.00                 | 0.00                |
| 4,000.00                         | 24.45           | 176.73      | 3,803.81              | -991.04      | 56.64        | 226.59                  | 0.00                  | 0.00                 | 0.00                |
| 4,100.00                         | 24.45           | 176.73      | 3,894.84              | -1,032.37    | 59.00        | 236.04                  | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                         | 24.45           | 176.73      | 3,985.87              | -1,073.69    | 61.37        | 245.49                  | 0.00                  | 0.00                 | 0.00                |
| 4,300.00                         | 24.45           | 176.73      | 4,076.90              | -1,115.02    | 63.73        | 254.93                  | 0.00                  | 0.00                 | 0.00                |
| 4,400.00                         | 24.45           | 176.73      | 4,167.93              | -1,156.34    | 66.09        | 264.38                  | 0.00                  | 0.00                 | 0.00                |
| 4,500.00                         | 24.45           | 176.73      | 4,258.97              | -1,197.67    | 68.45        | 273.83                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00                         | 24.45           | 176.73      | 4,350.00              | -1,238.99    | 70.81        | 283.28                  | 0.00                  | 0.00                 | 0.00                |
| 4,698.87                         | 24.45           | 176.73      | 4,440.00              | -1,279.85    | 73.15        | 292.62                  | 0.00                  | 0.00                 | 0.00                |
| PARKMAN                          |                 |             |                       |              |              |                         |                       |                      |                     |
| 4,700.00                         | 24.45           | 176.73      | 4,441.03              | -1,280.32    | 73.18        | 292.73                  | 0.00                  | 0.00                 | 0.00                |

# Planning Report

|                  |                         |                                     |                              |
|------------------|-------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDT_32Bit_ODBC          | <b>Local Co-ordinate Reference:</b> | Well COYOTE TRAILS 33W-15-4N |
| <b>Company:</b>  | EXTRACTION OIL & GAS    | <b>TVD Reference:</b>               | KB 28' @ 5301.00usft         |
| <b>Project:</b>  | WELD COUNTY             | <b>MD Reference:</b>                | KB 28' @ 5301.00usft         |
| <b>Site:</b>     | Sec 28-T1N-R68W         | <b>North Reference:</b>             | True                         |
| <b>Well:</b>     | COYOTE TRAILS 33W-15-4N | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | ORIGINAL WELLBORE       |                                     |                              |
| <b>Design:</b>   | PROPOSAL 1              |                                     |                              |

| Planned Survey                        |                 |             |                       |              |              |                         |                       |                      |                     |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,800.00                              | 24.45           | 176.73      | 4,532.06              | -1,321.64    | 75.54        | 302.18                  | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                              | 24.45           | 176.73      | 4,623.09              | -1,362.97    | 77.90        | 311.63                  | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                              | 24.45           | 176.73      | 4,714.12              | -1,404.29    | 80.26        | 321.07                  | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                              | 24.45           | 176.73      | 4,805.15              | -1,445.62    | 82.62        | 330.52                  | 0.00                  | 0.00                 | 0.00                |
| 5,200.00                              | 24.45           | 176.73      | 4,896.18              | -1,486.94    | 84.99        | 339.97                  | 0.00                  | 0.00                 | 0.00                |
| 5,215.18                              | 24.45           | 176.73      | 4,910.00              | -1,493.22    | 85.34        | 341.41                  | 0.00                  | 0.00                 | 0.00                |
| <b>SUSSEX</b>                         |                 |             |                       |              |              |                         |                       |                      |                     |
| 5,300.00                              | 24.45           | 176.73      | 4,987.21              | -1,528.27    | 87.35        | 349.42                  | 0.00                  | 0.00                 | 0.00                |
