



Enseco Planning Report

28 October, 2013

Bonanza Creek Energy, Inc

Weld County, Colorado

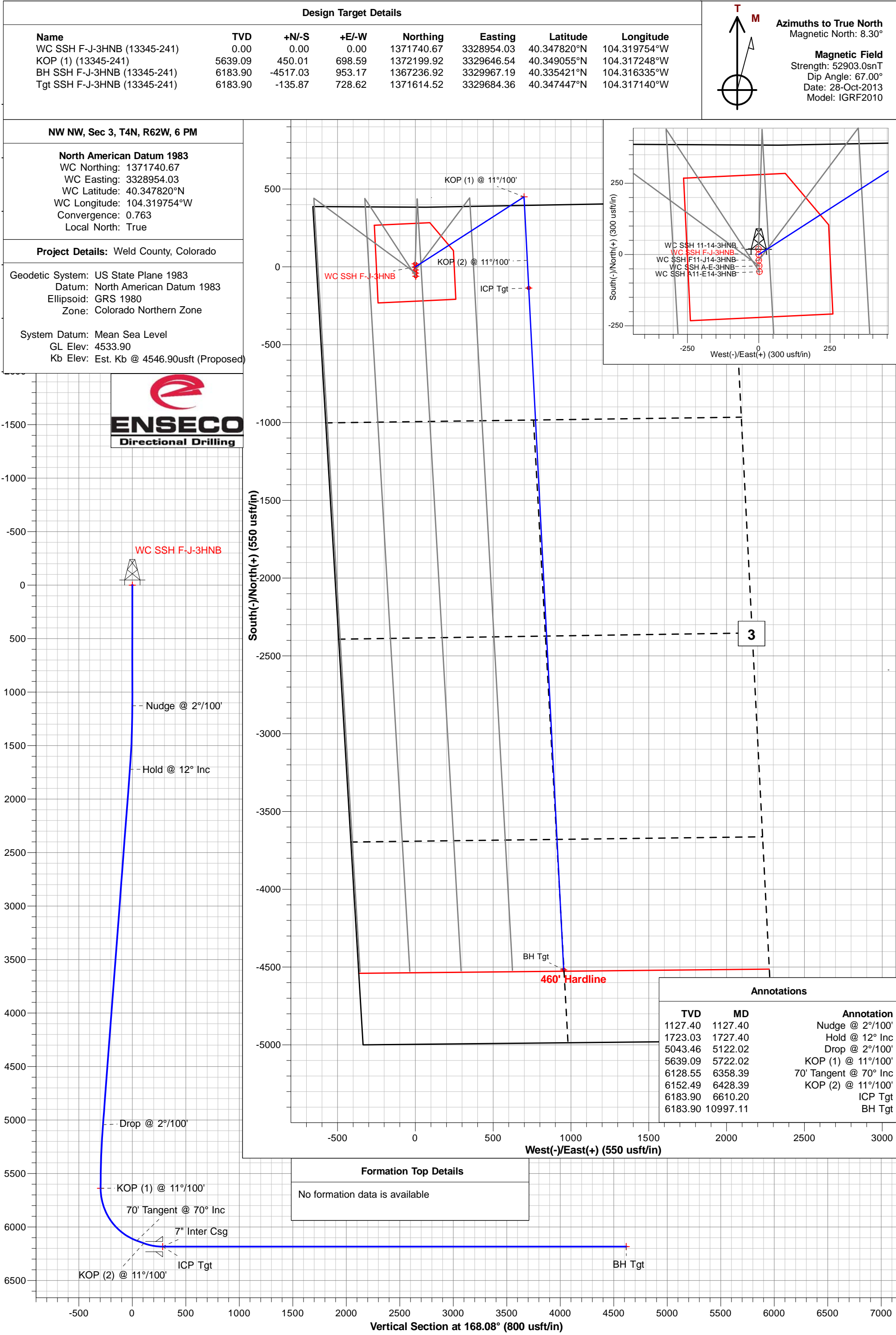
NW NW, Sec 3, T4N, R62W, 6 PM

State Seventy Holes F-J-3HNB

API #: TBD

Design: Proposal #1 (13345-241)





