

EXTRACTION OIL & GAS

Weld County

Sec 28-T1N-R68W

COYOTE TRAILS 33S-20-6N

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

10 August, 2017



Project: Weld County
Site: Sec 28-T1N-R68W
Well: COYOTE TRAILS 33S-20-6N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL 1

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



Azimuths to True North
Magnetic North: 8.30°

Magnetic Field
Strength: 52160.0snT
Dip Angle: 66.51°
Date: 6/29/2017
Model: IGRF2015

WELL DETAILS: COYOTE TRAILS 33S-20-6N

| | +N/-S | +E/-W | Northing | Easting | 5244.00 | Latitude | Longitude | Slot |
|--|-------|-------|------------|------------|---------|----------------|------------------|------|
| | 0.00 | 0.00 | 1249743.73 | 3138071.88 | | 40° 1' 4.367 N | 105° 0' 25.289 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 | 1100.00 | 0.00 | 0.00 | 1100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 1867.07 | 15.34 | 133.19 | 1857.94 | -69.86 | 74.43 | 2.00 | 133.19 | 76.88 | |
| 4 | 6552.14 | 15.34 | 133.19 | 6376.06 | -918.16 | 978.22 | 0.00 | 0.00 | 1010.33 | |
| 5 | 7319.21 | 0.00 | 0.00 | 7134.00 | -988.02 | 1052.65 | 2.00 | 180.00 | 1087.21 | |
| 6 | 7419.21 | 0.00 | 0.00 | 7234.00 | -988.02 | 1052.65 | 0.00 | 0.00 | 1087.21 | |
| 7 | 8319.29 | 90.00 | 179.66 | 7807.00 | -1561.02 | 1056.09 | 10.00 | 179.66 | 1657.75 | CT 33S-20-6N LP |
| 8 | 17973.82 | 90.00 | 179.66 | 7807.00 | -11215.38 | 1113.83 | 0.00 | 0.00 | 11270.55 | CT 33S-20-6N PBHL |

FORMATION TOP DETAILS

| TVDPATH | MDPATH | FORMATION |
|---------|---------|----------------|
| 4440.00 | 4544.54 | PARKMAN |
| 4910.00 | 5031.91 | SUSSEX |
| 7610.00 | 7829.35 | SHARON SPRINGS |
| 7650.00 | 7884.77 | NIOBRARA |
| 7797.00 | 8212.07 | NIO B |

ANNOTATIONS

| MD | Inc | Azi | TVD | +N/-S | +E/-W | VSec | Departure | Annotation |
|----------|-------|--------|---------|-----------|---------|----------|-----------|--------------------------------|
| 1100.00 | 0.00 | 0.00 | 1100.00 | 0.00 | 0.00 | 0.00 | 0.00 | BUILD 2°/100' |
| 1867.07 | 15.34 | 133.19 | 1857.94 | -69.86 | 74.43 | 76.88 | 102.08 | HOLD 15.34° INC |
| 6552.14 | 15.34 | 133.19 | 6376.06 | -918.16 | 978.22 | 1010.33 | 1341.61 | DROP 2°/100' |
| 7319.21 | 0.00 | 0.00 | 7134.00 | -988.02 | 1052.65 | 1087.21 | 1443.70 | HOLD VERTICAL |
| 7419.21 | 0.00 | 0.00 | 7234.00 | -988.02 | 1052.65 | 1087.21 | 1443.70 | KOP, BUILD 10°/100' |
| 8319.29 | 90.00 | 179.66 | 7807.00 | -1561.02 | 1056.09 | 1657.75 | 2016.71 | LP @ 90° INC, 179.66° AZM HOLD |
| 17973.82 | 90.00 | 179.66 | 7806.77 | -11215.37 | 1113.98 | 11270.56 | 11671.23 | TD at 17973.82' MD |

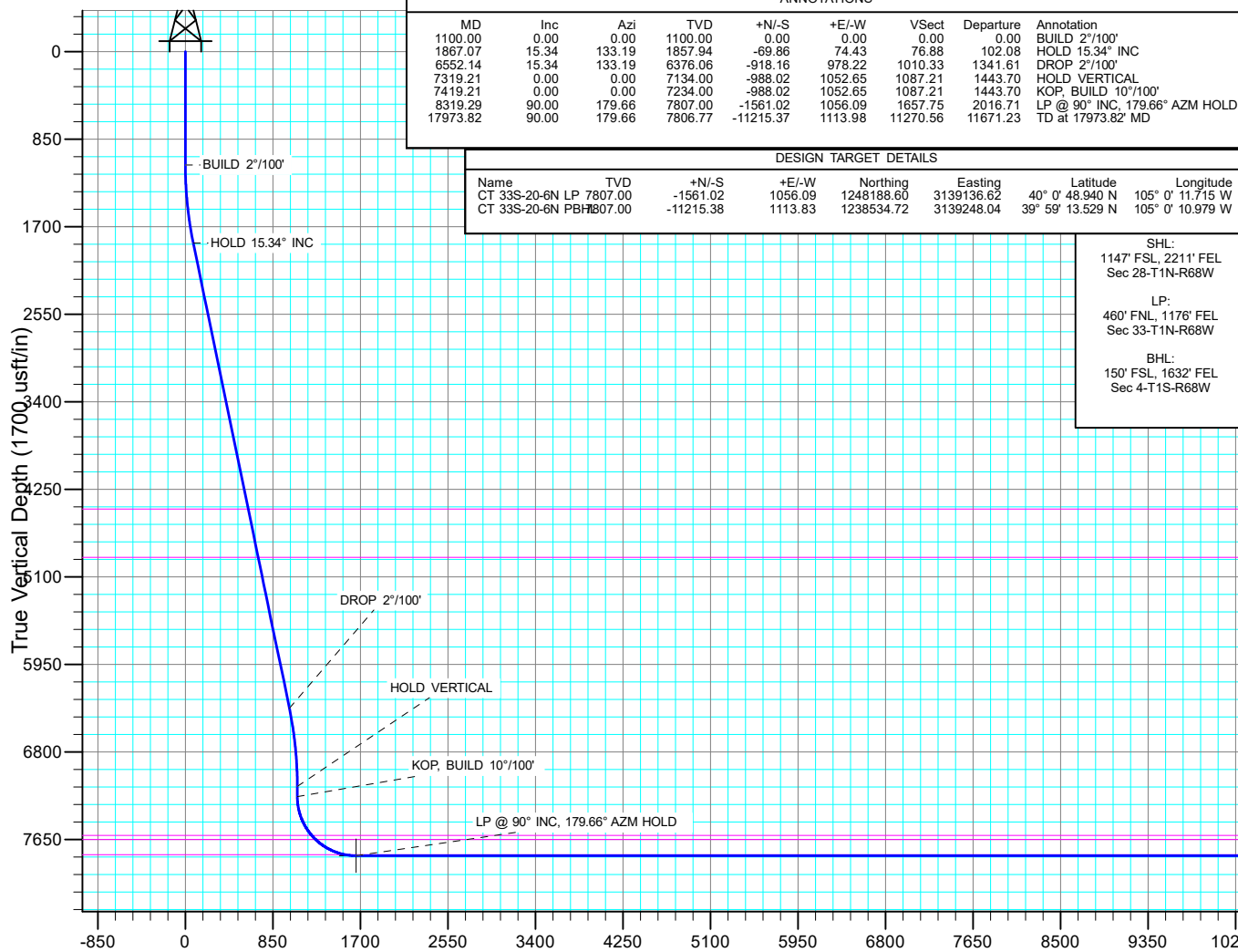
DESIGN TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | North | Easting | Latitude | Longitude |
|-------------------|---------|-----------|---------|------------|------------|------------------|------------------|
| CT 33S-20-6N LP | 7807.00 | -1561.02 | 1056.09 | 1248188.60 | 3139136.62 | 40° 0' 48.940 N | 105° 0' 11.715 W |
| CT 33S-20-6N PBHL | 7807.00 | -11215.38 | 1113.83 | 1238534.72 | 3139248.04 | 39° 59' 13.529 N | 105° 0' 10.979 W |

