

BONANZA CREEK ENERGY OPERATING

Well Name: **Antelope 41-44-31HZ**

Surface Location: Antelope 41-44-31HZ Pad Sec.31-T5N-R62W
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone

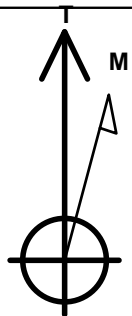
Ground Elevation: 4604.0

| +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | Slot |
|-------|-------|------------|------------|-----------|-------------|------|
| 0.0 | 0.0 | 1376500.81 | 3317978.12 | 40.361280 | -104.358910 | |

Original Well Elev WELL @ 4619.0ft (Original Well Elev)

WELLBORE TARGET DETAILS

| Name | TVD | +N/-S | +E/-W | Shape |
|-----------------------|--------|---------|-------|-------|
| BHL 460'FSL & 500'FEL | 6336.0 | -4003.8 | 2.8 | Point |
| T1 460'FNL & 500'FEL | 6336.0 | 317.0 | 50.2 | Point |



Azimuths to True North
Magnetic North: 8.48°

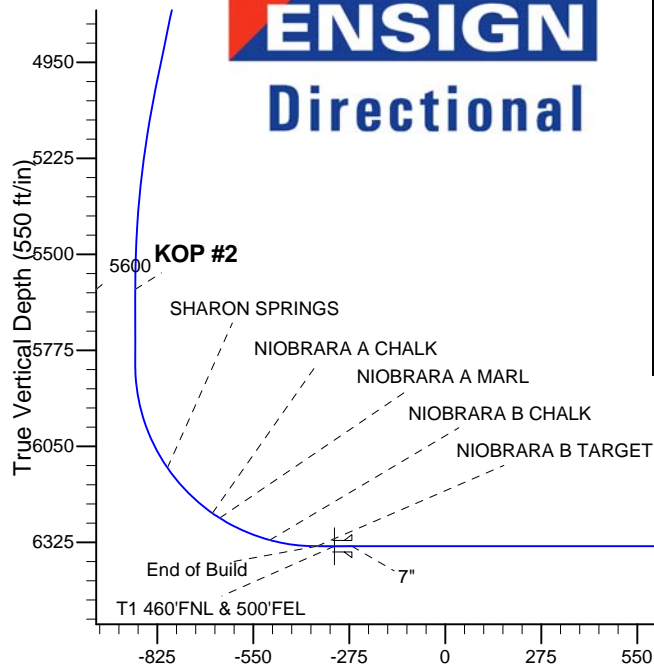
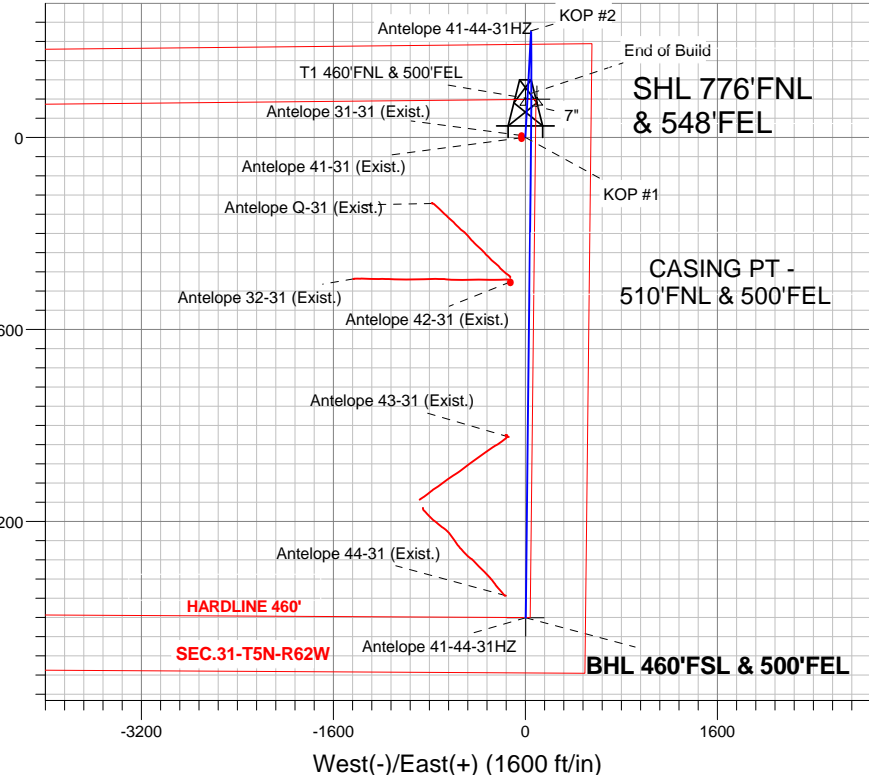
Magnetic Field
Strength: 53032.0nT
Dip Angle: 67.06°
Date: 8/17/2012
Model: IGRF2010

