

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

NE NE SEC. 20 T5N R65W 6th P.M.

GP-JACKSON 1-17-13

ORIGINAL WELLBORE

11 May, 2016

Plan: PROPOSAL #1





Project: WELD COUNTY, COLORADO (NAD 83)
 Site: NE NE SEC. 20 T5N R65W 6th P.M.
 Well: GP-JACKSON 1-17-13
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1

ANNOTATIONS

| TVD | MD | Inc | Azi | +N/-S | +E/-W | Vsect | Dep | Annotation |
|--------|---------|-------|--------|--------|----------|---------|---------|---|
| 1350.0 | 1350.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | SURFACE NUDGE (2"/100ft BUR) |
| 1600.0 | 1600.3 | 5.01 | 327.67 | 9.2 | -5.8 | 7.7 | 10.9 | 9 5/8" SURFACE CASING |
| 1699.6 | 1700.3 | 5.01 | 327.67 | 16.6 | -10.5 | 13.9 | 19.7 | MAIN NUDGE (2"/100ft BUR) |
| 3008.7 | 3098.6 | 32.97 | 327.67 | 397.2 | -251.4 | 331.4 | 470.1 | EOB TO 32.97° INC |
| 6538.8 | 7306.4 | 32.97 | 327.67 | 2332.2 | -1476.3 | 1945.6 | 2760.1 | KOP (10"/100ft DGLG) |
| 6895.0 | 8037.2 | 90.00 | 270.00 | 2527.4 | -2024.4 | 2523.0 | 3362.1 | HZ LANDING PNT *NEW* - GP-JACKSON 1-17-13 |
| 6895.0 | 8360.5 | 90.00 | 260.30 | 2500.1 | -2346.2 | 2831.2 | 3685.5 | EOT TO 260.3° AZ |
| 6895.0 | 8410.5 | 90.00 | 260.30 | 2491.7 | -2395.5 | 2877.5 | 3735.5 | END OF TANGENT |
| 6895.0 | 8751.5 | 90.00 | 270.53 | 2464.4 | -2735.0 | 3203.1 | 4076.5 | EOT TO 270.53° AZ |
| 6895.0 | 17512.0 | 90.00 | 270.53 | 2545.6 | -11495.0 | 11773.5 | 12836.9 | BHL - GP-JACKSON 1-17-13 |

WELLBORE TARGET DETAILS (LAT/LONG)

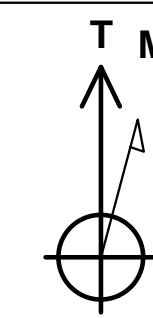
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
|---|--------|--------|----------|-----------|-------------|
| HZ LANDING PNT *NEW* - GP-JACKSON 1-17-13 | 6895.0 | 2527.4 | -2024.4 | 40.397487 | -104.689778 |
| BHL - GP-JACKSON 1-17-13 | 6895.0 | 2545.6 | -11495.0 | 40.397530 | -104.723780 |