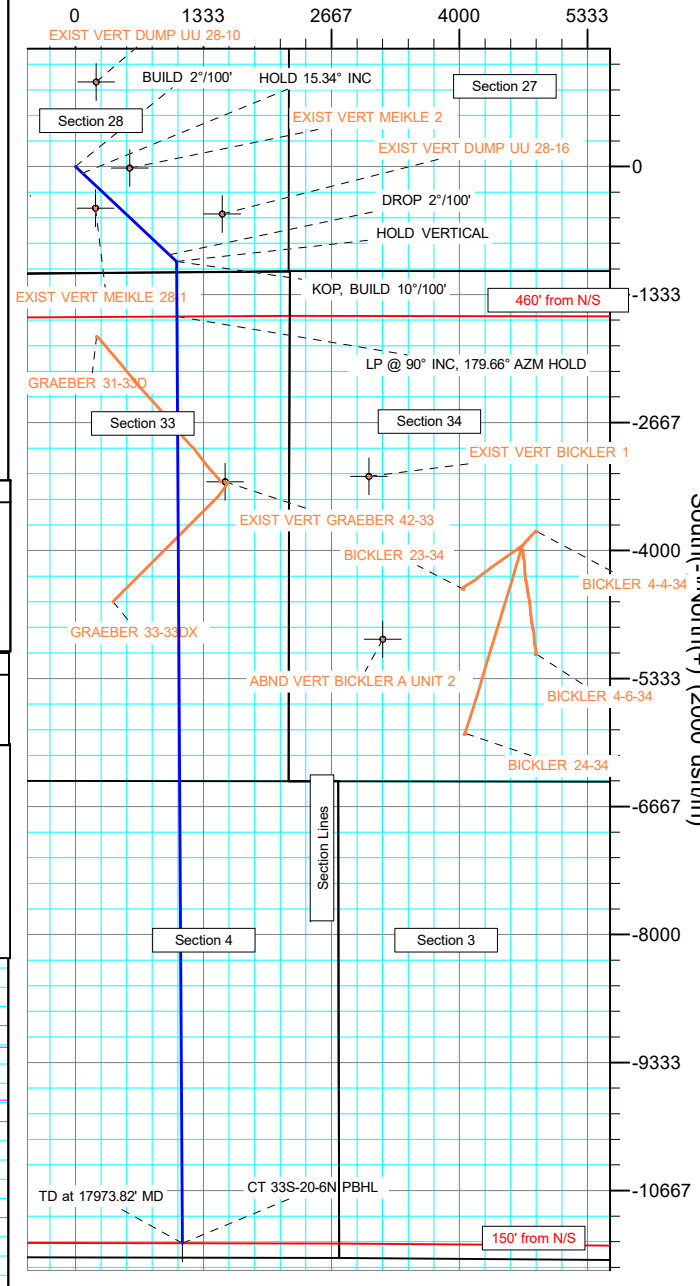
SHL:
1147' FSL, 2211' FEL
Sec 28-T1N-R68W

LP:
460' FNL, 1176' FEL
Sec 33-T1N-R68W

BHL:
150' FSL, 1632' FEL
Sec 4-T1S-R68W



West(-)/East(+) (2000 usft/in)



South(-)/North(+) (2000 usft/in)

Vertical Section at 174.33° (1700 usft/in)

Planning Report

| | | | |
|------------------|-------------------------|-------------------------------------|------------------------------|
| Database: | EDT_32Bit_ODBC | Local Co-ordinate Reference: | Well COYOTE TRAILS 33S-20-6N |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 25' @ 5269.00usft |
| Project: | Weld County | MD Reference: | KB 25' @ 5269.00usft |
| Site: | Sec 28-T1N-R68W | North Reference: | True |
| Well: | COYOTE TRAILS 33S-20-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL 1 | | |

| | | | |
|-------------|---------------------------|---------------|----------------|
| Project | Weld County | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|-----------------------|-----------|-----------------|-------------------|-------------------|-------------------|
| Site | | Sec 28-T1N-R68W | | | |
| Site Position: | | Northing: | 1,248,660.21 usft | Latitude: | 40° 0' 53.536 N |
| From: | Lat/Long | Easting: | 3,140,299.83 usft | Longitude: | 104° 59' 56.731 W |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13.200 in | Grid Convergence: | 0.32 ° |