Antelope 41-44-31HZ Pad Sec.31-T5N-R62W
Antelope 41-44-31HZ
Plan #1 (AUG 17, 2012)
12:56, August 17 2012

ANNOTATIONS

| TVD | MD | Annotation |
|--------|--------|--------------|
| 700.0 | 700.0 | KOP #1 |
| 5600.0 | 5686.6 | KOP #2 |
| 6336.0 | 6720.0 | End of Build |

South(-)/North(+) (1600 ft/in)



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | DLeg | TFace | VSec | Target |
|-----|--------|-------|--------|--------|---------|-------|-------|--------|--------|-----------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1282.1 | 11.64 | 3.09 | 1278.1 | 58.8 | 3.2 | 2.00 | 3.09 | -58.8 | |
| 4 | 5104.5 | 11.64 | 3.09 | 5021.9 | 829.1 | 44.8 | 0.00 | 0.00 | -829.0 | |
| 5 | 5686.6 | 0.00 | 0.00 | 5600.0 | 887.9 | 48.0 | 2.00 | 180.00 | -887.9 | |
| 6 | 5901.8 | 0.00 | 0.00 | 5815.1 | 887.9 | 48.0 | 0.00 | 0.00 | -887.9 | |
| 7 | 6719.9 | 90.00 | 179.76 | 6336.0 | 367.0 | 50.2 | 11.00 | 179.76 | -367.0 | |
| 8 | 6720.0 | 90.00 | 179.76 | 6336.0 | 367.0 | 50.2 | 0.00 | 0.00 | -367.0 | |
| 9 | 6820.0 | 90.00 | 179.76 | 6336.0 | 267.0 | 50.6 | 0.00 | 0.00 | -267.0 | |
| 10 | 6821.2 | 90.00 | 180.64 | 6336.0 | 265.7 | 50.6 | 69.61 | 90.00 | -265.7 | |
| 11 | 1091.0 | 90.00 | 180.64 | 6336.0 | -4003.8 | 2.8 | 0.00 | 0.00 | 4003.8 | BHL 460'FSL & 500'FEL |

Vertical Section at 179.96° (550 ft/in)



BONANZA CREEK ENERGY OPERATING

SEC.31-T5N-R62W

Antelope 41-44-31HZ Pad Sec.31-T5N-R62W

Antelope 41-44-31HZ

Wellbore #1

Plan: Plan #1 (AUG 17, 2012)

