

BONANZA CREEK ENERGY INC.

WELD COUNTY, COLORADO (NAD 83)

NE NW SEC. 18 T5N R61W 6th P.M.

PRONGHORN 21-24-18HNB - OPT 2

OPTION 2

09 November, 2015

Plan: PROPOSAL #2

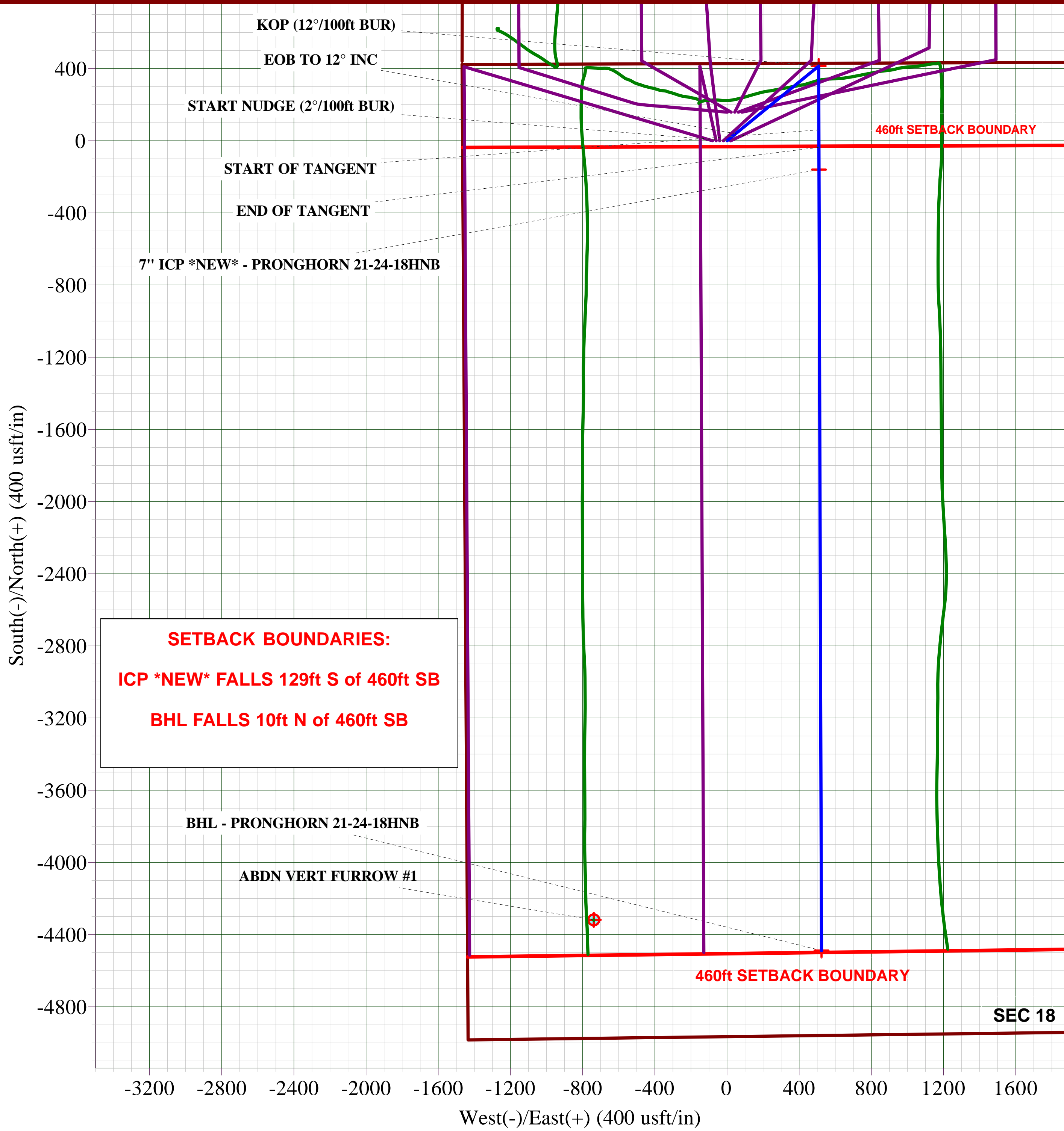
