

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

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

CS-KINKADE 3-1-13

ORIGINAL WELLBORE

27 June, 2015

Plan: PROPOSAL #1





Project: WELD COUNTY, COLORADO (NAD 83)
Site: SW SE SEC 36 T6N R66W 6th P.M.
Well: CS-KINKADE 3-1-13
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

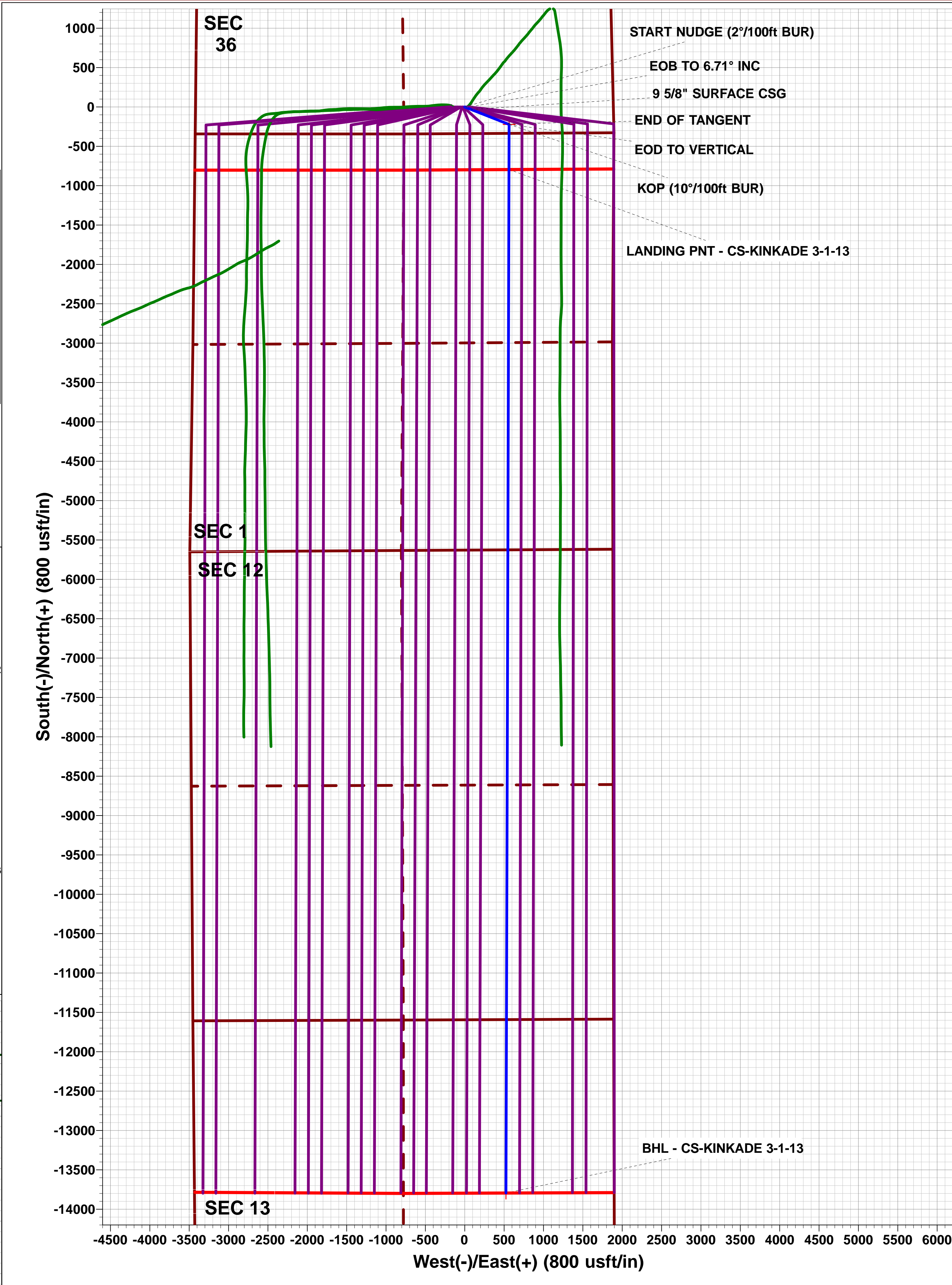
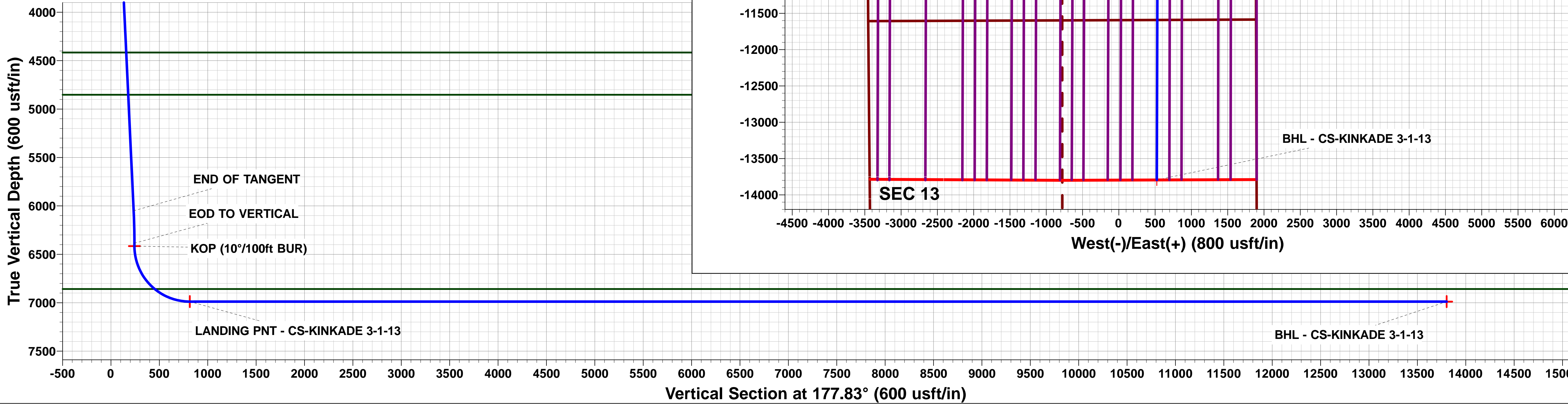
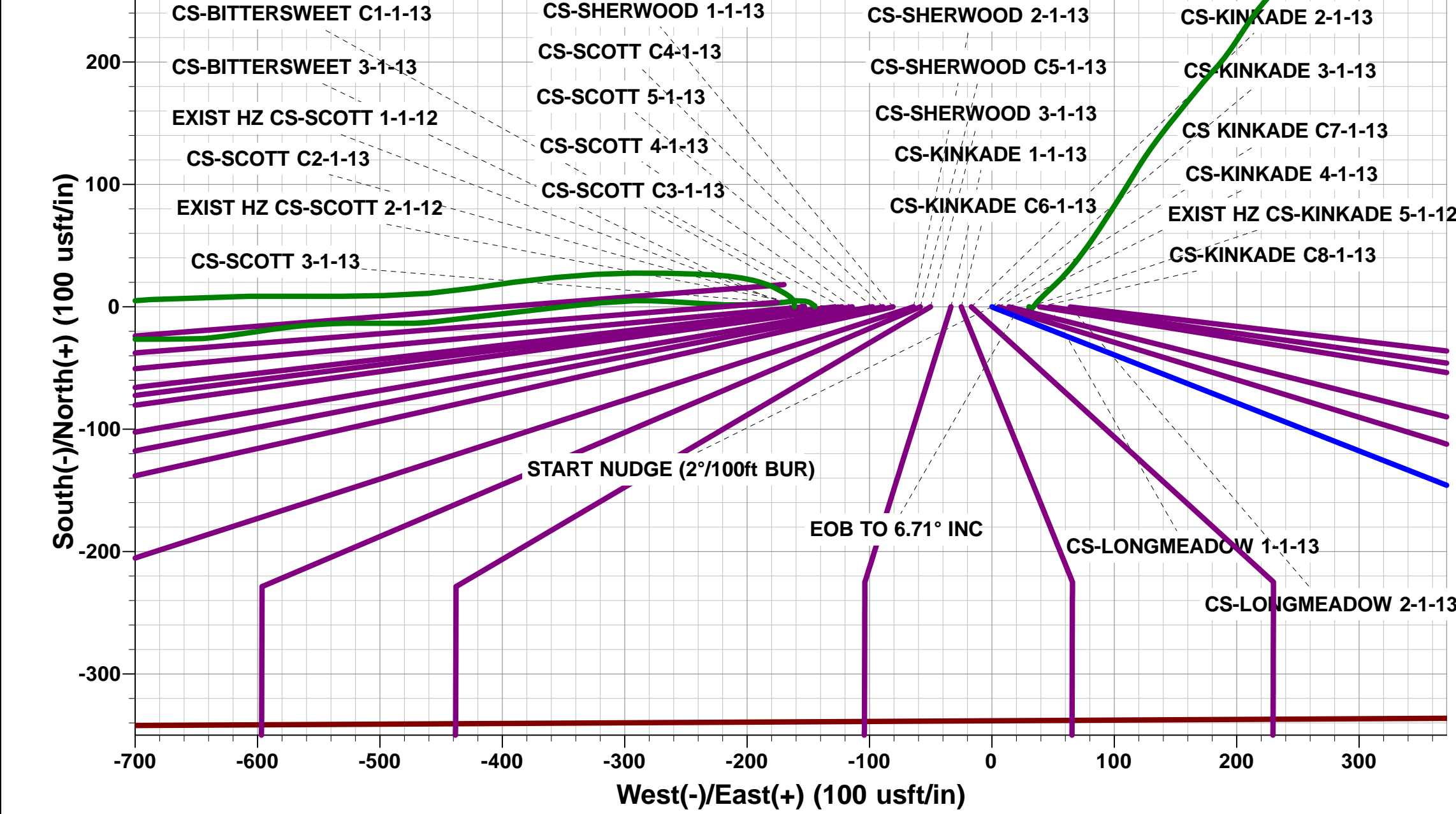