FORMATION TOP DETAILS

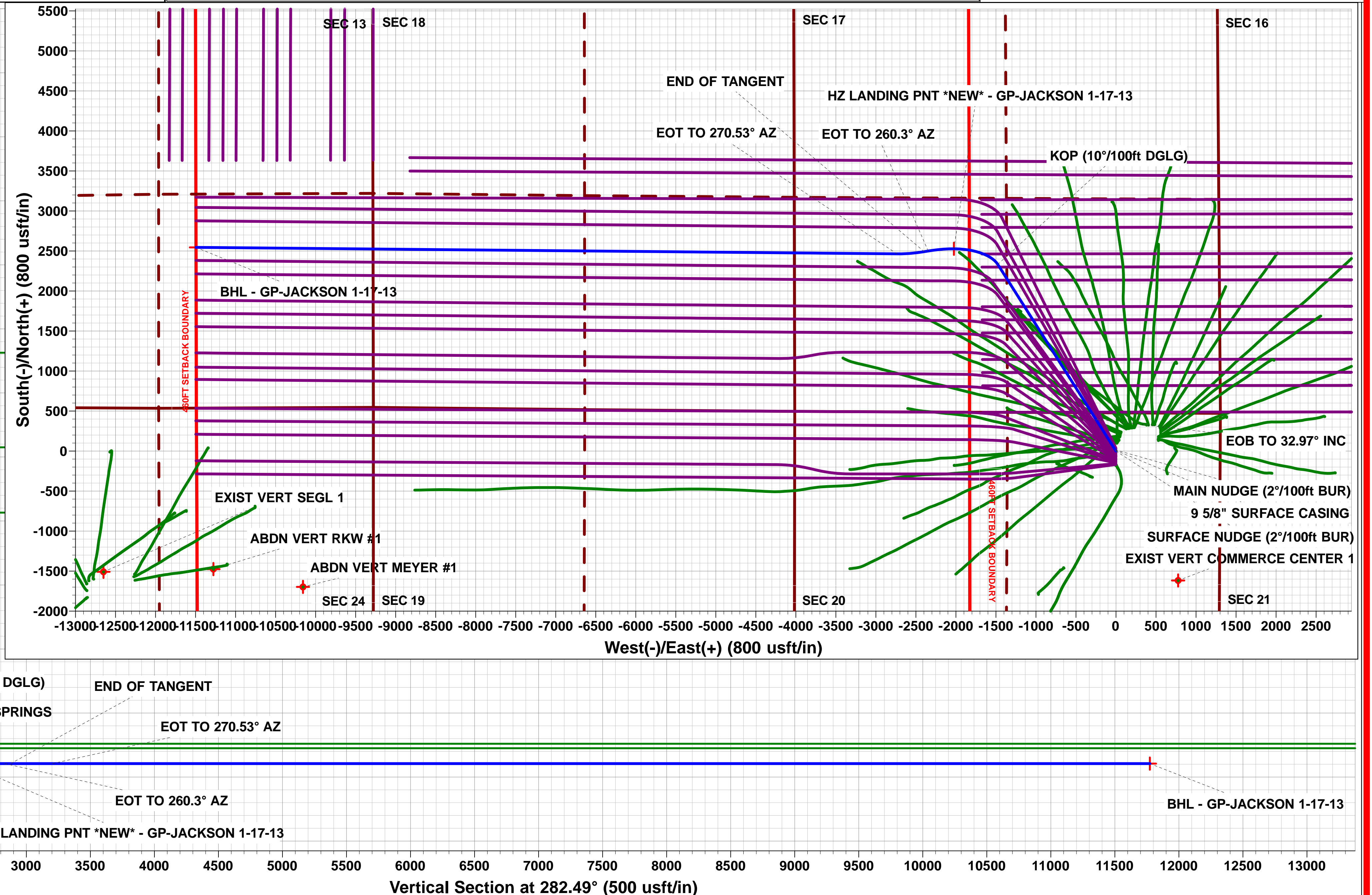
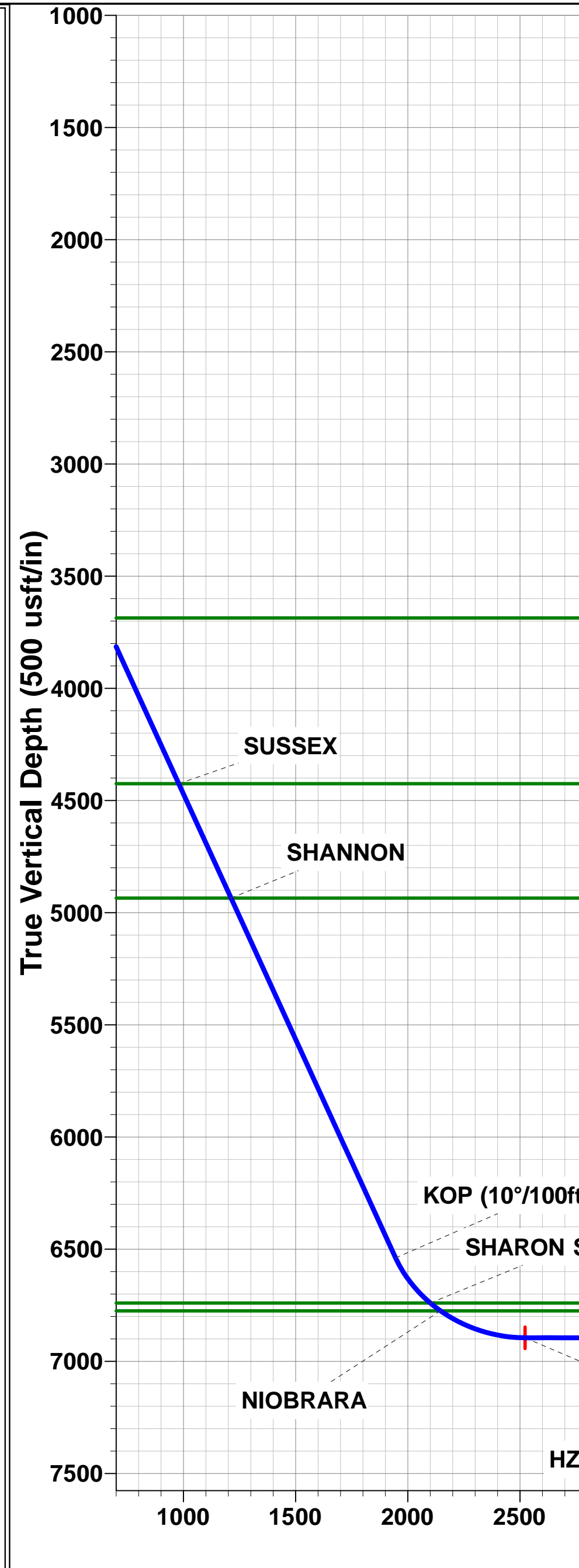
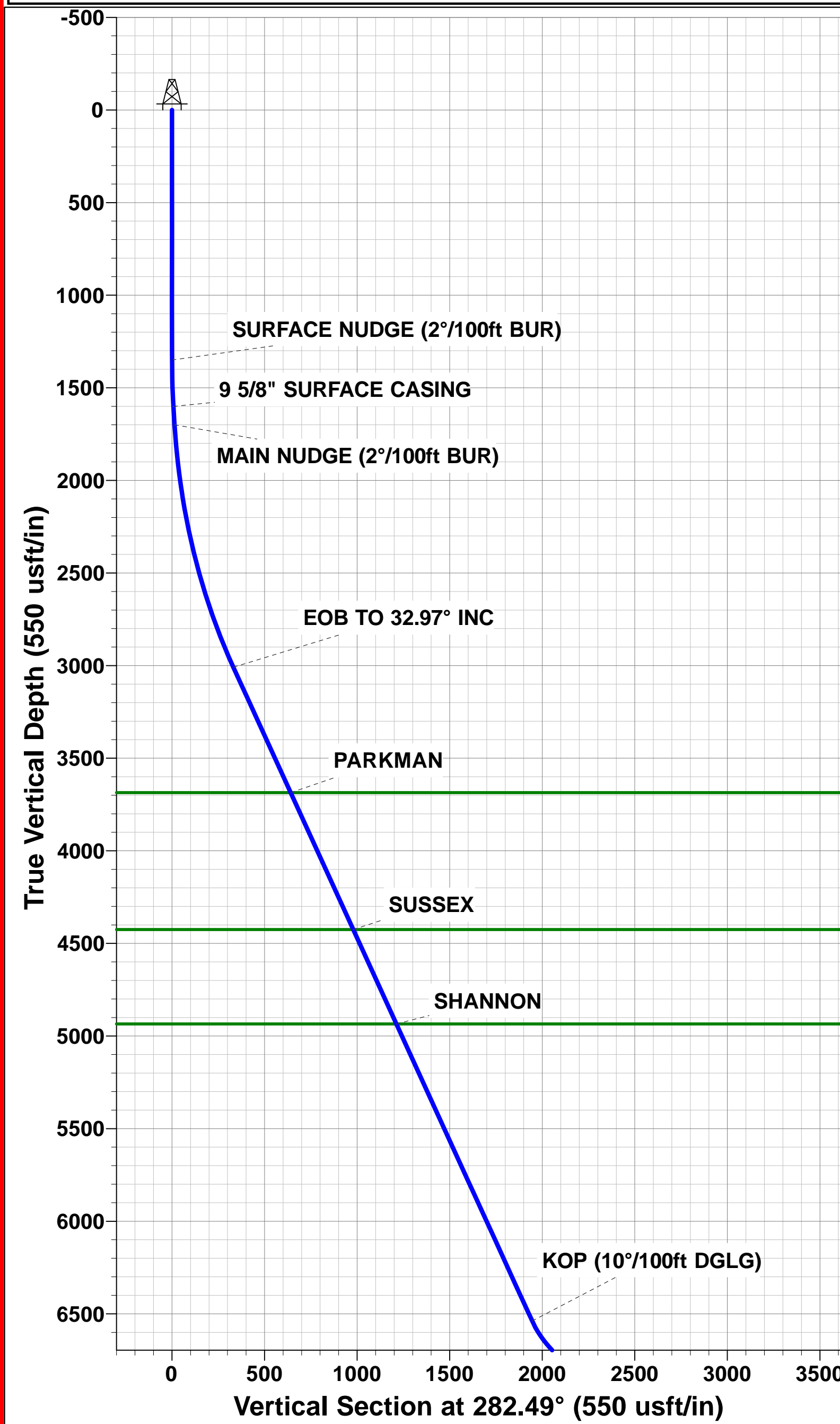
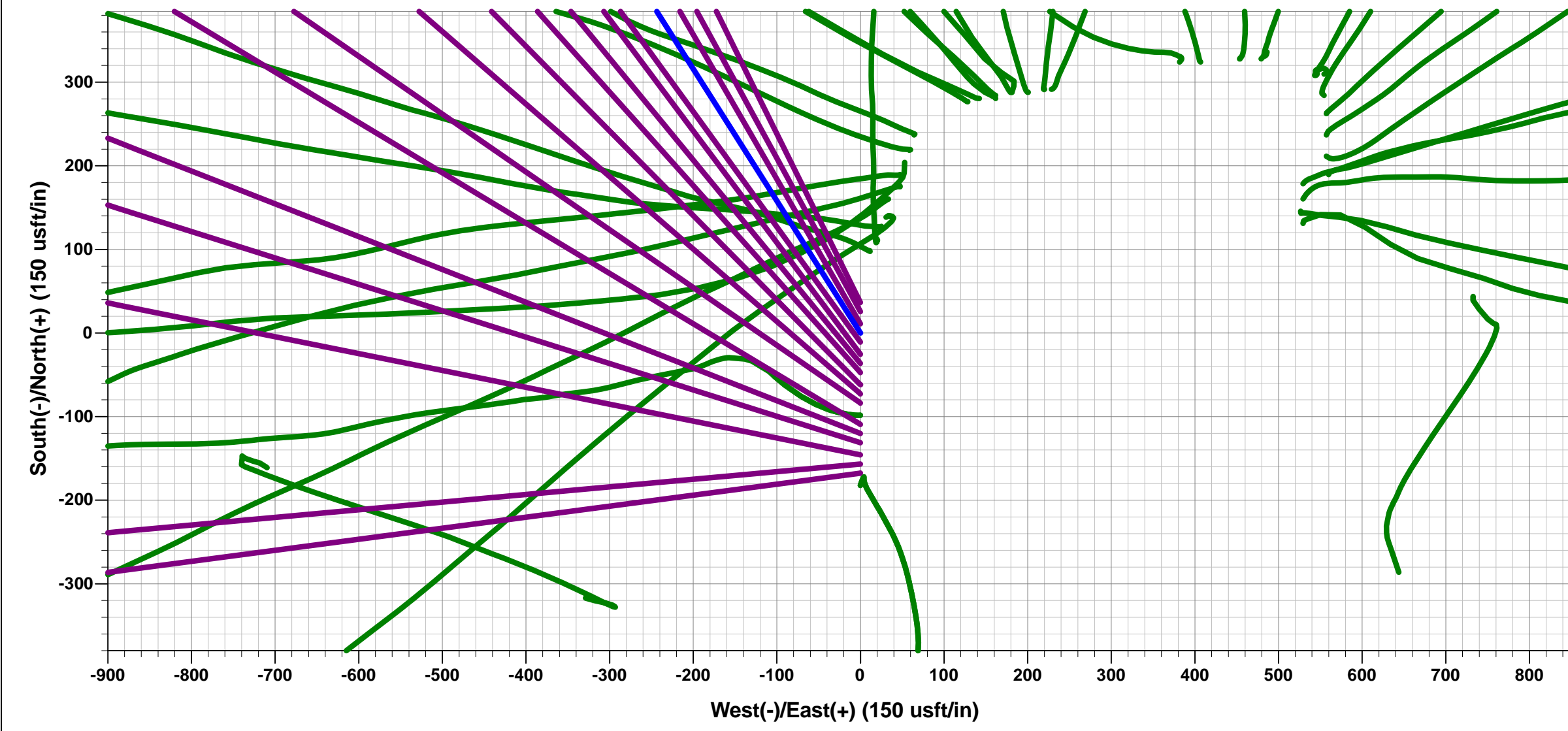
| TVDPath | MDPath | Formation |
|---------|--------|----------------|
| 3686.0 | 3905.9 | PARKMAN |
| 4425.0 | 4786.8 | SUSSEX |
| 4935.0 | 5394.7 | SHANNON |
| 6740.0 | 7574.7 | SHARON SPRINGS |
| 6775.0 | 7632.8 | NIOBRARA |