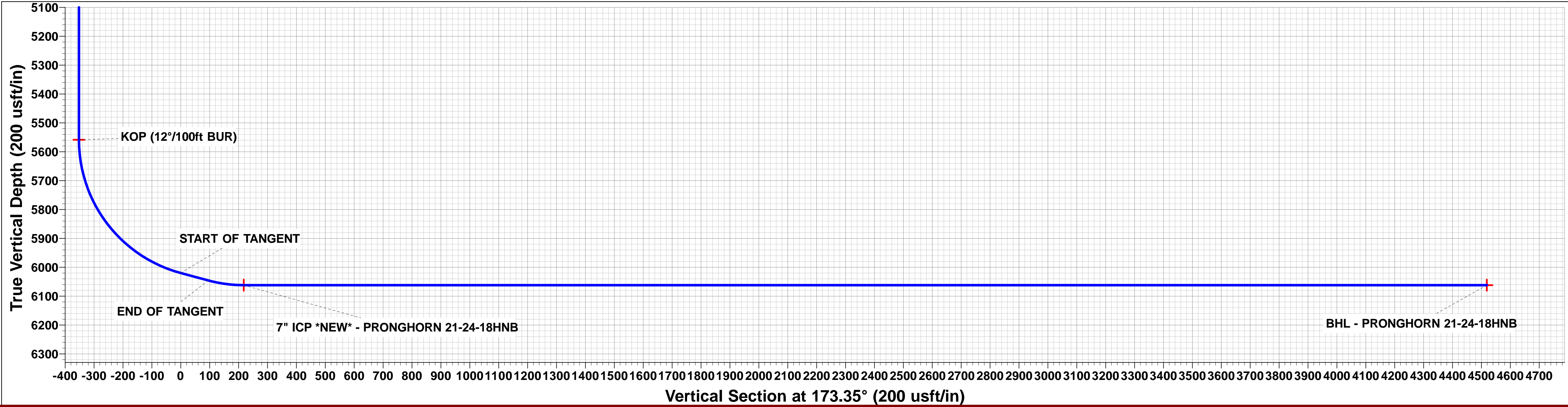
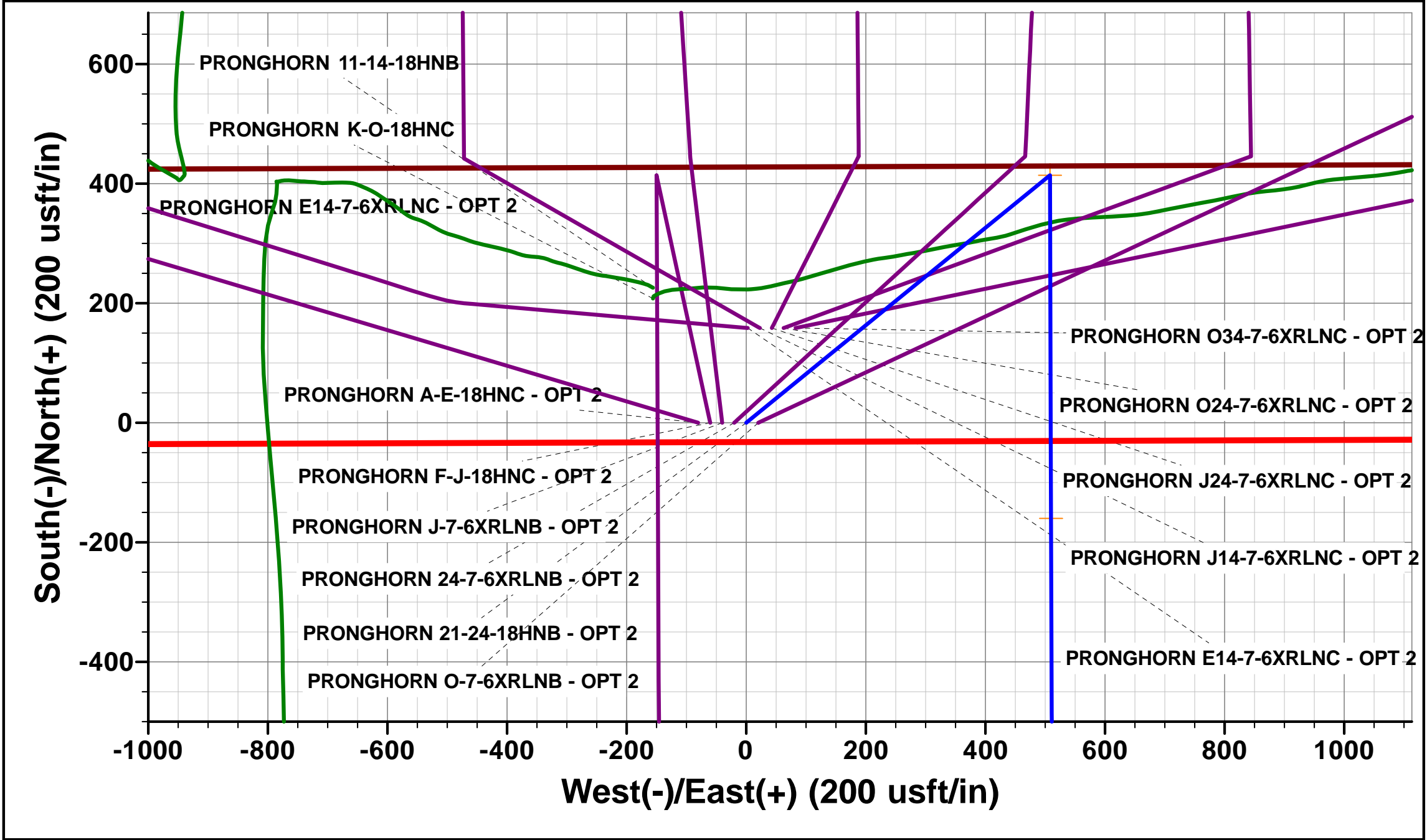
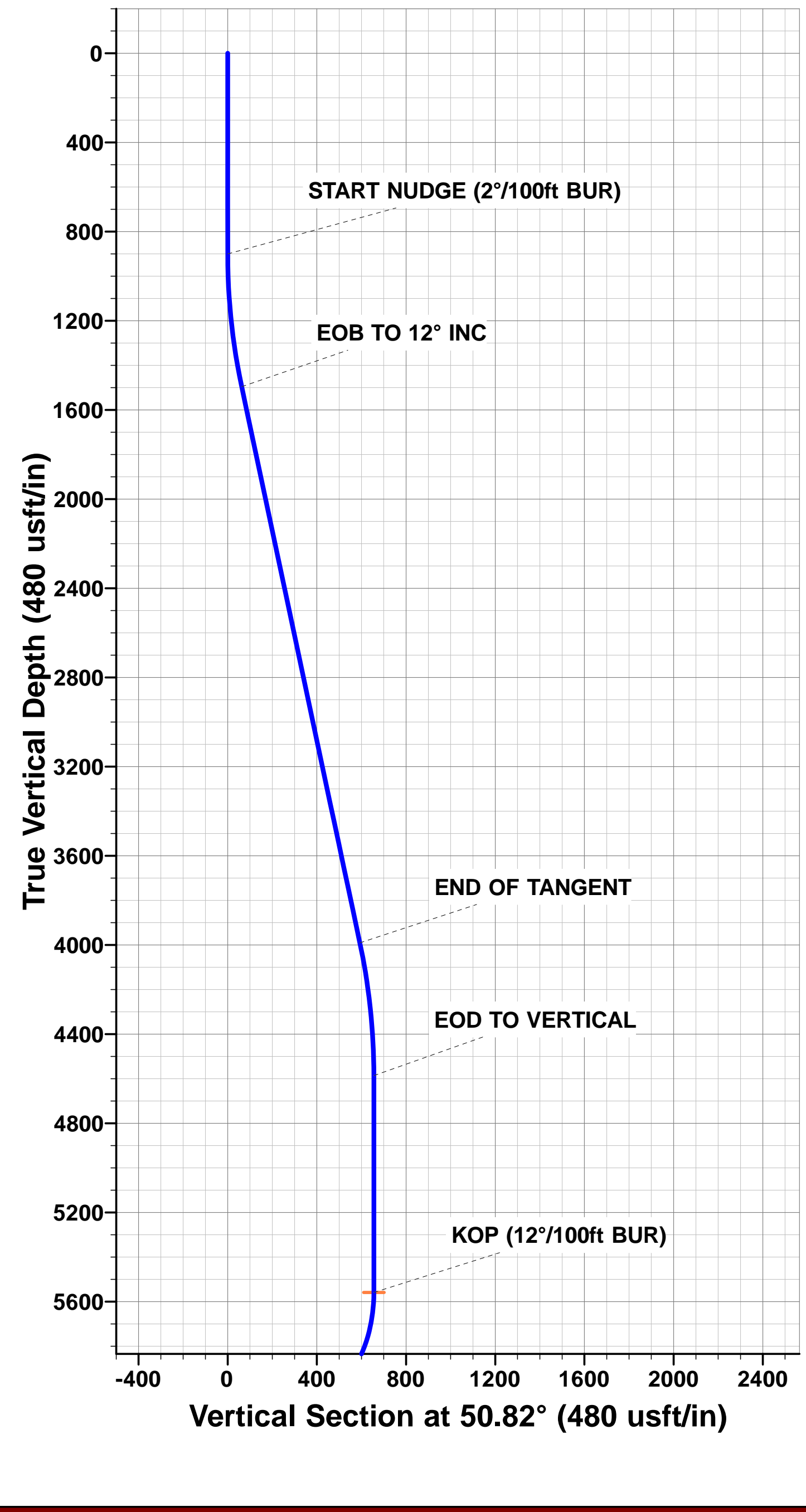