| 5,400.00                              | 24.45           | 176.73      | 5,078.24              | -1,569.60    | 89.71        | 358.87                  | 0.00                  | 0.00                 | 0.00                |
| 5,500.00                              | 24.45           | 176.73      | 5,169.28              | -1,610.92    | 92.07        | 368.32                  | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                              | 24.45           | 176.73      | 5,260.31              | -1,652.25    | 94.43        | 377.76                  | 0.00                  | 0.00                 | 0.00                |
| 5,700.00                              | 24.45           | 176.73      | 5,351.34              | -1,693.57    | 96.80        | 387.21                  | 0.00                  | 0.00                 | 0.00                |
| 5,800.00                              | 24.45           | 176.73      | 5,442.37              | -1,734.90    | 99.16        | 396.66                  | 0.00                  | 0.00                 | 0.00                |
| 5,900.00                              | 24.45           | 176.73      | 5,533.40              | -1,776.22    | 101.52       | 406.11                  | 0.00                  | 0.00                 | 0.00                |
| 6,000.00                              | 24.45           | 176.73      | 5,624.43              | -1,817.55    | 103.88       | 415.56                  | 0.00                  | 0.00                 | 0.00                |
| 6,100.00                              | 24.45           | 176.73      | 5,715.46              | -1,858.87    | 106.24       | 425.01                  | 0.00                  | 0.00                 | 0.00                |
| 6,200.00                              | 24.45           | 176.73      | 5,806.49              | -1,900.20    | 108.61       | 434.46                  | 0.00                  | 0.00                 | 0.00                |
| 6,300.00                              | 24.45           | 176.73      | 5,897.52              | -1,941.52    | 110.97       | 443.90                  | 0.00                  | 0.00                 | 0.00                |
| 6,400.00                              | 24.45           | 176.73      | 5,988.56              | -1,982.85    | 113.33       | 453.35                  | 0.00                  | 0.00                 | 0.00                |
| 6,467.71                              | 24.45           | 176.73      | 6,050.19              | -2,010.83    | 114.93       | 459.75                  | 0.00                  | 0.00                 | 0.00                |
| <b>Start Drop -2.00</b>               |                 |             |                       |              |              |                         |                       |                      |                     |
| 6,500.00                              | 23.81           | 176.73      | 6,079.66              | -2,024.01    | 115.68       | 462.76                  | 2.00                  | -2.00                | 0.00                |
| 6,600.00                              | 21.81           | 176.73      | 6,171.84              | -2,062.70    | 117.89       | 471.61                  | 2.00                  | -2.00                | 0.00                |
| 6,700.00                              | 19.81           | 176.73      | 6,265.31              | -2,098.16    | 119.92       | 479.72                  | 2.00                  | -2.00                | 0.00                |
| 6,800.00                              | 17.81           | 176.73      | 6,359.97              | -2,130.34    | 121.76       | 487.08                  | 2.00                  | -2.00                | 0.00                |
| 6,900.00                              | 15.81           | 176.73      | 6,455.69              | -2,159.21    | 123.41       | 493.68                  | 2.00                  | -2.00                | 0.00                |
| 7,000.00                              | 13.81           | 176.73      | 6,552.37              | -2,184.72    | 124.87       | 499.51                  | 2.00                  | -2.00                | 0.00                |
| 7,100.00                              | 11.81           | 176.73      | 6,649.88              | -2,206.85    | 126.13       | 504.57                  | 2.00                  | -2.00                | 0.00                |
| 7,200.00                              | 9.81            | 176.73      | 6,748.10              | -2,225.57    | 127.20       | 508.85                  | 2.00                  | -2.00                | 0.00                |
| 7,300.00                              | 7.81            | 176.73      | 6,846.91              | -2,240.85    | 128.08       | 512.34                  | 2.00                  | -2.00                | 0.00                |