PROPOSED LOCAL COORDINATES

SHL: 477ft FNL & 1305ft FEL of Sec 20
 LP *NEW*: 2169ft FSL & 1990ft FWL of Sec 17
 BHL: 2010ft FSL & 2216ft FEL of Sec 13



Azimuths to True North
 Magnetic North: 8.28°
 Magnetic Field
 Strength: 52522.8snT
 Dip Angle: 66.89°
 Date: 11/05/2016
 Model: IGRF2015





| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well GP-JACKSON 1-17-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Site: | NE NE SEC. 20 T5N R65W 6th P.M. | North Reference: | True |
| Well: | GP-JACKSON 1-17-13 | 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 | NE NE SEC. 20 T5N R65W 6th P.M. | | | | |
| Site Position: | | Northing: | 1,386,203.84 usft | Latitude: | 40.390650 |
| From: | Lat/Long | Easting: | 3,227,707.61 usft | Longitude: | -104.682510 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 1.10000ft | Grid Convergence: | 0.53 ° |

| | | | | | | |
|-----------------------------|--------------------|------------|----------------------------|-------------------|----------------------|--------------|
| Well | GP-JACKSON 1-17-13 | | | | | |
| Well Position | +N/-S | -36.4 usft | Northing: | 1,386,167.40 usft | Latitude: | 40.390550 |
| | +E/-W | 0.0 usft | Easting: | 3,227,707.94 usft | Longitude: | -104.682510 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | usft | Ground Level: | 4,674.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | ORIGINAL WELLBORE | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 11/05/2016 | 8.28 | 66.89 | 52,523 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| 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 (°) |
| | 6,895.0 | 0.0 | 0.0 | 282.49 |

