

Archer

SHL
2352' FSL & 1556' FWL

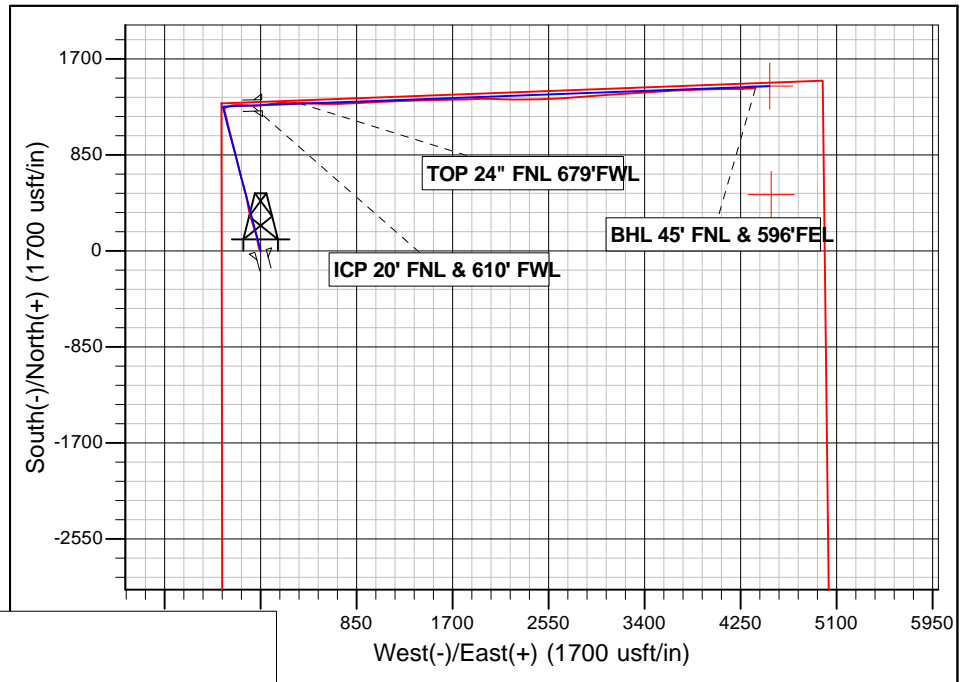
Bonanza Creek Energy Inc.
Project: Weld Co., CO
Site: Sec.2-T5N-R62W
Well: State Antelope A-U-2HNB
Wellbore: Wellbore #1
Design: Design #2
Lat: 40° 25' 59.318 N
Long: 104° 17' 55.676 W
Pad GL: 4646.00
KB: WELL @ 4663.00usft (Original Well Elev)

PROJECT DETAILS: Weld Co., CO

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: Colorado Northern Zone

System Datum: Mean Sea Level

Projected Bottom Hole Location
10967'MD 6217.19'TVD 1441.07'N & 4382.53'E OF SHL
87.50 degree Incl @ 86.90 degree AZM