Project: WELD COUNTY, COLORADO (NAD 83)
Site: NE NW SEC. 18 T5N R61W 6th P.M.
Well: PRONGHORN 21-24-18HNB - OPT 2
Wellbore: OPTION 2
Design: PROPOSAL #2

| ANNOTATIONS | | | | | | | | | PROPOSED LOCAL COORDINATES: SHL: 428ft FNL & 1465ft FWL Sec 18 7" ICP *NEW*: 589ft FNL & 1973ft FWL Sec 18 BHL: 470ft FSL & 1960ft FWL Sec 18 |
|-------------|---------|-------|--------|---------|-------|--------|--------|--------------------------------------|--|
| TVD | MD | Inc | Azi | +N/-S | +E/-W | VSect | Dep | Annotation | |
| 900.0 | 900.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | START NUDGE (2°/100ft BUR) | |
| 1495.6 | 1499.9 | 12.00 | 50.82 | 39.5 | 48.5 | -33.7 | 62.6 | EOB TO 12° INC | |
| 3990.1 | 4050.2 | 12.00 | 50.82 | 374.5 | 459.5 | -318.7 | 592.8 | END OF TANGENT | |
| 4585.7 | 4650.2 | 0.00 | 0.00 | 414.0 | 508.0 | -352.4 | 655.4 | EOD TO VERTICAL | |
| 5558.7 | 5623.2 | 0.00 | 0.00 | 414.0 | 508.0 | -352.4 | 655.4 | KOP (12°/100ft BUR) | |
| 6019.9 | 6248.2 | 75.00 | 179.82 | 60.2 | 509.1 | -0.8 | 1009.3 | START OF TANGENT | |
| 6045.8 | 6348.2 | 75.00 | 179.82 | -36.4 | 509.4 | 95.2 | 1105.8 | END OF TANGENT | |
| 6062.0 | 6473.2 | 90.00 | 179.82 | -160.0 | 509.8 | 218.0 | 1229.4 | 7" ICP *NEW* - PRONGHORN 21-24-18HNB | |
| 6062.0 | 10801.5 | 90.00 | 179.81 | -4488.3 | 523.7 | 4518.7 | 5557.7 | BHL - PRONGHORN 21-24-18HNB | |

| WELLBORE TARGET DETAILS (LAT/LONG) | | | | | |
|--------------------------------------|--------|---------|-------|-----------|-------------|
| Name | TVD | +N/-S | +E/-W | Latitude | Longitude |
| KOP - PRONGHORN 21-24-18HNB | 5558.7 | 414.0 | 508.0 | 40.408466 | -104.254806 |
| 7" ICP *NEW* - PRONGHORN 21-24-18HNB | 6062.0 | -160.0 | 509.8 | 40.406891 | -104.254799 |
| BHL - PRONGHORN 21-24-18HNB | 6062.0 | -4488.3 | 523.7 | 40.395010 | -104.254750 |



| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well PRONGHORN 21-24-18HNB - OPT 2 |
| Company: | BONANZA CREEK ENERGY INC. | TVD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Site: | NE NW SEC. 18 T5N R61W 6th P.M. | North Reference: | True |
| Well: | PRONGHORN 21-24-18HNB - OPT 2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OPTION 2 | | |
| Design: | PROPOSAL #2 | | |

