

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

SW SE SEC 36 T6N R66W 6th P.M.

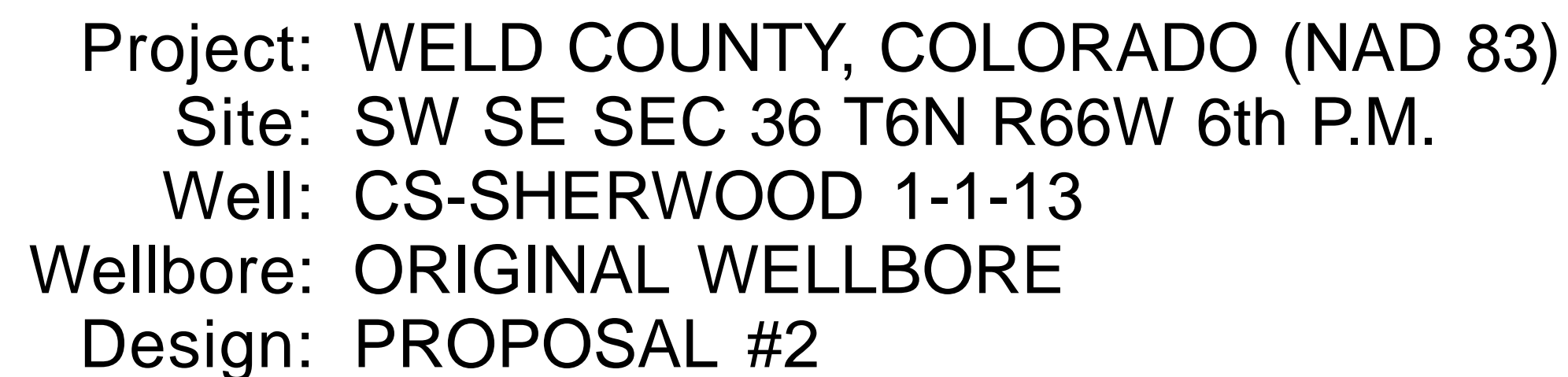
CS-SHERWOOD 1-1-13

ORIGINAL WELLBORE

02 November, 2015

Plan: PROPOSAL #2





| ANNOTATIONS | | | | | | | | |
|-------------|---------|-------|--------|----------|---------|---------|---------|----------------------------------|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSect | Dep | Annotation |
| 1100.0 | 1100.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) |
| 1732.0 | 1737.2 | 12.74 | 257.44 | -15.4 | -68.9 | 21.4 | 70.6 | EOB TO 12.74° INC |
| 1800.0 | 1807.0 | 12.74 | 257.44 | -18.7 | -83.9 | 26.1 | 86.0 | 9 5/8" SURFACE CSG |
| 5753.0 | 5859.8 | 12.74 | 257.44 | -213.1 | -956.6 | 297.2 | 980.1 | END OF TANGENT |
| 6385.0 | 6497.1 | 0.00 | 0.00 | -228.5 | -1025.5 | 318.6 | 1050.6 | EOD TO VERTICAL |
| 6415.0 | 6527.1 | 0.00 | 0.00 | -228.5 | -1025.5 | 318.6 | 1050.6 | KOP (10°/100ft BUR) |
| 6988.0 | 7427.1 | 90.00 | 180.17 | -801.5 | -1027.2 | 889.5 | 1623.6 | LANDING PNT - CS-SHERWOOD 1-1-13 |
| 6988.0 | 18535.0 | 90.00 | 180.18 | -11909.3 | -1061.1 | 11956.5 | 12731.5 | BHL - CS-SHERWOOD 1-1-13 (P2) |