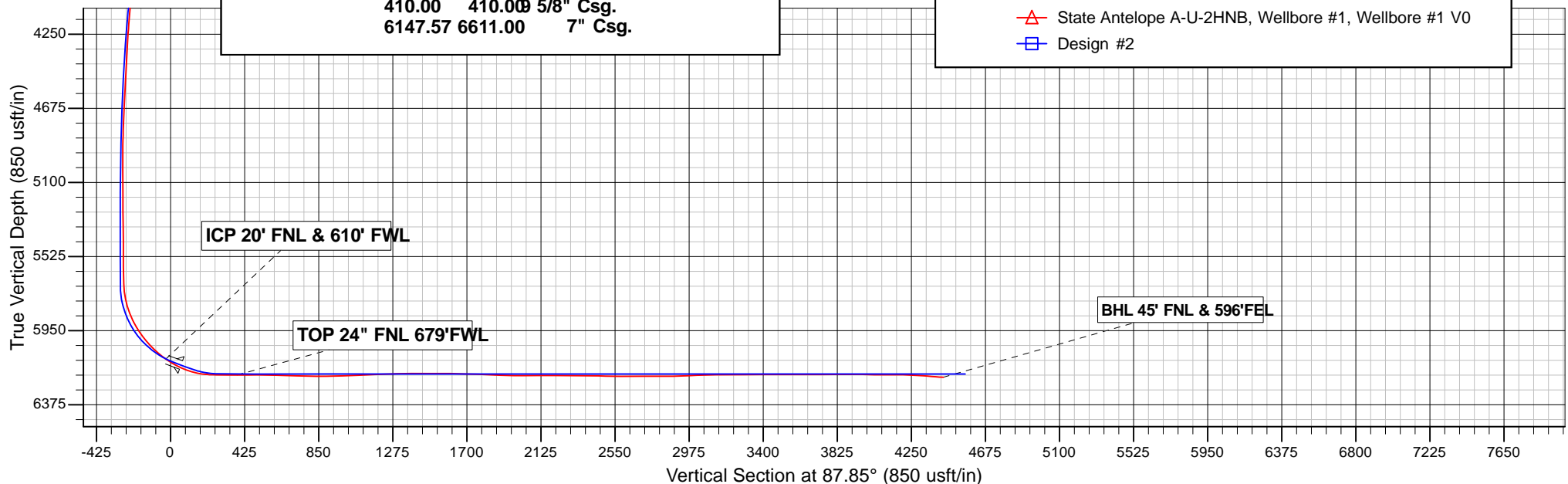


CASING DETAILS

| TVD | MD | Name |
|---------|---------|-----------|
| 410.00 | 410.00 | 5/8" Csg. |
| 6147.57 | 6611.00 | 7" Csg. |

LEGEND

- State Antelope A-U-2HNB, Wellbore #1, Wellbore #1 V0
- Design #2



Bonanza Creek Energy Inc.

Weld Co., CO

Sec.2-T5N-R62W

State Antelope A-U-2HNB

Wellbore #1

Survey: Survey #1

Standard Survey Report

01 May, 2015

Archer

| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Company: | Bonanza Creek Energy Inc. | Local Co-ordinate Reference: | Well State Antelope A-U-2HNB |
| Project: | Weld Co., CO | TVD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Site: | Sec.2-T5N-R62W | MD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Well: | State Antelope A-U-2HNB | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDMDBBW |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Weld Co., CO | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| | | | | | |
|-----------------------|-----------|----------------|--------------------|-------------------|-------------------|
| Site | | Sec.2-T5N-R62W | | | |
| Site Position: | | Northing: | 1,402,901.959 usft | Latitude: | 40° 25' 59.318 N |
| From: | Lat/Long | Easting: | 3,334,557.677 usft | Longitude: | 104° 17' 53.290 W |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 0.78 ° |

| Well | State Antelope A-U-2HNB | | | | | |
|----------------------|-------------------------|-----------|---------------------|--------------------|---------------|-------------------|
| Well Position | +N/-S | 0.00 usft | Northing: | 1,402,899.450 usft | Latitude: | 40° 25' 59.318 N |
| | +E/-W | 0.00 usft | Easting: | 3,334,373.132 usft | Longitude: | 104° 17' 55.676 W |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 4,646.00 usft |

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|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Wellbore #1 | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 2015/02/17 | 8.12 | 67.02 | 52,810 |

| | | | | | |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|------|
| Design | Wellbore #1 | | | | |
| Audit Notes: | | | | | |
| Version: | 1.0 | Phase: | ACTUAL | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) | |
| | 0.00 | 0.00 | 0.00 | 87.85 | |