| 7,400.00                              | 5.81            | 176.73      | 6,946.20              | -2,252.68    | 128.75       | 515.05                  | 2.00                  | -2.00                | 0.00                |
| 7,500.00                              | 3.81            | 176.73      | 7,045.85              | -2,261.04    | 129.23       | 516.96                  | 2.00                  | -2.00                | 0.00                |
| 7,600.00                              | 1.81            | 176.73      | 7,145.72              | -2,265.93    | 129.51       | 518.08                  | 2.00                  | -2.00                | 0.00                |
| 7,690.29                              | 0.00            | 0.00        | 7,236.00              | -2,267.35    | 129.59       | 518.40                  | 2.00                  | -2.00                | 0.00                |
| <b>Start 30.00 hold at 7690.29 MD</b> |                 |             |                       |              |              |                         |                       |                      |                     |
| 7,700.00                              | 0.00            | 0.00        | 7,245.71              | -2,267.35    | 129.59       | 518.40                  | 0.00                  | 0.00                 | 0.00                |
| 7,720.29                              | 0.00            | 0.00        | 7,266.00              | -2,267.35    | 129.59       | 518.40                  | 0.00                  | 0.00                 | 0.00                |
| <b>Start DLS 10.00 TFO 269.90</b>     |                 |             |                       |              |              |                         |                       |                      |                     |
| 7,750.00                              | 2.97            | 269.90      | 7,295.70              | -2,267.35    | 128.82       | 519.14                  | 10.00                 | 10.00                | 0.00                |
| 7,800.00                              | 7.97            | 269.90      | 7,345.45              | -2,267.36    | 124.05       | 523.71                  | 10.00                 | 10.00                | 0.00                |
| 7,850.00                              | 12.97           | 269.90      | 7,394.60              | -2,267.37    | 114.97       | 532.43                  | 10.00                 | 10.00                | 0.00                |
| 7,900.00                              | 17.97           | 269.90      | 7,442.78              | -2,267.40    | 101.64       | 545.22                  | 10.00                 | 10.00                | 0.00                |
| 7,950.00                              | 22.97           | 269.90      | 7,489.60              | -2,267.43    | 84.16        | 561.99                  | 10.00                 | 10.00                | 0.00                |
| 8,000.00                              | 27.97           | 269.90      | 7,534.73              | -2,267.46    | 62.67        | 582.61                  | 10.00                 | 10.00                | 0.00                |
| 8,050.00                              | 32.97           | 269.90      | 7,577.81              | -2,267.51    | 37.32        | 606.93                  | 10.00                 | 10.00                | 0.00                |
| 8,089.27                              | 36.89           | 269.90      | 7,610.00              | -2,267.55    | 14.84        | 628.50                  | 10.00                 | 10.00                | 0.00                |
| <b>SHARON SPRINGS</b>                 |                 |             |                       |              |              |                         |                       |                      |                     |
| 8,100.00                              | 37.97           | 269.90      | 7,618.52              | -2,267.56    | 8.32         | 634.76                  | 10.00                 | 10.00                | 0.00                |
| 8,141.11                              | 42.08           | 269.90      | 7,650.00              | -2,267.60    | -18.12       | 660.12                  | 10.00                 | 10.00                | 0.00                |
| <b>NIOBRARA</b>                       |                 |             |                       |              |              |                         |                       |                      |                     |
| 8,150.00                              | 42.97           | 269.90      | 7,656.55              | -2,267.61    | -24.12       | 665.88                  | 10.00                 | 10.00                | 0.00                |
| 8,200.00                              | 47.97           | 269.90      | 7,691.60              | -2,267.67    | -59.75       | 700.07                  | 10.00                 | 10.00                | 0.00                |
| 8,250.00                              | 52.97           | 269.90      | 7,723.42              | -2,267.74    | -98.31       | 737.06                  | 10.00                 | 10.00                | 0.00                |