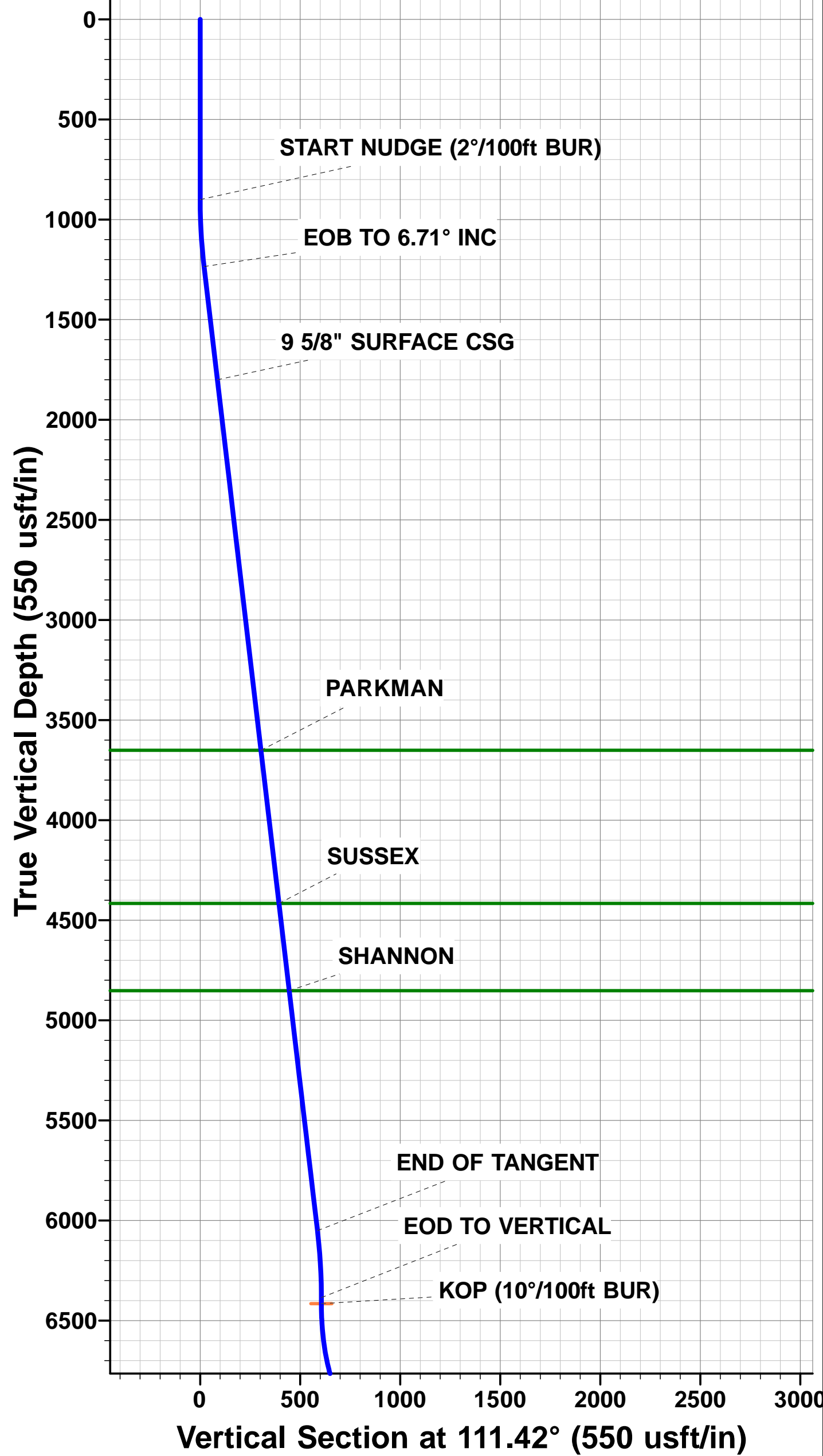
| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSec | Dep | Annotation |
|--------|---------|-------|--------|----------|-------|---------|---------|---------------------------------|
| 900.0 | 900.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) |
| 1234.8 | 1235.5 | 6.71 | 111.42 | -7.2 | 18.3 | 7.9 | 19.6 | EOB TO 6.71° INC |
| 1800.0 | 1804.7 | 6.71 | 111.42 | -31.4 | 80.2 | 34.5 | 86.1 | 9 5/8" SURFACE CSG |
| 6050.2 | 6084.2 | 6.71 | 111.42 | -214.0 | 545.7 | 234.6 | 586.2 | END OF TANGENT |
| 6385.0 | 6419.7 | 0.00 | 0.00 | -221.2 | 564.0 | 242.4 | 605.8 | EOD TO VERTICAL |
| 6415.0 | 6449.7 | 0.00 | 0.00 | -221.2 | 564.0 | 242.4 | 605.8 | KOP (10°/100ft BUR) |
| 6988.0 | 7349.8 | 90.00 | 180.17 | -794.2 | 562.3 | 814.9 | 1178.8 | LANDING PNT - CS-KINKADE 3-1-13 |
| 6988.0 | 20348.5 | 90.00 | 180.17 | -13792.8 | 523.6 | 13802.8 | 14177.5 | BHL - CS-KINKADE 3-1-13 |