| | | | | | |
|-----------------------|------------------|--------------------------|------------------|--------------------|--|
| Survey Program | Date | 2015/05/01 | | | |
| From (usft) | To (usft) | Survey (Wellbore) | Tool Name | Description | |
| 453.00 | 10,967.00 | Survey #1 (Wellbore #1) | MWD | MWD - Standard | |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| First Archer Survey | | | | | | | | | |
| 453.00 | 0.00 | 0.00 | 453.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 505.00 | 0.70 | 190.20 | 505.00 | -0.31 | -0.06 | -0.07 | 1.35 | 1.35 | 0.00 |
| 598.00 | 0.80 | 220.10 | 597.99 | -1.37 | -0.58 | -0.63 | 0.43 | 0.11 | 32.15 |
| 689.00 | 0.80 | 211.20 | 688.98 | -2.40 | -1.31 | -1.40 | 0.14 | 0.00 | -9.78 |
| 781.00 | 0.70 | 214.30 | 780.97 | -3.41 | -1.96 | -2.09 | 0.12 | -0.11 | 3.37 |
| 872.00 | 0.70 | 202.40 | 871.97 | -4.38 | -2.49 | -2.65 | 0.16 | 0.00 | -13.08 |
| 964.00 | 0.90 | 322.90 | 963.96 | -4.33 | -3.14 | -3.30 | 1.51 | 0.22 | 130.98 |
| 1,056.00 | 1.70 | 343.10 | 1,055.94 | -2.45 | -3.97 | -4.06 | 0.99 | 0.87 | 21.96 |
| 1,147.00 | 1.80 | 336.70 | 1,146.90 | 0.16 | -4.93 | -4.92 | 0.24 | 0.11 | -7.03 |
| 1,239.00 | 1.80 | 338.80 | 1,238.85 | 2.83 | -6.02 | -5.91 | 0.07 | 0.00 | 2.28 |
| 1,331.00 | 1.80 | 339.10 | 1,330.81 | 5.53 | -7.06 | -6.85 | 0.01 | 0.00 | 0.33 |

| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Company: | Bonanza Creek Energy Inc. | Local Co-ordinate Reference: | Well State Antelope A-U-2HNB |
| Project: | Weld Co., CO | TVD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Site: | Sec.2-T5N-R62W | MD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Well: | State Antelope A-U-2HNB | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDMDBBW |

| Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 1,423.00 | 1.80 | 340.30 | 1,422.76 | 8.24 | -8.06 | -7.75 | 0.04 | 0.00 | 1.30 |
| 1,514.00 | 1.80 | 346.00 | 1,513.72 | 10.97 | -8.89 | -8.47 | 0.20 | 0.00 | 6.26 |
| 1,606.00 | 3.20 | 334.10 | 1,605.63 | 14.68 | -10.36 | -9.80 | 1.61 | 1.52 | -12.93 |
| 1,697.00 | 4.30 | 334.60 | 1,696.43 | 20.05 | -12.93 | -12.17 | 1.21 | 1.21 | 0.55 |
| 1,789.00 | 5.90 | 342.10 | 1,788.06 | 27.67 | -15.87 | -14.82 | 1.88 | 1.74 | 8.15 |
| 1,880.00 | 7.60 | 351.10 | 1,878.43 | 38.06 | -18.24 | -16.80 | 2.19 | 1.87 | 9.89 |
| 1,966.00 | 10.10 | 348.50 | 1,963.40 | 51.07 | -20.62 | -18.69 | 2.94 | 2.91 | -3.02 |
| 2,051.00 | 12.10 | 344.10 | 2,046.81 | 66.95 | -24.55 | -22.02 | 2.55 | 2.35 | -5.18 |
| 2,135.00 | 12.50 | 349.30 | 2,128.88 | 84.35 | -28.65 | -25.46 | 1.40 | 0.48 | 6.19 |
| 2,220.00 | 13.10 | 349.60 | 2,211.77 | 102.86 | -32.09 | -28.21 | 0.71 | 0.71 | 0.35 |
| 2,304.00 | 14.40 | 350.60 | 2,293.36 | 122.53 | -35.52 | -30.90 | 1.57 | 1.55 | 1.19 |
| 2,389.00 | 16.70 | 347.70 | 2,375.25 | 144.89 | -39.85 | -34.38 | 2.86 | 2.71 | -3.41 |
| 2,474.00 | 19.10 | 341.00 | 2,456.13 | 169.98 | -46.98 | -40.57 | 3.72 | 2.82 | -7.88 |
| 2,559.00 | 20.80 | 339.50 | 2,536.03 | 197.27 | -56.79 | -49.35 | 2.09 | 2.00 | -1.76 |
| 2,644.00 | 22.90 | 340.30 | 2,614.92 | 226.98 | -67.65 | -59.09 | 2.50 | 2.47 | 0.94 |
| 2,728.00 | 23.60 | 342.50 | 2,692.10 | 258.40 | -78.22 | -68.47 | 1.33 | 0.83 | 2.62 |
| 2,813.00 | 25.00 | 345.70 | 2,769.57 | 292.04 | -87.77 | -76.75 | 2.26 | 1.65 | 3.76 |
| 2,898.00 | 25.50 | 347.90 | 2,846.45 | 327.33 | -96.04 | -83.70 | 1.25 | 0.59 | 2.59 |
| 2,983.00 | 26.30 | 348.70 | 2,922.91 | 363.69 | -103.57 | -89.85 | 1.03 | 0.94 | 0.94 |
| 3,068.00 | 28.00 | 348.10 | 2,998.55 | 401.68 | -111.37 | -96.23 | 2.03 | 2.00 | -0.71 |
| 3,153.00 | 30.50 | 349.80 | 3,072.70 | 442.44 | -119.31 | -102.63 | 3.10 | 2.94 | 2.00 |
| 3,238.00 | 31.60 | 346.10 | 3,145.53 | 485.29 | -128.48 | -110.18 | 2.59 | 1.29 | -4.35 |
| 3,323.00 | 33.10 | 345.40 | 3,217.33 | 529.37 | -139.68 | -119.72 | 1.82 | 1.76 | -0.82 |
| 3,408.00 | 35.30 | 345.70 | 3,287.63 | 575.64 | -151.60 | -129.90 | 2.60 | 2.59 | 0.35 |
| 3,493.00 | 36.40 | 345.50 | 3,356.53 | 623.85 | -163.98 | -140.46 | 1.30 | 1.29 | -0.24 |
| 3,578.00 | 37.60 | 343.60 | 3,424.41 | 673.15 | -177.62 | -152.24 | 1.95 | 1.41 | -2.24 |
| 3,663.00 | 36.80 | 344.70 | 3,492.12 | 722.58 | -191.66 | -164.41 | 1.22 | -0.94 | 1.29 |