| Well | COYOTE TRAILS 33S-20-6N | | | | | |
|----------------------|-------------------------|----------------|---------------------|-------------------|---------------|------------------|
| Well Position | +N/-S | 1,096.08 usft | Northing: | 1,249,743.73 usft | Latitude: | 40° 1' 4.367 N |
| | +E/-W | -2,221.80 usft | Easting: | 3,138,071.88 usft | Longitude: | 105° 0' 25.289 W |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | | Ground Level: | 5,244.00 usft |

| | | | | | |
|-----------|-------------------|-------------|-----------------|---------------|---------------------|
| Wellbore | ORIGINAL WELLBORE | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 6/29/2017 | 8.30 | 66.51 | 52,159.95000888 |

| | | | | |
|-------------------|----------------------------|-----------------|-----------------|------------------|
| Design | PROPOSAL 1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 174.33 |

| Plan Survey Tool Program | | | Date | 8/10/2017 | |
|--------------------------|--------------------|-------------------|---------------------------|-----------|--|
| Depth From (usft) | Depth To (usft) | Survey (Wellbore) | Tool Name | Remarks | |
| 1 | 0.00 | 17,973.79 | PROPOSAL 1 (ORIGINAL WELL | MWD OWSG | |
| | | | OWSG MWD - Standard | | |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | 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 | |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,867.07 | 15.34 | 133.19 | 1,857.94 | -69.86 | 74.43 | 2.00 | 2.00 | 0.00 | 133.19 | |
| 6,552.14 | 15.34 | 133.19 | 6,376.06 | -918.16 | 978.22 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,319.21 | 0.00 | 0.00 | 7,134.00 | -988.02 | 1,052.65 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 7,419.21 | 0.00 | 0.00 | 7,234.00 | -988.02 | 1,052.65 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,319.29 | 90.00 | 179.66 | 7,807.00 | -1,561.02 | 1,056.09 | 10.00 | 10.00 | 19.96 | 179.66 | CT 33S-20-6N LP |
| 17,973.82 | 90.00 | 179.66 | 7,807.00 | -11,215.38 | 1,113.83 | 0.00 | 0.00 | 0.00 | 0.00 | CT 33S-20-6N PBHL |

Planning Report

| | | | |
|------------------|-------------------------|-------------------------------------|------------------------------|
| Database: | EDT_32Bit_ODBC | Local Co-ordinate Reference: | Well COYOTE TRAILS 33S-20-6N |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 25' @ 5269.00usft |
| Project: | Weld County | MD Reference: | KB 25' @ 5269.00usft |
| Site: | Sec 28-T1N-R68W | North Reference: | True |
| Well: | COYOTE TRAILS 33S-20-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | 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 |
| 1,100.00 | 0.00 | 0.00 | 1,100.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| BUILD 2°/100' | | | | | | | | | |
| 1,200.00 | 2.00 | 133.19 | 1,199.98 | -1.19 | 1.27 | 1.31 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 4.00 | 133.19 | 1,299.84 | -4.78 | 5.09 | 5.26 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 6.00 | 133.19 | 1,399.45 | -10.74 | 11.44 | 11.82 | 2.00 | 2.00 | 0.00 |
| 1,500.00 | 8.00 | 133.19 | 1,498.70 | -19.08 | 20.33 | 21.00 | 2.00 | 2.00 | 0.00 |
| 1,600.00 | 10.00 | 133.19 | 1,597.47 | -29.79 | 31.73 | 32.78 | 2.00 | 2.00 | 0.00 |
| 1,700.00 | 12.00 | 133.19 | 1,695.62 | -42.84 | 45.65 | 47.14 | 2.00 | 2.00 | 0.00 |
| 1,800.00 | 14.00 | 133.19 | 1,793.06 | -58.24 | 62.05 | 64.08 | 2.00 | 2.00 | 0.00 |
| 1,867.07 | 15.34 | 133.19 | 1,857.94 | -69.86 | 74.43 | 76.88 | 2.00 | 2.00 | 0.00 |
| HOLD 15.34° INC | | | | | | | | | |
| 1,900.00 | 15.34 | 133.19 | 1,889.69 | -75.82 | 80.78 | 83.44 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 15.34 | 133.19 | 1,986.13 | -93.93 | 100.08 | 103.36 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 15.34 | 133.19 | 2,082.57 | -112.04 | 119.37 | 123.28 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 15.34 | 133.19 | 2,179.00 | -130.14 | 138.66 | 143.21 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 15.34 | 133.19 | 2,275.44 | -148.25 | 157.95 | 163.13 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 15.34 | 133.19 | 2,371.88 | -166.36 | 177.24 | 183.06 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 15.34 | 133.19 | 2,468.31 | -184.46 | 196.53 | 202.98 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 15.34 | 133.19 | 2,564.75 | -202.57 | 215.82 | 222.90 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 15.34 | 133.19 | 2,661.19 | -220.68 | 235.11 | 242.83 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 15.34 | 133.19 | 2,757.62 | -238.78 | 254.40 | 262.75 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 15.34 | 133.19 | 2,854.06 | -256.89 | 273.69 | 282.68 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 15.34 | 133.19 | 2,950.50 | -274.99 | 292.98 | 302.60 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 15.34 | 133.19 | 3,046.93 | -293.10 | 312.27 | 322.53 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 15.34 | 133.19 | 3,143.37 | -311.21 | 331.56 | 342.45 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 15.34 | 133.19 | 3,239.81 | -329.31 | 350.86 | 362.37 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 15.34 | 133.19 | 3,336.24 | -347.42 | 370.15 | 382.30 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 15.34 | 133.19 | 3,432.68 | -365.53 | 389.44 | 402.22 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 15.34 | 133.19 | 3,529.12 | -383.63 | 408.73 | 422.15 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 15.34 | 133.19 | 3,625.55 | -401.74 | 428.02 | 442.07 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 15.34 | 133.19 | 3,721.99 | -419.85 | 447.31 | 461.99 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 15.34 | 133.19 | 3,818.43 | -437.95 | 466.60 | 481.92 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 15.34 | 133.19 | 3,914.86 | -456.06 | 485.89 | 501.84 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 15.34 | 133.19 | 4,011.30 | -474.16 | 505.18 | 521.77 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 15.34 | 133.19 | 4,107.74 | -492.27 | 524.47 | 541.69 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 15.34 | 133.19 | 4,204.17 | -510.38 | 543.76 | 561.61 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 15.34 | 133.19 | 4,300.61 | -528.48 | 563.05 | 581.54 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 15.34 | 133.19 | 4,397.05 | -546.59 | 582.34 | 601.46 | 0.00 | 0.00 | 0.00 |
| 4,544.54 | 15.34 | 133.19 | 4,440.00 | -554.65 | 590.94 | 610.34 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | |
| 4,600.00 | 15.34 | 133.19 | 4,493.48 | -564.70 | 601.63 | 621.39 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 15.34 | 133.19 | 4,589.92 | -582.80 | 620.93 | 641.31 | 0.00 | 0.00 | 0.00 |