PROPOSED LOCAL COORDINATES:

SHL: 339ft FSL & 1888ft FEL Sec 36
LANDING PNT: 460ft FNL & 1331ft FEL Sec 1
BHL: 2200ft FNL & 1374ft FEL Sec 13

WELLBORE TARGET DETAILS (LAT/LONG)

| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|---------------------------------|--------|----------|-------|-----------|-------------|
| KOP - CS-KINKADE 3-1-13 | 6415.0 | -221.2 | 564.0 | 40.437763 | -104.720624 |
| BHL - CS-KINKADE 3-1-13 | 6988.0 | -13792.8 | 523.6 | 40.400510 | -104.720770 |
| LANDING PNT - CS-KINKADE 3-1-13 | 6988.0 | -794.2 | 562.3 | 40.436190 | -104.720630 |



Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-KINKADE 3-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-KINKADE 3-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

| | | | |
|--------------------|--------------------------------|----------------------|-----------------------------|
| 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-KINKADE 3-1-13 | | |
| Well Position | +N-S | 0.0 usft | Northing: |
| | +E-W | 161.5 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 | 23/06/2015 | 8.40 | 66.94 | 52,644 |

| | | | | |
|--------------------------|--------------------------------|--------------------|----------------------|----------------------|
| Design | PROPOSAL #1 | | | |
| 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 | 177.83 |

| 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 | -4,680.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.0 | 0.00 | 0.00 | 900.0 | -3,780.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,235.5 | 6.71 | 111.42 | 1,234.8 | -3,445.2 | -7.2 | 18.3 | 2.00 | 2.00 | 0.00 | 111.42 | |
| 6,084.2 | 6.71 | 111.42 | 6,050.2 | 1,370.2 | -214.0 | 545.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,419.7 | 0.00 | 0.00 | 6,385.0 | 1,705.0 | -221.2 | 564.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,449.7 | 0.00 | 0.00 | 6,415.0 | 1,735.0 | -221.2 | 564.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP - CS-KINKADI |
| 7,349.8 | 90.00 | 180.17 | 6,988.0 | 2,308.0 | -794.2 | 562.3 | 10.00 | 10.00 | -19.98 | 180.17 | LANDING PNT - CS |
| 20,348.5 | 90.00 | 180.17 | 6,988.0 | 2,308.0 | -13,792.8 | 523.6 | 0.00 | 0.00 | 0.00 | 65.10 | BHL - CS-KINKADE |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-KINKADE 3-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-KINKADE 3-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