Standard Planning Report

17 August, 2012

| Plan Sections | | | | | | | | | | |
|---------------------------|--------------------|----------------|---------------------------|---------------|---------------|-----------------------------|----------------------------|---------------------------|------------|--------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,282.1 | 11.64 | 3.09 | 1,278.1 | 58.8 | 3.2 | 2.00 | 2.00 | 0.00 | 3.09 | |
| 5,104.5 | 11.64 | 3.09 | 5,021.9 | 829.1 | 44.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,686.6 | 0.00 | 0.00 | 5,600.0 | 887.9 | 48.0 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 5,901.8 | 0.00 | 0.00 | 5,815.1 | 887.9 | 48.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,719.9 | 90.00 | 179.76 | 6,336.0 | 367.0 | 50.2 | 11.00 | 11.00 | 0.00 | 179.76 | |
| 6,720.0 | 90.00 | 179.76 | 6,336.0 | 367.0 | 50.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,820.0 | 90.00 | 179.76 | 6,336.0 | 267.0 | 50.6 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,821.2 | 90.00 | 180.64 | 6,336.0 | 265.7 | 50.6 | 69.61 | 0.00 | 69.61 | 90.00 | |
| 11,091.0 | 90.00 | 180.64 | 6,336.0 | -4,003.8 | 2.8 | 0.00 | 0.00 | 0.00 | 0.00 | BHL 460'FSL & 500' |