| Plan Sections | | | | | | | | | | | |
|----------------------|---------|---------|----------------|-----------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-----------------|
| MD (usft) | Inc (°) | Azi (°) | Vertical Depth | SS (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | -4,690.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,350.0 | 0.00 | 0.00 | 1,350.0 | -3,340.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,600.3 | 5.01 | 327.67 | 1,600.0 | -3,090.0 | 9.2 | -5.8 | 2.00 | 2.00 | 0.00 | 327.67 | |
| 1,700.3 | 5.01 | 327.67 | 1,699.6 | -2,990.4 | 16.6 | -10.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3,098.6 | 32.97 | 327.67 | 3,008.7 | -1,681.3 | 397.2 | -251.4 | 2.00 | 2.00 | 0.00 | 0.00 | |
| 7,306.4 | 32.97 | 327.67 | 6,538.8 | 1,848.8 | 2,332.2 | -1,476.3 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,037.2 | 90.00 | 270.00 | 6,895.0 | 2,205.0 | 2,527.4 | -2,024.4 | 10.00 | 7.80 | -7.89 | -62.03 | HZ LANDING PNT |
| 8,360.5 | 90.00 | 260.30 | 6,895.0 | 2,205.0 | 2,500.1 | -2,346.2 | 3.00 | 0.00 | -3.00 | 270.00 | |
| 8,410.5 | 90.00 | 260.30 | 6,895.0 | 2,205.0 | 2,491.7 | -2,395.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,751.5 | 90.00 | 270.53 | 6,895.0 | 2,205.0 | 2,464.4 | -2,735.0 | 3.00 | 0.00 | 3.00 | 90.00 | |
| 17,512.0 | 90.00 | 270.53 | 6,895.0 | 2,205.0 | 2,545.6 | -11,495.0 | 0.00 | 0.00 | 0.00 | 0.00 | BHL - GP-JACKSO |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well GP-JACKSON 1-17-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Site: | NE NE SEC. 20 T5N R65W 6th P.M. | North Reference: | True |
| Well: | GP-JACKSON 1-17-13 | 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 | 4,690.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 4,590.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 4,490.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 4,390.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 4,290.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 4,190.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 4,090.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 3,990.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 3,890.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 900.0 | 0.00 | 0.00 | 900.0 | 3,790.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 0.00 | 0.00 | 1,000.0 | 3,690.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,100.0 | 0.00 | 0.00 | 1,100.0 | 3,590.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,200.0 | 0.00 | 0.00 | 1,200.0 | 3,490.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 3,390.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| SURFACE NUDGE (2°/100ft BUR) | | | | | | | | | | |
| 1,350.0 | 0.00 | 0.00 | 1,350.0 | 3,340.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 1.00 | 327.67 | 1,400.0 | 3,290.00 | 0.4 | -0.2 | 0.3 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 3.00 | 327.67 | 1,499.9 | 3,190.07 | 3.3 | -2.1 | 2.8 | 2.00 | 2.00 | 0.00 |
| 1,600.0 | 5.00 | 327.67 | 1,599.7 | 3,090.32 | 9.2 | -5.8 | 7.7 | 2.00 | 2.00 | 0.00 |
| 9 5/8" SURFACE CASING | | | | | | | | | | |
| 1,600.3 | 5.01 | 327.67 | 1,600.0 | 3,090.00 | 9.2 | -5.8 | 7.7 | 2.00 | 2.00 | 0.00 |
| 1,700.0 | 5.01 | 327.67 | 1,699.3 | 2,990.70 | 16.6 | -10.5 | 13.8 | 0.00 | 0.00 | 0.00 |
| MAIN NUDGE (2°/100ft BUR) | | | | | | | | | | |
| 1,700.3 | 5.01 | 327.67 | 1,699.6 | 2,990.38 | 16.6 | -10.5 | 13.9 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 7.00 | 327.67 | 1,798.7 | 2,891.25 | 25.4 | -16.1 | 21.2 | 2.00 | 2.00 | 0.00 |
| 1,900.0 | 9.00 | 327.67 | 1,897.8 | 2,792.23 | 37.2 | -23.5 | 31.0 | 2.00 | 2.00 | 0.00 |
| 2,000.0 | 11.00 | 327.67 | 1,996.2 | 2,693.75 | 51.8 | -32.8 | 43.3 | 2.00 | 2.00 | 0.00 |
| 2,100.0 | 13.00 | 327.67 | 2,094.1 | 2,595.94 | 69.4 | -43.9 | 57.9 | 2.00 | 2.00 | 0.00 |
| 2,200.0 | 15.00 | 327.67 | 2,191.1 | 2,498.92 | 89.9 | -56.9 | 75.0 | 2.00 | 2.00 | 0.00 |
| 2,300.0 | 17.00 | 327.67 | 2,287.2 | 2,402.80 | 113.1 | -71.6 | 94.4 | 2.00 | 2.00 | 0.00 |
| 2,400.0 | 19.00 | 327.67 | 2,382.3 | 2,307.70 | 139.3 | -88.1 | 116.2 | 2.00 | 2.00 | 0.00 |
| 2,500.0 | 21.00 | 327.67 | 2,476.3 | 2,213.73 | 168.2 | -106.4 | 140.3 | 2.00 | 2.00 | 0.00 |
| 2,600.0 | 23.00 | 327.67 | 2,569.0 | 2,121.02 | 199.8 | -126.5 | 166.7 | 2.00 | 2.00 | 0.00 |
| 2,700.0 | 25.00 | 327.67 | 2,660.3 | 2,029.67 | 234.2 | -148.2 | 195.3 | 2.00 | 2.00 | 0.00 |
| 2,800.0 | 27.00 | 327.67 | 2,750.2 | 1,939.79 | 271.2 | -171.7 | 226.2 | 2.00 | 2.00 | 0.00 |
| 2,900.0 | 29.00 | 327.67 | 2,838.5 | 1,851.50 | 310.9 | -196.8 | 259.3 | 2.00 | 2.00 | 0.00 |
| 3,000.0 | 31.00 | 327.67 | 2,925.1 | 1,764.91 | 353.1 | -223.5 | 294.6 | 2.00 | 2.00 | 0.00 |
| EOB TO 32.97° INC | | | | | | | | | | |
| 3,098.6 | 32.97 | 327.67 | 3,008.7 | 1,681.29 | 397.2 | -251.4 | 331.4 | 2.00 | 2.00 | 0.00 |
| 3,100.0 | 32.97 | 327.67 | 3,009.9 | 1,680.11 | 397.9 | -251.9 | 331.9 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 32.97 | 327.67 | 3,093.8 | 1,596.21 | 443.9 | -281.0 | 370.3 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 32.97 | 327.67 | 3,177.7 | 1,512.32 | 489.9 | -310.1 | 408.7 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 32.97 | 327.67 | 3,261.6 | 1,428.42 | 535.8 | -339.2 | 447.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 32.97 | 327.67 | 3,345.5 | 1,344.53 | 581.8 | -368.3 | 485.4 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 32.97 | 327.67 | 3,429.4 | 1,260.64 | 627.8 | -397.4 | 523.7 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 32.97 | 327.67 | 3,513.3 | 1,176.74 | 673.8 | -426.5 | 562.1 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 32.97 | 327.67 | 3,597.2 | 1,092.85 | 719.8 | -455.6 | 600.5 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 32.97 | 327.67 | 3,681.0 | 1,008.95 | 765.8 | -484.7 | 638.8 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | | |
| 3,905.9 | 32.97 | 327.67 | 3,686.0 | 1,004.00 | 768.5 | -486.4 | 641.1 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 32.97 | 327.67 | 3,764.9 | 925.06 | 811.7 | -513.8 | 677.2 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 32.97 | 327.67 | 3,848.8 | 841.17 | 857.7 | -542.9 | 715.5 | 0.00 | 0.00 | 0.00 |
| 4,200.0 | 32.97 | 327.67 | 3,932.7 | 757.27 | 903.7 | -572.0 | 753.9 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 32.97 | 327.67 | 4,016.6 | 673.38 | 949.7 | -601.2 | 792.3 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well GP-JACKSON 1-17-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Site: | NE NE SEC. 20 T5N R65W 6th P.M. | North Reference: | True |
| Well: | GP-JACKSON 1-17-13 | 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) |
| 4,400.0 | 32.97 | 327.67 | 4,100.5 | 589.48 | 995.7 | -630.3 | 830.6 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 32.97 | 327.67 | 4,184.4 | 505.59 | 1,041.7 | -659.4 | 869.0 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 32.97 | 327.67 | 4,268.3 | 421.70 | 1,087.7 | -688.5 | 907.4 | 0.00 | 0.00 | 0.00 |
| 4,700.0 | 32.97 | 327.67 | 4,352.2 | 337.80 | 1,133.6 | -717.6 | 945.7 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | | |
| 4,786.8 | 32.97 | 327.67 | 4,425.0 | 265.00 | 1,173.5 | -742.8 | 979.0 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 32.97 | 327.67 | 4,436.1 | 253.91 | 1,179.6 | -746.7 | 984.1 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 32.97 | 327.67 | 4,520.0 | 170.01 | 1,225.6 | -775.8 | 1,022.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 32.97 | 327.67 | 4,603.9 | 86.12 | 1,271.6 | -804.9 | 1,060.8 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 32.97 | 327.67 | 4,687.8 | 2.23 | 1,317.6 | -834.0 | 1,099.2 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 32.97 | 327.67 | 4,771.7 | -81.67 | 1,363.6 | -863.1 | 1,137.5 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 32.97 | 327.67 | 4,855.6 | -165.56 | 1,409.5 | -892.2 | 1,175.9 | 0.00 | 0.00 | 0.00 |
| SHANNON | | | | | | | | | | |
| 5,394.7 | 32.97 | 327.67 | 4,935.0 | -245.00 | 1,453.1 | -919.8 | 1,212.2 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 32.97 | 327.67 | 4,939.5 | -249.46 | 1,455.5 | -921.3 | 1,214.2 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 32.97 | 327.67 | 5,023.3 | -333.35 | 1,501.5 | -950.4 | 1,252.6 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 32.97 | 327.67 | 5,107.2 | -417.24 | 1,547.5 | -979.6 | 1,291.0 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 32.97 | 327.67 | 5,191.1 | -501.14 | 1,593.5 | -1,008.7 | 1,329.3 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 32.97 | 327.67 | 5,275.0 | -585.03 | 1,639.5 | -1,037.8 | 1,367.7 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 32.97 | 327.67 | 5,358.9 | -668.93 | 1,685.4 | -1,066.9 | 1,406.1 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 32.97 | 327.67 | 5,442.8 | -752.82 | 1,731.4 | -1,096.0 | 1,444.4 | 0.00 | 0.00 | 0.00 |
| 6,100.0 | 32.97 | 327.67 | 5,526.7 | -836.71 | 1,777.4 | -1,125.1 | 1,482.8 | 0.00 | 0.00 | 0.00 |
| 6,200.0 | 32.97 | 327.67 | 5,610.6 | -920.61 | 1,823.4 | -1,154.2 | 1,521.1 | 0.00 | 0.00 | 0.00 |
| 6,300.0 | 32.97 | 327.67 | 5,694.5 | -1,004.50 | 1,869.4 | -1,183.3 | 1,559.5 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 32.97 | 327.67 | 5,778.4 | -1,088.40 | 1,915.4 | -1,212.4 | 1,597.9 | 0.00 | 0.00 | 0.00 |
| 6,500.0 | 32.97 | 327.67 | 5,862.3 | -1,172.29 | 1,961.3 | -1,241.5 | 1,636.2 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 32.97 | 327.67 | 5,946.2 | -1,256.18 | 2,007.3 | -1,270.6 | 1,674.6 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 32.97 | 327.67 | 6,030.1 | -1,340.08 | 2,053.3 | -1,299.7 | 1,712.9 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 32.97 | 327.67 | 6,114.0 | -1,423.97 | 2,099.3 | -1,328.8 | 1,751.3 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 32.97 | 327.67 | 6,197.9 | -1,507.86 | 2,145.3 | -1,358.0 | 1,789.7 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 32.97 | 327.67 | 6,281.8 | -1,591.76 | 2,191.3 | -1,387.1 | 1,828.0 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 32.97 | 327.67 | 6,365.7 | -1,675.65 | 2,237.3 | -1,416.2 | 1,866.4 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 32.97 | 327.67 | 6,449.5 | -1,759.55 | 2,283.2 | -1,445.3 | 1,904.8 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 32.97 | 327.67 | 6,533.4 | -1,843.44 | 2,329.2 | -1,474.4 | 1,943.1 | 0.00 | 0.00 | 0.00 |
| KOP (10°/100ft DGLG) | | | | | | | | | | |
| 7,306.4 | 32.97 | 327.67 | 6,538.8 | -1,848.81 | 2,332.2 | -1,476.3 | 1,945.6 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 38.16 | 314.22 | 6,615.0 | -1,925.04 | 2,373.9 | -1,510.7 | 1,988.2 | 10.00 | 5.55 | -14.36 |
| 7,500.0 | 45.02 | 303.22 | 6,689.9 | -1,999.89 | 2,415.0 | -1,562.5 | 2,047.7 | 10.00 | 6.85 | -11.01 |
| SHARON SPRINGS | | | | | | | | | | |
| 7,574.7 | 50.69 | 296.66 | 6,740.0 | -2,050.00 | 2,442.4 | -1,610.5 | 2,100.5 | 10.00 | 7.60 | -8.78 |
| 7,600.0 | 52.70 | 294.68 | 6,755.7 | -2,065.70 | 2,451.0 | -1,628.4 | 2,119.9 | 10.00 | 7.90 | -7.81 |
| NIOBRARA | | | | | | | | | | |
| 7,632.8 | 55.34 | 292.27 | 6,775.0 | -2,085.00 | 2,461.6 | -1,652.8 | 2,145.9 | 10.00 | 8.04 | -7.34 |
| 7,700.0 | 60.87 | 287.78 | 6,810.5 | -2,120.48 | 2,481.1 | -1,706.3 | 2,202.4 | 10.00 | 8.24 | -6.68 |
| 7,800.0 | 69.35 | 281.92 | 6,852.6 | -2,162.56 | 2,504.1 | -1,793.9 | 2,292.9 | 10.00 | 8.47 | -5.86 |
| 7,900.0 | 78.00 | 276.69 | 6,880.7 | -2,190.67 | 2,519.5 | -1,888.5 | 2,388.6 | 10.00 | 8.65 | -5.23 |
| 8,000.0 | 86.74 | 271.79 | 6,893.9 | -2,203.94 | 2,526.8 | -1,987.2 | 2,486.6 | 10.00 | 8.74 | -4.90 |
| HZ LANDING PNT *NEW* - GP-JACKSON 1-17-13 | | | | | | | | | | |