# Planning Report

|                  |                         |                                     |                              |
|------------------|-------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDT_32Bit_ODBC          | <b>Local Co-ordinate Reference:</b> | Well COYOTE TRAILS 33W-15-4N |
| <b>Company:</b>  | EXTRACTION OIL & GAS    | <b>TVD Reference:</b>               | KB 28' @ 5301.00usft         |
| <b>Project:</b>  | WELD COUNTY             | <b>MD Reference:</b>                | KB 28' @ 5301.00usft         |
| <b>Site:</b>     | Sec 28-T1N-R68W         | <b>North Reference:</b>             | True                         |
| <b>Well:</b>     | COYOTE TRAILS 33W-15-4N | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | ORIGINAL WELLBORE       |                                     |                              |
| <b>Design:</b>   | PROPOSAL 1              |                                     |                              |

| Planned Survey                   |                 |             |                       |              |              |                         |                       |                      |                     |  |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|--|
| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |  |
| 8,300.00                         | 57.97           | 269.90      | 7,751.75              | -2,267.81    | -139.48      | 776.57                  | 10.00                 | 10.00                | 0.00                |  |
| 8,350.00                         | 62.97           | 269.90      | 7,776.39              | -2,267.88    | -182.97      | 818.29                  | 10.00                 | 10.00                | 0.00                |  |
| 8,399.61                         | 67.93           | 269.90      | 7,797.00              | -2,267.96    | -228.08      | 861.57                  | 10.00                 | 10.00                | 0.00                |  |
| NIO B                            |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 8,400.00                         | 67.97           | 269.90      | 7,797.15              | -2,267.96    | -228.44      | 861.92                  | 10.00                 | 10.00                | 0.00                |  |
| 8,450.00                         | 72.97           | 269.90      | 7,813.86              | -2,268.04    | -275.55      | 907.12                  | 10.00                 | 10.00                | 0.00                |  |
| 8,500.00                         | 77.97           | 269.90      | 7,826.41              | -2,268.12    | -323.93      | 953.54                  | 10.00                 | 10.00                | 0.00                |  |
| 8,550.00                         | 82.96           | 269.90      | 7,834.69              | -2,268.21    | -373.23      | 1,000.84                | 10.00                 | 10.00                | 0.00                |  |
| 8,600.00                         | 87.96           | 269.90      | 7,838.64              | -2,268.29    | -423.06      | 1,048.65                | 10.00                 | 10.00                | 0.00                |  |
| 8,620.35                         | 90.00           | 269.90      | 7,839.00              | -2,268.32    | -443.41      | 1,068.17                | 10.00                 | 10.00                | 0.00                |  |
| Start 7273.77 hold at 8620.35 MD |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 8,700.00                         | 90.00           | 269.90      | 7,839.00              | -2,268.46    | -523.05      | 1,144.59                | 0.00                  | 0.00                 | 0.00                |  |
| 8,800.00                         | 90.00           | 269.90      | 7,839.00              | -2,268.63    | -623.05      | 1,240.54                | 0.00                  | 0.00                 | 0.00                |  |
| 8,900.00                         | 90.00           | 269.90      | 7,839.00              | -2,268.80    | -723.05      | 1,336.48                | 0.00                  | 0.00                 | 0.00                |  |
| 9,000.00                         | 90.00           | 269.90      | 7,839.00              | -2,268.97    | -823.05      | 1,432.43                | 0.00                  | 0.00                 | 0.00                |  |
| 9,100.00                         | 90.00           | 269.90      | 7,839.00              | -2,269.14    | -923.05      | 1,528.38                | 0.00                  | 0.00                 | 0.00                |  |
| 9,200.00                         | 90.00           | 269.90      | 7,839.00              | -2,269.31    | -1,023.05    | 1,624.32                | 0.00                  | 0.00                 | 0.00                |  |