Planning Report

| | | | |
|------------------|-------------------------|-------------------------------------|------------------------------|
| Database: | EDT_32Bit_ODBC | Local Co-ordinate Reference: | Well COYOTE TRAILS 33S-20-6N |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 25' @ 5269.00usft |
| Project: | Weld County | MD Reference: | KB 25' @ 5269.00usft |
| Site: | Sec 28-T1N-R68W | North Reference: | True |
| Well: | COYOTE TRAILS 33S-20-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | 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 | 15.34 | 133.19 | 4,686.36 | -600.91 | 640.22 | 661.23 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 15.34 | 133.19 | 4,782.79 | -619.02 | 659.51 | 681.16 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 15.34 | 133.19 | 4,879.23 | -637.12 | 678.80 | 701.08 | 0.00 | 0.00 | 0.00 |
| 5,031.91 | 15.34 | 133.19 | 4,910.00 | -642.90 | 684.95 | 707.44 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | |
| 5,100.00 | 15.34 | 133.19 | 4,975.67 | -655.23 | 698.09 | 721.01 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 15.34 | 133.19 | 5,072.10 | -673.33 | 717.38 | 740.93 | 0.00 | 0.00 | 0.00 |
| 5,300.00 | 15.34 | 133.19 | 5,168.54 | -691.44 | 736.67 | 760.85 | 0.00 | 0.00 | 0.00 |
| 5,400.00 | 15.34 | 133.19 | 5,264.98 | -709.55 | 755.96 | 780.78 | 0.00 | 0.00 | 0.00 |
| 5,500.00 | 15.34 | 133.19 | 5,361.41 | -727.65 | 775.25 | 800.70 | 0.00 | 0.00 | 0.00 |
| 5,600.00 | 15.34 | 133.19 | 5,457.85 | -745.76 | 794.54 | 820.63 | 0.00 | 0.00 | 0.00 |
| 5,700.00 | 15.34 | 133.19 | 5,554.29 | -763.87 | 813.83 | 840.55 | 0.00 | 0.00 | 0.00 |
| 5,800.00 | 15.34 | 133.19 | 5,650.72 | -781.97 | 833.12 | 860.47 | 0.00 | 0.00 | 0.00 |
| 5,900.00 | 15.34 | 133.19 | 5,747.16 | -800.08 | 852.41 | 880.40 | 0.00 | 0.00 | 0.00 |
| 6,000.00 | 15.34 | 133.19 | 5,843.60 | -818.19 | 871.71 | 900.32 | 0.00 | 0.00 | 0.00 |
| 6,100.00 | 15.34 | 133.19 | 5,940.03 | -836.29 | 891.00 | 920.25 | 0.00 | 0.00 | 0.00 |
| 6,200.00 | 15.34 | 133.19 | 6,036.47 | -854.40 | 910.29 | 940.17 | 0.00 | 0.00 | 0.00 |
| 6,300.00 | 15.34 | 133.19 | 6,132.91 | -872.50 | 929.58 | 960.09 | 0.00 | 0.00 | 0.00 |
| 6,400.00 | 15.34 | 133.19 | 6,229.34 | -890.61 | 948.87 | 980.02 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 15.34 | 133.19 | 6,325.78 | -908.72 | 968.16 | 999.94 | 0.00 | 0.00 | 0.00 |
| 6,552.14 | 15.34 | 133.19 | 6,376.06 | -918.16 | 978.22 | 1,010.33 | 0.00 | 0.00 | 0.00 |
| DROP 2°/100' | | | | | | | | | |
| 6,600.00 | 14.38 | 133.19 | 6,422.32 | -926.56 | 987.17 | 1,019.58 | 2.00 | -2.00 | 0.00 |
| 6,700.00 | 12.38 | 133.19 | 6,519.60 | -942.40 | 1,004.05 | 1,037.01 | 2.00 | -2.00 | 0.00 |
| 6,800.00 | 10.38 | 133.19 | 6,617.63 | -955.91 | 1,018.44 | 1,051.87 | 2.00 | -2.00 | 0.00 |
| 6,900.00 | 8.38 | 133.19 | 6,716.28 | -967.07 | 1,030.33 | 1,064.15 | 2.00 | -2.00 | 0.00 |
| 7,000.00 | 6.38 | 133.19 | 6,815.45 | -975.86 | 1,039.70 | 1,073.83 | 2.00 | -2.00 | 0.00 |
| 7,100.00 | 4.38 | 133.19 | 6,915.00 | -982.28 | 1,046.54 | 1,080.89 | 2.00 | -2.00 | 0.00 |
| 7,200.00 | 2.38 | 133.19 | 7,014.82 | -986.32 | 1,050.84 | 1,085.34 | 2.00 | -2.00 | 0.00 |
| 7,300.00 | 0.38 | 133.19 | 7,114.79 | -987.98 | 1,052.60 | 1,087.16 | 2.00 | -2.00 | 0.00 |
| 7,319.21 | 0.00 | 0.00 | 7,134.00 | -988.02 | 1,052.65 | 1,087.21 | 2.00 | -2.00 | 0.00 |
| HOLD VERTICAL | | | | | | | | | |
| 7,400.00 | 0.00 | 0.00 | 7,214.79 | -988.02 | 1,052.65 | 1,087.21 | 0.00 | 0.00 | 0.00 |
| 7,419.21 | 0.00 | 0.00 | 7,234.00 | -988.02 | 1,052.65 | 1,087.21 | 0.00 | 0.00 | 0.00 |
| KOP, BUILD 10°/100' | | | | | | | | | |
| 7,450.00 | 3.08 | 179.66 | 7,264.77 | -988.85 | 1,052.65 | 1,088.03 | 10.00 | 10.00 | 0.00 |
| 7,500.00 | 8.08 | 179.66 | 7,314.52 | -993.71 | 1,052.68 | 1,092.87 | 10.00 | 10.00 | 0.00 |
| 7,550.00 | 13.08 | 179.66 | 7,363.66 | -1,002.88 | 1,052.74 | 1,102.00 | 10.00 | 10.00 | 0.00 |
| 7,600.00 | 18.08 | 179.66 | 7,411.80 | -1,016.30 | 1,052.82 | 1,115.37 | 10.00 | 10.00 | 0.00 |
| 7,650.00 | 23.08 | 179.66 | 7,458.60 | -1,033.87 | 1,052.92 | 1,132.86 | 10.00 | 10.00 | 0.00 |
| 7,700.00 | 28.08 | 179.66 | 7,503.68 | -1,055.45 | 1,053.05 | 1,154.35 | 10.00 | 10.00 | 0.00 |
| 7,750.00 | 33.08 | 179.66 | 7,546.72 | -1,080.88 | 1,053.21 | 1,179.66 | 10.00 | 10.00 | 0.00 |
| 7,800.00 | 38.08 | 179.66 | 7,587.37 | -1,109.96 | 1,053.38 | 1,208.62 | 10.00 | 10.00 | 0.00 |
| 7,829.35 | 41.01 | 179.66 | 7,610.00 | -1,128.64 | 1,053.49 | 1,227.22 | 10.00 | 10.00 | 0.00 |
| SHARON SPRINGS | | | | | | | | | |
| 7,850.00 | 43.08 | 179.66 | 7,625.34 | -1,142.47 | 1,053.58 | 1,240.99 | 10.00 | 10.00 | 0.00 |
| 7,884.77 | 46.55 | 179.66 | 7,650.00 | -1,166.97 | 1,053.72 | 1,265.39 | 10.00 | 10.00 | 0.00 |
| NIOBRARA | | | | | | | | | |
| 7,900.00 | 48.08 | 179.66 | 7,660.33 | -1,178.16 | 1,053.79 | 1,276.53 | 10.00 | 10.00 | 0.00 |
| 7,950.00 | 53.07 | 179.66 | 7,692.07 | -1,216.77 | 1,054.02 | 1,314.98 | 10.00 | 10.00 | 0.00 |
| 8,000.00 | 58.07 | 179.66 | 7,720.33 | -1,258.00 | 1,054.27 | 1,356.03 | 10.00 | 10.00 | 0.00 |
| 8,050.00 | 63.07 | 179.66 | 7,744.88 | -1,301.54 | 1,054.53 | 1,399.38 | 10.00 | 10.00 | 0.00 |
| 8,100.00 | 68.07 | 179.66 | 7,765.55 | -1,347.05 | 1,054.80 | 1,444.69 | 10.00 | 10.00 | 0.00 |