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 | 4,680.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 4,580.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 4,480.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 4,380.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 4,280.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 4,180.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 4,080.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 3,980.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 3,880.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| START NUDGE (2°/100ft BUR) | | | | | | | | | | |
| 900.0 | 0.00 | 0.00 | 900.0 | 3,780.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 2.00 | 111.42 | 1,000.0 | 3,680.02 | -0.6 | 1.6 | 0.7 | 2.00 | 2.00 | 0.00 |
| 1,100.0 | 4.00 | 111.42 | 1,099.8 | 3,580.16 | -2.5 | 6.5 | 2.8 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 6.00 | 111.42 | 1,199.5 | 3,480.55 | -5.7 | 14.6 | 6.3 | 2.00 | 2.00 | 0.00 |
| EOB TO 6.71° INC | | | | | | | | | | |
| 1,235.5 | 6.71 | 111.42 | 1,234.8 | 3,445.25 | -7.2 | 18.3 | 7.9 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 6.71 | 111.42 | 1,298.8 | 3,381.21 | -9.9 | 25.3 | 10.9 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 6.71 | 111.42 | 1,398.1 | 3,281.89 | -14.2 | 36.2 | 15.5 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 6.71 | 111.42 | 1,497.4 | 3,182.58 | -18.4 | 47.0 | 20.2 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 6.71 | 111.42 | 1,596.7 | 3,083.26 | -22.7 | 57.9 | 24.9 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 6.71 | 111.42 | 1,696.1 | 2,983.95 | -27.0 | 68.8 | 29.6 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 6.71 | 111.42 | 1,795.4 | 2,884.63 | -31.2 | 79.7 | 34.2 | 0.00 | 0.00 | 0.00 |
| 9 5/8" SURFACE CSG | | | | | | | | | | |
| 1,804.7 | 6.71 | 111.42 | 1,800.0 | 2,880.00 | -31.4 | 80.2 | 34.5 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 6.71 | 111.42 | 1,894.7 | 2,785.32 | -35.5 | 90.6 | 38.9 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 6.71 | 111.42 | 1,994.0 | 2,686.00 | -39.8 | 101.4 | 43.6 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 6.71 | 111.42 | 2,093.3 | 2,586.69 | -44.0 | 112.3 | 48.3 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 6.71 | 111.42 | 2,192.6 | 2,487.37 | -48.3 | 123.2 | 53.0 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 6.71 | 111.42 | 2,291.9 | 2,388.06 | -52.6 | 134.1 | 57.6 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 6.71 | 111.42 | 2,391.3 | 2,288.74 | -56.8 | 144.9 | 62.3 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 6.71 | 111.42 | 2,490.6 | 2,189.43 | -61.1 | 155.8 | 67.0 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 6.71 | 111.42 | 2,589.9 | 2,090.11 | -65.4 | 166.7 | 71.7 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 6.71 | 111.42 | 2,689.2 | 1,990.80 | -69.6 | 177.6 | 76.3 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 6.71 | 111.42 | 2,788.5 | 1,891.48 | -73.9 | 188.5 | 81.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 6.71 | 111.42 | 2,887.8 | 1,792.17 | -78.2 | 199.3 | 85.7 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 6.71 | 111.42 | 2,987.1 | 1,692.85 | -82.4 | 210.2 | 90.4 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 6.71 | 111.42 | 3,086.5 | 1,593.54 | -86.7 | 221.1 | 95.0 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 6.71 | 111.42 | 3,185.8 | 1,494.22 | -91.0 | 232.0 | 99.7 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 6.71 | 111.42 | 3,285.1 | 1,394.91 | -95.2 | 242.9 | 104.4 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 6.71 | 111.42 | 3,384.4 | 1,295.59 | -99.5 | 253.7 | 109.1 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 6.71 | 111.42 | 3,483.7 | 1,196.28 | -103.8 | 264.6 | 113.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 6.71 | 111.42 | 3,583.0 | 1,096.96 | -108.0 | 275.5 | 118.4 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | | |
| 3,668.4 | 6.71 | 111.42 | 3,651.0 | 1,029.00 | -111.0 | 282.9 | 121.6 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 6.71 | 111.42 | 3,682.4 | 997.65 | -112.3 | 286.4 | 123.1 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 6.71 | 111.42 | 3,781.7 | 898.33 | -116.6 | 297.2 | 127.8 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 6.71 | 111.42 | 3,881.0 | 799.02 | -120.8 | 308.1 | 132.4 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 6.71 | 111.42 | 3,980.3 | 699.70 | -125.1 | 319.0 | 137.1 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 6.71 | 111.42 | 4,079.6 | 600.39 | -129.4 | 329.9 | 141.8 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 6.71 | 111.42 | 4,178.9 | 501.07 | -133.6 | 340.8 | 146.5 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 6.71 | 111.42 | 4,278.2 | 401.76 | -137.9 | 351.6 | 151.2 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 6.71 | 111.42 | 4,377.6 | 302.44 | -142.2 | 362.5 | 155.8 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | | |
| 4,438.7 | 6.71 | 111.42 | 4,416.0 | 264.00 | -143.8 | 366.7 | 157.6 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-KINKADE 3-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-KINKADE 3-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