| 8,037.2 | 90.00 | 270.00 | 6,895.0 | -2,205.00 | 2,527.4 | -2,024.4 | 2,523.0 | 10.00 | 8.77 | -4.81 |
| 8,100.0 | 90.00 | 268.12 | 6,895.0 | -2,205.00 | 2,526.4 | -2,087.2 | 2,584.1 | 3.00 | 0.00 | -3.00 |
| 8,200.0 | 90.00 | 265.12 | 6,895.0 | -2,205.00 | 2,520.5 | -2,187.0 | 2,680.2 | 3.00 | 0.00 | -3.00 |
| 8,300.0 | 90.00 | 262.12 | 6,895.0 | -2,205.00 | 2,509.3 | -2,286.4 | 2,774.9 | 3.00 | 0.00 | -3.00 |
| EOT TO 260.3° AZ | | | | | | | | | | |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well GP-JACKSON 1-17-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Site: | NE NE SEC. 20 T5N R65W 6th P.M. | North Reference: | True |
| Well: | GP-JACKSON 1-17-13 | 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) |
| 8,360.5 | 90.00 | 260.30 | 6,895.0 | -2,205.00 | 2,500.1 | -2,346.2 | 2,831.2 | 3.00 | 0.00 | -3.00 |
| 8,400.0 | 90.00 | 260.30 | 6,895.0 | -2,205.00 | 2,493.4 | -2,385.1 | 2,867.8 | 0.00 | 0.00 | 0.00 |
| END OF TANGENT | | | | | | | | | | |
| 8,410.5 | 90.00 | 260.30 | 6,895.0 | -2,205.00 | 2,491.7 | -2,395.5 | 2,877.5 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 262.98 | 6,895.0 | -2,205.00 | 2,478.7 | -2,484.0 | 2,961.2 | 3.00 | 0.00 | 3.00 |
| 8,600.0 | 90.00 | 265.98 | 6,895.0 | -2,205.00 | 2,469.1 | -2,583.5 | 3,056.3 | 3.00 | 0.00 | 3.00 |
| 8,700.0 | 90.00 | 268.98 | 6,895.0 | -2,205.00 | 2,464.7 | -2,683.4 | 3,152.8 | 3.00 | 0.00 | 3.00 |
| EOT TO 270.53° AZ | | | | | | | | | | |
| 8,751.5 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,464.4 | -2,735.0 | 3,203.1 | 3.00 | 0.00 | 3.00 |
| 8,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,464.9 | -2,783.4 | 3,250.5 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,465.8 | -2,883.4 | 3,348.4 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,466.7 | -2,983.4 | 3,446.2 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,467.7 | -3,083.4 | 3,544.0 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,468.6 | -3,183.4 | 3,641.8 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,469.5 | -3,283.4 | 3,739.7 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,470.5 | -3,383.4 | 3,837.5 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,471.4 | -3,483.4 | 3,935.3 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,472.3 | -3,583.4 | 4,033.2 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,473.2 | -3,683.4 | 4,131.0 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,474.2 | -3,783.4 | 4,228.8 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,475.1 | -3,883.4 | 4,326.7 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,476.0 | -3,983.4 | 4,424.5 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,476.9 | -4,083.4 | 4,522.3 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,477.9 | -4,183.4 | 4,620.2 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,478.8 | -4,283.4 | 4,718.0 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,479.7 | -4,383.3 | 4,815.8 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,480.6 | -4,483.3 | 4,913.6 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,481.6 | -4,583.3 | 5,011.5 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,482.5 | -4,683.3 | 5,109.3 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,483.4 | -4,783.3 | 5,207.1 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,484.3 | -4,883.3 | 5,305.0 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,485.3 | -4,983.3 | 5,402.8 | 0.00 | 0.00 | 0.00 |
| 11,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,486.2 | -5,083.3 | 5,500.6 | 0.00 | 0.00 | 0.00 |
| 11,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,487.1 | -5,183.3 | 5,598.5 | 0.00 | 0.00 | 0.00 |
| 11,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,488.0 | -5,283.3 | 5,696.3 | 0.00 | 0.00 | 0.00 |
| 11,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,489.0 | -5,383.3 | 5,794.1 | 0.00 | 0.00 | 0.00 |
| 11,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,489.9 | -5,483.3 | 5,891.9 | 0.00 | 0.00 | 0.00 |
| 11,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,490.8 | -5,583.3 | 5,989.8 | 0.00 | 0.00 | 0.00 |
| 11,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,491.8 | -5,683.3 | 6,087.6 | 0.00 | 0.00 | 0.00 |
| 11,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,492.7 | -5,783.3 | 6,185.4 | 0.00 | 0.00 | 0.00 |
| 11,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,493.6 | -5,883.3 | 6,283.3 | 0.00 | 0.00 | 0.00 |
| 12,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,494.5 | -5,983.3 | 6,381.1 | 0.00 | 0.00 | 0.00 |
| 12,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,495.5 | -6,083.3 | 6,478.9 | 0.00 | 0.00 | 0.00 |
| 12,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,496.4 | -6,183.3 | 6,576.8 | 0.00 | 0.00 | 0.00 |
| 12,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,497.3 | -6,283.3 | 6,674.6 | 0.00 | 0.00 | 0.00 |
| 12,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,498.2 | -6,383.3 | 6,772.4 | 0.00 | 0.00 | 0.00 |
| 12,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,499.2 | -6,483.3 | 6,870.3 | 0.00 | 0.00 | 0.00 |
| 12,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,500.1 | -6,583.3 | 6,968.1 | 0.00 | 0.00 | 0.00 |
| 12,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,501.0 | -6,683.3 | 7,065.9 | 0.00 | 0.00 | 0.00 |
| 12,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,501.9 | -6,783.2 | 7,163.7 | 0.00 | 0.00 | 0.00 |
| 12,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,502.9 | -6,883.2 | 7,261.6 | 0.00 | 0.00 | 0.00 |
| 13,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,503.8 | -6,983.2 | 7,359.4 | 0.00 | 0.00 | 0.00 |
| 13,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,504.7 | -7,083.2 | 7,457.2 | 0.00 | 0.00 | 0.00 |