| 3,748.00 | 35.60 | 346.10 | 3,560.71 | 771.16 | -204.32 | -175.24 | 1.71 | -1.41 | 1.65 |
| 3,833.00 | 33.10 | 347.60 | 3,630.88 | 817.85 | -215.25 | -184.41 | 3.10 | -2.94 | 1.76 |
| 3,918.00 | 30.20 | 347.80 | 3,703.23 | 861.42 | -224.75 | -192.28 | 3.41 | -3.41 | 0.24 |
| 4,005.00 | 29.70 | 347.30 | 3,778.61 | 903.84 | -234.11 | -200.04 | 0.64 | -0.57 | -0.57 |
| 4,091.00 | 25.70 | 345.10 | 3,854.75 | 942.66 | -243.60 | -208.06 | 4.80 | -4.65 | -2.56 |
| 4,176.00 | 24.40 | 345.00 | 3,931.75 | 977.43 | -252.88 | -216.03 | 1.53 | -1.53 | -0.12 |
| 4,261.00 | 22.80 | 344.90 | 4,009.64 | 1,010.29 | -261.71 | -223.63 | 1.88 | -1.88 | -0.12 |
| 4,346.00 | 21.40 | 345.20 | 4,088.39 | 1,041.18 | -269.97 | -230.72 | 1.65 | -1.65 | 0.35 |
| 4,431.00 | 20.70 | 345.30 | 4,167.72 | 1,070.71 | -277.74 | -237.38 | 0.82 | -0.82 | 0.12 |
| 4,517.00 | 18.70 | 346.60 | 4,248.68 | 1,098.82 | -284.79 | -243.37 | 2.38 | -2.33 | 1.51 |
| 4,605.00 | 17.70 | 347.20 | 4,332.28 | 1,125.59 | -291.03 | -248.59 | 1.16 | -1.14 | 0.68 |
| 4,690.00 | 15.80 | 347.90 | 4,413.67 | 1,149.51 | -296.32 | -252.98 | 2.25 | -2.24 | 0.82 |
| 4,775.00 | 15.20 | 347.70 | 4,495.57 | 1,171.71 | -301.11 | -256.94 | 0.71 | -0.71 | -0.24 |
| 4,860.00 | 14.30 | 346.90 | 4,577.77 | 1,192.82 | -305.87 | -260.90 | 1.09 | -1.06 | -0.94 |
| 4,947.00 | 12.00 | 342.90 | 4,662.49 | 1,211.94 | -310.96 | -265.28 | 2.84 | -2.64 | -4.60 |
| 5,032.00 | 9.90 | 343.10 | 4,745.94 | 1,227.38 | -315.69 | -269.42 | 2.47 | -2.47 | 0.24 |
| 5,117.00 | 7.60 | 348.90 | 4,829.94 | 1,239.88 | -318.89 | -272.15 | 2.89 | -2.71 | 6.82 |
| 5,204.00 | 5.20 | 351.00 | 4,916.39 | 1,249.43 | -320.62 | -273.52 | 2.77 | -2.76 | 2.41 |
| 5,289.00 | 3.90 | 0.20 | 5,001.12 | 1,256.12 | -321.21 | -273.86 | 1.75 | -1.53 | 10.82 |
| 5,374.00 | 1.80 | 8.30 | 5,086.02 | 1,260.33 | -321.01 | -273.50 | 2.51 | -2.47 | 9.53 |
| 5,461.00 | 1.20 | 13.70 | 5,172.99 | 1,262.57 | -320.59 | -273.00 | 0.71 | -0.69 | 6.21 |
| 5,550.00 | 1.10 | 26.10 | 5,261.97 | 1,264.24 | -320.00 | -272.34 | 0.30 | -0.11 | 13.93 |
| 5,637.00 | 0.90 | 16.80 | 5,348.95 | 1,265.65 | -319.43 | -271.73 | 0.30 | -0.23 | -10.69 |
| 5,723.00 | 0.60 | 154.70 | 5,434.95 | 1,265.89 | -319.05 | -271.33 | 1.63 | -0.35 | 160.35 |
| 5,808.00 | 0.80 | 123.40 | 5,519.94 | 1,265.16 | -318.36 | -270.67 | 0.50 | 0.24 | -36.82 |
| 5,893.00 | 0.80 | 104.90 | 5,604.94 | 1,264.68 | -317.29 | -269.62 | 0.30 | 0.00 | -21.76 |
| 5,928.00 | 0.70 | 103.50 | 5,639.93 | 1,264.56 | -316.85 | -269.18 | 0.29 | -0.29 | -4.00 |

| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Company: | Bonanza Creek Energy Inc. | Local Co-ordinate Reference: | Well State Antelope A-U-2HNB |
| Project: | Weld Co., CO | TVD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Site: | Sec.2-T5N-R62W | MD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Well: | State Antelope A-U-2HNB | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDMDBBW |

| Survey | | | | | | | | | | |
|------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 5,973.00 | 1.70 | 65.30 | 5,684.92 | 1,264.78 | -315.97 | -268.30 | 2.73 | 2.22 | -84.89 | |
| 6,015.00 | 7.50 | 67.70 | 5,726.77 | 1,266.08 | -312.87 | -265.15 | 13.81 | 13.81 | 5.71 | |
| 6,057.00 | 12.90 | 62.10 | 5,768.09 | 1,269.32 | -306.18 | -258.35 | 13.06 | 12.86 | -13.33 | |
| 6,100.00 | 18.30 | 65.90 | 5,809.49 | 1,274.32 | -295.77 | -247.76 | 12.77 | 12.56 | 8.84 | |
| 6,142.00 | 22.70 | 66.70 | 5,848.82 | 1,280.22 | -282.30 | -234.08 | 10.50 | 10.48 | 1.90 | |
| 6,185.00 | 25.80 | 72.40 | 5,888.03 | 1,286.34 | -265.76 | -217.31 | 9.03 | 7.21 | 13.26 | |
| 6,228.00 | 30.10 | 82.30 | 5,926.03 | 1,290.62 | -246.13 | -197.54 | 14.68 | 10.00 | 23.02 | |
| 6,270.00 | 35.50 | 90.00 | 5,961.33 | 1,292.03 | -223.47 | -174.84 | 16.22 | 12.86 | 18.33 | |
| 6,313.00 | 38.30 | 91.70 | 5,995.72 | 1,291.63 | -197.66 | -149.07 | 6.93 | 6.51 | 3.95 | |
| 6,357.00 | 42.50 | 92.60 | 6,029.22 | 1,290.56 | -169.17 | -120.64 | 9.64 | 9.55 | 2.05 | |
| 6,400.00 | 45.80 | 92.40 | 6,060.07 | 1,289.25 | -139.25 | -90.79 | 7.68 | 7.67 | -0.47 | |
| 6,444.00 | 49.80 | 92.30 | 6,089.62 | 1,287.91 | -106.69 | -58.30 | 9.09 | 9.09 | -0.23 | |
| ICP 20' FNL & 610' FWL | | | | | | | | | | |
| 6,483.00 | 55.09 | 91.07 | 6,113.38 | 1,287.02 | -75.80 | -27.46 | 13.78 | 13.55 | -3.14 | |
| 6,489.00 | 55.90 | 90.90 | 6,116.78 | 1,286.93 | -70.86 | -22.53 | 13.78 | 13.57 | -2.90 | |
| 6,533.00 | 61.10 | 87.90 | 6,139.77 | 1,287.35 | -33.36 | 14.96 | 13.17 | 11.82 | -6.82 | |
| 6,576.00 | 65.20 | 83.20 | 6,159.19 | 1,290.35 | 4.86 | 53.26 | 13.64 | 9.53 | -10.93 | |
| 6,618.00 | 68.90 | 81.20 | 6,175.57 | 1,295.61 | 43.17 | 91.74 | 9.84 | 8.81 | -4.76 | |
| 6,661.00 | 75.30 | 81.60 | 6,188.78 | 1,301.72 | 83.60 | 132.38 | 14.91 | 14.88 | 0.93 | |
| 6,703.00 | 81.60 | 84.80 | 6,197.18 | 1,306.58 | 124.44 | 173.37 | 16.75 | 15.00 | 7.62 | |
| 6,746.00 | 86.80 | 87.20 | 6,201.53 | 1,309.56 | 167.10 | 216.11 | 13.31 | 12.09 | 5.58 | |
| 6,789.00 | 89.00 | 89.40 | 6,203.10 | 1,310.83 | 210.04 | 259.07 | 7.23 | 5.12 | 5.12 | |
| 6,876.00 | 89.50 | 91.10 | 6,204.24 | 1,310.45 | 297.03 | 345.99 | 2.04 | 0.57 | 1.95 | |
| TOP 24" FNL 679'FWL | | | | | | | | | | |
| 6,912.00 | 90.01 | 91.18 | 6,204.40 | 1,309.74 | 333.03 | 381.93 | 1.43 | 1.41 | 0.22 | |