| 9,300.00                         | 90.00           | 269.90      | 7,839.00              | -2,269.48    | -1,123.05    | 1,720.27                | 0.00                  | 0.00                 | 0.00                |  |
| 9,400.00                         | 90.00           | 269.90      | 7,839.01              | -2,269.65    | -1,223.05    | 1,816.22                | 0.00                  | 0.00                 | 0.00                |  |
| 9,500.00                         | 90.00           | 269.90      | 7,839.01              | -2,269.82    | -1,323.05    | 1,912.16                | 0.00                  | 0.00                 | 0.00                |  |
| 9,600.00                         | 90.00           | 269.90      | 7,839.01              | -2,269.99    | -1,423.05    | 2,008.11                | 0.00                  | 0.00                 | 0.00                |  |
| 9,700.00                         | 90.00           | 269.90      | 7,839.01              | -2,270.16    | -1,523.05    | 2,104.06                | 0.00                  | 0.00                 | 0.00                |  |
| 9,800.00                         | 90.00           | 269.90      | 7,839.01              | -2,270.33    | -1,623.05    | 2,200.00                | 0.00                  | 0.00                 | 0.00                |  |
| 9,900.00                         | 90.00           | 269.90      | 7,839.01              | -2,270.50    | -1,723.05    | 2,295.95                | 0.00                  | 0.00                 | 0.00                |  |
| 10,000.00                        | 90.00           | 269.90      | 7,839.01              | -2,270.67    | -1,823.05    | 2,391.90                | 0.00                  | 0.00                 | 0.00                |  |
| 10,100.00                        | 90.00           | 269.90      | 7,839.01              | -2,270.84    | -1,923.05    | 2,487.85                | 0.00                  | 0.00                 | 0.00                |  |
| 10,200.00                        | 90.00           | 269.90      | 7,839.01              | -2,271.01    | -2,023.05    | 2,583.79                | 0.00                  | 0.00                 | 0.00                |  |
| 10,300.00                        | 90.00           | 269.90      | 7,839.01              | -2,271.18    | -2,123.05    | 2,679.74                | 0.00                  | 0.00                 | 0.00                |  |
| 10,400.00                        | 90.00           | 269.90      | 7,839.01              | -2,271.35    | -2,223.05    | 2,775.69                | 0.00                  | 0.00                 | 0.00                |  |
| 10,500.00                        | 90.00           | 269.90      | 7,839.01              | -2,271.52    | -2,323.05    | 2,871.63                | 0.00                  | 0.00                 | 0.00                |  |
| 10,600.00                        | 90.00           | 269.90      | 7,839.01              | -2,271.69    | -2,423.05    | 2,967.58                | 0.00                  | 0.00                 | 0.00                |  |
| 10,700.00                        | 90.00           | 269.90      | 7,839.01              | -2,271.86    | -2,523.05    | 3,063.53                | 0.00                  | 0.00                 | 0.00                |  |
| 10,800.00                        | 90.00           | 269.90      | 7,839.01              | -2,272.03    | -2,623.05    | 3,159.47                | 0.00                  | 0.00                 | 0.00                |  |
| 10,900.00                        | 90.00           | 269.90      | 7,839.02              | -2,272.20    | -2,723.05    | 3,255.42                | 0.00                  | 0.00                 | 0.00                |  |
| 11,000.00                        | 90.00           | 269.90      | 7,839.02              | -2,272.37    | -2,823.05    | 3,351.37                | 0.00                  | 0.00                 | 0.00                |  |
| 11,100.00                        | 90.00           | 269.90      | 7,839.02              | -2,272.54    | -2,923.05    | 3,447.31                | 0.00                  | 0.00                 | 0.00                |  |
| 11,200.00                        | 90.00           | 269.90      | 7,839.02              | -2,272.71    | -3,023.05    | 3,543.26                | 0.00                  | 0.00                 | 0.00                |  |
| 11,300.00                        | 90.00           | 269.90      | 7,839.02              | -2,272.88    | -3,123.05    | 3,639.21                | 0.00                  | 0.00                 | 0.00                |  |
| 11,400.00                        | 90.00           | 269.90      | 7,839.02              | -2,273.05    | -3,223.05    | 3,735.15                | 0.00                  | 0.00                 | 0.00                |  |
| 11,500.00                        | 90.00           | 269.90      | 7,839.02              | -2,273.22    | -3,323.05    | 3,831.10                | 0.00                  | 0.00                 | 0.00                |  |