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

| | | | |
|------------------------------|---------------------------------|--------------------------|-------------------|
| Site | NE NW SEC. 18 T5N R61W 6th P.M. | | |
| Site Position: | | Northing: | 1,393,885.48 usft |
| From: | Lat/Long | Easting: | 3,346,083.48 usft |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 1.10000 ft |
| | | Latitude: | 40.407960 |
| | | Longitude: | -104.257190 |
| | | Grid Convergence: | 0.80 ° |

| | | | |
|-----------------------------|-------------------------------|-------------|------------------------------------|
| Well | PRONGHORN 21-24-18HNB - OPT 2 | | |
| Well Position | +N/-S | -229.5 usft | Northing: 1,393,658.17 usfi |
| | +E/-W | 156.0 usft | Easting: 3,346,242.63 usfi |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: usfi |
| | | | Latitude: 40.407330 |
| | | | Longitude: -104.256630 |
| | | | Ground Level: 4,565.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OPTION 2 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2015 | 09/11/2015 | 8.11 | 66.98 | 52,634 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | PROPOSAL #2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PROTOTYPE | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 173.35 |

| 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 | -4,582.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.0 | 0.00 | 0.00 | 900.0 | -3,682.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,499.9 | 12.00 | 50.82 | 1,495.6 | -3,086.4 | 39.5 | 48.5 | 2.00 | 2.00 | 0.00 | 50.82 | |
| 4,050.2 | 12.00 | 50.82 | 3,990.1 | -591.9 | 374.5 | 459.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,650.2 | 0.00 | 0.00 | 4,585.7 | 3.7 | 414.0 | 508.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 5,623.2 | 0.00 | 0.00 | 5,558.7 | 976.7 | 414.0 | 508.0 | 0.00 | 0.00 | 0.00 | 0.00 | KOP - PRONGHOF |
| 6,248.2 | 75.00 | 179.82 | 6,019.9 | 1,437.9 | 60.2 | 509.1 | 12.00 | 12.00 | 0.00 | 179.82 | |
| 6,348.2 | 75.00 | 179.82 | 6,045.8 | 1,463.8 | -36.4 | 509.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,473.2 | 90.00 | 179.82 | 6,062.0 | 1,480.0 | -160.0 | 509.8 | 12.00 | 12.00 | 0.00 | 0.00 | |
| 10,801.5 | 90.00 | 179.81 | 6,062.0 | 1,480.0 | -4,488.3 | 523.7 | 0.00 | 0.00 | 0.00 | -79.71 | BHL - PRONGHOR |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well PRONGHORN 21-24-18HNB - OPT 2 |
| Company: | BONANZA CREEK ENERGY INC. | TVD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Site: | NE NW SEC. 18 T5N R61W 6th P.M. | North Reference: | True |
| Well: | PRONGHORN 21-24-18HNB - OPT 2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OPTION 2 | | |
| 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 | 4,582.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 4,482.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 4,382.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 4,282.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 4,182.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 4,082.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 3,982.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 3,882.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 800.0 | 0.00 | 0.00 | 800.0 | 3,782.00 | 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 | 3,682.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 1,000.0 | 2.00 | 50.82 | 1,000.0 | 3,582.02 | 1.1 | 1.4 | -0.9 | 2.00 | 2.00 | 0.00 |
| 1,100.0 | 4.00 | 50.82 | 1,099.8 | 3,482.16 | 4.4 | 5.4 | -3.8 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 6.00 | 50.82 | 1,199.5 | 3,382.55 | 9.9 | 12.2 | -8.4 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 8.00 | 50.82 | 1,298.7 | 3,283.30 | 17.6 | 21.6 | -15.0 | 2.00 | 2.00 | 0.00 |
| 1,400.0 | 10.00 | 50.82 | 1,397.5 | 3,184.53 | 27.5 | 33.7 | -23.4 | 2.00 | 2.00 | 0.00 |
| EOB TO 12° INC | | | | | | | | | | |
| 1,499.9 | 12.00 | 50.82 | 1,495.6 | 3,086.44 | 39.5 | 48.5 | -33.7 | 2.00 | 2.00 | 0.00 |
