

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

NE NW SEC. 9 T5N R65W 6th P.M.

MT-MAPLEWOOD 1-8-7

ORIGINAL WELLBORE

20 June, 2015

Plan: PROPOSAL #2

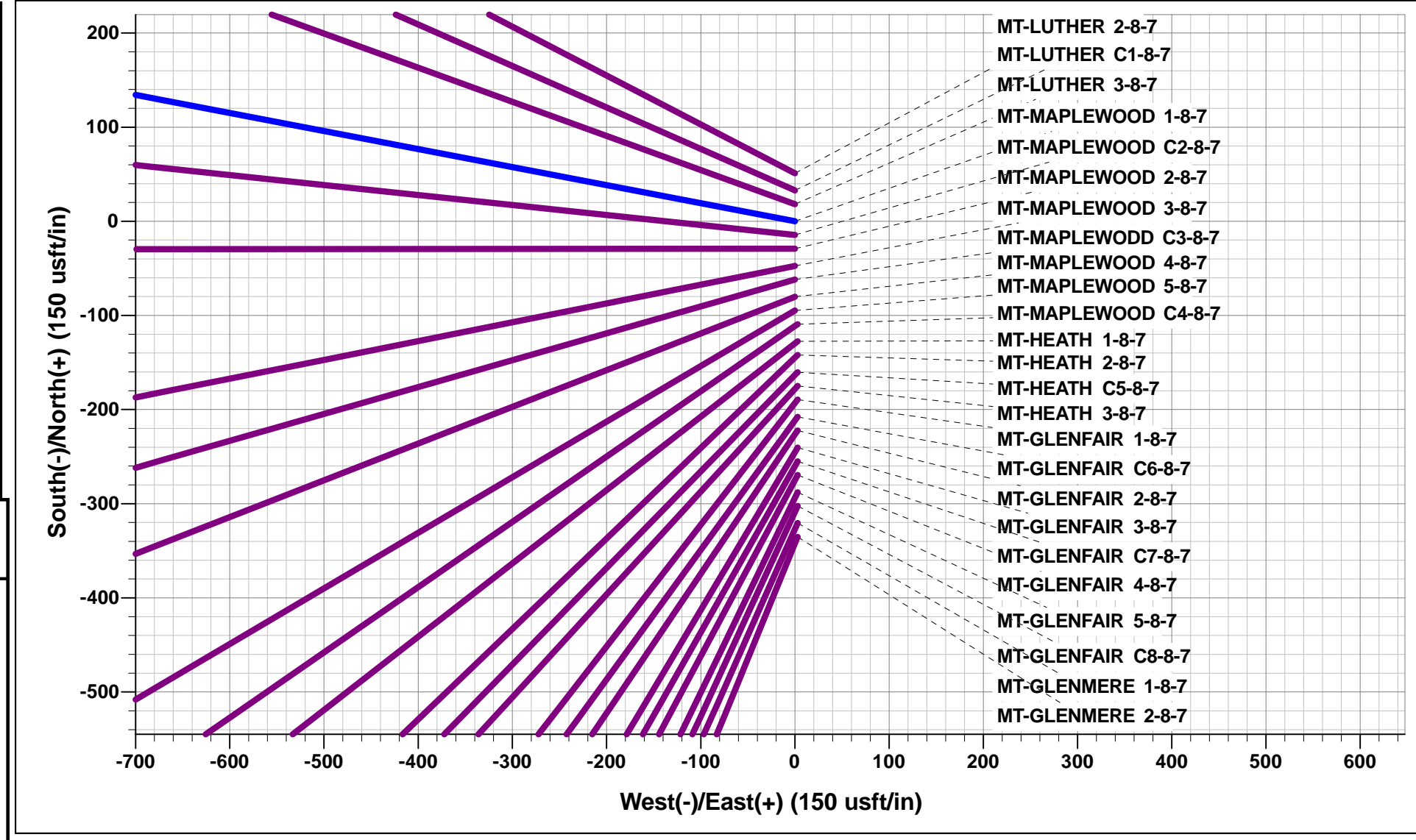




Project: WELD COUNTY, COLORADO (NAD 83)
Site: NE NW SEC. 9 T5N R65W 6th P.M.
Well: MT-MAPLEWOOD 1-8-7
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

| ANNOTATIONS | | | | | | | | |
|-------------|---------|-------|--------|-------|----------|---------|---------|---|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | Vsect | Dep | Annotation |
| 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | SHL: 876ft FNL & 1751ft FWL of Sec 9 |
| 400.0 | 400.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) |
| 1318.7 | 1335.2 | 18.70 | 280.85 | 28.5 | -148.6 | 150.3 | 151.3 | EOB TO 18.7° INC |
| 1800.0 | 1843.4 | 18.70 | 280.85 | 59.2 | -308.6 | 312.2 | 314.3 | 9 5/8" SURFACE CSG |
| 5353.3 | 5594.8 | 18.70 | 280.85 | 285.7 | -1490.1 | 1507.2 | 1517.3 | END OF TANGENT |
| 6272.0 | 6530.0 | 0.00 | 0.00 | 314.2 | -1638.7 | 1657.5 | 1668.6 | EOD TO VERTICAL |
| 6302.0 | 6560.0 | 0.00 | 0.00 | 314.2 | -1638.7 | 1657.5 | 1668.6 | KOP (10°/100ft BUR) |
| 6875.0 | 7460.1 | 90.00 | 273.20 | 346.2 | -2210.8 | 2230.5 | 2241.6 | LANDING PNT: 592ft FNL & 460ft FEL of Sec 8 |
| 6875.0 | 17114.5 | 90.00 | 273.19 | 884.5 | -11850.2 | 11883.2 | 11896.0 | BHL: 724ft FNL & 460ft FWL of Sec 7 |