| | | | |
|------------------|-------------------------------|-----------------------------------|----------------------------------|
| Company: | Bonanza Creek Energy, Inc | Local Co-ordinate Ref: | State Seventy Holes F-J-3HNB |
| Project: | Weld County, Colorado | Ground Level Elevation: | 4,533.9usft |
| Site: | NW NW, Sec 3, T4N, R62W, 6 PM | Wellhead Elevation: | Est. Kb @ 4546.90usft (Proposed) |
| Well: | State Seventy Holes F-J-3HNB | North Reference: | True |
| Wellbore: | API #: TBD | Survey Calculation Method: | Minimum Curvature |
| Design: | Proposal #1 (13345-241) | Database: | EDM5000 |

| | | | |
|--------------------|---------------------------|----------------------|-----------------------------|
| Project | Weld County, Colorado | | |
| 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 | NW NW, Sec 3, T4N, R62W, 6 PM Site Position: WC State Seventy Holes 11-14-3HNB | | |
| Site Position: | | Northing: | 1,371,760.33 usft |
| From: | Map | Easting: | 3,328,952.65 usft |
| Position Uncertainty: | 0.00usft | Slot Radius: | 13-3/16 " |
| | | Latitude: | 40.347874°N |
| | | Longitude: | 104.319758°W |
| | | Grid Convergence: | 0.763° |

| | | | |
|-----------------------------|------------------------------|-------------|----------------------------|
| Well | State Seventy Holes F-J-3HNB | | |
| Well Position | +N/-S | -19.68 usft | Northing: |
| | +E/-W | 1.11 usft | Easting: |
| Position Uncertainty | 0.00 usft | | Wellhead Elevation: |
| | | | Latitude: |
| | | | Longitude: |
| | | | Ground Level: |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | API #: TBD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 28-Oct-13 | 8.299 | 66.998 | 52,903 |

| | | | | |
|--------------------------|-------------------------|--------------------------------|---------------------|----------------------|
| Design | Proposal #1 (13345-241) | | | |
| Audit Notes: | | | | |
| Version: | P1.0 | Phase: | PLAN | Tie On Depth: |
| Vertical Section: | | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) |
| | | 0.00 | 0.00 | 0.00 |
| | | | | Direction (°) |
| | | | | 168.08 |

| 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 |
| 0.00 | 0.00 | 0.00 | 0.00 | 4,546.90 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 1,127.40 | 0.00 | 0.00 | 1,127.40 | 3,419.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 1,727.40 | 12.00 | 57.21 | 1,723.03 | 2,823.87 | 33.90 | 52.63 | 2.00 | 2.00 | 0.00 | 57.212 | |
| 5,122.02 | 12.00 | 57.21 | 5,043.46 | -496.56 | 416.11 | 645.96 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 5,722.02 | 0.00 | 0.00 | 5,639.09 | -1,092.19 | 450.01 | 698.59 | 2.00 | -2.00 | 0.00 | 180.000 | KOP (1) (13345-241) |
| 6,358.39 | 70.00 | 177.07 | 6,128.55 | -1,581.65 | 107.73 | 716.13 | 11.00 | 11.00 | 0.00 | 177.066 | |
| 6,428.39 | 70.00 | 177.07 | 6,152.49 | -1,605.59 | 42.04 | 719.50 | 0.00 | 0.00 | 0.00 | 0.000 | |
| 6,610.20 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -135.87 | 728.62 | 11.00 | 11.00 | 0.00 | 0.000 | Tgt SSH F-J-3HNB (13345-241) |
| 10,997.11 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,517.03 | 953.17 | 0.00 | 0.00 | 0.00 | 0.000 | BH SSH F-J-3HNB (13345-241) |

| | | | |
|------------------|-------------------------------|-----------------------------------|----------------------------------|
| Company: | Bonanza Creek Energy, Inc | Local Co-ordinate Ref: | State Seventy Holes F-J-3HNB |
| Project: | Weld County, Colorado | Ground Level Elevation: | 4,533.9usft |
| Site: | NW NW, Sec 3, T4N, R62W, 6 PM | Wellhead Elevation: | Est. Kb @ 4546.90usft (Proposed) |
| Well: | State Seventy Holes F-J-3HNB | North Reference: | True |
| Wellbore: | API #: TBD | Survey Calculation Method: | Minimum Curvature |
| Design: | Proposal #1 (13345-241) | Database: | EDM5000 |