| 13,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,505.6 | -7,183.2 | 7,555.1 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well GP-JACKSON 1-17-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Site: | NE NE SEC. 20 T5N R65W 6th P.M. | North Reference: | True |
| Well: | GP-JACKSON 1-17-13 | 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) |
|---------------------------------|--------------|---------------|----------------|------------------|----------------|------------------|-------------------------|-------------------------|------------------------|-----------------------|
| 13,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,506.6 | -7,283.2 | 7,652.9 | 0.00 | 0.00 | 0.00 |
| 13,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,507.5 | -7,383.2 | 7,750.7 | 0.00 | 0.00 | 0.00 |
| 13,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,508.4 | -7,483.2 | 7,848.6 | 0.00 | 0.00 | 0.00 |
| 13,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,509.3 | -7,583.2 | 7,946.4 | 0.00 | 0.00 | 0.00 |
| 13,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,510.3 | -7,683.2 | 8,044.2 | 0.00 | 0.00 | 0.00 |
| 13,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,511.2 | -7,783.2 | 8,142.1 | 0.00 | 0.00 | 0.00 |
| 13,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,512.1 | -7,883.2 | 8,239.9 | 0.00 | 0.00 | 0.00 |
| 14,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,513.1 | -7,983.2 | 8,337.7 | 0.00 | 0.00 | 0.00 |
| 14,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,514.0 | -8,083.2 | 8,435.5 | 0.00 | 0.00 | 0.00 |
| 14,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,514.9 | -8,183.2 | 8,533.4 | 0.00 | 0.00 | 0.00 |
| 14,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,515.8 | -8,283.2 | 8,631.2 | 0.00 | 0.00 | 0.00 |
| 14,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,516.8 | -8,383.2 | 8,729.0 | 0.00 | 0.00 | 0.00 |
| 14,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,517.7 | -8,483.2 | 8,826.9 | 0.00 | 0.00 | 0.00 |
| 14,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,518.6 | -8,583.2 | 8,924.7 | 0.00 | 0.00 | 0.00 |
| 14,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,519.5 | -8,683.2 | 9,022.5 | 0.00 | 0.00 | 0.00 |
| 14,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,520.5 | -8,783.2 | 9,120.4 | 0.00 | 0.00 | 0.00 |
| 14,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,521.4 | -8,883.2 | 9,218.2 | 0.00 | 0.00 | 0.00 |
| 15,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,522.3 | -8,983.2 | 9,316.0 | 0.00 | 0.00 | 0.00 |
| 15,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,523.2 | -9,083.1 | 9,413.9 | 0.00 | 0.00 | 0.00 |
| 15,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,524.2 | -9,183.1 | 9,511.7 | 0.00 | 0.00 | 0.00 |
| 15,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,525.1 | -9,283.1 | 9,609.5 | 0.00 | 0.00 | 0.00 |
| 15,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,526.0 | -9,383.1 | 9,707.3 | 0.00 | 0.00 | 0.00 |
| 15,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,526.9 | -9,483.1 | 9,805.2 | 0.00 | 0.00 | 0.00 |
| 15,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,527.9 | -9,583.1 | 9,903.0 | 0.00 | 0.00 | 0.00 |
| 15,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,528.8 | -9,683.1 | 10,000.8 | 0.00 | 0.00 | 0.00 |
| 15,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,529.7 | -9,783.1 | 10,098.7 | 0.00 | 0.00 | 0.00 |
| 15,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,530.6 | -9,883.1 | 10,196.5 | 0.00 | 0.00 | 0.00 |
| 16,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,531.6 | -9,983.1 | 10,294.3 | 0.00 | 0.00 | 0.00 |
| 16,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,532.5 | -10,083.1 | 10,392.2 | 0.00 | 0.00 | 0.00 |
| 16,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,533.4 | -10,183.1 | 10,490.0 | 0.00 | 0.00 | 0.00 |
| 16,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,534.4 | -10,283.1 | 10,587.8 | 0.00 | 0.00 | 0.00 |
| 16,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,535.3 | -10,383.1 | 10,685.7 | 0.00 | 0.00 | 0.00 |
| 16,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,536.2 | -10,483.1 | 10,783.5 | 0.00 | 0.00 | 0.00 |
| 16,600.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,537.1 | -10,583.1 | 10,881.3 | 0.00 | 0.00 | 0.00 |
| 16,700.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,538.1 | -10,683.1 | 10,979.1 | 0.00 | 0.00 | 0.00 |
| 16,800.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,539.0 | -10,783.1 | 11,077.0 | 0.00 | 0.00 | 0.00 |
| 16,900.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,539.9 | -10,883.1 | 11,174.8 | 0.00 | 0.00 | 0.00 |
| 17,000.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,540.8 | -10,983.1 | 11,272.6 | 0.00 | 0.00 | 0.00 |
| 17,100.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,541.8 | -11,083.1 | 11,370.5 | 0.00 | 0.00 | 0.00 |
| 17,200.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,542.7 | -11,183.1 | 11,468.3 | 0.00 | 0.00 | 0.00 |
| 17,300.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,543.6 | -11,283.1 | 11,566.1 | 0.00 | 0.00 | 0.00 |
| 17,400.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,544.5 | -11,383.0 | 11,664.0 | 0.00 | 0.00 | 0.00 |
| 17,500.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,545.5 | -11,483.0 | 11,761.8 | 0.00 | 0.00 | 0.00 |
| BHL - GP-JACKSON 1-17-13 | | | | | | | | | | |
| 17,512.0 | 90.00 | 270.53 | 6,895.0 | -2,205.00 | 2,545.6 | -11,495.0 | 11,773.5 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well GP-JACKSON 1-17-13 |
| Company: | EXTRACTION OIL & GAS | TVD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4690.0usft (Original Well Elev) |
| Site: | NE NE SEC. 20 T5N R65W 6th P.M. | North Reference: | True |
| Well: | GP-JACKSON 1-17-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | ORIGINAL WELLBORE | | |
| Design: | PROPOSAL #1 | | |