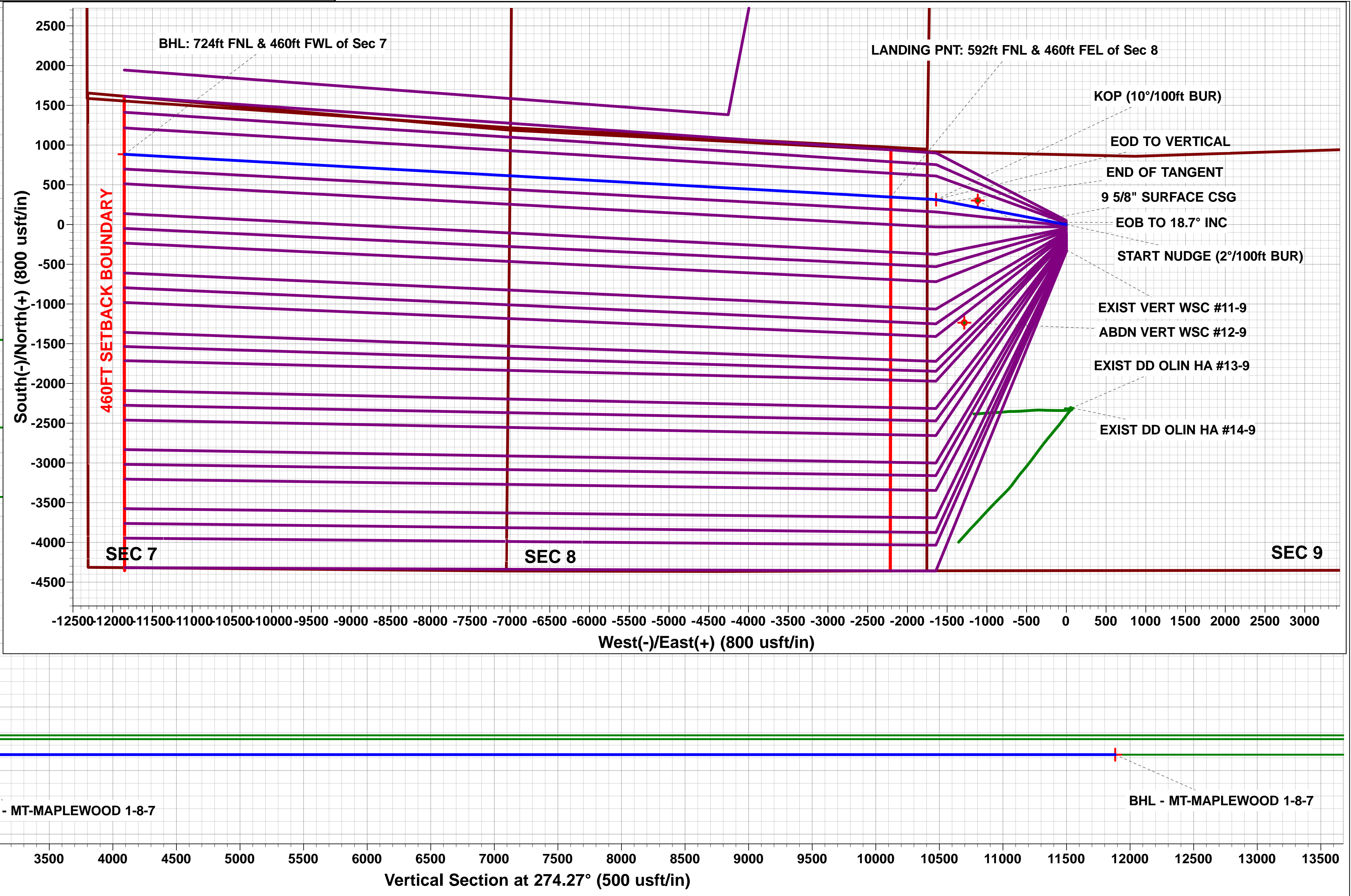
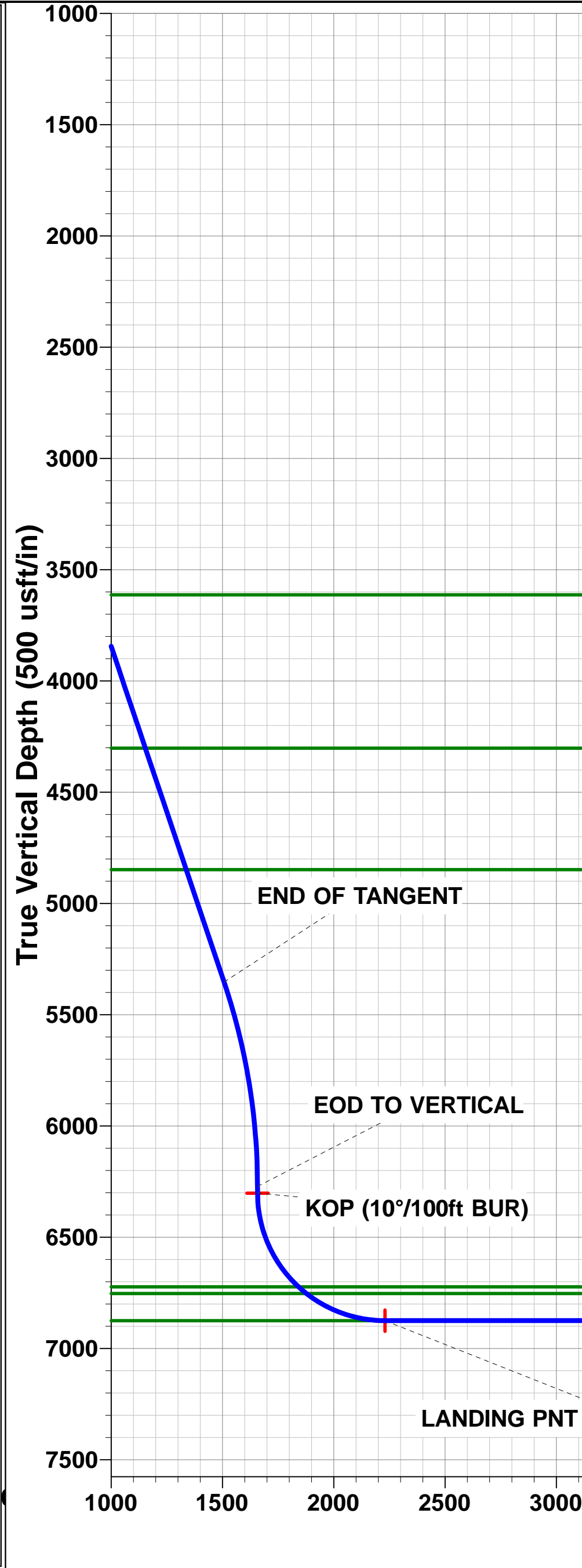
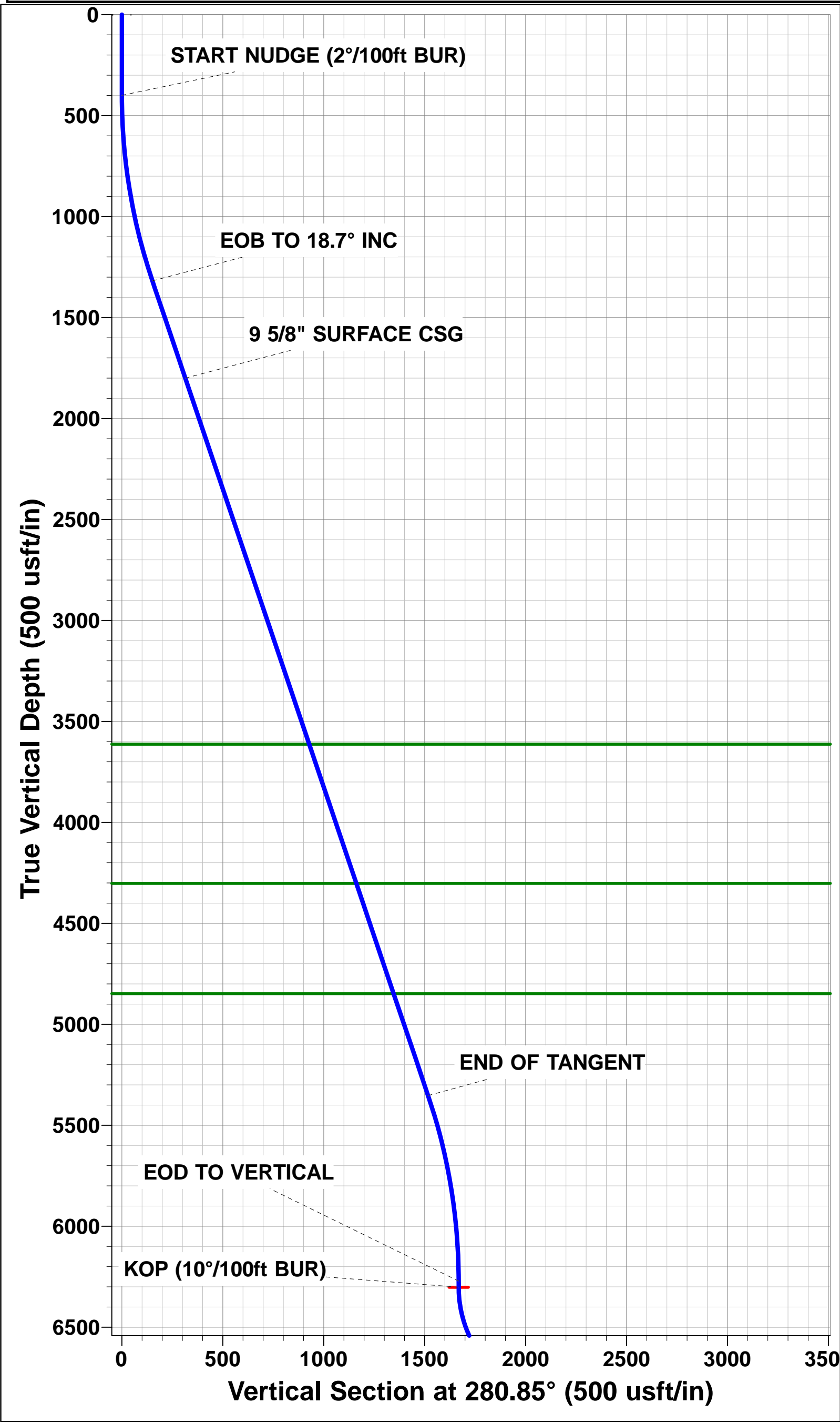
| WELLBORE TARGET DETAILS (LAT/LONG) | | | | | | |
|------------------------------------|--------|-------|----------|-----------|-------------|--|
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude | |
| KOP - MT-MAPLEWOOD 1-8-7 | 6302.0 | 314.2 | -1638.7 | 40.419282 | -104.677555 | |
| LANDING PNT - MT-MAPLEWOOD 1-8-7 | 6875.0 | 346.2 | -2210.8 | 40.419370 | -104.679610 | |
| BHL - MT-MAPLEWOOD 1-8-7 | 6875.0 | 884.5 | -11850.2 | 40.420840 | -104.714230 | |