| 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) |
| Nudge @ 2°/100' | | | | | | | | | | |
| 1,127.40 | 0.00 | 0.00 | 1,127.40 | 3,419.50 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1,200.00 | 1.45 | 57.21 | 1,199.99 | 3,346.91 | 0.50 | 0.77 | -0.33 | 2.00 | 2.00 | 0.00 |
| 1,300.00 | 3.45 | 57.21 | 1,299.90 | 3,247.00 | 2.81 | 4.37 | -1.85 | 2.00 | 2.00 | 0.00 |
| 1,400.00 | 5.45 | 57.21 | 1,399.59 | 3,147.31 | 7.02 | 10.89 | -4.62 | 2.00 | 2.00 | 0.00 |
| 1,500.00 | 7.45 | 57.21 | 1,498.95 | 3,047.95 | 13.10 | 20.34 | -8.62 | 2.00 | 2.00 | 0.00 |
| 1,600.00 | 9.45 | 57.21 | 1,597.86 | 2,949.04 | 21.06 | 32.70 | -13.86 | 2.00 | 2.00 | 0.00 |
| 1,700.00 | 11.45 | 57.21 | 1,696.20 | 2,850.70 | 30.89 | 47.95 | -20.32 | 2.00 | 2.00 | 0.00 |
| Hold @ 12° Inc | | | | | | | | | | |
| 1,727.40 | 12.00 | 57.21 | 1,723.03 | 2,823.87 | 33.90 | 52.63 | -22.30 | 2.00 | 2.00 | 0.00 |
| 1,800.00 | 12.00 | 57.21 | 1,794.04 | 2,752.86 | 42.08 | 65.32 | -27.68 | 0.00 | 0.00 | 0.00 |
| 1,900.00 | 12.00 | 57.21 | 1,891.85 | 2,655.05 | 53.33 | 82.80 | -35.09 | 0.00 | 0.00 | 0.00 |
| 2,000.00 | 12.00 | 57.21 | 1,989.67 | 2,557.23 | 64.59 | 100.27 | -42.50 | 0.00 | 0.00 | 0.00 |
| 2,100.00 | 12.00 | 57.21 | 2,087.48 | 2,459.42 | 75.85 | 117.75 | -49.91 | 0.00 | 0.00 | 0.00 |
| 2,200.00 | 12.00 | 57.21 | 2,185.30 | 2,361.60 | 87.11 | 135.23 | -57.31 | 0.00 | 0.00 | 0.00 |
| 2,300.00 | 12.00 | 57.21 | 2,283.11 | 2,263.79 | 98.37 | 152.71 | -64.72 | 0.00 | 0.00 | 0.00 |
| 2,400.00 | 12.00 | 57.21 | 2,380.93 | 2,165.97 | 109.63 | 170.19 | -72.13 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 12.00 | 57.21 | 2,478.74 | 2,068.16 | 120.89 | 187.67 | -79.54 | 0.00 | 0.00 | 0.00 |
| 2,600.00 | 12.00 | 57.21 | 2,576.55 | 1,970.35 | 132.15 | 205.15 | -86.94 | 0.00 | 0.00 | 0.00 |
| 2,700.00 | 12.00 | 57.21 | 2,674.37 | 1,872.53 | 143.41 | 222.63 | -94.35 | 0.00 | 0.00 | 0.00 |
| 2,800.00 | 12.00 | 57.21 | 2,772.18 | 1,774.72 | 154.67 | 240.10 | -101.76 | 0.00 | 0.00 | 0.00 |
| 2,900.00 | 12.00 | 57.21 | 2,870.00 | 1,676.90 | 165.93 | 257.58 | -109.17 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 12.00 | 57.21 | 2,967.81 | 1,579.09 | 177.19 | 275.06 | -116.57 | 0.00 | 0.00 | 0.00 |
| 3,100.00 | 12.00 | 57.21 | 3,065.63 | 1,481.27 | 188.44 | 292.54 | -123.98 | 0.00 | 0.00 | 0.00 |
| 3,200.00 | 12.00 | 57.21 | 3,163.44 | 1,383.46 | 199.70 | 310.02 | -131.39 | 0.00 | 0.00 | 0.00 |
| 3,300.00 | 12.00 | 57.21 | 3,261.26 | 1,285.64 | 210.96 | 327.50 | -138.80 | 0.00 | 0.00 | 0.00 |