| Formations | | | | | |
|------------|------------|----------------|-----------|---------|-------------------|
| MD (usft) | TVD (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
| 3,905.9 | 3,686.0 | PARKMAN | | | |
| 4,786.8 | 4,425.0 | SUSSEX | | | |
| 5,394.7 | 4,935.0 | SHANNON | | | |
| 7,574.7 | 6,740.0 | SHARON SPRINGS | | | |
| 7,632.8 | 6,775.0 | NIOBRARA | | | |

| Plan Annotations | | | | |
|------------------|------------|-------------------|--------------|---|
| MD (usft) | TVD (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 1,350.0 | 1,350.0 | 0.0 | 0.0 | SURFACE NUDGE (2°/100ft BUR) |
| 1,600.3 | 1,600.0 | 9.2 | -5.8 | 9 5/8" SURFACE CASING |
| 1,700.3 | 1,699.6 | 16.6 | -10.5 | MAIN NUDGE (2°/100ft BUR) |
| 3,098.6 | 3,008.7 | 397.2 | -251.4 | EOB TO 32.97° INC |
| 7,306.4 | 6,538.8 | 2,332.2 | -1,476.3 | KOP (10°/100ft DGLG) |
| 8,037.2 | 6,895.0 | 2,527.4 | -2,024.4 | HZ LANDING PNT *NEW* - GP-JACKSON 1-17-13 |
| 8,360.5 | 6,895.0 | 2,500.1 | -2,346.2 | EOT TO 260.3° AZ |
| 8,410.5 | 6,895.0 | 2,491.7 | -2,395.5 | END OF TANGENT |
| 8,751.5 | 6,895.0 | 2,464.4 | -2,735.0 | EOT TO 270.53° AZ |
| 17,512.0 | 6,895.0 | 2,545.6 | -11,495.0 | BHL - GP-JACKSON 1-17-13 |