| 1,500.0 | 12.00 | 50.82 | 1,495.6 | 3,086.38 | 39.6 | 48.5 | -33.7 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 12.00 | 50.82 | 1,593.4 | 2,988.56 | 52.7 | 64.6 | -44.8 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 12.00 | 50.82 | 1,691.3 | 2,890.75 | 65.8 | 80.8 | -56.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 12.00 | 50.82 | 1,789.1 | 2,792.93 | 79.0 | 96.9 | -67.2 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 12.00 | 50.82 | 1,886.9 | 2,695.12 | 92.1 | 113.0 | -78.4 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 12.00 | 50.82 | 1,984.7 | 2,597.30 | 105.2 | 129.1 | -89.6 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 12.00 | 50.82 | 2,082.5 | 2,499.49 | 118.4 | 145.2 | -100.7 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 12.00 | 50.82 | 2,180.3 | 2,401.67 | 131.5 | 161.3 | -111.9 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 12.00 | 50.82 | 2,278.1 | 2,303.86 | 144.6 | 177.4 | -123.1 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 12.00 | 50.82 | 2,376.0 | 2,206.04 | 157.8 | 193.6 | -134.3 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 12.00 | 50.82 | 2,473.8 | 2,108.22 | 170.9 | 209.7 | -145.4 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 12.00 | 50.82 | 2,571.6 | 2,010.41 | 184.0 | 225.8 | -156.6 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 12.00 | 50.82 | 2,669.4 | 1,912.59 | 197.2 | 241.9 | -167.8 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 12.00 | 50.82 | 2,767.2 | 1,814.78 | 210.3 | 258.0 | -179.0 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 12.00 | 50.82 | 2,865.0 | 1,716.96 | 223.4 | 274.1 | -190.2 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 12.00 | 50.82 | 2,962.9 | 1,619.15 | 236.6 | 290.2 | -201.3 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 12.00 | 50.82 | 3,060.7 | 1,521.33 | 249.7 | 306.4 | -212.5 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 12.00 | 50.82 | 3,158.5 | 1,423.52 | 262.8 | 322.5 | -223.7 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 12.00 | 50.82 | 3,256.3 | 1,325.70 | 276.0 | 338.6 | -234.9 | 0.00 | 0.00 | 0.00 |
| 3,400.0 | 12.00 | 50.82 | 3,354.1 | 1,227.89 | 289.1 | 354.7 | -246.0 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 12.00 | 50.82 | 3,451.9 | 1,130.07 | 302.2 | 370.8 | -257.2 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 12.00 | 50.82 | 3,549.7 | 1,032.26 | 315.4 | 386.9 | -268.4 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 12.00 | 50.82 | 3,647.6 | 934.44 | 328.5 | 403.0 | -279.6 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 12.00 | 50.82 | 3,745.4 | 836.63 | 341.6 | 419.2 | -290.8 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 12.00 | 50.82 | 3,843.2 | 738.81 | 354.8 | 435.3 | -301.9 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 12.00 | 50.82 | 3,941.0 | 641.00 | 367.9 | 451.4 | -313.1 | 0.00 | 0.00 | 0.00 |
| END OF TANGENT | | | | | | | | | | |
| 4,050.2 | 12.00 | 50.82 | 3,990.1 | 591.86 | 374.5 | 459.5 | -318.7 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 11.00 | 50.82 | 4,038.9 | 543.09 | 380.8 | 467.2 | -324.1 | 2.00 | -2.00 | 0.00 |
| 4,200.0 | 9.00 | 50.82 | 4,137.4 | 444.62 | 391.7 | 480.6 | -333.4 | 2.00 | -2.00 | 0.00 |
| 4,300.0 | 7.00 | 50.82 | 4,236.4 | 345.60 | 400.5 | 491.4 | -340.9 | 2.00 | -2.00 | 0.00 |
| 4,400.0 | 5.00 | 50.82 | 4,335.8 | 246.15 | 407.2 | 499.5 | -346.5 | 2.00 | -2.00 | 0.00 |
| 4,500.0 | 3.00 | 50.82 | 4,435.6 | 146.40 | 411.6 | 504.9 | -350.3 | 2.00 | -2.00 | 0.00 |
| 4,600.0 | 1.00 | 50.82 | 4,535.5 | 46.47 | 413.8 | 507.7 | -352.2 | 2.00 | -2.00 | 0.00 |
| EOD TO VERTICAL | | | | | | | | | | |
| 4,650.2 | 0.00 | 0.00 | 4,585.7 | -3.70 | 414.0 | 508.0 | -352.4 | 2.00 | -2.00 | 0.00 |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well PRONGHORN 21-24-18HNB - OPT 2 |
| Company: | BONANZA CREEK ENERGY INC. | TVD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Site: | NE NW SEC. 18 T5N R61W 6th P.M. | North Reference: | True |
| Well: | PRONGHORN 21-24-18HNB - OPT 2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OPTION 2 | | |