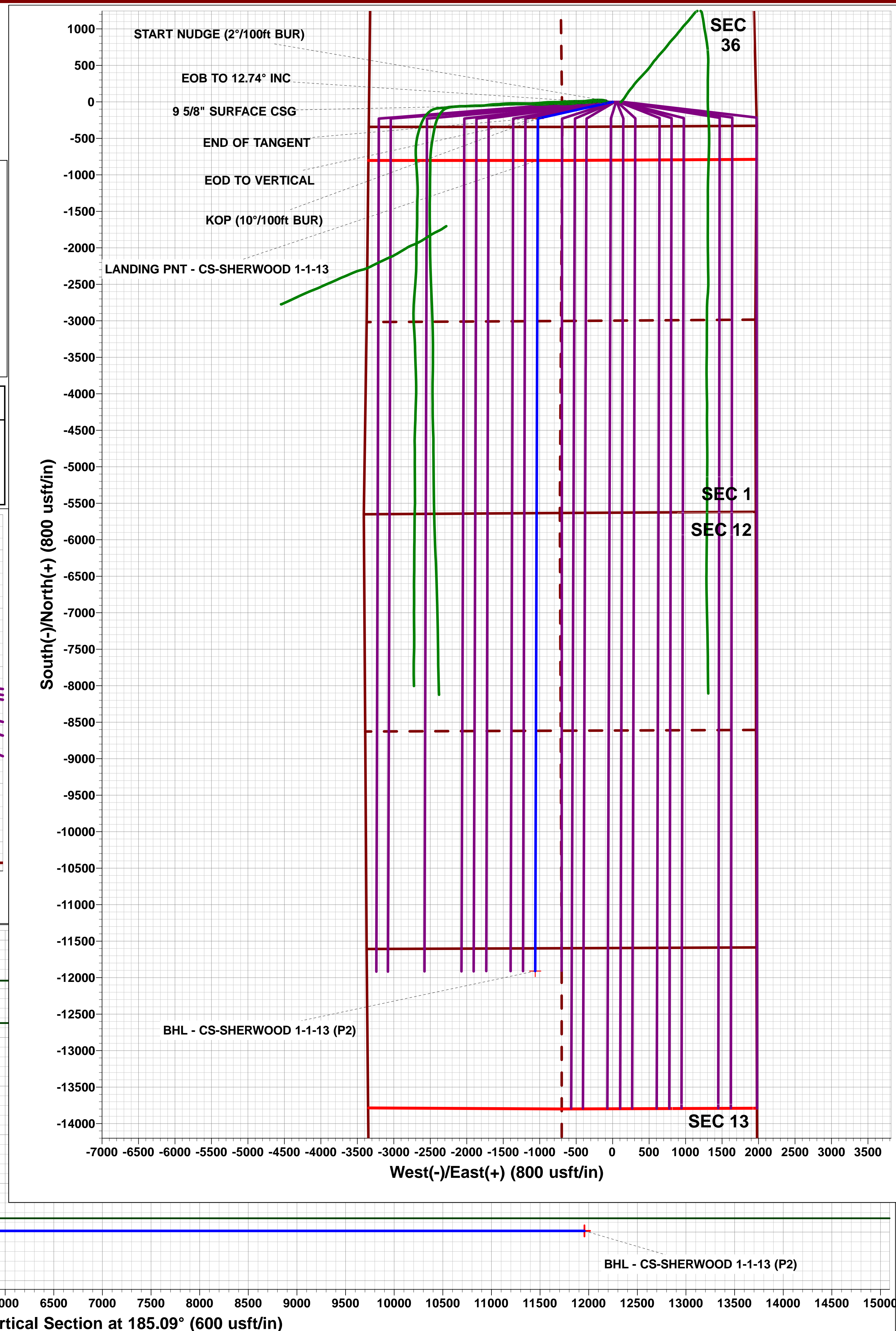
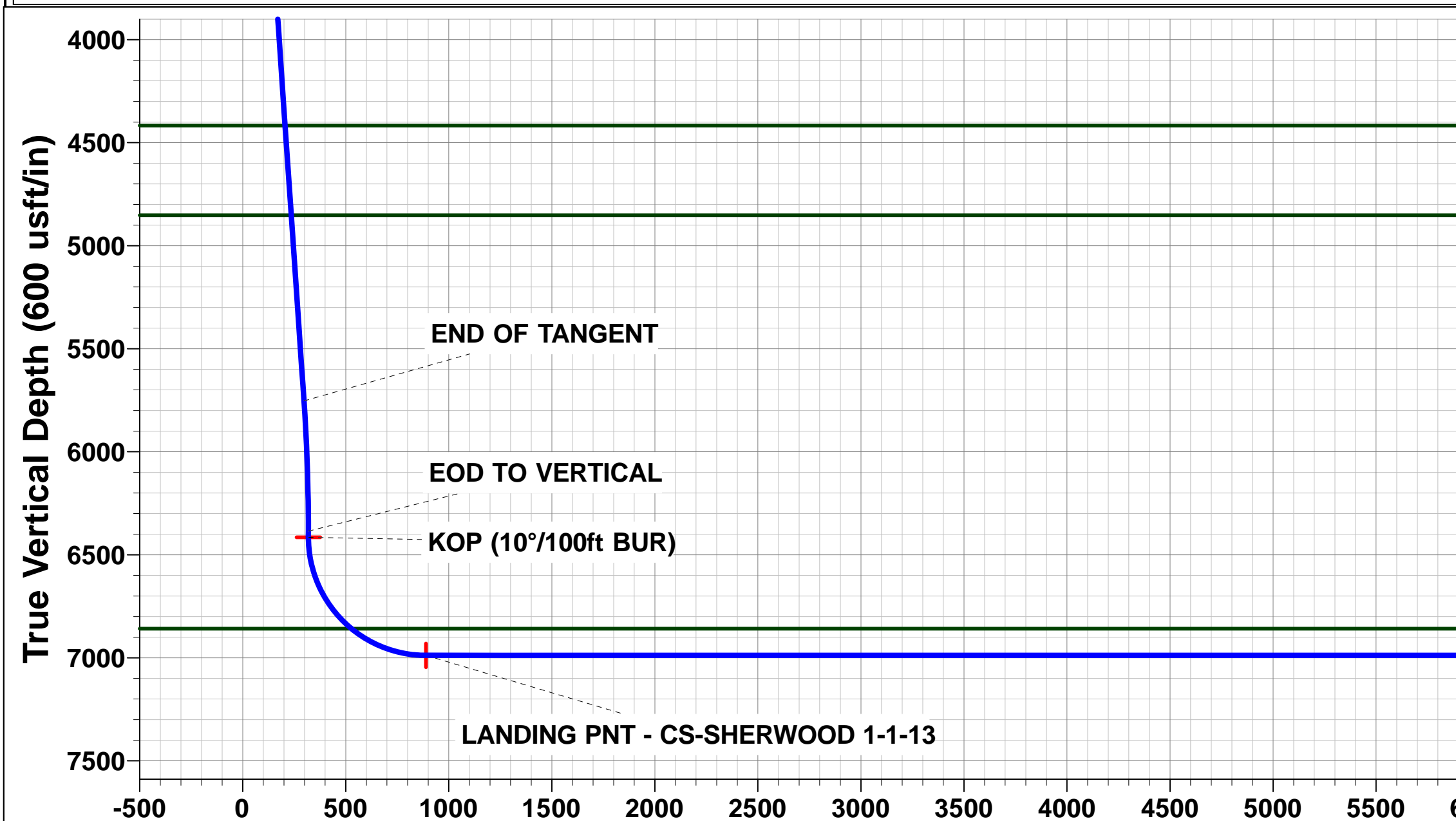