Planning Report

| | | | |
|------------------|-------------------------|-------------------------------------|------------------------------|
| Database: | EDT_32Bit_ODBC | Local Co-ordinate Reference: | Well COYOTE TRAILS 33S-20-6N |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 25' @ 5269.00usft |
| Project: | Weld County | MD Reference: | KB 25' @ 5269.00usft |
| Site: | Sec 28-T1N-R68W | North Reference: | True |
| Well: | COYOTE TRAILS 33S-20-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | 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) | |
| 8,150.00 | 73.07 | 179.66 | 7,782.18 | -1,394.19 | 1,055.09 | 1,491.63 | 10.00 | 10.00 | 0.00 | |
| 8,200.00 | 78.07 | 179.66 | 7,794.63 | -1,442.59 | 1,055.38 | 1,539.83 | 10.00 | 10.00 | 0.00 | |
| 8,212.07 | 79.28 | 179.66 | 7,797.00 | -1,454.43 | 1,055.45 | 1,551.61 | 10.00 | 10.00 | 0.00 | |
| NIO B | | | | | | | | | | |
| 8,250.00 | 83.07 | 179.66 | 7,802.82 | -1,491.90 | 1,055.67 | 1,588.92 | 10.00 | 10.00 | 0.00 | |
| 8,300.00 | 88.07 | 179.66 | 7,806.68 | -1,541.74 | 1,055.97 | 1,638.54 | 10.00 | 10.00 | 0.00 | |
| 8,319.29 | 90.00 | 179.66 | 7,807.00 | -1,561.02 | 1,056.09 | 1,657.75 | 10.00 | 10.00 | 0.00 | |
| LP @ 90° INC, 179.66° AZM HOLD | | | | | | | | | | |
| 8,400.00 | 90.00 | 179.66 | 7,807.00 | -1,641.73 | 1,056.57 | 1,738.11 | 0.00 | 0.00 | 0.00 | |
| 8,500.00 | 90.00 | 179.66 | 7,807.00 | -1,741.73 | 1,057.17 | 1,837.67 | 0.00 | 0.00 | 0.00 | |
| 8,600.00 | 90.00 | 179.66 | 7,806.99 | -1,841.73 | 1,057.77 | 1,937.24 | 0.00 | 0.00 | 0.00 | |
| 8,700.00 | 90.00 | 179.66 | 7,806.99 | -1,941.72 | 1,058.37 | 2,036.81 | 0.00 | 0.00 | 0.00 | |
| 8,800.00 | 90.00 | 179.66 | 7,806.99 | -2,041.72 | 1,058.97 | 2,136.38 | 0.00 | 0.00 | 0.00 | |
| 8,900.00 | 90.00 | 179.66 | 7,806.99 | -2,141.72 | 1,059.57 | 2,235.95 | 0.00 | 0.00 | 0.00 | |
| 9,000.00 | 90.00 | 179.66 | 7,806.98 | -2,241.72 | 1,060.17 | 2,335.51 | 0.00 | 0.00 | 0.00 | |
| 9,100.00 | 90.00 | 179.66 | 7,806.98 | -2,341.72 | 1,060.77 | 2,435.08 | 0.00 | 0.00 | 0.00 | |
| 9,200.00 | 90.00 | 179.66 | 7,806.98 | -2,441.72 | 1,061.37 | 2,534.65 | 0.00 | 0.00 | 0.00 | |
| 9,300.00 | 90.00 | 179.66 | 7,806.98 | -2,541.71 | 1,061.97 | 2,634.22 | 0.00 | 0.00 | 0.00 | |
| 9,400.00 | 90.00 | 179.66 | 7,806.97 | -2,641.71 | 1,062.57 | 2,733.79 | 0.00 | 0.00 | 0.00 | |
| 9,500.00 | 90.00 | 179.66 | 7,806.97 | -2,741.71 | 1,063.17 | 2,833.35 | 0.00 | 0.00 | 0.00 | |
| 9,600.00 | 90.00 | 179.66 | 7,806.97 | -2,841.71 | 1,063.77 | 2,932.92 | 0.00 | 0.00 | 0.00 | |
| 9,700.00 | 90.00 | 179.66 | 7,806.97 | -2,941.71 | 1,064.37 | 3,032.49 | 0.00 | 0.00 | 0.00 | |
| 9,800.00 | 90.00 | 179.66 | 7,806.96 | -3,041.71 | 1,064.97 | 3,132.06 | 0.00 | 0.00 | 0.00 | |
| 9,900.00 | 90.00 | 179.66 | 7,806.96 | -3,141.70 | 1,065.57 | 3,231.63 | 0.00 | 0.00 | 0.00 | |
| 10,000.00 | 90.00 | 179.66 | 7,806.96 | -3,241.70 | 1,066.16 | 3,331.19 | 0.00 | 0.00 | 0.00 | |
| 10,100.00 | 90.00 | 179.66 | 7,806.96 | -3,341.70 | 1,066.76 | 3,430.76 | 0.00 | 0.00 | 0.00 | |
| 10,200.00 | 90.00 | 179.66 | 7,806.95 | -3,441.70 | 1,067.36 | 3,530.33 | 0.00 | 0.00 | 0.00 | |
| 10,300.00 | 90.00 | 179.66 | 7,806.95 | -3,541.70 | 1,067.96 | 3,629.90 | 0.00 | 0.00 | 0.00 | |
| 10,400.00 | 90.00 | 179.66 | 7,806.95 | -3,641.69 | 1,068.56 | 3,729.47 | 0.00 | 0.00 | 0.00 | |
| 10,500.00 | 90.00 | 179.66 | 7,806.95 | -3,741.69 | 1,069.16 | 3,829.03 | 0.00 | 0.00 | 0.00 | |
| 10,600.00 | 90.00 | 179.66 | 7,806.95 | -3,841.69 | 1,069.76 | 3,928.60 | 0.00 | 0.00 | 0.00 | |
| 10,700.00 | 90.00 | 179.66 | 7,806.94 | -3,941.69 | 1,070.36 | 4,028.17 | 0.00 | 0.00 | 0.00 | |
| 10,800.00 | 90.00 | 179.66 | 7,806.94 | -4,041.69 | 1,070.96 | 4,127.74 | 0.00 | 0.00 | 0.00 | |
| 10,900.00 | 90.00 | 179.66 | 7,806.94 | -4,141.69 | 1,071.56 | 4,227.31 | 0.00 | 0.00 | 0.00 | |