| 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 | 6.71 | 111.42 | 4,476.9 | 203.13 | -146.4 | 373.4 | 160.5 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 6.71 | 111.42 | 4,576.2 | 103.81 | -150.7 | 384.3 | 165.2 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 6.71 | 111.42 | 4,675.5 | 4.50 | -155.0 | 395.1 | 169.9 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 6.71 | 111.42 | 4,774.8 | -94.81 | -159.2 | 406.0 | 174.5 | 0.00 | 0.00 | 0.00 |
| SHANNON | | | | | | | | | | |
| 4,877.7 | 6.71 | 111.42 | 4,852.0 | -172.00 | -162.6 | 414.5 | 178.2 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 6.71 | 111.42 | 4,874.1 | -194.13 | -163.5 | 416.9 | 179.2 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 6.71 | 111.42 | 4,973.4 | -293.44 | -167.8 | 427.8 | 183.9 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 6.71 | 111.42 | 5,072.8 | -392.76 | -172.0 | 438.7 | 188.6 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 6.71 | 111.42 | 5,172.1 | -492.07 | -176.3 | 449.5 | 193.2 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 6.71 | 111.42 | 5,271.4 | -591.39 | -180.6 | 460.4 | 197.9 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 6.71 | 111.42 | 5,370.7 | -690.70 | -184.8 | 471.3 | 202.6 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 6.71 | 111.42 | 5,470.0 | -790.02 | -189.1 | 482.2 | 207.3 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 6.71 | 111.42 | 5,569.3 | -889.33 | -193.4 | 493.1 | 211.9 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 6.71 | 111.42 | 5,668.6 | -988.65 | -197.6 | 503.9 | 216.6 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 6.71 | 111.42 | 5,768.0 | -1,087.96 | -201.9 | 514.8 | 221.3 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 6.71 | 111.42 | 5,867.3 | -1,187.28 | -206.2 | 525.7 | 226.0 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 6.71 | 111.42 | 5,966.6 | -1,286.59 | -210.4 | 536.6 | 230.6 | 0.00 | 0.00 | 0.00 |
| END OF TANGENT | | | | | | | | | | |
| 6,084.2 | 6.71 | 111.42 | 6,050.2 | -1,370.25 | -214.0 | 545.7 | 234.6 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 6.39 | 111.42 | 6,065.9 | -1,385.91 | -214.7 | 547.4 | 235.3 | 2.00 | -2.00 | 0.00 |
| 6,200.0 | 4.39 | 111.42 | 6,165.5 | -1,485.47 | -218.1 | 556.2 | 239.1 | 2.00 | -2.00 | 0.00 |
| 6,300.0 | 2.39 | 111.42 | 6,265.3 | -1,585.29 | -220.3 | 561.7 | 241.4 | 2.00 | -2.00 | 0.00 |
| 6,400.0 | 0.39 | 111.42 | 6,365.3 | -1,685.25 | -221.2 | 563.9 | 242.4 | 2.00 | -2.00 | 0.00 |
| EOD TO VERTICAL | | | | | | | | | | |
| 6,419.7 | 0.00 | 0.00 | 6,385.0 | -1,705.00 | -221.2 | 564.0 | 242.4 | 2.00 | -2.00 | 0.00 |
| KOP (10°/100ft BUR) | | | | | | | | | | |
| 6,449.7 | 0.00 | 0.00 | 6,415.0 | -1,735.00 | -221.2 | 564.0 | 242.4 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 5.02 | 180.17 | 6,465.2 | -1,785.19 | -223.4 | 564.0 | 244.6 | 10.00 | 10.00 | 0.00 |
| 6,600.0 | 15.02 | 180.17 | 6,563.5 | -1,883.53 | -240.8 | 563.9 | 262.0 | 10.00 | 10.00 | 0.00 |
| 6,700.0 | 25.02 | 180.17 | 6,657.4 | -1,977.37 | -275.0 | 563.8 | 296.2 | 10.00 | 10.00 | 0.00 |
| 6,800.0 | 35.02 | 180.17 | 6,743.8 | -2,063.84 | -325.0 | 563.7 | 346.1 | 10.00 | 10.00 | 0.00 |
| 6,900.0 | 45.02 | 180.17 | 6,820.3 | -2,140.33 | -389.2 | 563.5 | 410.3 | 10.00 | 10.00 | 0.00 |
| NIORARA | | | | | | | | | | |
| 6,956.1 | 50.64 | 180.17 | 6,858.0 | -2,178.00 | -430.8 | 563.4 | 451.8 | 10.00 | 10.00 | 0.00 |
| 7,000.0 | 55.02 | 180.17 | 6,884.5 | -2,204.49 | -465.7 | 563.3 | 486.7 | 10.00 | 10.00 | 0.00 |
| 7,100.0 | 65.02 | 180.17 | 6,934.4 | -2,254.40 | -552.2 | 563.0 | 573.2 | 10.00 | 10.00 | 0.00 |
| 7,200.0 | 75.02 | 180.17 | 6,968.5 | -2,288.53 | -646.1 | 562.7 | 667.0 | 10.00 | 10.00 | 0.00 |
| 7,300.0 | 85.02 | 180.17 | 6,985.8 | -2,305.84 | -744.4 | 562.5 | 765.2 | 10.00 | 10.00 | 0.00 |
| LANDING PNT - CS-KINKADE 3-1-13 | | | | | | | | | | |
| 7,349.8 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -794.2 | 562.3 | 814.9 | 10.00 | 10.00 | 0.00 |
| 7,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -844.4 | 562.2 | 865.1 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -944.4 | 561.9 | 965.0 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -1,044.4 | 561.6 | 1,064.9 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -1,144.4 | 561.3 | 1,164.8 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,244.4 | 561.0 | 1,264.8 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,344.4 | 560.7 | 1,364.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,444.4 | 560.4 | 1,464.6 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,544.4 | 560.1 | 1,564.5 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,644.4 | 559.8 | 1,664.4 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,744.4 | 559.5 | 1,764.3 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,844.4 | 559.2 | 1,864.3 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -1,944.4 | 558.9 | 1,964.2 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-KINKADE 3-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-KINKADE 3-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