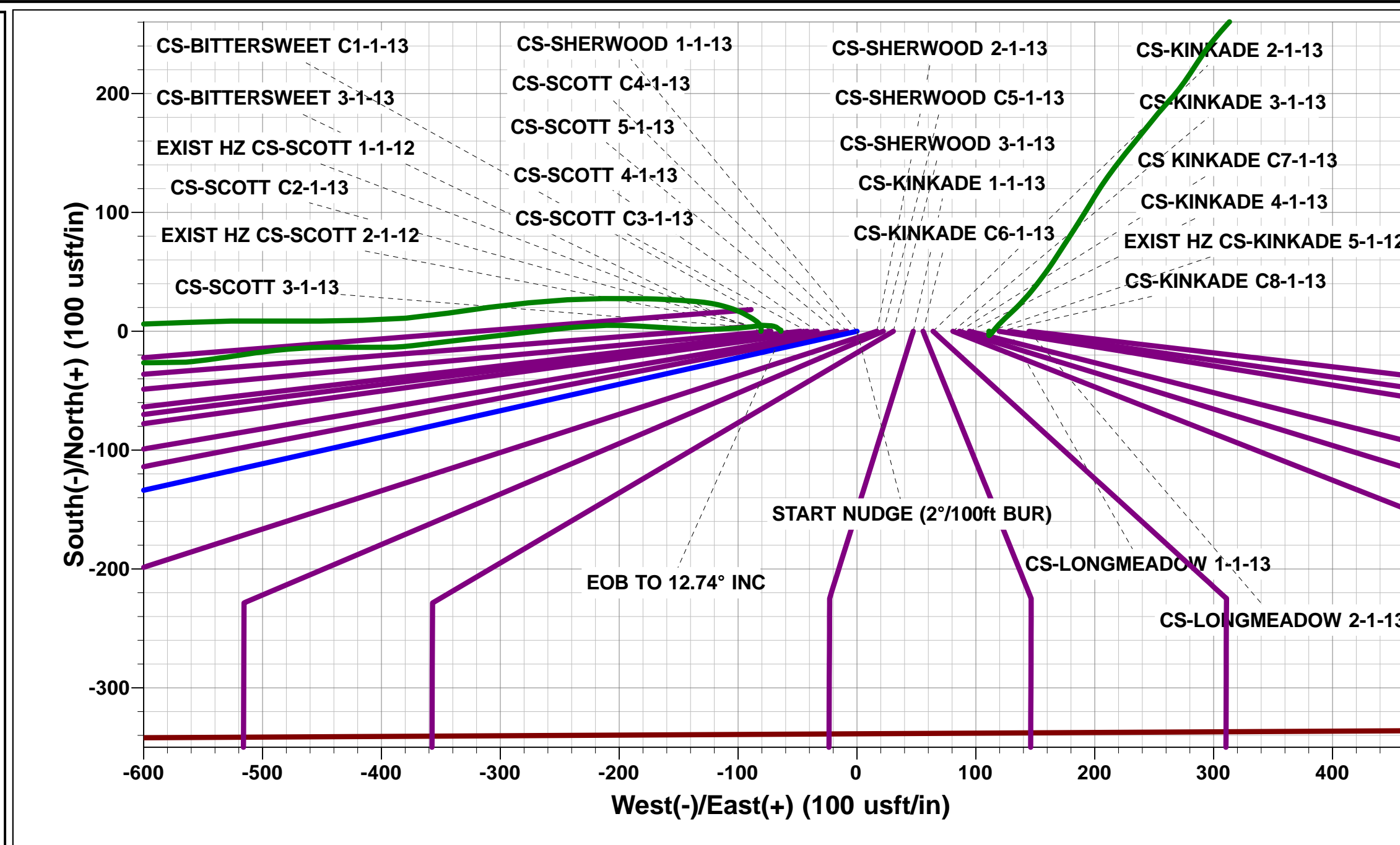
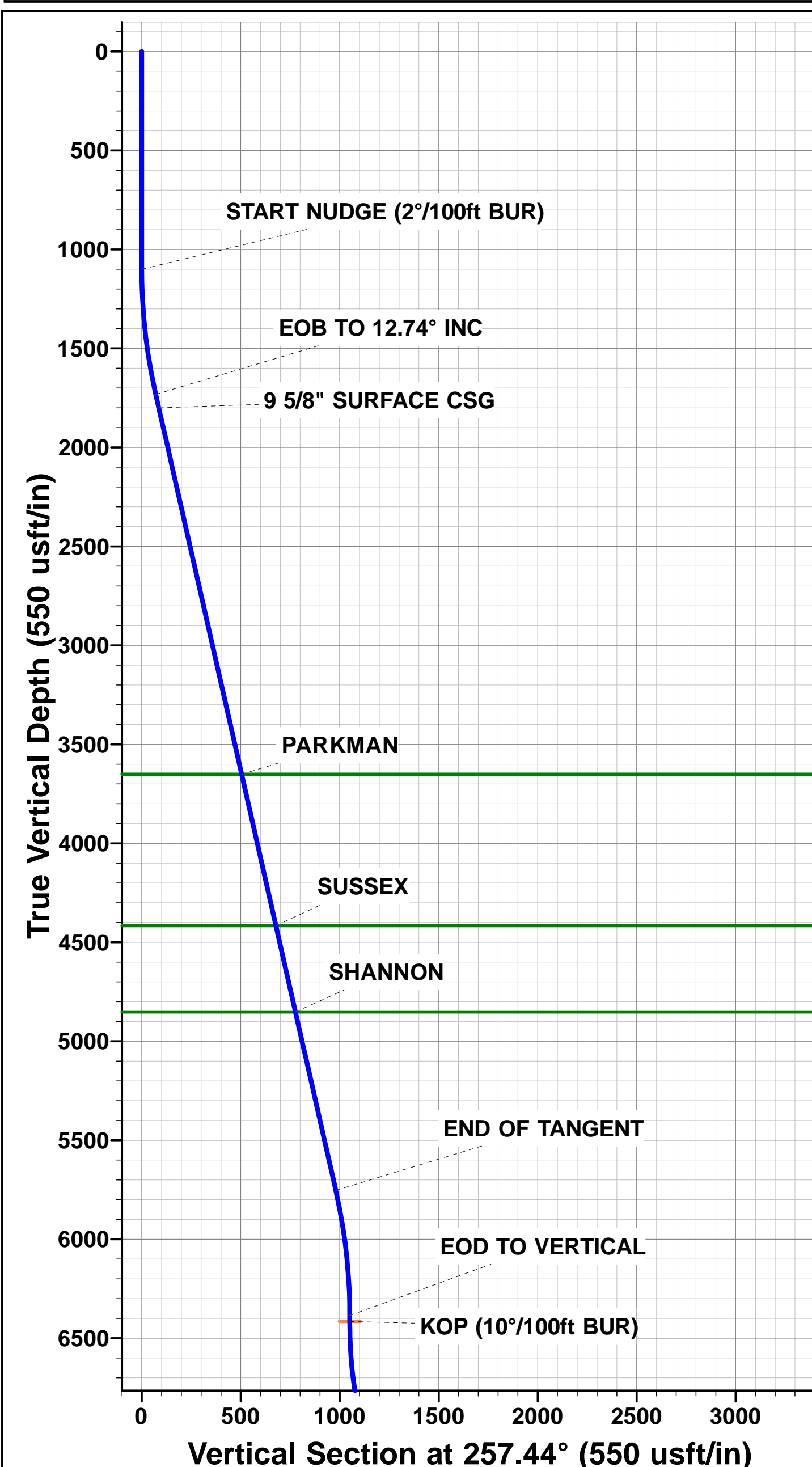
PROPOSED LOCAL COORDINATES:

SHL: 340ft FSL & 1968ft FEL Sec 36

LANDING PNT: 460ft FNL & 2319t FWL Sec 1

BHL: 310ft FNL & 2308ft FWL Sec 13

| WELLBORE TARGET DETAILS (LAT/LONG) | | | | | |
|------------------------------------|--------|----------|---------|-----------|-------------|
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
| KOP - CS-SHERWOOD 1-1-13 | 6415.0 | -228.5 | -1025.5 | 40.437743 | -104.726624 |
| BHL - CS-SHERWOOD 1-1-13 (P2) | 6988.0 | -11909.3 | -1061.1 | 40.405680 | -104.726750 |
| LANDING PNT - CS-SHERWOOD 1-1-13 | 6988.0 | -801.5 | -1027.2 | 40.436170 | -104.726630 |



Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-SHERWOOD 1-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-SHERWOOD 1-1-13 | 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 | SW SE SEC 36 T6N R66W 6th P.M. | | |
| Site Position: | | Northing: | 1,403,485.52 usft |
| From: | Lat/Long | Easting: | 3,216,213.28 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 1.10000ft |
| | | Latitude: | 40.438370 |
| | | Longitude: | -104.723230 |
| | | Grid Convergence: | 0.50 ° |

| | | | |
|-----------------------------|--------------------|----------------------------|------------------------------------|
| Well | CS-SHERWOOD 1-1-13 | | |
| Well Position | +N-S | 0.0 usft | Northing: 1,403,486.22 usfi |
| | +E-W | 80.7 usft | Easting: 3,216,294.00 usfi |
| Position Uncertainty | 0.0 usft | Wellhead Elevation: | usfi |
| | | Latitude: | 40.438370 |
| | | Longitude: | -104.722940 |
| | | Ground Level: | 4,665.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | ORIGINAL WELLBORE | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 23/06/2015 | 8.40 | 66.94 | 52,644 |

| | | | | |
|--------------------------|--------------------------------|--------------------|----------------------|----------------------|
| 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 (°) |
| | 6,988.0 | 0.0 | 0.0 | 185.09 |