| 11,600.00                        | 90.00           | 269.90      | 7,839.02              | -2,273.39    | -3,423.05    | 3,927.05                | 0.00                  | 0.00                 | 0.00                |  |
| 11,700.00                        | 90.00           | 269.90      | 7,839.02              | -2,273.56    | -3,523.05    | 4,022.99                | 0.00                  | 0.00                 | 0.00                |  |
| 11,800.00                        | 90.00           | 269.90      | 7,839.02              | -2,273.73    | -3,623.05    | 4,118.94                | 0.00                  | 0.00                 | 0.00                |  |
| 11,900.00                        | 90.00           | 269.90      | 7,839.02              | -2,273.90    | -3,723.05    | 4,214.89                | 0.00                  | 0.00                 | 0.00                |  |
| 12,000.00                        | 90.00           | 269.90      | 7,839.02              | -2,274.07    | -3,823.05    | 4,310.84                | 0.00                  | 0.00                 | 0.00                |  |
| 12,100.00                        | 90.00           | 269.90      | 7,839.02              | -2,274.24    | -3,923.05    | 4,406.78                | 0.00                  | 0.00                 | 0.00                |  |
| 12,200.00                        | 90.00           | 269.90      | 7,839.02              | -2,274.41    | -4,023.05    | 4,502.73                | 0.00                  | 0.00                 | 0.00                |  |
| 12,300.00                        | 90.00           | 269.90      | 7,839.03              | -2,274.58    | -4,123.05    | 4,598.68                | 0.00                  | 0.00                 | 0.00                |  |
| 12,400.00                        | 90.00           | 269.90      | 7,839.03              | -2,274.75    | -4,223.05    | 4,694.62                | 0.00                  | 0.00                 | 0.00                |  |
| 12,500.00                        | 90.00           | 269.90      | 7,839.03              | -2,274.92    | -4,323.05    | 4,790.57                | 0.00                  | 0.00                 | 0.00                |  |
| 12,600.00                        | 90.00           | 269.90      | 7,839.03              | -2,275.09    | -4,423.05    | 4,886.52                | 0.00                  | 0.00                 | 0.00                |  |
| 12,700.00                        | 90.00           | 269.90      | 7,839.03              | -2,275.26    | -4,523.05    | 4,982.46                | 0.00                  | 0.00                 | 0.00                |  |
| 12,800.00                        | 90.00           | 269.90      | 7,839.03              | -2,275.43    | -4,623.05    | 5,078.41                | 0.00                  | 0.00                 | 0.00                |  |
| 12,900.00                        | 90.00           | 269.90      | 7,839.03              | -2,275.60    | -4,723.04    | 5,174.36                | 0.00                  | 0.00                 | 0.00                |  |

## Planning Report

|                  |                         |                                     |                              |
|------------------|-------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDT_32Bit_ODBC          | <b>Local Co-ordinate Reference:</b> | Well COYOTE TRAILS 33W-15-4N |
| <b>Company:</b>  | EXTRACTION OIL & GAS    | <b>TVD Reference:</b>               | KB 28' @ 5301.00usft         |
| <b>Project:</b>  | WELD COUNTY             | <b>MD Reference:</b>                | KB 28' @ 5301.00usft         |
| <b>Site:</b>     | Sec 28-T1N-R68W         | <b>North Reference:</b>             | True                         |
| <b>Well:</b>     | COYOTE TRAILS 33W-15-4N | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | ORIGINAL WELLBORE       |                                     |                              |
| <b>Design:</b>   | PROPOSAL 1              |                                     |                              |

| Planned Survey        |                 |             |                       |              |              |                         |                       |                      |                     |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 13,000.00             | 90.00           | 269.90      | 7,839.03              | -2,275.77    | -4,823.04    | 5,270.30                | 0.00                  | 0.00                 | 0.00                |
| 13,100.00             | 90.00           | 269.90      | 7,839.03              | -2,275.94    | -4,923.04    | 5,366.25                | 0.00                  | 0.00                 | 0.00                |
| 13,200.00             | 90.00           | 269.90      | 7,839.03              | -2,276.11    | -5,023.04    | 5,462.20                | 0.00                  | 0.00                 | 0.00                |