| 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) |
|---|------------|------------|---------------|--------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 4,700.0 | 0.00 | 0.00 | 4,635.5 | -53.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 0.00 | 0.00 | 4,735.5 | -153.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 0.00 | 0.00 | 4,835.5 | -253.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 0.00 | 0.00 | 4,935.5 | -353.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 0.00 | 0.00 | 5,035.5 | -453.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 0.00 | 0.00 | 5,135.5 | -553.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,300.0 | 0.00 | 0.00 | 5,235.5 | -653.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,400.0 | 0.00 | 0.00 | 5,335.5 | -753.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,500.0 | 0.00 | 0.00 | 5,435.5 | -853.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,600.0 | 0.00 | 0.00 | 5,535.5 | -953.53 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| KOP (12°/100ft BUR) | | | | | | | | | | |
| 5,623.2 | 0.00 | 0.00 | 5,558.7 | -976.70 | 414.0 | 508.0 | -352.4 | 0.00 | 0.00 | 0.00 |
| 5,700.0 | 9.22 | 179.82 | 5,635.2 | -1,053.20 | 407.9 | 508.0 | -346.3 | 12.00 | 12.00 | 0.00 |
| 5,800.0 | 21.22 | 179.82 | 5,731.5 | -1,149.52 | 381.7 | 508.1 | -320.2 | 12.00 | 12.00 | 0.00 |
| 5,900.0 | 33.22 | 179.82 | 5,820.3 | -1,238.28 | 336.0 | 508.2 | -274.9 | 12.00 | 12.00 | 0.00 |
| 6,000.0 | 45.22 | 179.82 | 5,897.6 | -1,315.61 | 272.9 | 508.4 | -212.1 | 12.00 | 12.00 | 0.00 |
| 6,100.0 | 57.22 | 179.82 | 5,960.1 | -1,378.13 | 195.1 | 508.7 | -134.8 | 12.00 | 12.00 | 0.00 |
| 6,200.0 | 69.22 | 179.82 | 6,005.1 | -1,423.10 | 106.0 | 509.0 | -46.3 | 12.00 | 12.00 | 0.00 |
| START OF TANGENT | | | | | | | | | | |
| 6,248.2 | 75.00 | 179.82 | 6,019.9 | -1,437.90 | 60.2 | 509.1 | -0.8 | 12.00 | 12.00 | 0.00 |
| 6,300.0 | 75.00 | 179.82 | 6,033.3 | -1,451.31 | 10.1 | 509.3 | 49.0 | 0.00 | 0.00 | 0.00 |
| END OF TANGENT | | | | | | | | | | |
| 6,348.2 | 75.00 | 179.82 | 6,045.8 | -1,463.78 | -36.4 | 509.4 | 95.2 | 0.00 | 0.00 | 0.00 |
| 6,400.0 | 81.22 | 179.82 | 6,056.5 | -1,474.45 | -87.1 | 509.6 | 145.6 | 12.00 | 12.00 | 0.00 |
| 7" ICP *NEW* - PRONGHORN 21-24-18HNB | | | | | | | | | | |
| 6,473.2 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -160.0 | 509.8 | 218.0 | 12.00 | 12.00 | 0.00 |
| 6,500.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -186.8 | 509.9 | 244.7 | 0.00 | 0.00 | 0.00 |
| 6,600.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -286.8 | 510.2 | 344.0 | 0.00 | 0.00 | 0.00 |
| 6,700.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -386.8 | 510.5 | 443.4 | 0.00 | 0.00 | 0.00 |
| 6,800.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -486.8 | 510.8 | 542.8 | 0.00 | 0.00 | 0.00 |
| 6,900.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -586.8 | 511.1 | 642.1 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -686.8 | 511.5 | 741.5 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -786.8 | 511.8 | 840.8 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -886.8 | 512.1 | 940.2 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 90.00 | 179.82 | 6,062.0 | -1,480.05 | -986.8 | 512.4 | 1,039.6 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,086.8 | 512.7 | 1,138.9 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,186.8 | 513.0 | 1,238.3 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,286.8 | 513.4 | 1,337.7 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,386.8 | 513.7 | 1,437.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,486.8 | 514.0 | 1,536.4 | 0.00 | 0.00 | 0.00 |