| 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 | -4,681.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | -3,581.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,737.2 | 12.74 | 257.44 | 1,732.0 | -2,949.0 | -15.4 | -68.9 | 2.00 | 2.00 | 0.00 | 257.44 | |
| 5,859.8 | 12.74 | 257.44 | 5,753.0 | 1,072.0 | -213.1 | -956.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,497.1 | 0.00 | 0.00 | 6,385.0 | 1,704.0 | -228.5 | -1,025.5 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,527.1 | 0.00 | 0.00 | 6,415.0 | 1,734.0 | -228.5 | -1,025.5 | 0.00 | 0.00 | 0.00 | 0.00 | KOP - CS-SHERW |
| 7,427.1 | 90.00 | 180.17 | 6,988.0 | 2,307.0 | -801.5 | -1,027.2 | 10.00 | 10.00 | -19.98 | 180.17 | LANDING PNT - CS |
| 18,535.0 | 90.00 | 180.18 | 6,988.0 | 2,307.0 | -11,909.3 | -1,061.1 | 0.00 | 0.00 | 0.00 | 55.66 | BHL - CS-SHERW |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-SHERWOOD 1-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-SHERWOOD 1-1-13 | 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) |
|-----------------------------------|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 4,681.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 4,581.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 4,481.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 4,381.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 4,281.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 4,181.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 4,081.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 3,981.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 3,881.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 3,781.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 3,681.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| START NUDGE (2°/100ft BUR) | | | | | | | | | | |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 3,581.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 2.00 | 257.44 | 1,200.0 | 3,481.02 | -0.4 | -1.7 | 0.5 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 4.00 | 257.44 | 1,299.8 | 3,381.16 | -1.5 | -6.8 | 2.1 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 6.00 | 257.44 | 1,399.5 | 3,281.55 | -3.4 | -15.3 | 4.8 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 8.00 | 257.44 | 1,498.7 | 3,182.30 | -6.1 | -27.2 | 8.5 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 10.00 | 257.44 | 1,597.5 | 3,083.53 | -9.5 | -42.5 | 13.2 | 2.00 | 2.00 | 0.00 |
| 1,700.0 | 12.00 | 257.44 | 1,695.6 | 2,985.38 | -13.6 | -61.1 | 19.0 | 2.00 | 2.00 | 0.00 |
| EOB TO 12.74° INC | | | | | | | | | | |
| 1,737.2 | 12.74 | 257.44 | 1,732.0 | 2,949.00 | -15.4 | -68.9 | 21.4 | 2.00 | 2.00 | 0.00 |
| 1,800.0 | 12.74 | 257.44 | 1,793.2 | 2,887.79 | -18.4 | -82.4 | 25.6 | 0.00 | 0.00 | 0.00 |
| 9 5/8" SURFACE CSG | | | | | | | | | | |
| 1,807.0 | 12.74 | 257.44 | 1,800.0 | 2,881.00 | -18.7 | -83.9 | 26.1 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 12.74 | 257.44 | 1,890.7 | 2,790.25 | -23.2 | -103.9 | 32.3 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 12.74 | 257.44 | 1,988.3 | 2,692.72 | -28.0 | -125.5 | 39.0 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 12.74 | 257.44 | 2,085.8 | 2,595.18 | -32.8 | -147.0 | 45.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 12.74 | 257.44 | 2,183.4 | 2,497.64 | -37.6 | -168.5 | 52.4 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 12.74 | 257.44 | 2,280.9 | 2,400.11 | -42.4 | -190.1 | 59.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 12.74 | 257.44 | 2,378.4 | 2,302.57 | -47.1 | -211.6 | 65.7 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 12.74 | 257.44 | 2,476.0 | 2,205.03 | -51.9 | -233.1 | 72.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 12.74 | 257.44 | 2,573.5 | 2,107.50 | -56.7 | -254.7 | 79.1 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 12.74 | 257.44 | 2,671.0 | 2,009.96 | -61.5 | -276.2 | 85.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 12.74 | 257.44 | 2,768.6 | 1,912.43 | -66.3 | -297.7 | 92.5 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 12.74 | 257.44 | 2,866.1 | 1,814.89 | -71.1 | -319.3 | 99.2 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 12.74 | 257.44 | 2,963.6 | 1,717.35 | -75.9 | -340.8 | 105.9 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 12.74 | 257.44 | 3,061.2 | 1,619.82 | -80.7 | -362.3 | 112.6 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 12.74 | 257.44 | 3,158.7 | 1,522.28 | -85.5 | -383.9 | 119.3 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 12.74 | 257.44 | 3,256.3 | 1,424.75 | -90.3 | -405.4 | 126.0 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 12.74 | 257.44 | 3,353.8 | 1,327.21 | -95.1 | -426.9 | 132.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 12.74 | 257.44 | 3,451.3 | 1,229.67 | -99.9 | -448.5 | 139.3 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 12.74 | 257.44 | 3,548.9 | 1,132.14 | -104.7 | -470.0 | 146.0 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 12.74 | 257.44 | 3,646.4 | 1,034.60 | -109.5 | -491.5 | 152.7 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | | |
| 3,704.7 | 12.74 | 257.44 | 3,651.0 | 1,030.00 | -109.7 | -492.5 | 153.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 12.74 | 257.44 | 3,743.9 | 937.06 | -114.3 | -513.1 | 159.4 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 12.74 | 257.44 | 3,841.5 | 839.53 | -119.1 | -534.6 | 166.1 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 12.74 | 257.44 | 3,939.0 | 741.99 | -123.9 | -556.1 | 172.8 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 12.74 | 257.44 | 4,036.5 | 644.46 | -128.7 | -577.7 | 179.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 12.74 | 257.44 | 4,134.1 | 546.92 | -133.5 | -599.2 | 186.2 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 12.74 | 257.44 | 4,231.6 | 449.38 | -138.3 | -620.7 | 192.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 12.74 | 257.44 | 4,329.2 | 351.85 | -143.1 | -642.3 | 199.5 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | | |
| 4,489.0 | 12.74 | 257.44 | 4,416.0 | 265.00 | -147.4 | -661.4 | 205.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-SHERWOOD 1-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-SHERWOOD 1-1-13 | 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) |
|---|--------------|---------------|----------------|------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 4,500.0 | 12.74 | 257.44 | 4,426.7 | 254.31 | -147.9 | -663.8 | 206.2 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 12.74 | 257.44 | 4,524.2 | 156.77 | -152.7 | -685.3 | 212.9 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 12.74 | 257.44 | 4,621.8 | 59.24 | -157.5 | -706.9 | 219.6 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 12.74 | 257.44 | 4,719.3 | -38.30 | -162.3 | -728.4 | 226.3 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 12.74 | 257.44 | 4,816.8 | -135.83 | -167.1 | -749.9 | 233.0 | 0.00 | 0.00 | 0.00 |
| SHANNON | | | | | | | | | | |
| 4,936.1 | 12.74 | 257.44 | 4,852.0 | -171.00 | -168.8 | -757.7 | 235.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 12.74 | 257.44 | 4,914.4 | -233.37 | -171.9 | -771.5 | 239.7 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 12.74 | 257.44 | 5,011.9 | -330.91 | -176.7 | -793.0 | 246.4 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 12.74 | 257.44 | 5,109.4 | -428.44 | -181.5 | -814.5 | 253.1 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 12.74 | 257.44 | 5,207.0 | -525.98 | -186.3 | -836.1 | 259.8 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 12.74 | 257.44 | 5,304.5 | -623.51 | -191.1 | -857.6 | 266.4 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 12.74 | 257.44 | 5,402.1 | -721.05 | -195.9 | -879.1 | 273.1 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 12.74 | 257.44 | 5,499.6 | -818.59 | -200.7 | -900.7 | 279.8 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 12.74 | 257.44 | 5,597.1 | -916.12 | -205.5 | -922.2 | 286.5 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 12.74 | 257.44 | 5,694.7 | -1,013.66 | -210.3 | -943.7 | 293.2 | 0.00 | 0.00 | 0.00 |