| 13,300.00             | 90.00           | 269.90      | 7,839.03              | -2,276.28    | -5,123.04    | 5,558.14                | 0.00                  | 0.00                 | 0.00                |
| 13,400.00             | 90.00           | 269.90      | 7,839.03              | -2,276.45    | -5,223.04    | 5,654.09                | 0.00                  | 0.00                 | 0.00                |
| 13,500.00             | 90.00           | 269.90      | 7,839.03              | -2,276.62    | -5,323.04    | 5,750.04                | 0.00                  | 0.00                 | 0.00                |
| 13,600.00             | 90.00           | 269.90      | 7,839.03              | -2,276.79    | -5,423.04    | 5,845.98                | 0.00                  | 0.00                 | 0.00                |
| 13,700.00             | 90.00           | 269.90      | 7,839.03              | -2,276.96    | -5,523.04    | 5,941.93                | 0.00                  | 0.00                 | 0.00                |
| 13,800.00             | 90.00           | 269.90      | 7,839.04              | -2,277.13    | -5,623.04    | 6,037.88                | 0.00                  | 0.00                 | 0.00                |
| 13,900.00             | 90.00           | 269.90      | 7,839.04              | -2,277.30    | -5,723.04    | 6,133.82                | 0.00                  | 0.00                 | 0.00                |
| 14,000.00             | 90.00           | 269.90      | 7,839.04              | -2,277.47    | -5,823.04    | 6,229.77                | 0.00                  | 0.00                 | 0.00                |
| 14,100.00             | 90.00           | 269.90      | 7,839.04              | -2,277.64    | -5,923.04    | 6,325.72                | 0.00                  | 0.00                 | 0.00                |
| 14,200.00             | 90.00           | 269.90      | 7,839.04              | -2,277.81    | -6,023.04    | 6,421.67                | 0.00                  | 0.00                 | 0.00                |
| 14,300.00             | 90.00           | 269.90      | 7,839.04              | -2,277.98    | -6,123.04    | 6,517.61                | 0.00                  | 0.00                 | 0.00                |
| 14,400.00             | 90.00           | 269.90      | 7,839.04              | -2,278.15    | -6,223.04    | 6,613.56                | 0.00                  | 0.00                 | 0.00                |
| 14,500.00             | 90.00           | 269.90      | 7,839.04              | -2,278.32    | -6,323.04    | 6,709.51                | 0.00                  | 0.00                 | 0.00                |
| 14,600.00             | 90.00           | 269.90      | 7,839.04              | -2,278.49    | -6,423.04    | 6,805.45                | 0.00                  | 0.00                 | 0.00                |
| 14,700.00             | 90.00           | 269.90      | 7,839.04              | -2,278.66    | -6,523.04    | 6,901.40                | 0.00                  | 0.00                 | 0.00                |
| 14,800.00             | 90.00           | 269.90      | 7,839.04              | -2,278.83    | -6,623.04    | 6,997.35                | 0.00                  | 0.00                 | 0.00                |
| 14,900.00             | 90.00           | 269.90      | 7,839.04              | -2,279.00    | -6,723.04    | 7,093.29                | 0.00                  | 0.00                 | 0.00                |
| 15,000.00             | 90.00           | 269.90      | 7,839.04              | -2,279.17    | -6,823.04    | 7,189.24                | 0.00                  | 0.00                 | 0.00                |
| 15,100.00             | 90.00           | 269.90      | 7,839.04              | -2,279.34    | -6,923.04    | 7,285.19                | 0.00                  | 0.00                 | 0.00                |
| 15,200.00             | 90.00           | 269.90      | 7,839.04              | -2,279.51    | -7,023.04    | 7,381.13                | 0.00                  | 0.00                 | 0.00                |
| 15,300.00             | 90.00           | 269.90      | 7,839.05              | -2,279.68    | -7,123.04    | 7,477.08                | 0.00                  | 0.00                 | 0.00                |
| 15,400.00             | 90.00           | 269.90      | 7,839.05              | -2,279.85    | -7,223.04    | 7,573.03                | 0.00                  | 0.00                 | 0.00                |
| 15,500.00             | 90.00           | 269.90      | 7,839.05              | -2,280.02    | -7,323.04    | 7,668.97                | 0.00                  | 0.00                 | 0.00                |
| 15,600.00             | 90.00           | 269.90      | 7,839.05              | -2,280.19    | -7,423.04    | 7,764.92                | 0.00                  | 0.00                 | 0.00                |
| 15,700.00             | 90.00           | 269.90      | 7,839.05              | -2,280.36    | -7,523.04    | 7,860.87                | 0.00                  | 0.00                 | 0.00                |