| 6,968.00 | 90.80 | 91.30 | 6,204.00 | 1,308.53 | 389.01 | 437.83 | 1.43 | 1.41 | 0.22 | |
| 7,059.00 | 89.30 | 92.10 | 6,203.92 | 1,305.83 | 479.97 | 528.62 | 1.87 | -1.65 | 0.88 | |
| 7,151.00 | 88.40 | 91.80 | 6,205.77 | 1,302.70 | 571.89 | 620.36 | 1.03 | -0.98 | -0.33 | |
| 7,243.00 | 88.10 | 89.60 | 6,208.58 | 1,301.57 | 663.84 | 712.20 | 2.41 | -0.33 | -2.39 | |
| 7,335.00 | 88.90 | 88.00 | 6,210.99 | 1,303.50 | 755.78 | 804.15 | 1.94 | 0.87 | -1.74 | |
| 7,426.00 | 90.90 | 86.40 | 6,211.15 | 1,307.95 | 846.67 | 895.14 | 2.81 | 2.20 | -1.76 | |
| 7,518.00 | 91.70 | 86.30 | 6,209.06 | 1,313.80 | 938.46 | 987.08 | 0.88 | 0.87 | -0.11 | |
| 7,609.00 | 92.00 | 87.30 | 6,206.12 | 1,318.88 | 1,029.27 | 1,078.02 | 1.15 | 0.33 | 1.10 | |
| 7,701.00 | 93.10 | 87.70 | 6,202.03 | 1,322.89 | 1,121.09 | 1,169.93 | 1.27 | 1.20 | 0.43 | |
| 7,793.00 | 92.10 | 87.90 | 6,197.86 | 1,326.42 | 1,212.92 | 1,261.83 | 1.11 | -1.09 | 0.22 | |
| 7,884.00 | 90.50 | 88.40 | 6,195.79 | 1,329.35 | 1,303.85 | 1,352.80 | 1.84 | -1.76 | 0.55 | |
| 7,969.00 | 89.40 | 88.40 | 6,195.86 | 1,331.73 | 1,388.81 | 1,437.80 | 1.29 | -1.29 | 0.00 | |
| 8,054.00 | 90.90 | 87.90 | 6,195.64 | 1,334.47 | 1,473.77 | 1,522.79 | 1.86 | 1.76 | -0.59 | |
| 8,138.00 | 88.50 | 88.90 | 6,196.08 | 1,336.81 | 1,557.72 | 1,606.78 | 3.10 | -2.86 | 1.19 | |
| 8,223.00 | 88.40 | 89.50 | 6,198.38 | 1,338.00 | 1,642.68 | 1,691.72 | 0.72 | -0.12 | 0.71 | |
| 8,308.00 | 88.20 | 89.10 | 6,200.90 | 1,339.04 | 1,727.64 | 1,776.66 | 0.53 | -0.24 | -0.47 | |
| 8,393.00 | 87.90 | 88.30 | 6,203.80 | 1,340.97 | 1,812.57 | 1,861.60 | 1.00 | -0.35 | -0.94 | |
| 8,477.00 | 88.10 | 86.60 | 6,206.73 | 1,344.70 | 1,896.43 | 1,945.54 | 2.04 | 0.24 | -2.02 | |
| 8,562.00 | 90.20 | 89.60 | 6,207.99 | 1,347.52 | 1,981.36 | 2,030.52 | 4.31 | 2.47 | 3.53 | |
| 8,647.00 | 91.20 | 92.20 | 6,206.95 | 1,346.18 | 2,066.34 | 2,115.38 | 3.28 | 1.18 | 3.06 | |
| 8,732.00 | 89.50 | 91.50 | 6,206.43 | 1,343.44 | 2,151.29 | 2,200.17 | 2.16 | -2.00 | -0.82 | |
| 8,817.00 | 89.00 | 90.80 | 6,207.54 | 1,341.73 | 2,236.26 | 2,285.02 | 1.01 | -0.59 | -0.82 | |
| 8,902.00 | 89.70 | 90.40 | 6,208.51 | 1,340.84 | 2,321.25 | 2,369.92 | 0.95 | 0.82 | -0.47 | |
| 8,987.00 | 88.90 | 88.60 | 6,209.55 | 1,341.58 | 2,406.24 | 2,454.87 | 2.32 | -0.94 | -2.12 | |
| 9,073.00 | 88.70 | 87.20 | 6,211.35 | 1,344.74 | 2,492.16 | 2,540.85 | 1.64 | -0.23 | -1.63 | |
| 9,158.00 | 90.60 | 88.80 | 6,211.87 | 1,347.70 | 2,577.10 | 2,625.84 | 2.92 | 2.24 | 1.88 | |
| 9,243.00 | 90.20 | 86.90 | 6,211.27 | 1,350.89 | 2,662.03 | 2,710.84 | 2.28 | -0.47 | -2.24 | |
| 9,328.00 | 89.80 | 84.70 | 6,211.27 | 1,357.12 | 2,746.80 | 2,795.78 | 2.63 | -0.47 | -2.59 | |
| 9,415.00 | 91.00 | 84.90 | 6,210.67 | 1,365.00 | 2,833.44 | 2,882.65 | 1.40 | 1.38 | 0.23 | |