| 3,400.00 | 12.00 | 57.21 | 3,359.07 | 1,187.83 | 222.22 | 344.98 | -146.21 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 12.00 | 57.21 | 3,456.89 | 1,090.01 | 233.48 | 362.46 | -153.61 | 0.00 | 0.00 | 0.00 |
| 3,600.00 | 12.00 | 57.21 | 3,554.70 | 992.20 | 244.74 | 379.93 | -161.02 | 0.00 | 0.00 | 0.00 |
| 3,700.00 | 12.00 | 57.21 | 3,652.52 | 894.38 | 256.00 | 397.41 | -168.43 | 0.00 | 0.00 | 0.00 |
| 3,800.00 | 12.00 | 57.21 | 3,750.33 | 796.57 | 267.26 | 414.89 | -175.84 | 0.00 | 0.00 | 0.00 |
| 3,900.00 | 12.00 | 57.21 | 3,848.15 | 698.75 | 278.52 | 432.37 | -183.24 | 0.00 | 0.00 | 0.00 |
| 4,000.00 | 12.00 | 57.21 | 3,945.96 | 600.94 | 289.78 | 449.85 | -190.65 | 0.00 | 0.00 | 0.00 |
| 4,100.00 | 12.00 | 57.21 | 4,043.78 | 503.12 | 301.04 | 467.33 | -198.06 | 0.00 | 0.00 | 0.00 |
| 4,200.00 | 12.00 | 57.21 | 4,141.59 | 405.31 | 312.29 | 484.81 | -205.47 | 0.00 | 0.00 | 0.00 |
| 4,300.00 | 12.00 | 57.21 | 4,239.41 | 307.49 | 323.55 | 502.28 | -212.88 | 0.00 | 0.00 | 0.00 |
| 4,400.00 | 12.00 | 57.21 | 4,337.22 | 209.68 | 334.81 | 519.76 | -220.28 | 0.00 | 0.00 | 0.00 |
| 4,500.00 | 12.00 | 57.21 | 4,435.04 | 111.86 | 346.07 | 537.24 | -227.69 | 0.00 | 0.00 | 0.00 |
| 4,600.00 | 12.00 | 57.21 | 4,532.85 | 14.05 | 357.33 | 554.72 | -235.10 | 0.00 | 0.00 | 0.00 |
| 4,700.00 | 12.00 | 57.21 | 4,630.66 | -83.76 | 368.59 | 572.20 | -242.51 | 0.00 | 0.00 | 0.00 |
| 4,800.00 | 12.00 | 57.21 | 4,728.48 | -181.58 | 379.85 | 589.68 | -249.91 | 0.00 | 0.00 | 0.00 |
| 4,900.00 | 12.00 | 57.21 | 4,826.29 | -279.39 | 391.11 | 607.16 | -257.32 | 0.00 | 0.00 | 0.00 |
| 5,000.00 | 12.00 | 57.21 | 4,924.11 | -377.21 | 402.37 | 624.64 | -264.73 | 0.00 | 0.00 | 0.00 |
| 5,100.00 | 12.00 | 57.21 | 5,021.92 | -475.02 | 413.63 | 642.11 | -272.14 | 0.00 | 0.00 | 0.00 |
| Drop @ 2°/100' | | | | | | | | | | |
| 5,122.02 | 12.00 | 57.21 | 5,043.46 | -496.56 | 416.11 | 645.96 | -273.77 | 0.00 | 0.00 | 0.00 |
| 5,200.00 | 10.44 | 57.21 | 5,119.95 | -573.05 | 424.32 | 658.72 | -279.17 | 2.00 | -2.00 | 0.00 |
| 5,300.00 | 8.44 | 57.21 | 5,218.59 | -671.69 | 433.21 | 672.51 | -285.02 | 2.00 | -2.00 | 0.00 |
| 5,400.00 | 6.44 | 57.21 | 5,317.74 | -770.84 | 440.22 | 683.39 | -289.63 | 2.00 | -2.00 | 0.00 |
| 5,500.00 | 4.44 | 57.21 | 5,417.29 | -870.39 | 445.35 | 691.36 | -293.01 | 2.00 | -2.00 | 0.00 |
| 5,600.00 | 2.44 | 57.21 | 5,517.10 | -970.20 | 448.60 | 696.41 | -295.15 | 2.00 | -2.00 | 0.00 |
| 5,700.00 | 0.44 | 57.21 | 5,617.07 | -1,070.17 | 449.96 | 698.52 | -296.04 | 2.00 | -2.00 | 0.00 |
| KOP (1) @ 11°/100' | | | | | | | | | | |