| FORMATION TOP DETAILS | | |
|-----------------------|--------|----------------|
| TVDPath | MDPath | Formation |
| 3613.0 | 3757.4 | PARKMAN |
| 4302.0 | 4484.9 | SUSSEX |
| 4848.0 | 5061.3 | SHANNON |
| 6723.0 | 7032.9 | SHARON SPRINGS |
| 6753.0 | 7079.2 | NIOBRARA |
| 6875.0 | 7460.1 | NIO B TARGET |

Azimuths to True North
Magnetic North: 8.38°

Magnetic Field
Strength: 52645.7snT
Dip Angle: 66.94°
Date: 04/06/2015
Model: IGRF2015



Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well MT-MAPLEWOOD 1-8-7 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Site: | NE NW SEC. 9 T5N R65W 6th P.M. | North Reference: | True |
| Well: | MT-MAPLEWOOD 1-8-7 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

| | | | |
|--------------------|--------------------------------|----------------------|-----------------------------|
| Project | WELD COUNTY, COLORADO (NAD 83) | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | Using geodetic scale factor |

| | | | |
|------------------------------|--------------------------------|--------------------------|-------------------|
| Site | NE NW SEC. 9 T5N R65W 6th P.M. | | |
| Site Position: | | Northing: | 1,396,398.95 usft |
| From: | Lat/Long | Easting: | 3,230,631.97 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 1.10000ft |
| | | Latitude: | 40.418560 |
| | | Longitude: | -104.671670 |
| | | Grid Convergence: | 0.54 ° |

| | | | |
|-----------------------------|--------------------|------------|----------------------------|
| Well | MT-MAPLEWOOD 1-8-7 | | |
| Well Position | +N-S | -51.0 usft | Northing: |
| | +E-W | 0.0 usft | Easting: |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: |
| | | | Latitude: |
| | | | Longitude: |
| | | | Ground Level: |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | ORIGINAL WELLBORE | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 04/06/2015 | 8.38 | 66.94 | 52,646 |

| | | | | |
|--------------------------|--------------------------------|--------------------|----------------------|----------------------|
| Design | PROPOSAL #2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N-S (usft) | +E-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 274.27 |

| Plan Sections | | | | | | | | | | | |
|----------------------|---------|---------|----------------|-----------|-------------|-------------|------------------------|-----------------------|----------------------|---------|-----------------|
| MD (usft) | Inc (°) | Azi (°) | Vertical Depth | SS (usft) | +N-S (usft) | +E-W (usft) | Dogleg Rate (°/100usf) | Build Rate (°/100usf) | Turn Rate (°/100usf) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | -4,652.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | -4,252.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,335.2 | 18.70 | 280.85 | 1,318.7 | -3,333.3 | 28.5 | -148.6 | 2.00 | 2.00 | 0.00 | 280.85 | |
| 5,594.8 | 18.70 | 280.85 | 5,353.3 | 701.3 | 285.7 | -1,490.1 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,530.0 | 0.00 | 0.00 | 6,272.0 | 1,620.0 | 314.2 | -1,638.7 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,560.0 | 0.00 | 0.00 | 6,302.0 | 1,650.0 | 314.2 | -1,638.7 | 0.00 | 0.00 | 0.00 | 0.00 | KOP - MT-MAPLEV |
| 7,460.1 | 90.00 | 273.20 | 6,875.0 | 2,223.0 | 346.2 | -2,210.8 | 10.00 | 10.00 | -9.64 | 273.20 | LANDING PNT - M |
| 17,114.5 | 90.00 | 273.19 | 6,875.0 | 2,223.0 | 884.5 | -11,850.2 | 0.00 | 0.00 | 0.00 | -110.62 | BHL - MT-MAPLEV |

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well MT-MAPLEWOOD 1-8-7 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Site: | NE NW SEC. 9 T5N R65W 6th P.M. | North Reference: | True |
| Well: | MT-MAPLEWOOD 1-8-7 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