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | North Reference: | True |
| Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (AUG 17, 2012) | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| 700.0 | 0.00 | 0.00 | 700.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 |
| KOP #1 | | | | | | | | | |
| 800.0 | 2.00 | 3.09 | 800.0 | 1.7 | 0.1 | -1.7 | 2.00 | 2.00 | 0.00 |
| 900.0 | 4.00 | 3.09 | 899.8 | 7.0 | 0.4 | -7.0 | 2.00 | 2.00 | 0.00 |
| 1,000.0 | 6.00 | 3.09 | 999.5 | 15.7 | 0.8 | -15.7 | 2.00 | 2.00 | 0.00 |
| 1,100.0 | 8.00 | 3.09 | 1,098.7 | 27.8 | 1.5 | -27.8 | 2.00 | 2.00 | 0.00 |
| 1,200.0 | 10.00 | 3.09 | 1,197.5 | 43.5 | 2.3 | -43.5 | 2.00 | 2.00 | 0.00 |
| 1,282.1 | 11.64 | 3.09 | 1,278.1 | 58.8 | 3.2 | -58.8 | 2.00 | 2.00 | 0.00 |
| 1,300.0 | 11.64 | 3.09 | 1,295.6 | 62.5 | 3.4 | -62.5 | 0.00 | 0.00 | 0.00 |
| 1,400.0 | 11.64 | 3.09 | 1,393.6 | 82.6 | 4.5 | -82.6 | 0.00 | 0.00 | 0.00 |
| 1,500.0 | 11.64 | 3.09 | 1,491.5 | 102.8 | 5.6 | -102.8 | 0.00 | 0.00 | 0.00 |
| 1,600.0 | 11.64 | 3.09 | 1,589.5 | 122.9 | 6.6 | -122.9 | 0.00 | 0.00 | 0.00 |
| 1,700.0 | 11.64 | 3.09 | 1,687.4 | 143.1 | 7.7 | -143.0 | 0.00 | 0.00 | 0.00 |
| 1,800.0 | 11.64 | 3.09 | 1,785.3 | 163.2 | 8.8 | -163.2 | 0.00 | 0.00 | 0.00 |
| 1,900.0 | 11.64 | 3.09 | 1,883.3 | 183.4 | 9.9 | -183.3 | 0.00 | 0.00 | 0.00 |
| 2,000.0 | 11.64 | 3.09 | 1,981.2 | 203.5 | 11.0 | -203.5 | 0.00 | 0.00 | 0.00 |
| 2,100.0 | 11.64 | 3.09 | 2,079.2 | 223.7 | 12.1 | -223.6 | 0.00 | 0.00 | 0.00 |
| 2,200.0 | 11.64 | 3.09 | 2,177.1 | 243.8 | 13.2 | -243.8 | 0.00 | 0.00 | 0.00 |
| 2,300.0 | 11.64 | 3.09 | 2,275.1 | 264.0 | 14.3 | -263.9 | 0.00 | 0.00 | 0.00 |
| 2,400.0 | 11.64 | 3.09 | 2,373.0 | 284.1 | 15.4 | -284.1 | 0.00 | 0.00 | 0.00 |
| 2,500.0 | 11.64 | 3.09 | 2,470.9 | 304.3 | 16.4 | -304.2 | 0.00 | 0.00 | 0.00 |
| 2,600.0 | 11.64 | 3.09 | 2,568.9 | 324.4 | 17.5 | -324.4 | 0.00 | 0.00 | 0.00 |
| 2,700.0 | 11.64 | 3.09 | 2,666.8 | 344.5 | 18.6 | -344.5 | 0.00 | 0.00 | 0.00 |
| 2,800.0 | 11.64 | 3.09 | 2,764.8 | 364.7 | 19.7 | -364.7 | 0.00 | 0.00 | 0.00 |
| 2,900.0 | 11.64 | 3.09 | 2,862.7 | 384.8 | 20.8 | -384.8 | 0.00 | 0.00 | 0.00 |
| 3,000.0 | 11.64 | 3.09 | 2,960.7 | 405.0 | 21.9 | -405.0 | 0.00 | 0.00 | 0.00 |
| 3,100.0 | 11.64 | 3.09 | 3,058.6 | 425.1 | 23.0 | -425.1 | 0.00 | 0.00 | 0.00 |
| 3,200.0 | 11.64 | 3.09 | 3,156.5 | 445.3 | 24.1 | -445.3 | 0.00 | 0.00 | 0.00 |
| 3,300.0 | 11.64 | 3.09 | 3,254.5 | 465.4 | 25.2 | -465.4 | 0.00 | 0.00 | 0.00 |
| 3,355.7 | 11.64 | 3.09 | 3,309.0 | 476.7 | 25.8 | -476.6 | 0.00 | 0.00 | 0.00 |
| PARKMAN | | | | | | | | | |
| 3,400.0 | 11.64 | 3.09 | 3,352.4 | 485.6 | 26.3 | -485.6 | 0.00 | 0.00 | 0.00 |
| 3,500.0 | 11.64 | 3.09 | 3,450.4 | 505.7 | 27.3 | -505.7 | 0.00 | 0.00 | 0.00 |
| 3,600.0 | 11.64 | 3.09 | 3,548.3 | 525.9 | 28.4 | -525.9 | 0.00 | 0.00 | 0.00 |
| 3,700.0 | 11.64 | 3.09 | 3,646.3 | 546.0 | 29.5 | -546.0 | 0.00 | 0.00 | 0.00 |
| 3,800.0 | 11.64 | 3.09 | 3,744.2 | 566.2 | 30.6 | -566.2 | 0.00 | 0.00 | 0.00 |
| 3,900.0 | 11.64 | 3.09 | 3,842.1 | 586.3 | 31.7 | -586.3 | 0.00 | 0.00 | 0.00 |
| 4,000.0 | 11.64 | 3.09 | 3,940.1 | 606.5 | 32.8 | -606.5 | 0.00 | 0.00 | 0.00 |
| 4,100.0 | 11.64 | 3.09 | 4,038.0 | 626.6 | 33.9 | -626.6 | 0.00 | 0.00 | 0.00 |
| 4,106.1 | 11.64 | 3.09 | 4,044.0 | 627.9 | 33.9 | -627.8 | 0.00 | 0.00 | 0.00 |
| SUSSEX | | | | | | | | | |
| 4,200.0 | 11.64 | 3.09 | 4,136.0 | 646.8 | 35.0 | -646.8 | 0.00 | 0.00 | 0.00 |
| 4,300.0 | 11.64 | 3.09 | 4,233.9 | 666.9 | 36.1 | -666.9 | 0.00 | 0.00 | 0.00 |
| 4,400.0 | 11.64 | 3.09 | 4,331.9 | 687.1 | 37.1 | -687.1 | 0.00 | 0.00 | 0.00 |
| 4,500.0 | 11.64 | 3.09 | 4,429.8 | 707.2 | 38.2 | -707.2 | 0.00 | 0.00 | 0.00 |
| 4,600.0 | 11.64 | 3.09 | 4,527.7 | 727.4 | 39.3 | -727.4 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
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| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | North Reference: | True |
| Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (AUG 17, 2012) | | |