| 7,900.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,586.8 | 514.3 | 1,635.7 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,686.8 | 514.6 | 1,735.1 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,786.8 | 515.0 | 1,834.5 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,886.8 | 515.3 | 1,933.8 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -1,986.8 | 515.6 | 2,033.2 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -2,086.8 | 515.9 | 2,132.6 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -2,186.8 | 516.2 | 2,231.9 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 179.82 | 6,062.0 | -1,480.04 | -2,286.8 | 516.5 | 2,331.3 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,386.8 | 516.9 | 2,430.6 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,486.8 | 517.2 | 2,530.0 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,586.8 | 517.5 | 2,629.4 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,686.8 | 517.8 | 2,728.7 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,786.8 | 518.2 | 2,828.1 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---------------------------------|-------------------------------------|--|
| Database: | EDM 5000.1 Single User Db | Local Co-ordinate Reference: | Well PRONGHORN 21-24-18HNB - OPT 2 |
| Company: | BONANZA CREEK ENERGY INC. | TVD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Project: | WELD COUNTY, COLORADO (NAD 83) | MD Reference: | KB-EST @ 4582.0usft (Original Well Elev) |
| Site: | NE NW SEC. 18 T5N R61W 6th P.M. | North Reference: | True |
| Well: | PRONGHORN 21-24-18HNB - OPT 2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OPTION 2 | | |
| 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) |
|------------------------------------|--------------|---------------|----------------|------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 9,200.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,886.8 | 518.5 | 2,927.5 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -2,986.8 | 518.8 | 3,026.8 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 179.82 | 6,062.0 | -1,480.03 | -3,086.8 | 519.1 | 3,126.2 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 179.82 | 6,062.0 | -1,480.02 | -3,186.8 | 519.4 | 3,225.5 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 179.82 | 6,062.0 | -1,480.02 | -3,286.8 | 519.8 | 3,324.9 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 179.81 | 6,062.0 | -1,480.02 | -3,386.8 | 520.1 | 3,424.3 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 179.81 | 6,062.0 | -1,480.02 | -3,486.8 | 520.4 | 3,523.6 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 179.81 | 6,062.0 | -1,480.02 | -3,586.8 | 520.7 | 3,623.0 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 179.81 | 6,062.0 | -1,480.02 | -3,686.8 | 521.1 | 3,722.4 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 179.81 | 6,062.0 | -1,480.01 | -3,786.8 | 521.4 | 3,821.7 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 179.81 | 6,062.0 | -1,480.01 | -3,886.8 | 521.7 | 3,921.1 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 179.81 | 6,062.0 | -1,480.01 | -3,986.8 | 522.0 | 4,020.5 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 179.81 | 6,062.0 | -1,480.01 | -4,086.8 | 522.4 | 4,119.8 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 179.81 | 6,062.0 | -1,480.01 | -4,186.8 | 522.7 | 4,219.2 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 179.81 | 6,062.0 | -1,480.00 | -4,286.8 | 523.0 | 4,318.5 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 179.81 | 6,062.0 | -1,480.00 | -4,386.8 | 523.3 | 4,417.9 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 179.81 | 6,062.0 | -1,480.00 | -4,486.8 | 523.7 | 4,517.3 | 0.00 | 0.00 | 0.00 |
| BHL - PRONGHORN 21-24-18HNB | | | | | | | | | | |
| 10,801.5 | 90.00 | 179.81 | 6,062.0 | -1,480.00 | -4,488.3 | 523.7 | 4,518.7 | 0.01 | 0.00 | -0.01 |

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) |
| 1,499.9 | 1,495.6 | 39.5 | 48.5 | EOB TO 12° INC |
| 4,050.2 | 3,990.1 | 374.5 | 459.5 | END OF TANGENT |
| 4,650.2 | 4,585.7 | 414.0 | 508.0 | EOD TO VERTICAL |
| 5,623.2 | 5,558.7 | 414.0 | 508.0 | KOP (12°/100ft BUR) |
| 6,248.2 | 6,019.9 | 60.2 | 509.1 | START OF TANGENT |
| 6,348.2 | 6,045.8 | -36.4 | 509.4 | END OF TANGENT |
| 6,473.2 | 6,062.0 | -160.0 | 509.8 | 7" ICP *NEW* - PRONGHORN 21-24-18HNB |
| 10,801.5 | 6,062.0 | -4,488.3 | 523.7 | BHL - PRONGHORN 21-24-18HNB |