| END OF TANGENT | | | | | | | | | | |
| 5,859.8 | 12.74 | 257.44 | 5,753.0 | -1,072.00 | -213.1 | -956.6 | 297.2 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 11.94 | 257.44 | 5,792.3 | -1,111.26 | -215.0 | -965.0 | 299.8 | 2.00 | -2.00 | 0.00 |
| 6,000.0 | 9.94 | 257.44 | 5,890.4 | -1,209.43 | -219.1 | -983.5 | 305.6 | 2.00 | -2.00 | 0.00 |
| 6,100.0 | 7.94 | 257.44 | 5,989.2 | -1,308.21 | -222.5 | -998.7 | 310.3 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 5.94 | 257.44 | 6,088.5 | -1,407.48 | -225.2 | -1,010.5 | 313.9 | 2.00 | -2.00 | 0.00 |
| 6,300.0 | 3.94 | 257.44 | 6,188.1 | -1,507.10 | -227.0 | -1,018.9 | 316.6 | 2.00 | -2.00 | 0.00 |
| 6,400.0 | 1.94 | 257.44 | 6,288.0 | -1,606.96 | -228.1 | -1,023.9 | 318.1 | 2.00 | -2.00 | 0.00 |
| EOD TO VERTICAL | | | | | | | | | | |
| 6,497.1 | 0.00 | 0.00 | 6,385.0 | -1,704.00 | -228.5 | -1,025.5 | 318.6 | 2.00 | -2.00 | 0.00 |
| 6,500.0 | 0.00 | 0.00 | 6,387.9 | -1,706.94 | -228.5 | -1,025.5 | 318.6 | 0.00 | 0.00 | 0.00 |
| KOP (10°/100ft BUR) | | | | | | | | | | |
| 6,527.1 | 0.00 | 0.00 | 6,415.0 | -1,734.00 | -228.5 | -1,025.5 | 318.6 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 7.29 | 180.17 | 6,487.7 | -1,806.75 | -233.1 | -1,025.5 | 323.2 | 10.00 | 10.00 | 0.00 |
| 6,700.0 | 17.29 | 180.17 | 6,585.3 | -1,904.33 | -254.4 | -1,025.6 | 344.4 | 10.00 | 10.00 | 0.00 |
| 6,800.0 | 27.29 | 180.17 | 6,677.7 | -1,996.74 | -292.3 | -1,025.7 | 382.2 | 10.00 | 10.00 | 0.00 |
| 6,900.0 | 37.29 | 180.17 | 6,762.2 | -2,081.16 | -345.6 | -1,025.8 | 435.3 | 10.00 | 10.00 | 0.00 |
| 7,000.0 | 47.29 | 180.17 | 6,836.0 | -2,155.04 | -412.8 | -1,026.0 | 502.3 | 10.00 | 10.00 | 0.00 |
| NIOBRARA | | | | | | | | | | |
| 7,033.4 | 50.64 | 180.17 | 6,858.0 | -2,177.00 | -438.1 | -1,026.1 | 527.4 | 10.00 | 10.00 | 0.00 |
| 7,100.0 | 57.29 | 180.17 | 6,897.1 | -2,216.13 | -491.9 | -1,026.3 | 581.0 | 10.00 | 10.00 | 0.00 |
| 7,200.0 | 67.29 | 180.17 | 6,943.6 | -2,262.57 | -580.3 | -1,026.5 | 669.1 | 10.00 | 10.00 | 0.00 |
| 7,300.0 | 77.29 | 180.17 | 6,974.0 | -2,292.96 | -675.4 | -1,026.8 | 763.9 | 10.00 | 10.00 | 0.00 |
| 7,400.0 | 87.29 | 180.17 | 6,987.4 | -2,306.36 | -774.4 | -1,027.1 | 862.5 | 10.00 | 10.00 | 0.00 |
| LANDING PNT - CS-SHERWOOD 1-1-13 | | | | | | | | | | |
| 7,427.1 | 90.00 | 180.17 | 6,988.0 | -2,307.00 | -801.5 | -1,027.2 | 889.5 | 10.00 | 10.00 | 0.00 |
| 7,500.0 | 90.00 | 180.17 | 6,988.0 | -2,307.00 | -874.4 | -1,027.4 | 962.1 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 180.17 | 6,988.0 | -2,307.01 | -974.4 | -1,027.7 | 1,061.7 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 180.17 | 6,988.0 | -2,307.02 | -1,074.4 | -1,028.0 | 1,161.4 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 180.17 | 6,988.0 | -2,307.02 | -1,174.4 | -1,028.3 | 1,261.0 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 180.17 | 6,988.0 | -2,307.03 | -1,274.4 | -1,028.6 | 1,360.6 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 180.17 | 6,988.0 | -2,307.03 | -1,374.4 | -1,028.9 | 1,460.3 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 180.17 | 6,988.0 | -2,307.04 | -1,474.4 | -1,029.2 | 1,559.9 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 180.17 | 6,988.0 | -2,307.05 | -1,574.4 | -1,029.5 | 1,659.5 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 180.17 | 6,988.1 | -2,307.05 | -1,674.4 | -1,029.8 | 1,759.2 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 180.17 | 6,988.1 | -2,307.06 | -1,774.4 | -1,030.1 | 1,858.8 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 180.17 | 6,988.1 | -2,307.06 | -1,874.4 | -1,030.4 | 1,958.4 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-SHERWOOD 1-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-SHERWOOD 1-1-13 | 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) |
| 8,600.0 | 90.00 | 180.17 | 6,988.1 | -2,307.07 | -1,974.4 | -1,030.7 | 2,058.0 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 180.17 | 6,988.1 | -2,307.07 | -2,074.4 | -1,031.0 | 2,157.7 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 180.17 | 6,988.1 | -2,307.08 | -2,174.4 | -1,031.3 | 2,257.3 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 180.17 | 6,988.1 | -2,307.08 | -2,274.4 | -1,031.6 | 2,356.9 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 180.17 | 6,988.1 | -2,307.09 | -2,374.4 | -1,031.9 | 2,456.6 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 180.17 | 6,988.1 | -2,307.09 | -2,474.4 | -1,032.2 | 2,556.2 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 180.17 | 6,988.1 | -2,307.10 | -2,574.4 | -1,032.5 | 2,655.8 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 180.17 | 6,988.1 | -2,307.10 | -2,674.4 | -1,032.8 | 2,755.5 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 180.17 | 6,988.1 | -2,307.10 | -2,774.4 | -1,033.1 | 2,855.1 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 180.17 | 6,988.1 | -2,307.11 | -2,874.4 | -1,033.4 | 2,954.7 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 180.17 | 6,988.1 | -2,307.11 | -2,974.4 | -1,033.7 | 3,054.4 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 180.17 | 6,988.1 | -2,307.12 | -3,074.4 | -1,034.0 | 3,154.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 180.17 | 6,988.1 | -2,307.12 | -3,174.4 | -1,034.3 | 3,253.6 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 180.17 | 6,988.1 | -2,307.12 | -3,274.4 | -1,034.6 | 3,353.3 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 180.17 | 6,988.1 | -2,307.13 | -3,374.4 | -1,034.9 | 3,452.9 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 180.17 | 6,988.1 | -2,307.13 | -3,474.4 | -1,035.2 | 3,552.5 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 180.17 | 6,988.1 | -2,307.13 | -3,574.4 | -1,035.5 | 3,652.2 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 180.17 | 6,988.1 | -2,307.14 | -3,674.4 | -1,035.8 | 3,751.8 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 180.17 | 6,988.1 | -2,307.14 | -3,774.4 | -1,036.1 | 3,851.4 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 180.17 | 6,988.1 | -2,307.14 | -3,874.4 | -1,036.4 | 3,951.0 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 180.17 | 6,988.1 | -2,307.15 | -3,974.4 | -1,036.7 | 4,050.7 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 180.17 | 6,988.1 | -2,307.15 | -4,074.4 | -1,037.0 | 4,150.3 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 180.17 | 6,988.2 | -2,307.15 | -4,174.4 | -1,037.3 | 4,249.9 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 180.17 | 6,988.2 | -2,307.15 | -4,274.4 | -1,037.6 | 4,349.6 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 180.17 | 6,988.2 | -2,307.16 | -4,374.4 | -1,037.9 | 4,449.2 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 180.17 | 6,988.2 | -2,307.16 | -4,474.4 | -1,038.2 | 4,548.8 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 180.17 | 6,988.2 | -2,307.16 | -4,574.4 | -1,038.5 | 4,648.5 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 180.17 | 6,988.2 | -2,307.16 | -4,674.4 | -1,038.8 | 4,748.1 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 180.17 | 6,988.2 | -2,307.16 | -4,774.4 | -1,039.1 | 4,847.7 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -4,874.4 | -1,039.4 | 4,947.4 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -4,974.4 | -1,039.7 | 5,047.0 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -5,074.4 | -1,040.0 | 5,146.6 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -5,174.4 | -1,040.3 | 5,246.3 