| | | | |
|------------------|-------------------------------|-----------------------------------|----------------------------------|
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| Site: | NW NW, Sec 3, T4N, R62W, 6 PM | Wellhead Elevation: | Est. Kb @ 4546.90usft (Proposed) |
| Well: | State Seventy Holes F-J-3HNB | North Reference: | True |
| Wellbore: | API #: TBD | Survey Calculation Method: | Minimum Curvature |
| Design: | Proposal #1 (13345-241) | Database: | EDM5000 |

| 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) |
| 5,722.02 | 0.00 | 0.00 | 5,639.09 | -1,092.19 | 450.01 | 698.59 | -296.07 | 2.00 | -2.00 | 0.00 |
| 5,800.00 | 8.58 | 177.07 | 5,716.77 | -1,169.87 | 444.19 | 698.89 | -290.32 | 11.00 | 11.00 | 0.00 |
| 5,900.00 | 19.58 | 177.07 | 5,813.62 | -1,266.72 | 419.94 | 700.13 | -266.33 | 11.00 | 11.00 | 0.00 |
| 6,000.00 | 30.58 | 177.07 | 5,904.06 | -1,357.16 | 377.67 | 702.30 | -224.53 | 11.00 | 11.00 | 0.00 |
| 6,100.00 | 41.58 | 177.07 | 5,984.76 | -1,437.86 | 318.95 | 705.31 | -166.45 | 11.00 | 11.00 | 0.00 |
| 6,200.00 | 52.58 | 177.07 | 6,052.75 | -1,505.85 | 245.93 | 709.05 | -94.23 | 11.00 | 11.00 | 0.00 |
| 6,300.00 | 63.58 | 177.07 | 6,105.55 | -1,558.65 | 161.30 | 713.39 | -10.53 | 11.00 | 11.00 | 0.00 |
| 70' Tangent @ 70° Inc | | | | | | | | | | |
| 6,358.39 | 70.00 | 177.07 | 6,128.55 | -1,581.65 | 107.73 | 716.13 | 42.45 | 11.00 | 11.00 | 0.00 |
| 6,400.00 | 70.00 | 177.07 | 6,142.78 | -1,595.88 | 68.68 | 718.14 | 81.07 | 0.00 | 0.00 | 0.00 |
| KOP (2) @ 11°/100' | | | | | | | | | | |
| 6,428.39 | 70.00 | 177.07 | 6,152.49 | -1,605.59 | 42.04 | 719.50 | 107.42 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 77.88 | 177.07 | 6,172.29 | -1,625.39 | -26.63 | 723.02 | 175.34 | 11.00 | 11.00 | 0.00 |
| 6,600.00 | 88.88 | 177.07 | 6,183.80 | -1,636.90 | -125.68 | 728.10 | 273.31 | 11.00 | 11.00 | 0.00 |
| ICP Tgt - 7" Inter Csg | | | | | | | | | | |
| 6,610.20 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -135.87 | 728.62 | 283.38 | 11.00 | 11.00 | 0.00 |
| 6,700.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -225.55 | 733.22 | 372.08 | 0.00 | 0.00 | 0.00 |
| 6,800.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -325.42 | 738.34 | 470.85 | 0.00 | 0.00 | 0.00 |
| 6,900.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -425.29 | 743.45 | 569.63 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -525.16 | 748.57 | 668.40 | 0.00 | 0.00 | 0.00 |
| 7,100.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -625.03 | 753.69 | 767.17 | 0.00 | 0.00 | 0.00 |
| 7,200.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -724.89 | 758.81 | 865.95 | 0.00 | 0.00 | 0.00 |
| 7,300.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -824.76 | 763.93 | 964.72 | 0.00 | 0.00 | 0.00 |
| 7,400.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -924.63 | 769.05 | 1,063.50 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,024.50 | 774.17 | 1,162.27 | 0.00 | 0.00 | 0.00 |
| 7,600.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,124.37 | 779.29 | 1,261.04 | 0.00 | 0.00 | 0.00 |