| 11,000.00 | 90.00 | 179.66 | 7,806.94 | -4,241.68 | 1,072.16 | 4,326.87 | 0.00 | 0.00 | 0.00 | |
| 11,100.00 | 90.00 | 179.66 | 7,806.93 | -4,341.68 | 1,072.76 | 4,426.44 | 0.00 | 0.00 | 0.00 | |
| 11,200.00 | 90.00 | 179.66 | 7,806.93 | -4,441.68 | 1,073.36 | 4,526.01 | 0.00 | 0.00 | 0.00 | |
| 11,300.00 | 90.00 | 179.66 | 7,806.93 | -4,541.68 | 1,073.96 | 4,625.58 | 0.00 | 0.00 | 0.00 | |
| 11,400.00 | 90.00 | 179.66 | 7,806.93 | -4,641.68 | 1,074.56 | 4,725.15 | 0.00 | 0.00 | 0.00 | |
| 11,500.00 | 90.00 | 179.66 | 7,806.92 | -4,741.67 | 1,075.16 | 4,824.71 | 0.00 | 0.00 | 0.00 | |
| 11,600.00 | 90.00 | 179.66 | 7,806.92 | -4,841.67 | 1,075.76 | 4,924.28 | 0.00 | 0.00 | 0.00 | |
| 11,700.00 | 90.00 | 179.66 | 7,806.92 | -4,941.67 | 1,076.36 | 5,023.85 | 0.00 | 0.00 | 0.00 | |
| 11,800.00 | 90.00 | 179.66 | 7,806.92 | -5,041.67 | 1,076.96 | 5,123.42 | 0.00 | 0.00 | 0.00 | |
| 11,900.00 | 90.00 | 179.66 | 7,806.91 | -5,141.67 | 1,077.56 | 5,222.99 | 0.00 | 0.00 | 0.00 | |
| 12,000.00 | 90.00 | 179.66 | 7,806.91 | -5,241.67 | 1,078.16 | 5,322.55 | 0.00 | 0.00 | 0.00 | |
| 12,100.00 | 90.00 | 179.66 | 7,806.91 | -5,341.66 | 1,078.76 | 5,422.12 | 0.00 | 0.00 | 0.00 | |
| 12,200.00 | 90.00 | 179.66 | 7,806.91 | -5,441.66 | 1,079.36 | 5,521.69 | 0.00 | 0.00 | 0.00 | |
| 12,300.00 | 90.00 | 179.66 | 7,806.90 | -5,541.66 | 1,079.96 | 5,621.26 | 0.00 | 0.00 | 0.00 | |
| 12,400.00 | 90.00 | 179.66 | 7,806.90 | -5,641.66 | 1,080.56 | 5,720.83 | 0.00 | 0.00 | 0.00 | |
| 12,500.00 | 90.00 | 179.66 | 7,806.90 | -5,741.66 | 1,081.16 | 5,820.39 | 0.00 | 0.00 | 0.00 | |
| 12,600.00 | 90.00 | 179.66 | 7,806.90 | -5,841.65 | 1,081.76 | 5,919.96 | 0.00 | 0.00 | 0.00 | |
| 12,700.00 | 90.00 | 179.66 | 7,806.89 | -5,941.65 | 1,082.36 | 6,019.53 | 0.00 | 0.00 | 0.00 | |
| 12,800.00 | 90.00 | 179.66 | 7,806.89 | -6,041.65 | 1,082.96 | 6,119.10 | 0.00 | 0.00 | 0.00 | |
| 12,900.00 | 90.00 | 179.66 | 7,806.89 | -6,141.65 | 1,083.55 | 6,218.67 | 0.00 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-------------------------|-------------------------------------|------------------------------|
| Database: | EDT_32Bit_ODBC | Local Co-ordinate Reference: | Well COYOTE TRAILS 33S-20-6N |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 25' @ 5269.00usft |
| Project: | Weld County | MD Reference: | KB 25' @ 5269.00usft |
| Site: | Sec 28-T1N-R68W | North Reference: | True |
| Well: | COYOTE TRAILS 33S-20-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | 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 | 179.66 | 7,806.89 | -6,241.65 | 1,084.15 | 6,318.23 | 0.00 | 0.00 | 0.00 | |
| 13,100.00 | 90.00 | 179.66 | 7,806.88 | -6,341.65 | 1,084.75 | 6,417.80 | 0.00 | 0.00 | 0.00 | |
| 13,200.00 | 90.00 | 179.66 | 7,806.88 | -6,441.64 | 1,085.35 | 6,517.37 | 0.00 | 0.00 | 0.00 | |
| 13,300.00 | 90.00 | 179.66 | 7,806.88 | -6,541.64 | 1,085.95 | 6,616.94 | 0.00 | 0.00 | 0.00 | |
| 13,400.00 | 90.00 | 179.66 | 7,806.88 | -6,641.64 | 1,086.55 | 6,716.51 | 0.00 | 0.00 | 0.00 | |
| 13,500.00 | 90.00 | 179.66 | 7,806.88 | -6,741.64 | 1,087.15 | 6,816.07 | 0.00 | 0.00 | 0.00 | |
| 13,600.00 | 90.00 | 179.66 | 7,806.87 | -6,841.64 | 1,087.75 | 6,915.64 | 0.00 | 0.00 | 0.00 | |
| 13,700.00 | 90.00 | 179.66 | 7,806.87 | -6,941.64 | 1,088.35 | 7,015.21 | 0.00 | 0.00 | 0.00 | |
| 13,800.00 | 90.00 | 179.66 | 7,806.87 | -7,041.63 | 1,088.95 | 7,114.78 | 0.00 | 0.00 | 0.00 | |
| 13,900.00 | 90.00 | 179.66 | 7,806.87 | -7,141.63 | 1,089.55 | 7,214.35 | 0.00 | 0.00 | 0.00 | |
| 14,000.00 | 90.00 | 179.66 | 7,806.86 | -7,241.63 | 1,090.15 | 7,313.91 | 0.00 | 0.00 | 0.00 | |
| 14,100.00 | 90.00 | 179.66 | 7,806.86 | -7,341.63 | 1,090.75 | 7,413.48 | 0.00 | 0.00 | 0.00 | |
| 14,200.00 | 90.00 | 179.66 | 7,806.86 | -7,441.63 | 1,091.35 | 7,513.05 | 0.00 | 0.00 | 0.00 | |