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -5,274.4 | -1,040.6 | 5,345.9 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -5,374.4 | -1,040.9 | 5,445.5 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 180.17 | 6,988.2 | -2,307.17 | -5,474.4 | -1,041.2 | 5,545.2 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -5,574.4 | -1,041.5 | 5,644.8 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -5,674.4 | -1,041.8 | 5,744.4 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -5,774.4 | -1,042.1 | 5,844.1 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -5,874.4 | -1,042.4 | 5,943.7 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -5,974.4 | -1,042.7 | 6,043.3 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -6,074.4 | -1,043.0 | 6,142.9 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -6,174.4 | -1,043.3 | 6,242.6 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -6,274.4 | -1,043.6 | 6,342.2 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -6,374.3 | -1,043.9 | 6,441.8 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -6,474.3 | -1,044.2 | 6,541.5 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 180.17 | 6,988.2 | -2,307.18 | -6,574.3 | -1,044.5 | 6,641.1 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 180.18 | 6,988.2 | -2,307.18 | -6,674.3 | -1,044.8 | 6,740.7 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 180.18 | 6,988.2 | -2,307.18 | -6,774.3 | -1,045.2 | 6,840.4 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 180.18 | 6,988.2 | -2,307.18 | -6,874.3 | -1,045.5 | 6,940.0 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 180.18 | 6,988.2 | -2,307.18 | -6,974.3 | -1,045.8 | 7,039.6 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 180.18 | 6,988.2 | -2,307.18 | -7,074.3 | -1,046.1 | 7,139.3 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,174.3 | -1,046.4 | 7,238.9 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,274.3 | -1,046.7 | 7,338.5 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-SHERWOOD 1-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-SHERWOOD 1-1-13 | 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) |
| 14,000.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,374.3 | -1,047.0 | 7,438.2 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,474.3 | -1,047.3 | 7,537.8 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,574.3 | -1,047.6 | 7,637.4 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,674.3 | -1,047.9 | 7,737.1 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,774.3 | -1,048.2 | 7,836.7 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 180.18 | 6,988.2 | -2,307.17 | -7,874.3 | -1,048.5 | 7,936.3 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 180.18 | 6,988.2 | -2,307.16 | -7,974.3 | -1,048.8 | 8,036.0 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 180.18 | 6,988.2 | -2,307.16 | -8,074.3 | -1,049.1 | 8,135.6 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 180.18 | 6,988.2 | -2,307.16 | -8,174.3 | -1,049.4 | 8,235.2 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 180.18 | 6,988.2 | -2,307.16 | -8,274.3 | -1,049.8 | 8,334.9 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 180.18 | 6,988.2 | -2,307.16 | -8,374.3 | -1,050.1 | 8,434.5 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 180.18 | 6,988.2 | -2,307.15 | -8,474.3 | -1,050.4 | 8,534.1 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 180.18 | 6,988.2 | -2,307.15 | -8,574.3 | -1,050.7 | 8,633.8 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 180.18 | 6,988.1 | -2,307.15 | -8,674.3 | -1,051.0 | 8,733.4 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 180.18 | 6,988.1 | -2,307.14 | -8,774.3 | -1,051.3 | 8,833.0 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 180.18 | 6,988.1 | -2,307.14 | -8,874.3 | -1,051.6 | 8,932.6 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 180.18 | 6,988.1 | -2,307.14 | -8,974.3 | -1,051.9 | 9,032.3 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 180.18 | 6,988.1 | -2,307.14 | -9,074.3 | -1,052.2 | 9,131.9 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 180.18 | 6,988.1 | -2,307.13 | -9,174.3 | -1,052.5 | 9,231.5 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 180.18 | 6,988.1 | -2,307.13 | -9,274.3 | -1,052.8 | 9,331.2 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 180.18 | 6,988.1 | -2,307.13 | -9,374.3 | -1,053.2 | 9,430.8 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 180.18 | 6,988.1 | -2,307.12 | -9,474.3 | -1,053.5 | 9,530.4 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 180.18 | 6,988.1 | -2,307.12 | -9,574.3 | -1,053.8 | 9,630.1 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 180.18 | 6,988.1 | -2,307.11 | -9,674.3 | -1,054.1 | 9,729.7 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 180.18 | 6,988.1 | -2,307.11 | -9,774.3 | -1,054.4 | 9,829.3 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 180.18 | 6,988.1 | -2,307.11 | -9,874.3 | -1,054.7 | 9,929.0 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 180.18 | 6,988.1 | -2,307.10 | -9,974.3 | -1,055.0 | 10,028.6 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 180.18 | 6,988.1 | -2,307.10 | -10,074.3 | -1,055.3 | 10,128.2 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 180.18 | 6,988.1 | -2,307.09 | -10,174.3 | -1,055.6 | 10,227.9 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 180.18 | 6,988.1 | -2,307.09 | -10,274.3 | -1,056.0 | 10,327.5 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 180.18 | 6,988.1 | -2,307.09 | -10,374.3 | -1,056.3 | 10,427.1 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 180.18 | 6,988.1 | -2,307.08 | -10,474.3 | -1,056.6 | 10,526.8 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 180.18 | 6,988.1 | -2,307.08 | -10,574.3 | -1,056.9 | 10,626.4 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 180.18 | 6,988.1 | -2,307.07 | -10,674.3 | -1,057.2 | 10,726.0 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 180.18 | 6,988.1 | -2,307.07 | -10,774.3 | -1,057.5 | 10,825.7 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 180.18 | 6,988.1 | -2,307.06 | -10,874.3 | -1,057.8 | 10,925.3 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 180.18 | 6,988.1 | -2,307.06 | -10,974.3 | -1,058.1 | 11,024.9 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 180.18 | 6,988.0 | -2,307.05 | -11,074.3 | -1,058.5 | 11,124.6 | 0.00 | 0.00 | 0.00 |
| 17,800.0 | 90.00 | 180.18 | 6,988.0 | -2,307.04 | -11,174.3 | -1,058.8 | 11,224.2 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 180.18 | 6,988.0 | -2,307.04 | -11,274.3 | -1,059.1 | 11,323.8 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 180.18 | 6,988.0 | -2,307.03 | -11,374.3 | -1,059.4 | 11,423.5 | 0.00 | 0.00 | 0.00 |
| 18,100.0 | 90.00 | 180.18 | 6,988.0 | -2,307.03 | -11,474.3 | -1,059.7 | 11,523.1 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 180.18 | 6,988.0 | -2,307.02 | -11,574.3 | -1,060.0 | 11,622.7 | 0.00 | 0.00 | 0.00 |
| 18,300.0 | 90.00 | 180.18 | 6,988.0 | -2,307.01 | -11,674.3 | -1,060.3 | 11,722.4 | 0.00 | 0.00 | 0.00 |
| 18,400.0 | 90.00 | 180.18 | 6,988.0 | -2,307.01 | -11,774.3 | -1,060.7 | 11,822.0 | 0.00 | 0.00 | 0.00 |
| 18,500.0 | 90.00 | 180.18 | 6,988.0 | -2,307.00 | -11,874.3 | -1,061.0 | 11,921.6 | 0.00 | 0.00 | 0.00 |
| BHL - CS-SHERWOOD 1-1-13 (P2) | | | | | | | | | | |
| 18,535.0 | 90.00 | 180.18 | 6,988.0 | -2,307.00 | -11,909.3 | -1,061.1 | 11,956.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------|-------------------------------------|-------------------------------|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-SHERWOOD 1-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4681.0usft (SAV 802) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-SHERWOOD 1-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #2 | | |