| 15,800.00             | 90.00           | 269.90      | 7,839.05              | -2,280.53    | -7,623.04    | 7,956.81                | 0.00                  | 0.00                 | 0.00                |
| 15,894.12             | 90.00           | 269.90      | 7,839.05              | -2,280.69    | -7,717.16    | 8,047.12                | 0.00                  | 0.00                 | 0.00                |
| TD at 15894.12        |                 |             |                       |              |              |                         |                       |                      |                     |

| Design Targets   |               |              |            |              |              |                 |                |             |              |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-------------|--------------|
| Target Name  | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude    | Longitude    |
| CT 33W-4N PBHL   | 0.00          | 0.00         | 7,839.00   | -2,280.97    | -7,717.16    | 1,247,534.94    | 3,130,196.49   | 40.011933°N | 105.035184°W |
| - plan misses target center by 0.28usft at 15894.12usft MD (7839.05 TVD, -2280.69 N, -7717.16 E) |               |              |            |              |              |                 |                |             |              |
| - Point  |               |              |            |              |              |                 |                |             |              |
| CT 33W-4N LP   | 0.00          | 0.00         | 7,839.00   | -2,268.32    | -443.41      | 1,247,587.98    | 3,137,470.06   | 40.011971°N | 105.009216°W |
| - plan hits target center  |               |              |            |              |              |                 |                |             |              |
| - Point  |               |              |            |              |              |                 |                |             |              |

## Planning Report

|                  |                         |                                     |                              |
|------------------|-------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDT_32Bit_ODBC          | <b>Local Co-ordinate Reference:</b> | Well COYOTE TRAILS 33W-15-4N |
| <b>Company:</b>  | EXTRACTION OIL & GAS    | <b>TVD Reference:</b>               | KB 28' @ 5301.00usft         |
| <b>Project:</b>  | WELD COUNTY             | <b>MD Reference:</b>                | KB 28' @ 5301.00usft         |
| <b>Site:</b>     | Sec 28-T1N-R68W         | <b>North Reference:</b>             | True                         |
| <b>Well:</b>     | COYOTE TRAILS 33W-15-4N | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | ORIGINAL WELLBORE       |                                     |                              |
| <b>Design:</b>   | PROPOSAL 1              |                                     |                              |

| Formations            |                       |                |           |         |                   |  |
|-----------------------|-----------------------|----------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name           | Lithology | Dip (°) | Dip Direction (°) |  |
| 4,698.87              | 4,440.00              | PARKMAN        |           |         |                   |  |
| 5,215.18              | 4,910.00              | SUSSEX         |           |         |                   |  |
| 8,089.27              | 7,610.00              | SHARON SPRINGS |           |         |                   |  |
| 8,141.11              | 7,650.00              | NIOBRARA       |           |         |                   |  |
| 8,399.61              | 7,797.00              | NIO B          |           |         |                   |  |

| Plan Annotations      |                       |                   |              |                                  |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                  |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                          |  |
| 1,000.00              | 1,000.00              | 0.00              | 0.00         | Start Build 2.00                 |  |
| 2,222.58              | 2,185.81              | -256.52           | 14.66        | Start 4245.13 hold at 2222.58 MD |  |
| 6,467.71              | 6,050.19              | -2,010.83         | 114.93       | Start Drop -2.00                 |  |
| 7,690.29              | 7,236.00              | -2,267.35         | 129.59       | Start 30.00 hold at 7690.29 MD   |  |
| 7,720.29              | 7,266.00              | -2,267.35         | 129.59       | Start DLS 10.00 TFO 269.90       |  |
| 8,620.35              | 7,839.00              | -2,268.32         | -443.41      | Start 7273.77 hold at 8620.35 MD |  |
| 15,894.12             | 7,839.05              | -2,280.69         | -7,717.16    | TD at 15894.12                   |  |