Planned Survey

| MD (usft) | Inc (°) | Azi (°) | TVD (usft) | SS (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| SHL: 876ft FNL & 1751ft FWL of Sec 9 | | | | | | | | | | |
| 0.0 | 0.00 | 0.00 | 0.0 | 4,652.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 4,552.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 4,452.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 4,352.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| START NUDGE (2°/100ft BUR) | | | | | | | | | | |
| 400.0 | 0.00 | 0.00 | 400.0 | 4,252.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 2.00 | 280.85 | 500.0 | 4,152.02 | 0.3 | -1.7 | 1.7 | 2.00 | 2.00 | 0.00 |
| 600.0 | 4.00 | 280.85 | 599.8 | 4,052.16 | 1.3 | -6.9 | 6.9 | 2.00 | 2.00 | 0.00 |
| 700.0 | 6.00 | 280.85 | 699.5 | 3,952.55 | 3.0 | -15.4 | 15.6 | 2.00 | 2.00 | 0.00 |
| 800.0 | 8.00 | 280.85 | 798.7 | 3,853.30 | 5.2 | -27.4 | 27.7 | 2.00 | 2.00 | 0.00 |
| 900.0 | 10.00 | 280.85 | 897.5 | 3,754.53 | 8.2 | -42.7 | 43.2 | 2.00 | 2.00 | 0.00 |
| 1,000.0 | 12.00 | 280.85 | 995.6 | 3,656.38 | 11.8 | -61.5 | 62.2 | 2.00 | 2.00 | 0.00 |
| 1,100.0 | 14.00 | 280.85 | 1,093.1 | 3,558.94 | 16.0 | -83.6 | 84.5 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 16.00 | 280.85 | 1,189.6 | 3,462.36 | 20.9 | -109.0 | 110.2 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 18.00 | 280.85 | 1,285.3 | 3,366.73 | 26.4 | -137.7 | 139.3 | 2.00 | 2.00 | 0.00 |
| EOB TO 18.7° INC | | | | | | | | | | |
| 1,335.2 | 18.70 | 280.85 | 1,318.7 | 3,333.32 | 28.5 | -148.6 | 150.3 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 18.70 | 280.85 | 1,380.1 | 3,271.94 | 32.4 | -169.0 | 170.9 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 18.70 | 280.85 | 1,474.8 | 3,177.23 | 38.4 | -200.5 | 202.8 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 18.70 | 280.85 | 1,569.5 | 3,082.51 | 44.5 | -232.0 | 234.7 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 18.70 | 280.85 | 1,664.2 | 2,987.79 | 50.5 | -263.5 | 266.5 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 18.70 | 280.85 | 1,758.9 | 2,893.07 | 56.6 | -295.0 | 298.4 | 0.00 | 0.00 | 0.00 |
| 9 5/8" SURFACE CSG | | | | | | | | | | |
| 1,843.4 | 18.70 | 280.85 | 1,800.0 | 2,852.00 | 59.2 | -308.6 | 312.2 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 18.70 | 280.85 | 1,853.6 | 2,798.35 | 62.6 | -326.5 | 330.2 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 18.70 | 280.85 | 1,948.4 | 2,703.63 | 68.6 | -358.0 | 362.1 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 18.70 | 280.85 | 2,043.1 | 2,608.91 | 74.7 | -389.5 | 393.9 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 18.70 | 280.85 | 2,137.8 | 2,514.19 | 80.7 | -420.9 | 425.8 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 18.70 | 280.85 | 2,232.5 | 2,419.47 | 86.8 | -452.4 | 457.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 18.70 | 280.85 | 2,327.2 | 2,324.76 | 92.8 | -483.9 | 489.5 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 18.70 | 280.85 | 2,422.0 | 2,230.04 | 98.8 | -515.4 | 521.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 18.70 | 280.85 | 2,516.7 | 2,135.32 | 104.9 | -546.9 | 553.2 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 18.70 | 280.85 | 2,611.4 | 2,040.60 | 110.9 | -578.4 | 585.1 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 18.70 | 280.85 | 2,706.1 | 1,945.88 | 116.9 | -609.9 | 616.9 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 18.70 | 280.85 | 2,800.8 | 1,851.16 | 123.0 | -641.4 | 648.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 18.70 | 280.85 | 2,895.6 | 1,756.44 | 129.0 | -672.9 | 680.6 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 18.70 | 280.85 | 2,990.3 | 1,661.72 | 135.1 | -704.4 | 712.5 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 18.70 | 280.85 | 3,085.0 | 1,567.01 | 141.1 | -735.9 | 744.4 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 18.70 | 280.85 | 3,179.7 | 1,472.29 | 147.1 | -767.4 | 776.2 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 18.70 | 280.85 | 3,274.4 | 1,377.57 | 153.2 | -798.9 | 808.1 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 18.70 | 280.85 | 3,369.2 | 1,282.85 | 159.2 | -830.4 | 839.9 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 18.70 | 280.85 | 3,463.9 | 1,188.13 | 165.3 | -861.9 | 871.8 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 18.70 | 280.85 | 3,558.6 | 1,093.41 | 171.3 | -893.4 | 903.6 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | | |
| 3,757.4 | 18.70 | 280.85 | 3,613.0 | 1,039.00 | 174.8 | -911.5 | 921.9 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 18.70 | 280.85 | 3,653.3 | 998.69 | 177.3 | -924.9 | 935.5 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 18.70 | 280.85 | 3,748.0 | 903.97 | 183.4 | -956.3 | 967.3 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 18.70 | 280.85 | 3,842.7 | 809.25 | 189.4 | -987.8 | 999.2 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 18.70 | 280.85 | 3,937.5 | 714.54 | 195.4 | -1,019.3 | 1,031.1 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 18.70 | 280.85 | 4,032.2 | 619.82 | 201.5 | -1,050.8 | 1,062.9 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 18.70 | 280.85 | 4,126.9 | 525.10 | 207.5 | -1,082.3 | 1,094.8 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 18.70 | 280.85 | 4,221.6 | 430.38 | 213.6 | -1,113.8 | 1,126.6 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well MT-MAPLEWOOD 1-8-7 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Site: | NE NW SEC. 9 T5N R65W 6th P.M. | North Reference: | True |
| Well: | MT-MAPLEWOOD 1-8-7 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