| Formations | | | | | | |
|--------------|---------------|----------|-----------|------------|-------------------------|--|
| MD (usft) | TVD (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 3,704.7 | 3,651.0 | PARKMAN | | | | |
| 4,489.0 | 4,416.0 | SUSSEX | | | | |
| 4,936.1 | 4,852.0 | SHANNON | | | | |
| 7,033.4 | 6,858.0 | NIOBRARA | | | | |

| Plan Annotations | | | | |
|------------------|---------------|-------------------|-----------------|----------------------------------|
| MD (usft) | TVD (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,100.0 | 1,100.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) |
| 1,737.2 | 1,732.0 | -15.4 | -68.9 | EOB TO 12.74° INC |
| 1,807.0 | 1,800.0 | -18.7 | -83.9 | 9 5/8" SURFACE CSG |
| 5,859.8 | 5,753.0 | -213.1 | -956.6 | END OF TANGENT |
| 6,497.1 | 6,385.0 | -228.5 | -1,025.5 | EOD TO VERTICAL |
| 6,527.1 | 6,415.0 | -228.5 | -1,025.5 | KOP (10°/100ft BUR) |
| 7,427.1 | 6,988.0 | -801.5 | -1,027.2 | LANDING PNT - CS-SHERWOOD 1-1-13 |
| 18,535.0 | 6,988.0 | -11,909.3 | -1,061.1 | BHL - CS-SHERWOOD 1-1-13 (P2) |