| Planned Survey | | | | | | | | | |
|---------------------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,700.0 | 11.64 | 3.09 | 4,625.7 | 747.5 | 40.4 | -747.5 | 0.00 | 0.00 | 0.00 |
| 4,800.0 | 11.64 | 3.09 | 4,723.6 | 767.7 | 41.5 | -767.7 | 0.00 | 0.00 | 0.00 |
| 4,900.0 | 11.64 | 3.09 | 4,821.6 | 787.8 | 42.6 | -787.8 | 0.00 | 0.00 | 0.00 |
| 5,000.0 | 11.64 | 3.09 | 4,919.5 | 808.0 | 43.7 | -808.0 | 0.00 | 0.00 | 0.00 |
| 5,100.0 | 11.64 | 3.09 | 5,017.5 | 828.1 | 44.8 | -828.1 | 0.00 | 0.00 | 0.00 |
| 5,104.5 | 11.64 | 3.09 | 5,021.9 | 829.1 | 44.8 | -829.0 | 0.00 | 0.00 | 0.00 |
| 5,200.0 | 9.73 | 3.09 | 5,115.7 | 846.7 | 45.8 | -846.7 | 2.00 | -2.00 | 0.00 |
| 5,300.0 | 7.73 | 3.09 | 5,214.5 | 861.9 | 46.6 | -861.9 | 2.00 | -2.00 | 0.00 |
| 5,400.0 | 5.73 | 3.09 | 5,313.9 | 873.6 | 47.2 | -873.6 | 2.00 | -2.00 | 0.00 |
| 5,500.0 | 3.73 | 3.09 | 5,413.5 | 881.8 | 47.7 | -881.8 | 2.00 | -2.00 | 0.00 |
| 5,600.0 | 1.73 | 3.09 | 5,513.4 | 886.6 | 47.9 | -886.6 | 2.00 | -2.00 | 0.00 |
| 5,686.6 | 0.00 | 3.09 | 5,600.0 | 887.9 | 48.0 | -887.9 | 2.00 | -2.00 | 0.00 |
| KOP #2 | | | | | | | | | |
| 5,700.0 | 0.00 | 0.00 | 5,613.4 | 887.9 | 48.0 | -887.9 | 0.00 | 0.00 | 0.00 |
| 5,800.0 | 0.00 | 0.00 | 5,713.4 | 887.9 | 48.0 | -887.9 | 0.00 | 0.00 | 0.00 |
| 5,900.0 | 0.00 | 0.00 | 5,813.4 | 887.9 | 48.0 | -887.9 | 0.00 | 0.00 | 0.00 |
| 5,901.8 | 0.00 | 0.00 | 5,815.1 | 887.9 | 48.0 | -887.9 | 0.00 | 0.00 | 0.00 |
| 6,000.0 | 10.81 | 179.76 | 5,912.8 | 878.7 | 48.0 | -878.6 | 11.00 | 11.00 | 0.00 |
| 6,100.0 | 21.81 | 179.76 | 6,008.6 | 850.6 | 48.2 | -850.6 | 11.00 | 11.00 | 0.00 |
| 6,200.0 | 32.81 | 179.76 | 6,097.3 | 804.8 | 48.3 | -804.8 | 11.00 | 11.00 | 0.00 |
| 6,216.4 | 34.61 | 179.76 | 6,111.0 | 795.7 | 48.4 | -795.7 | 11.00 | 11.00 | 0.00 |
| SHARON SPRINGS | | | | | | | | | |
| 6,300.0 | 43.81 | 179.76 | 6,175.7 | 742.9 | 48.6 | -742.9 | 11.00 | 11.00 | 0.00 |
| 6,400.0 | 54.81 | 179.76 | 6,240.8 | 667.2 | 48.9 | -667.2 | 11.00 | 11.00 | 0.00 |
| 6,400.4 | 54.85 | 179.76 | 6,241.0 | 666.9 | 48.9 | -666.9 | 11.00 | 11.00 | 0.00 |