Planned Survey

| MD (usft) | Inc (°) | Azi (°) | TVD (usft) | SS (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| SUSSEX | | | | | | | | | | |
| 4,484.9 | 18.70 | 280.85 | 4,302.0 | 350.00 | 218.7 | -1,140.5 | 1,153.7 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 18.70 | 280.85 | 4,316.3 | 335.66 | 219.6 | -1,145.3 | 1,158.5 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 18.70 | 280.85 | 4,411.1 | 240.94 | 225.6 | -1,176.8 | 1,190.3 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 18.70 | 280.85 | 4,505.8 | 146.22 | 231.7 | -1,208.3 | 1,222.2 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 18.70 | 280.85 | 4,600.5 | 51.50 | 237.7 | -1,239.8 | 1,254.1 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 18.70 | 280.85 | 4,695.2 | -43.22 | 243.8 | -1,271.3 | 1,285.9 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 18.70 | 280.85 | 4,789.9 | -137.93 | 249.8 | -1,302.8 | 1,317.8 | 0.00 | 0.00 | 0.00 |
| SHANNON | | | | | | | | | | |
| 5,061.3 | 18.70 | 280.85 | 4,848.0 | -196.00 | 253.5 | -1,322.1 | 1,337.3 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 18.70 | 280.85 | 4,884.7 | -232.65 | 255.8 | -1,334.3 | 1,349.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 18.70 | 280.85 | 4,979.4 | -327.37 | 261.9 | -1,365.8 | 1,381.5 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 18.70 | 280.85 | 5,074.1 | -422.09 | 267.9 | -1,397.3 | 1,413.3 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 18.70 | 280.85 | 5,168.8 | -516.81 | 273.9 | -1,428.8 | 1,445.2 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 18.70 | 280.85 | 5,263.5 | -611.53 | 280.0 | -1,460.3 | 1,477.0 | 0.00 | 0.00 | 0.00 |
| END OF TANGENT | | | | | | | | | | |
| 5,594.8 | 18.70 | 280.85 | 5,353.3 | -701.32 | 285.7 | -1,490.1 | 1,507.2 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 18.60 | 280.85 | 5,358.2 | -706.25 | 286.0 | -1,491.7 | 1,508.9 | 2.00 | -2.00 | 0.00 |
| 5,700.0 | 16.60 | 280.85 | 5,453.6 | -801.56 | 291.7 | -1,521.4 | 1,538.9 | 2.00 | -2.00 | 0.00 |
| 5,800.0 | 14.60 | 280.85 | 5,549.9 | -897.87 | 296.8 | -1,547.8 | 1,565.6 | 2.00 | -2.00 | 0.00 |
| 5,900.0 | 12.60 | 280.85 | 5,647.1 | -995.07 | 301.2 | -1,570.9 | 1,589.0 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 10.60 | 280.85 | 5,745.0 | -1,093.02 | 305.0 | -1,590.7 | 1,609.0 | 2.00 | -2.00 | 0.00 |
| 6,100.0 | 8.60 | 280.85 | 5,843.6 | -1,191.61 | 308.1 | -1,607.1 | 1,625.5 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 6.60 | 280.85 | 5,942.7 | -1,290.73 | 310.6 | -1,620.1 | 1,638.7 | 2.00 | -2.00 | 0.00 |
| 6,300.0 | 4.60 | 280.85 | 6,042.2 | -1,390.25 | 312.5 | -1,629.6 | 1,648.4 | 2.00 | -2.00 | 0.00 |
| 6,400.0 | 2.60 | 280.85 | 6,142.0 | -1,490.04 | 313.6 | -1,635.8 | 1,654.6 | 2.00 | -2.00 | 0.00 |
| 6,500.0 | 0.60 | 280.85 | 6,242.0 | -1,590.00 | 314.2 | -1,638.5 | 1,657.4 | 2.00 | -2.00 | 0.00 |
| EOD TO VERTICAL | | | | | | | | | | |
| 6,530.0 | 0.00 | 0.00 | 6,272.0 | -1,620.00 | 314.2 | -1,638.7 | 1,657.5 | 2.00 | -2.00 | 263.82 |
| KOP (10°/100ft BUR) | | | | | | | | | | |
| 6,560.0 | 0.00 | 0.00 | 6,302.0 | -1,650.00 | 314.2 | -1,638.7 | 1,657.5 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 4.00 | 273.20 | 6,342.0 | -1,689.97 | 314.3 | -1,640.1 | 1,658.9 | 10.00 | 10.00 | 0.00 |
| 6,700.0 | 14.00 | 273.20 | 6,440.6 | -1,788.61 | 315.2 | -1,655.7 | 1,674.6 | 10.00 | 10.00 | 0.00 |
| 6,800.0 | 24.00 | 273.20 | 6,535.0 | -1,883.04 | 317.0 | -1,688.2 | 1,707.1 | 10.00 | 10.00 | 0.00 |
| 6,900.0 | 34.00 | 273.20 | 6,622.4 | -1,970.40 | 319.7 | -1,736.5 | 1,755.5 | 10.00 | 10.00 | 0.00 |
| 7,000.0 | 44.00 | 273.20 | 6,700.0 | -2,048.02 | 323.2 | -1,799.2 | 1,818.3 | 10.00 | 10.00 | 0.00 |
| SHARON SPRINGS | | | | | | | | | | |
| 7,032.9 | 47.28 | 273.20 | 6,723.0 | -2,071.00 | 324.5 | -1,822.7 | 1,841.8 | 10.00 | 10.00 | 0.00 |
| NIORARA | | | | | | | | | | |
| 7,079.2 | 51.91 | 273.20 | 6,753.0 | -2,101.00 | 326.5 | -1,857.9 | 1,877.1 | 10.00 | 10.00 | 0.00 |
| 7,100.0 | 54.00 | 273.20 | 6,765.5 | -2,113.54 | 327.4 | -1,874.5 | 1,893.7 | 10.00 | 10.00 | 0.00 |
| 7,200.0 | 64.00 | 273.20 | 6,817.0 | -2,164.99 | 332.2 | -1,960.0 | 1,979.3 | 10.00 | 10.00 | 0.00 |
| 7,300.0 | 73.99 | 273.20 | 6,852.8 | -2,200.79 | 337.4 | -2,053.1 | 2,072.5 | 10.00 | 10.00 | 0.00 |
| 7,400.0 | 83.99 | 273.20 | 6,871.9 | -2,219.85 | 342.9 | -2,150.9 | 2,170.5 | 10.00 | 10.00 | 0.00 |
| LANDING PNT: 592ft FNL & 460ft FEL of Sec 8 - NIO B TARGET | | | | | | | | | | |
| 7,460.1 | 90.00 | 273.20 | 6,875.0 | -2,223.00 | 346.2 | -2,210.8 | 2,230.5 | 10.00 | 10.00 | 0.00 |
| 7,500.0 | 90.00 | 273.20 | 6,875.0 | -2,223.00 | 348.4 | -2,250.7 | 2,270.4 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 273.20 | 6,875.0 | -2,222.99 | 354.0 | -2,350.5 | 2,370.4 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 273.20 | 6,875.0 | -2,222.99 | 359.6 | -2,450.4 | 2,470.3 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 273.20 | 6,875.0 | -2,222.99 | 365.2 | -2,550.2 | 2,570.3 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 273.20 | 6,875.0 | -2,222.98 | 370.8 | -2,650.1 | 2,670.3 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 273.20 | 6,875.0 | -2,222.98 | 376.4 | -2,749.9 | 2,770.3 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 273.20 | 6,875.0 | -2,222.98 | 381.9 | -2,849.7 | 2,870.3 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well MT-MAPLEWOOD 1-8-7 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Site: | NE NW SEC. 9 T5N R65W 6th P.M. | North Reference: | True |
| Well: | MT-MAPLEWOOD 1-8-7 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