| 7,700.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,224.24 | 784.40 | 1,359.82 | 0.00 | 0.00 | 0.00 |
| 7,800.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,324.11 | 789.52 | 1,458.59 | 0.00 | 0.00 | 0.00 |
| 7,900.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,423.98 | 794.64 | 1,557.36 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,523.85 | 799.76 | 1,656.14 | 0.00 | 0.00 | 0.00 |
| 8,100.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,623.71 | 804.88 | 1,754.91 | 0.00 | 0.00 | 0.00 |
| 8,200.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,723.58 | 810.00 | 1,853.69 | 0.00 | 0.00 | 0.00 |
| 8,300.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,823.45 | 815.12 | 1,952.46 | 0.00 | 0.00 | 0.00 |
| 8,400.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -1,923.32 | 820.24 | 2,051.23 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,023.19 | 825.35 | 2,150.01 | 0.00 | 0.00 | 0.00 |
| 8,600.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,123.06 | 830.47 | 2,248.78 | 0.00 | 0.00 | 0.00 |
| 8,700.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,222.93 | 835.59 | 2,347.56 | 0.00 | 0.00 | 0.00 |
| 8,800.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,322.80 | 840.71 | 2,446.33 | 0.00 | 0.00 | 0.00 |
| 8,900.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,422.67 | 845.83 | 2,545.10 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,522.54 | 850.95 | 2,643.88 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,622.40 | 856.07 | 2,742.65 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,722.27 | 861.18 | 2,841.43 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,822.14 | 866.30 | 2,940.20 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -2,922.01 | 871.42 | 3,038.97 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,021.88 | 876.54 | 3,137.75 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,121.75 | 881.66 | 3,236.52 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,221.62 | 886.78 | 3,335.29 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,321.49 | 891.90 | 3,434.07 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,421.36 | 897.02 | 3,532.84 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,521.22 | 902.13 | 3,631.62 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,621.09 | 907.25 | 3,730.39 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,720.96 | 912.37 | 3,829.16 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,820.83 | 917.49 | 3,927.94 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|-------------------------------|-----------------------------------|----------------------------------|
| Company: | Bonanza Creek Energy, Inc | Local Co-ordinate Ref: | State Seventy Holes F-J-3HNB |
| Project: | Weld County, Colorado | Ground Level Elevation: | 4,533.9usft |
| Site: | NW NW, Sec 3, T4N, R62W, 6 PM | Wellhead Elevation: | Est. Kb @ 4546.90usft (Proposed) |
| Well: | State Seventy Holes F-J-3HNB | North Reference: | True |
| Wellbore: | API #: TBD | Survey Calculation Method: | Minimum Curvature |
| Design: | Proposal #1 (13345-241) | Database: | EDM5000 |