| NIORARA A CHALK | | | | | | | | | |
| 6,425.6 | 57.62 | 179.76 | 6,255.0 | 646.0 | 49.0 | -646.0 | 11.00 | 11.00 | 0.00 |
| NIORARA A MARL | | | | | | | | | |
| 6,500.0 | 65.81 | 179.76 | 6,290.3 | 580.5 | 49.3 | -580.5 | 11.00 | 11.00 | 0.00 |
| 6,582.6 | 74.89 | 179.76 | 6,318.0 | 502.8 | 49.6 | -502.7 | 11.00 | 11.00 | 0.00 |
| NIORARA B CHALK | | | | | | | | | |
| 6,600.0 | 76.81 | 179.76 | 6,322.3 | 485.9 | 49.7 | -485.9 | 11.00 | 11.00 | 0.00 |
| 6,700.0 | 87.81 | 179.76 | 6,335.6 | 387.0 | 50.1 | -386.9 | 11.00 | 11.00 | 0.00 |
| 6,719.9 | 90.00 | 179.76 | 6,336.0 | 367.0 | 50.2 | -367.0 | 11.00 | 11.00 | 0.00 |
| NIORARA B TARGET | | | | | | | | | |
| 6,720.0 | 90.00 | 179.76 | 6,336.0 | 367.0 | 50.2 | -366.9 | 0.00 | 0.00 | 0.00 |
| End of Build | | | | | | | | | |
| 6,770.0 | 90.00 | 179.76 | 6,336.0 | 317.0 | 50.4 | -316.9 | 0.00 | 0.00 | 0.00 |
| T1 460'FNL & 500'FEL | | | | | | | | | |
| 6,800.0 | 90.00 | 179.76 | 6,336.0 | 287.0 | 50.5 | -286.9 | 0.00 | 0.00 | 0.00 |
| 6,820.0 | 90.00 | 179.76 | 6,336.0 | 267.0 | 50.6 | -266.9 | 0.00 | 0.00 | 0.00 |
| 7" | | | | | | | | | |
| 6,821.2 | 90.00 | 180.64 | 6,336.0 | 265.7 | 50.6 | -265.7 | 71.29 | 0.00 | 71.29 |
| 6,900.0 | 90.00 | 180.64 | 6,336.0 | 187.0 | 49.7 | -186.9 | 0.00 | 0.00 | 0.00 |
| 7,000.0 | 90.00 | 180.64 | 6,336.0 | 87.0 | 48.6 | -86.9 | 0.00 | 0.00 | 0.00 |
| 7,100.0 | 90.00 | 180.64 | 6,336.0 | -13.0 | 47.5 | 13.0 | 0.00 | 0.00 | 0.00 |
| 7,200.0 | 90.00 | 180.64 | 6,336.0 | -113.0 | 46.3 | 113.0 | 0.00 | 0.00 | 0.00 |
| 7,300.0 | 90.00 | 180.64 | 6,336.0 | -213.0 | 45.2 | 213.0 | 0.00 | 0.00 | 0.00 |
| 7,400.0 | 90.00 | 180.64 | 6,336.0 | -313.0 | 44.1 | 313.0 | 0.00 | 0.00 | 0.00 |
| 7,500.0 | 90.00 | 180.64 | 6,336.0 | -413.0 | 43.0 | 413.0 | 0.00 | 0.00 | 0.00 |
| 7,600.0 | 90.00 | 180.64 | 6,336.0 | -513.0 | 41.9 | 513.0 | 0.00 | 0.00 | 0.00 |
| 7,700.0 | 90.00 | 180.64 | 6,336.0 | -613.0 | 40.7 | 613.0 | 0.00 | 0.00 | 0.00 |
| 7,800.0 | 90.00 | 180.64 | 6,336.0 | -713.0 | 39.6 | 713.0 | 0.00 | 0.00 | 0.00 |