| 14,300.00 | 90.00 | 179.66 | 7,806.86 | -7,541.62 | 1,091.95 | 7,612.62 | 0.00 | 0.00 | 0.00 | |
| 14,400.00 | 90.00 | 179.66 | 7,806.85 | -7,641.62 | 1,092.55 | 7,712.19 | 0.00 | 0.00 | 0.00 | |
| 14,500.00 | 90.00 | 179.66 | 7,806.85 | -7,741.62 | 1,093.15 | 7,811.75 | 0.00 | 0.00 | 0.00 | |
| 14,600.00 | 90.00 | 179.66 | 7,806.85 | -7,841.62 | 1,093.75 | 7,911.32 | 0.00 | 0.00 | 0.00 | |
| 14,700.00 | 90.00 | 179.66 | 7,806.85 | -7,941.62 | 1,094.35 | 8,010.89 | 0.00 | 0.00 | 0.00 | |
| 14,800.00 | 90.00 | 179.66 | 7,806.84 | -8,041.62 | 1,094.95 | 8,110.46 | 0.00 | 0.00 | 0.00 | |
| 14,900.00 | 90.00 | 179.66 | 7,806.84 | -8,141.61 | 1,095.55 | 8,210.03 | 0.00 | 0.00 | 0.00 | |
| 15,000.00 | 90.00 | 179.66 | 7,806.84 | -8,241.61 | 1,096.15 | 8,309.59 | 0.00 | 0.00 | 0.00 | |
| 15,100.00 | 90.00 | 179.66 | 7,806.84 | -8,341.61 | 1,096.75 | 8,409.16 | 0.00 | 0.00 | 0.00 | |
| 15,200.00 | 90.00 | 179.66 | 7,806.83 | -8,441.61 | 1,097.35 | 8,508.73 | 0.00 | 0.00 | 0.00 | |
| 15,300.00 | 90.00 | 179.66 | 7,806.83 | -8,541.61 | 1,097.95 | 8,608.30 | 0.00 | 0.00 | 0.00 | |
| 15,400.00 | 90.00 | 179.66 | 7,806.83 | -8,641.60 | 1,098.55 | 8,707.87 | 0.00 | 0.00 | 0.00 | |
| 15,500.00 | 90.00 | 179.66 | 7,806.83 | -8,741.60 | 1,099.15 | 8,807.43 | 0.00 | 0.00 | 0.00 | |
| 15,600.00 | 90.00 | 179.66 | 7,806.82 | -8,841.60 | 1,099.75 | 8,907.00 | 0.00 | 0.00 | 0.00 | |
| 15,700.00 | 90.00 | 179.66 | 7,806.82 | -8,941.60 | 1,100.35 | 9,006.57 | 0.00 | 0.00 | 0.00 | |
| 15,800.00 | 90.00 | 179.66 | 7,806.82 | -9,041.60 | 1,100.95 | 9,106.14 | 0.00 | 0.00 | 0.00 | |
| 15,900.00 | 90.00 | 179.66 | 7,806.82 | -9,141.60 | 1,101.54 | 9,205.71 | 0.00 | 0.00 | 0.00 | |
| 16,000.00 | 90.00 | 179.66 | 7,806.81 | -9,241.59 | 1,102.14 | 9,305.27 | 0.00 | 0.00 | 0.00 | |
| 16,100.00 | 90.00 | 179.66 | 7,806.81 | -9,341.59 | 1,102.74 | 9,404.84 | 0.00 | 0.00 | 0.00 | |
| 16,200.00 | 90.00 | 179.66 | 7,806.81 | -9,441.59 | 1,103.34 | 9,504.41 | 0.00 | 0.00 | 0.00 | |
| 16,300.00 | 90.00 | 179.66 | 7,806.81 | -9,541.59 | 1,103.94 | 9,603.98 | 0.00 | 0.00 | 0.00 | |
| 16,400.00 | 90.00 | 179.66 | 7,806.81 | -9,641.59 | 1,104.54 | 9,703.55 | 0.00 | 0.00 | 0.00 | |
| 16,500.00 | 90.00 | 179.66 | 7,806.80 | -9,741.58 | 1,105.14 | 9,803.11 | 0.00 | 0.00 | 0.00 | |
| 16,600.00 | 90.00 | 179.66 | 7,806.80 | -9,841.58 | 1,105.74 | 9,902.68 | 0.00 | 0.00 | 0.00 | |
| 16,700.00 | 90.00 | 179.66 | 7,806.80 | -9,941.58 | 1,106.34 | 10,002.25 | 0.00 | 0.00 | 0.00 | |
| 16,800.00 | 90.00 | 179.66 | 7,806.80 | -10,041.58 | 1,106.94 | 10,101.82 | 0.00 | 0.00 | 0.00 | |
| 16,900.00 | 90.00 | 179.66 | 7,806.79 | -10,141.58 | 1,107.54 | 10,201.39 | 0.00 | 0.00 | 0.00 | |
| 17,000.00 | 90.00 | 179.66 | 7,806.79 | -10,241.58 | 1,108.14 | 10,300.95 | 0.00 | 0.00 | 0.00 | |
| 17,100.00 | 90.00 | 179.66 | 7,806.79 | -10,341.57 | 1,108.74 | 10,400.52 | 0.00 | 0.00 | 0.00 | |
| 17,200.00 | 90.00 | 179.66 | 7,806.79 | -10,441.57 | 1,109.34 | 10,500.09 | 0.00 | 0.00 | 0.00 | |
| 17,300.00 | 90.00 | 179.66 | 7,806.78 | -10,541.57 | 1,109.94 | 10,599.66 | 0.00 | 0.00 | 0.00 | |
| 17,400.00 | 90.00 | 179.66 | 7,806.78 | -10,641.57 | 1,110.54 | 10,699.23 | 0.00 | 0.00 | 0.00 | |
| 17,500.00 | 90.00 | 179.66 | 7,806.78 | -10,741.57 | 1,111.14 | 10,798.79 | 0.00 | 0.00 | 0.00 | |
| 17,600.00 | 90.00 | 179.66 | 7,806.78 | -10,841.57 | 1,111.74 | 10,898.36 | 0.00 | 0.00 | 0.00 | |
| 17,700.00 | 90.00 | 179.66 | 7,806.77 | -10,941.56 | 1,112.34 | 10,997.93 | 0.00 | 0.00 | 0.00 | |
| 17,800.00 | 90.00 | 179.66 | 7,806.77 | -11,041.56 | 1,112.94 | 11,097.50 | 0.00 | 0.00 | 0.00 | |
| 17,900.00 | 90.00 | 179.66 | 7,806.77 | -11,141.56 | 1,113.54 | 11,197.07 | 0.00 | 0.00 | 0.00 | |
| 17,973.82 | 90.00 | 179.66 | 7,807.00 | -11,215.38 | 1,113.83 | 11,270.55 | 0.00 | 0.00 | 0.00 | |
| TD at 17973.82' MD | | | | | | | | | | |