| 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) |
| 10,400.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -3,920.70 | 922.61 | 4,026.71 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,020.57 | 927.73 | 4,125.49 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,120.44 | 932.85 | 4,224.26 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,220.31 | 937.97 | 4,323.03 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,320.18 | 943.08 | 4,421.81 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,420.04 | 948.20 | 4,520.58 | 0.00 | 0.00 | 0.00 |
| BH Tgt | | | | | | | | | | |
| 10,997.11 | 90.00 | 177.07 | 6,183.90 | -1,637.00 | -4,517.03 | 953.17 | 4,616.50 | 0.00 | 0.00 | 0.00 |

| Targets | | | | | | | | | | |
|--|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|-------------|--------------|--|
| Target Name - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude | |
| WC SSH A11-E14-3HNB (1334- - Circle (radius 10.00) | 0.00 | 0.00 | 0.20 | -60.11 | 2.51 | 1,371,680.60 | 3,328,957.33 | 40.347655°N | 104.319745°W | |
| BH SSH F-J-3HNB (13345-24- - Circle (radius 10.00) | 0.00 | 0.00 | 6,183.90 | -4,517.03 | 953.17 | 1,367,236.92 | 3,329,967.19 | 40.335421°N | 104.316335°W | |
| WC SSH 11-14-3HNB (13344- - Circle (radius 10.00) | 0.00 | 0.00 | 0.00 | 19.68 | -1.11 | 1,371,760.33 | 3,328,952.65 | 40.347874°N | 104.319758°W | |
| WC SSH F-J-3HNB (13345-24- - Circle (radius 10.00) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 1,371,740.67 | 3,328,954.03 | 40.347820°N | 104.319754°W | |
| WC SSH F11-J14-3HNB (1334- - Circle (radius 10.00) | 0.00 | 0.00 | 0.10 | -20.04 | 0.28 | 1,371,720.64 | 3,328,954.57 | 40.347765°N | 104.319753°W | |
| WC SSH A-E-3HNB (13347-24- - Circle (radius 10.00) | 0.00 | 0.00 | 0.10 | -40.07 | 1.67 | 1,371,700.63 | 3,328,956.23 | 40.347710°N | 104.319748°W | |
| Tgt SSH F-J-3HNB (13345-24- - Circle (radius 10.00) | 0.00 | 0.00 | 6,183.90 | -135.87 | 728.62 | 1,371,614.52 | 3,329,684.36 | 40.347447°N | 104.317140°W | |
| KOP (1) (13345-241) - Point | 0.00 | 0.00 | 5,639.09 | 450.01 | 698.59 | 1,372,199.92 | 3,329,646.54 | 40.349055°N | 104.317248°W | |

| Casing Points | | | | | | Casing Diameter (") | Hole Diameter (") |
|---------------|---------------|--------------|--|--|--|---------------------------|-------------------------|
| MD (usft) | TVD (usft) | Name | | | | | |
| 6,610.20 | 6,183.90 | 7" Inter Csg | | | | 7 | 8-3/4 |

| | | | |
|------------------|-------------------------------|-----------------------------------|----------------------------------|
| Company: | Bonanza Creek Energy, Inc | Local Co-ordinate Ref: | State Seventy Holes F-J-3HNB |
| Project: | Weld County, Colorado | Ground Level Elevation: | 4,533.9usft |
| Site: | NW NW, Sec 3, T4N, R62W, 6 PM | Wellhead Elevation: | Est. Kb @ 4546.90usft (Proposed) |
| Well: | State Seventy Holes F-J-3HNB | North Reference: | True |
| Wellbore: | API #: TBD | Survey Calculation Method: | Minimum Curvature |
| Design: | Proposal #1 (13345-241) | Database: | EDM5000 |

| Plan Annotations | | | | |
|-------------------|---------------|-----------------|-----------------|-----------------------|
| Local Coordinates | | | | |
| MD (usft) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Comment |
| 1,127.40 | 1,127.40 | 0.00 | 0.00 | Nudge @ 2°/100' |
| 1,727.40 | 1,723.03 | 33.90 | 52.63 | Hold @ 12° Inc |
| 5,122.02 | 5,043.46 | 416.11 | 645.96 | Drop @ 2°/100' |
| 5,722.02 | 5,639.09 | 450.01 | 698.59 | KOP (1) @ 11°/100' |
| 6,358.39 | 6,128.55 | 107.73 | 716.13 | 70' Tangent @ 70° Inc |
| 6,428.39 | 6,152.49 | 42.04 | 719.50 | KOP (2) @ 11°/100' |
| 6,610.20 | 6,183.90 | -135.87 | 728.62 | ICP Tgt |
| 10,997.11 | 6,183.90 | -4,517.03 | 953.17 | BH Tgt |