| | | | |
|------------------|---------------------------|-------------------------------------|---|
| Company: | Bonanza Creek Energy Inc. | Local Co-ordinate Reference: | Well State Antelope A-U-2HNB |
| Project: | Weld Co., CO | TVD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Site: | Sec.2-T5N-R62W | MD Reference: | WELL @ 4663.00usft (Original Well Elev) |
| Well: | State Antelope A-U-2HNB | North Reference: | True |
| Wellbore: | Wellbore #1 | Survey Calculation Method: | Minimum Curvature |
| Design: | Wellbore #1 | Database: | EDMDBBW |

| Survey | | | | | | | | | | |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | |
| 9,500.00 | 92.30 | 85.70 | 6,208.22 | 1,371.96 | 2,918.11 | 2,967.53 | 1.80 | 1.53 | 0.94 | |
| 9,585.00 | 91.80 | 86.70 | 6,205.18 | 1,377.59 | 3,002.87 | 3,052.44 | 1.31 | -0.59 | 1.18 | |
| 9,670.00 | 91.30 | 87.00 | 6,202.88 | 1,382.26 | 3,087.71 | 3,137.39 | 0.69 | -0.59 | 0.35 | |
| 9,755.00 | 90.10 | 86.60 | 6,201.84 | 1,387.00 | 3,172.57 | 3,222.37 | 1.49 | -1.41 | -0.47 | |
| 9,840.00 | 89.50 | 85.30 | 6,202.14 | 1,393.01 | 3,257.35 | 3,307.32 | 1.68 | -0.71 | -1.53 | |
| 9,927.00 | 90.70 | 85.50 | 6,201.98 | 1,399.98 | 3,344.07 | 3,394.24 | 1.40 | 1.38 | 0.23 | |
| 10,014.00 | 90.20 | 85.90 | 6,201.30 | 1,406.51 | 3,430.82 | 3,481.18 | 0.74 | -0.57 | 0.46 | |
| 10,100.00 | 89.80 | 86.80 | 6,201.30 | 1,411.98 | 3,516.65 | 3,567.15 | 1.15 | -0.47 | 1.05 | |
| 10,185.00 | 89.40 | 86.60 | 6,201.89 | 1,416.88 | 3,601.51 | 3,652.13 | 0.53 | -0.47 | -0.24 | |
| 10,270.00 | 91.10 | 87.20 | 6,201.52 | 1,421.47 | 3,686.38 | 3,737.11 | 2.12 | 2.00 | 0.71 | |
| 10,357.00 | 90.20 | 87.70 | 6,200.54 | 1,425.34 | 3,773.28 | 3,824.10 | 1.18 | -1.03 | 0.57 | |
| 10,444.00 | 90.00 | 88.50 | 6,200.38 | 1,428.23 | 3,860.24 | 3,911.10 | 0.95 | -0.23 | 0.92 | |
| 10,529.00 | 88.60 | 88.60 | 6,201.42 | 1,430.38 | 3,945.20 | 3,996.08 | 1.65 | -1.65 | 0.12 | |
| 10,614.00 | 90.20 | 89.50 | 6,202.31 | 1,431.79 | 4,030.18 | 4,081.06 | 2.16 | 1.88 | 1.06 | |
| 10,697.00 | 89.60 | 89.30 | 6,202.46 | 1,432.66 | 4,113.18 | 4,164.03 | 0.76 | -0.72 | -0.24 | |
| 10,784.00 | 87.30 | 89.50 | 6,204.81 | 1,433.57 | 4,200.13 | 4,250.96 | 2.65 | -2.64 | 0.23 | |
| 10,871.00 | 85.20 | 87.30 | 6,210.50 | 1,435.99 | 4,286.90 | 4,337.76 | 3.49 | -2.41 | -2.53 | |
| Last Archer Survey | | | | | | | | | | |
| 10,900.00 | 85.20 | 86.90 | 6,212.93 | 1,437.45 | 4,315.76 | 4,366.65 | 1.37 | 0.00 | -1.38 | |
| BHL 45' FNL & 596'FEL - State Antelope A-U-2HNB tgt | | | | | | | | | | |
| 10,967.00 | 87.50 | 86.90 | 6,217.19 | 1,441.07 | 4,382.53 | 4,433.50 | 3.43 | 3.43 | 0.00 | |

| Survey Annotations | | | | |
|-----------------------|-----------------------|-------------------|--------------|------------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
| | | +N/-S (usft) | +E/-W (usft) | |
| 453.00 | 453.00 | 0.00 | 0.00 | First Archer Survey |
| 6,483.00 | 6,113.38 | 1,287.02 | -75.80 | ICP 20' FNL & 610' FWL |
| 6,912.00 | 6,204.40 | 1,309.74 | 333.03 | TOP 24" FNL 679'FWL |
| 10,900.00 | 6,212.93 | 1,437.45 | 4,315.76 | Last Archer Survey |
| 10,967.00 | 6,217.19 | 1,441.07 | 4,382.53 | BHL 45' FNL & 596'FEL |

| | | |
|-------------------|--------------------|-------------|
| Checked By: _____ | Approved By: _____ | Date: _____ |
|-------------------|--------------------|-------------|