Planning Report

| | | | |
|------------------|-------------------------|-------------------------------------|------------------------------|
| Database: | EDT_32Bit_ODBC | Local Co-ordinate Reference: | Well COYOTE TRAILS 33S-20-6N |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB 25' @ 5269.00usft |
| Project: | Weld County | MD Reference: | KB 25' @ 5269.00usft |
| Site: | Sec 28-T1N-R68W | North Reference: | True |
| Well: | COYOTE TRAILS 33S-20-6N | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL 1 | | |

| Design Targets | | | | | | | | | |
|---|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------------|------------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| CT 33S-20-6N LP - plan hits target center - Point | 0.00 | 0.00 | 7,807.00 | -1,561.02 | 1,056.09 | 1,248,188.60 | 3,139,136.62 | 40° 0' 48.940 N | 105° 0' 11.715 W |
| CT 33S-20-6N PBHL - plan hits target center - Point | 0.00 | 0.00 | 7,807.00 | -11,215.38 | 1,113.83 | 1,238,534.72 | 3,139,248.04 | 39° 59' 13.529 N | 105° 0' 10.979 W |

| Formations | | | | | | |
|--------------------------|--------------------------|----------------|-----------|------------|----------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 4,544.54 | 4,440.00 | PARKMAN | | | | |
| 5,031.91 | 4,910.00 | SUSSEX | | | | |
| 7,829.35 | 7,610.00 | SHARON SPRINGS | | | | |
| 7,884.77 | 7,650.00 | NIOBRARA | | | | |
| 8,212.07 | 7,797.00 | NIO B | | | | |

| Plan Annotations | | | | | |
|--------------------------|--------------------------|-------------------|-----------------|--------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 1,100.00 | 1,100.00 | 0.00 | 0.00 | BUILD 2°/100' | |
| 1,867.07 | 1,857.94 | -69.86 | 74.43 | HOLD 15.34° INC | |
| 6,552.14 | 6,376.06 | -918.16 | 978.22 | DROP 2°/100' | |
| 7,319.21 | 7,134.00 | -988.02 | 1,052.65 | HOLD VERTICAL | |
| 7,419.21 | 7,234.00 | -988.02 | 1,052.65 | KOP, BUILD 10°/100' | |
| 8,319.29 | 7,807.00 | -1,561.02 | 1,056.09 | LP @ 90° INC, 179.66° AZM HOLD | |
| 17,973.82 | 7,807.00 | -11,215.38 | 1,113.83 | TD at 17973.82' MD | |