| Planned Survey | | | | | | | | | | |
|----------------|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| MD (usft) | Inc (°) | Azi (°) | TVD (usft) | SS (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 8,200.0 | 90.00 | 273.20 | 6,875.0 | -2,222.98 | 387.5 | -2,949.6 | 2,970.2 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 273.20 | 6,875.0 | -2,222.97 | 393.1 | -3,049.4 | 3,070.2 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 273.20 | 6,875.0 | -2,222.97 | 398.7 | -3,149.3 | 3,170.2 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 273.20 | 6,875.0 | -2,222.97 | 404.3 | -3,249.1 | 3,270.2 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 273.20 | 6,875.0 | -2,222.96 | 409.9 | -3,349.0 | 3,370.2 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 273.20 | 6,875.0 | -2,222.96 | 415.4 | -3,448.8 | 3,470.2 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 273.20 | 6,875.0 | -2,222.96 | 421.0 | -3,548.6 | 3,570.1 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 273.20 | 6,875.0 | -2,222.96 | 426.6 | -3,648.5 | 3,670.1 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 273.20 | 6,875.0 | -2,222.95 | 432.2 | -3,748.3 | 3,770.1 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 273.20 | 6,875.0 | -2,222.95 | 437.8 | -3,848.2 | 3,870.1 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 273.20 | 6,874.9 | -2,222.95 | 443.4 | -3,948.0 | 3,970.1 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 273.20 | 6,874.9 | -2,222.95 | 448.9 | -4,047.9 | 4,070.1 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 273.20 | 6,874.9 | -2,222.94 | 454.5 | -4,147.7 | 4,170.0 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 273.20 | 6,874.9 | -2,222.94 | 460.1 | -4,247.6 | 4,270.0 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 273.20 | 6,874.9 | -2,222.94 | 465.7 | -4,347.4 | 4,370.0 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 273.20 | 6,874.9 | -2,222.94 | 471.3 | -4,447.2 | 4,470.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 273.20 | 6,874.9 | -2,222.94 | 476.8 | -4,547.1 | 4,570.0 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 273.20 | 6,874.9 | -2,222.93 | 482.4 | -4,646.9 | 4,670.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 273.20 | 6,874.9 | -2,222.93 | 488.0 | -4,746.8 | 4,769.9 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 273.20 | 6,874.9 | -2,222.93 | 493.6 | -4,846.6 | 4,869.9 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 273.20 | 6,874.9 | -2,222.93 | 499.2 | -4,946.5 | 4,969.9 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 273.20 | 6,874.9 | -2,222.93 | 504.7 | -5,046.3 | 5,069.9 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 273.20 | 6,874.9 | -2,222.93 | 510.3 | -5,146.2 | 5,169.9 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 515.9 | -5,246.0 | 5,269.8 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 521.5 | -5,345.8 | 5,369.8 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 527.1 | -5,445.7 | 5,469.8 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 532.6 | -5,545.5 | 5,569.8 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 538.2 | -5,645.4 | 5,669.8 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 543.8 | -5,745.2 | 5,769.8 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 549.4 | -5,845.1 | 5,869.7 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 554.9 | -5,944.9 | 5,969.7 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 560.5 | -6,044.8 | 6,069.7 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 566.1 | -6,144.6 | 6,169.7 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 571.7 | -6,244.4 | 6,269.7 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 577.3 | -6,344.3 | 6,369.7 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 582.8 | -6,444.1 | 6,469.6 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 588.4 | -6,544.0 | 6,569.6 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 594.0 | -6,643.8 | 6,669.6 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 599.6 | -6,743.7 | 6,769.6 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 605.1 | -6,843.5 | 6,869.6 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 610.7 | -6,943.4 | 6,969.5 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 616.3 | -7,043.2 | 7,069.5 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 621.9 | -7,143.0 | 7,169.5 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 627.4 | -7,242.9 | 7,269.5 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 633.0 | -7,342.7 | 7,369.5 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 638.6 | -7,442.6 | 7,469.5 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 644.2 | -7,542.4 | 7,569.4 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 649.7 | -7,642.3 | 7,669.4 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 655.3 | -7,742.1 | 7,769.4 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 273.20 | 6,874.9 | -2,222.91 | 660.9 | -7,842.0 | 7,869.4 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 666.5 | -7,941.8 | 7,969.4 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 273.20 | 6,874.9 | -2,222.92 | 672.0 | -8,041.6 | 8,069.4 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 677.6 | -8,141.5 | 8,169.3 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 683.2 | -8,241.3 | 8,269.3 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well MT-MAPLEWOOD 1-8-7 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Site: | NE NW SEC. 9 T5N R65W 6th P.M. | North Reference: | True |
| Well: | MT-MAPLEWOOD 1-8-7 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