| 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 | 6,988.0 | -2,308.02 | -2,044.4 | 558.6 | 2,064.1 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,144.4 | 558.3 | 2,164.0 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,244.4 | 558.0 | 2,263.9 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,344.4 | 557.7 | 2,363.8 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,444.4 | 557.4 | 2,463.8 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,544.4 | 557.1 | 2,563.7 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,644.4 | 556.9 | 2,663.6 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,744.4 | 556.6 | 2,763.5 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -2,844.4 | 556.3 | 2,863.4 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -2,944.4 | 556.0 | 2,963.3 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,044.4 | 555.7 | 3,063.3 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,144.4 | 555.4 | 3,163.2 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,244.4 | 555.1 | 3,263.1 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,344.4 | 554.8 | 3,363.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,444.4 | 554.5 | 3,462.9 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,544.4 | 554.2 | 3,562.8 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,644.4 | 553.9 | 3,662.8 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,744.4 | 553.6 | 3,762.7 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,844.4 | 553.3 | 3,862.6 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -3,944.4 | 553.0 | 3,962.5 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -4,044.4 | 552.7 | 4,062.4 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,144.4 | 552.4 | 4,162.3 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,244.4 | 552.1 | 4,262.3 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,344.4 | 551.8 | 4,362.2 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,444.4 | 551.5 | 4,462.1 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,544.4 | 551.2 | 4,562.0 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,644.4 | 550.9 | 4,661.9 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,744.4 | 550.6 | 4,761.8 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,844.4 | 550.3 | 4,861.8 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -4,944.4 | 550.0 | 4,961.7 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,044.4 | 549.7 | 5,061.6 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,144.4 | 549.5 | 5,161.5 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,244.4 | 549.2 | 5,261.4 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,344.4 | 548.9 | 5,361.3 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,444.4 | 548.6 | 5,461.3 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,544.4 | 548.3 | 5,561.2 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,644.4 | 548.0 | 5,661.1 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,744.4 | 547.7 | 5,761.0 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,844.4 | 547.4 | 5,860.9 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -5,944.4 | 547.1 | 5,960.8 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -6,044.4 | 546.8 | 6,060.8 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -6,144.4 | 546.5 | 6,160.7 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,244.4 | 546.2 | 6,260.6 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,344.4 | 545.9 | 6,360.5 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,444.4 | 545.6 | 6,460.4 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,544.4 | 545.3 | 6,560.3 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,644.4 | 545.0 | 6,660.2 | 0.00 | 0.00 | 0.00 |
| 13,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,744.4 | 544.7 | 6,760.2 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,844.4 | 544.4 | 6,860.1 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -6,944.4 | 544.1 | 6,960.0 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,044.4 | 543.8 | 7,059.9 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,144.4 | 543.5 | 7,159.8 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,244.4 | 543.2 | 7,259.7 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,344.4 | 542.9 | 7,359.7 | 0.00 | 0.00 | 0.00 |

Planning Report



| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-KINKADE 3-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-KINKADE 3-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

| 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 | 180.17 | 6,988.0 | -2,308.05 | -7,444.4 | 542.6 | 7,459.6 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,544.4 | 542.3 | 7,559.5 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,644.4 | 542.0 | 7,659.4 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,744.4 | 541.7 | 7,759.3 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,844.4 | 541.4 | 7,859.2 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -7,944.4 | 541.1 | 7,959.2 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -8,044.4 | 540.8 | 8,059.1 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -8,144.3 | 540.5 | 8,159.0 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -8,244.3 | 540.2 | 8,258.9 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.05 | -8,344.3 | 539.9 | 8,358.8 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -8,444.3 | 539.6 | 8,458.7 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -8,544.3 | 539.3 | 8,558.7 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -8,644.3 | 539.0 | 8,658.6 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -8,744.3 | 538.7 | 8,758.5 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -8,844.3 | 538.4 | 8,858.4 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -8,944.3 | 538.1 | 8,958.3 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,044.3 | 537.8 | 9,058.2 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,144.3 | 537.5 | 9,158.2 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,244.3 | 537.2 | 9,258.1 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,344.3 | 536.9 | 9,358.0 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,444.3 | 536.6 | 9,457.9 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,544.3 | 536.4 | 9,557.8 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,644.3 | 536.1 | 9,657.7 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,744.3 | 535.8 | 9,757.7 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,844.3 | 535.5 | 9,857.6 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -9,944.3 | 535.2 | 9,957.5 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -10,044.3 | 534.9 | 10,057.4 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -10,144.3 | 534.6 | 10,157.3 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -10,244.3 | 534.3 | 10,257.2 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -10,344.3 | 534.0 | 10,357.1 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.04 | -10,444.3 | 533.7 | 10,457.1 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -10,544.3 | 533.4 | 10,557.0 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -10,644.3 | 533.1 | 10,656.9 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -10,744.3 | 532.8 | 10,756.8 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -10,844.3 | 532.5 | 10,856.7 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -10,944.3 | 532.2 | 10,956.6 | 0.00 | 0.00 | 0.00 |
| 17,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,044.3 | 531.9 | 11,056.6 | 0.00 | 0.00 | 0.00 |
| 17,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,144.3 | 531.6 | 11,156.5 | 0.00 | 0.00 | 0.00 |
| 17,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,244.3 | 531.3 | 11,256.4 | 0.00 | 0.00 | 0.00 |
| 17,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,344.3 | 531.0 | 11,356.3 | 0.00 | 0.00 | 0.00 |
| 18,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,444.3 | 530.7 | 11,456.2 | 0.00 | 0.00 | 0.00 |
| 18,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,544.3 | 530.4 | 11,556.1 | 0.00 | 0.00 | 0.00 |
| 18,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.03 | -11,644.3 | 530.1 | 11,656.1 | 0.00 | 0.00 | 0.00 |
| 18,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -11,744.3 | 529.8 | 11,756.0 | 0.00 | 0.00 | 0.00 |
| 18,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -11,844.3 | 529.5 | 11,855.9 | 0.00 | 0.00 | 0.00 |
| 18,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -11,944.3 | 529.2 | 11,955.8 | 0.00 | 0.00 | 0.00 |
| 18,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -12,044.3 | 528.9 | 12,055.7 | 0.00 | 0.00 | 0.00 |
| 18,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -12,144.3 | 528.6 | 12,155.6 | 0.00 | 0.00 | 0.00 |
| 18,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -12,244.3 | 528.3 | 12,255.6 | 0.00 | 0.00 | 0.00 |
| 18,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -12,344.3 | 528.0 | 12,355.5 | 0.00 | 0.00 | 0.00 |
| 19,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -12,444.3 | 527.7 | 12,455.4 | 0.00 | 0.00 | 0.00 |
| 19,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.02 | -12,544.3 | 527.4 | 12,555.3 | 0.00 | 0.00 | 0.00 |
| 19,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -12,644.3 | 527.1 | 12,655.2 | 0.00 | 0.00 | 0.00 |
| 19,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -12,744.3 | 526.8 | 12,755.1 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|--------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well CS-KINKADE 3-1-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4680.0usft (Original Well Elev) |
| Site: | SW SE SEC 36 T6N R66W 6th P.M. | North Reference: | True |
| Well: | CS-KINKADE 3-1-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

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) |
|--------------------------------|--------------|---------------|----------------|------------------|------------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 19,400.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -12,844.3 | 526.5 | 12,855.1 | 0.00 | 0.00 | 0.00 |
| 19,500.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -12,944.3 | 526.2 | 12,955.0 | 0.00 | 0.00 | 0.00 |
| 19,600.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -13,044.3 | 525.9 | 13,054.9 | 0.00 | 0.00 | 0.00 |
| 19,700.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -13,144.3 | 525.6 | 13,154.8 | 0.00 | 0.00 | 0.00 |
| 19,800.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -13,244.3 | 525.3 | 13,254.7 | 0.00 | 0.00 | 0.00 |
| 19,900.0 | 90.00 | 180.17 | 6,988.0 | -2,308.01 | -13,344.3 | 525.0 | 13,354.6 | 0.00 | 0.00 | 0.00 |
| 20,000.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -13,444.3 | 524.7 | 13,454.6 | 0.00 | 0.00 | 0.00 |
| 20,100.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -13,544.3 | 524.4 | 13,554.5 | 0.00 | 0.00 | 0.00 |
| 20,200.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -13,644.3 | 524.1 | 13,654.4 | 0.00 | 0.00 | 0.00 |
| 20,300.0 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -13,744.3 | 523.8 | 13,754.3 | 0.00 | 0.00 | 0.00 |
| BHL - CS-KINKADE 3-1-13 | | | | | | | | | | |
| 20,348.5 | 90.00 | 180.17 | 6,988.0 | -2,308.00 | -13,792.8 | 523.6 | 13,802.8 | 0.00 | 0.00 | 0.00 |

Formations

| MD (usft) | TVD (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|--------------|---------------|----------|-----------|------------|-------------------------|
| 3,668.4 | 3,651.0 | PARKMAN | | | |
| 4,438.7 | 4,416.0 | SUSSEX | | | |
| 4,877.7 | 4,852.0 | SHANNON | | | |
| 6,956.1 | 6,858.0 | NIOBRARA | | | |

Plan Annotations

| MD (usft) | TVD (usft) | Local Coordinates | | Comment |
|--------------|---------------|-------------------|-----------------|---------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 900.0 | 900.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) |
| 1,235.5 | 1,234.8 | -7.2 | 18.3 | EOB TO 6.71° INC |
| 1,804.7 | 1,800.0 | -31.4 | 80.2 | 9 5/8" SURFACE CSG |
| 6,084.2 | 6,050.2 | -214.0 | 545.7 | END OF TANGENT |
| 6,419.7 | 6,385.0 | -221.2 | 564.0 | EOD TO VERTICAL |
| 6,449.7 | 6,415.0 | -221.2 | 564.0 | KOP (10°/100ft BUR) |
| 7,349.8 | 6,988.0 | -794.2 | 562.3 | LANDING PNT - CS-KINKADE 3-1-13 |
| 20,348.5 | 6,988.0 | -13,792.8 | 523.6 | BHL - CS-KINKADE 3-1-13 |