| Planned Survey | | | | | | | | | | |
|--|--------------|---------------|----------------|------------------|-----------------|------------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| MD (usft) | Inc (°) | Azi (°) | TVD (usft) | SS (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 13,600.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 688.8 | -8,341.2 | 8,369.3 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 694.3 | -8,441.0 | 8,469.3 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 699.9 | -8,540.9 | 8,569.3 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 705.5 | -8,640.7 | 8,669.3 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 711.0 | -8,740.6 | 8,769.2 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 273.19 | 6,874.9 | -2,222.92 | 716.6 | -8,840.4 | 8,869.2 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 273.19 | 6,874.9 | -2,222.93 | 722.2 | -8,940.2 | 8,969.2 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 273.19 | 6,874.9 | -2,222.93 | 727.8 | -9,040.1 | 9,069.2 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 273.19 | 6,874.9 | -2,222.93 | 733.3 | -9,139.9 | 9,169.2 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 273.19 | 6,874.9 | -2,222.93 | 738.9 | -9,239.8 | 9,269.1 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 273.19 | 6,874.9 | -2,222.93 | 744.5 | -9,339.6 | 9,369.1 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 273.19 | 6,874.9 | -2,222.93 | 750.0 | -9,439.5 | 9,469.1 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 273.19 | 6,874.9 | -2,222.94 | 755.6 | -9,539.3 | 9,569.1 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 273.19 | 6,874.9 | -2,222.94 | 761.2 | -9,639.2 | 9,669.1 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 273.19 | 6,874.9 | -2,222.94 | 766.8 | -9,739.0 | 9,769.1 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 273.19 | 6,874.9 | -2,222.94 | 772.3 | -9,838.8 | 9,869.0 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 273.19 | 6,874.9 | -2,222.94 | 777.9 | -9,938.7 | 9,969.0 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 273.19 | 6,874.9 | -2,222.95 | 783.5 | -10,038.5 | 10,069.0 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 273.19 | 6,874.9 | -2,222.95 | 789.0 | -10,138.4 | 10,169.0 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 273.19 | 6,875.0 | -2,222.95 | 794.6 | -10,238.2 | 10,269.0 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 273.19 | 6,875.0 | -2,222.95 | 800.2 | -10,338.1 | 10,369.0 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 273.19 | 6,875.0 | -2,222.96 | 805.7 | -10,437.9 | 10,468.9 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 273.19 | 6,875.0 | -2,222.96 | 811.3 | -10,537.8 | 10,568.9 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 273.19 | 6,875.0 | -2,222.96 | 816.9 | -10,637.6 | 10,668.9 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 273.19 | 6,875.0 | -2,222.96 | 822.4 | -10,737.4 | 10,768.9 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 273.19 | 6,875.0 | -2,222.97 | 828.0 | -10,837.3 | 10,868.9 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 273.19 | 6,875.0 | -2,222.97 | 833.6 | -10,937.1 | 10,968.8 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 273.19 | 6,875.0 | -2,222.97 | 839.1 | -11,037.0 | 11,068.8 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 273.19 | 6,875.0 | -2,222.98 | 844.7 | -11,136.8 | 11,168.8 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 273.19 | 6,875.0 | -2,222.98 | 850.3 | -11,236.7 | 11,268.8 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 273.19 | 6,875.0 | -2,222.98 | 855.8 | -11,336.5 | 11,368.8 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 273.19 | 6,875.0 | -2,222.99 | 861.4 | -11,436.4 | 11,468.8 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 273.19 | 6,875.0 | -2,222.99 | 867.0 | -11,536.2 | 11,568.7 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 273.19 | 6,875.0 | -2,222.99 | 872.5 | -11,636.1 | 11,668.7 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 273.19 | 6,875.0 | -2,223.00 | 878.1 | -11,735.9 | 11,768.7 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 273.19 | 6,875.0 | -2,223.00 | 883.7 | -11,835.7 | 11,868.7 | 0.00 | 0.00 | 0.00 |
| BHL: 724ft FNL & 460ft FWL of Sec 7 | | | | | | | | | | |
| 17,114.5 | 90.00 | 273.19 | 6,875.0 | -2,223.00 | 884.5 | -11,850.2 | 11,883.2 | 0.00 | 0.00 | 0.00 |

| Formations | | | | | | |
|--------------|---------------|----------------|-----------|------------|-------------------------|--|
| MD (usft) | TVD (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 3,757.4 | 3,613.0 | PARKMAN | | | | |
| 4,484.9 | 4,302.0 | SUSSEX | | | | |
| 5,061.3 | 4,848.0 | SHANNON | | | | |
| 7,032.9 | 6,723.0 | SHARON SPRINGS | | | | |
| 7,079.2 | 6,753.0 | NIOBRARA | | | | |
| 7,460.1 | 6,875.0 | NIO B TARGET | | | | |

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well MT-MAPLEWOOD 1-8-7 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4652.0usft (SAV 802) |
| Site: | NE NW SEC. 9 T5N R65W 6th P.M. | North Reference: | True |
| Well: | MT-MAPLEWOOD 1-8-7 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

Plan Annotations

| MD (usft) | TVD (usft) | Local Coordinates | | Comment |
|--------------|---------------|-------------------|-----------------|---|
| | | +N/-S (usft) | +E/-W (usft) | |
| 0.0 | 0.0 | 0.0 | 0.0 | SHL: 876ft FNL & 1751ft FWL of Sec 9 |
| 400.0 | 400.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) |
| 1,335.2 | 1,318.7 | 28.5 | -148.6 | EOB TO 18.7° INC |
| 1,843.4 | 1,800.0 | 59.2 | -308.6 | 9 5/8" SURFACE CSG |
| 5,594.8 | 5,353.3 | 285.7 | -1,490.1 | END OF TANGENT |
| 6,530.0 | 6,272.0 | 314.2 | -1,638.7 | EOD TO VERTICAL |
| 6,560.0 | 6,302.0 | 314.2 | -1,638.7 | KOP (10°/100ft BUR) |
| 7,460.1 | 6,875.0 | 346.2 | -2,210.8 | LANDING PNT: 592ft FNL & 460ft FEL of Sec 8 |
| 17,114.5 | 6,875.0 | 884.5 | -11,850.2 | BHL: 724ft FNL & 460ft FWL of Sec 7 |