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | North Reference: | True |
| Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (AUG 17, 2012) | | |

| Planned Survey | | | | | | | | | |
|-----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 7,900.0 | 90.00 | 180.64 | 6,336.0 | -813.0 | 38.5 | 813.0 | 0.00 | 0.00 | 0.00 |
| 8,000.0 | 90.00 | 180.64 | 6,336.0 | -913.0 | 37.4 | 913.0 | 0.00 | 0.00 | 0.00 |
| 8,100.0 | 90.00 | 180.64 | 6,336.0 | -1,012.9 | 36.3 | 1,013.0 | 0.00 | 0.00 | 0.00 |
| 8,200.0 | 90.00 | 180.64 | 6,336.0 | -1,112.9 | 35.1 | 1,113.0 | 0.00 | 0.00 | 0.00 |
| 8,300.0 | 90.00 | 180.64 | 6,336.0 | -1,212.9 | 34.0 | 1,213.0 | 0.00 | 0.00 | 0.00 |
| 8,400.0 | 90.00 | 180.64 | 6,336.0 | -1,312.9 | 32.9 | 1,313.0 | 0.00 | 0.00 | 0.00 |
| 8,500.0 | 90.00 | 180.64 | 6,336.0 | -1,412.9 | 31.8 | 1,412.9 | 0.00 | 0.00 | 0.00 |
| 8,600.0 | 90.00 | 180.64 | 6,336.0 | -1,512.9 | 30.7 | 1,512.9 | 0.00 | 0.00 | 0.00 |
| 8,700.0 | 90.00 | 180.64 | 6,336.0 | -1,612.9 | 29.5 | 1,612.9 | 0.00 | 0.00 | 0.00 |
| 8,800.0 | 90.00 | 180.64 | 6,336.0 | -1,712.9 | 28.4 | 1,712.9 | 0.00 | 0.00 | 0.00 |
| 8,900.0 | 90.00 | 180.64 | 6,336.0 | -1,812.9 | 27.3 | 1,812.9 | 0.00 | 0.00 | 0.00 |
| 9,000.0 | 90.00 | 180.64 | 6,336.0 | -1,912.9 | 26.2 | 1,912.9 | 0.00 | 0.00 | 0.00 |
| 9,100.0 | 90.00 | 180.64 | 6,336.0 | -2,012.9 | 25.1 | 2,012.9 | 0.00 | 0.00 | 0.00 |
| 9,200.0 | 90.00 | 180.64 | 6,336.0 | -2,112.9 | 24.0 | 2,112.9 | 0.00 | 0.00 | 0.00 |
| 9,300.0 | 90.00 | 180.64 | 6,336.0 | -2,212.9 | 22.8 | 2,212.9 | 0.00 | 0.00 | 0.00 |
| 9,400.0 | 90.00 | 180.64 | 6,336.0 | -2,312.9 | 21.7 | 2,312.9 | 0.00 | 0.00 | 0.00 |
| 9,500.0 | 90.00 | 180.64 | 6,336.0 | -2,412.9 | 20.6 | 2,412.9 | 0.00 | 0.00 | 0.00 |
| 9,600.0 | 90.00 | 180.64 | 6,336.0 | -2,512.9 | 19.5 | 2,512.9 | 0.00 | 0.00 | 0.00 |
| 9,700.0 | 90.00 | 180.64 | 6,336.0 | -2,612.8 | 18.4 | 2,612.9 | 0.00 | 0.00 | 0.00 |
| 9,800.0 | 90.00 | 180.64 | 6,336.0 | -2,712.8 | 17.2 | 2,712.9 | 0.00 | 0.00 | 0.00 |
| 9,900.0 | 90.00 | 180.64 | 6,336.0 | -2,812.8 | 16.1 | 2,812.8 | 0.00 | 0.00 | 0.00 |
| 10,000.0 | 90.00 | 180.64 | 6,336.0 | -2,912.8 | 15.0 | 2,912.8 | 0.00 | 0.00 | 0.00 |
| 10,100.0 | 90.00 | 180.64 | 6,336.0 | -3,012.8 | 13.9 | 3,012.8 | 0.00 | 0.00 | 0.00 |
| 10,200.0 | 90.00 | 180.64 | 6,336.0 | -3,112.8 | 12.8 | 3,112.8 | 0.00 | 0.00 | 0.00 |
| 10,300.0 | 90.00 | 180.64 | 6,336.0 | -3,212.8 | 11.6 | 3,212.8 | 0.00 | 0.00 | 0.00 |
| 10,400.0 | 90.00 | 180.64 | 6,336.0 | -3,312.8 | 10.5 | 3,312.8 | 0.00 | 0.00 | 0.00 |
| 10,500.0 | 90.00 | 180.64 | 6,336.0 | -3,412.8 | 9.4 | 3,412.8 | 0.00 | 0.00 | 0.00 |
| 10,600.0 | 90.00 | 180.64 | 6,336.0 | -3,512.8 | 8.3 | 3,512.8 | 0.00 | 0.00 | 0.00 |
| 10,700.0 | 90.00 | 180.64 | 6,336.0 | -3,612.8 | 7.2 | 3,612.8 | 0.00 | 0.00 | 0.00 |
| 10,800.0 | 90.00 | 180.64 | 6,336.0 | -3,712.8 | 6.0 | 3,712.8 | 0.00 | 0.00 | 0.00 |
| 10,900.0 | 90.00 | 180.64 | 6,336.0 | -3,812.8 | 4.9 | 3,812.8 | 0.00 | 0.00 | 0.00 |
| 11,000.0 | 90.00 | 180.64 | 6,336.0 | -3,912.8 | 3.8 | 3,912.8 | 0.00 | 0.00 | 0.00 |
| 11,091.0 | 90.00 | 180.64 | 6,336.0 | -4,003.8 | 2.8 | 4,003.8 | 0.00 | 0.00 | 0.00 |
| BHL 460°FSL & 500°FEL | | | | | | | | | |

| Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| BHL 460°FSL & 500°F | 0.00 | 0.00 | 6,336.0 | -4,003.8 | 2.8 | 1,372,497.60 | 3,318,032.42 | 40.350290 | -104.358900 |
| - hit/miss target | | | | | | | | | |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| T1 460°FNL & 500°FEL | 0.00 | 0.00 | 6,336.0 | 317.0 | 50.2 | 1,376,818.37 | 3,318,024.20 | 40.362150 | -104.358730 |
| - plan misses target center by 0.2ft at 6770.0ft MD (6336.0 TVD, 317.0 N, 50.4 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| | | | |
|------------------|---|-------------------------------------|--------------------------------------|
| Database: | Landmark | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Company: | BONANZA CREEK ENERGY OPERATING | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Project: | SEC.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | North Reference: | True |
| Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Wellbore #1 | | |
| Design: | Plan #1 (AUG 17, 2012) | | |

| Casing Points | | | | | |
|---------------------|---------------------|------|---------------------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (") | Hole Diameter (") | |
| 6,820.0 | 6,336.0 | 7" | 7 | 7-1/2 | |

| Formations | | | | | | |
|---------------------|---------------------|-------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 3,355.7 | 3,309.0 | PARKMAN | | 0.00 | | |
| 4,106.1 | 4,044.0 | SUSSEX | | 0.00 | | |
| 6,216.4 | 6,111.0 | SHARON SPRINGS | | 0.00 | | |
| 6,400.4 | 6,241.0 | NIOBRARA A CHALK | | 0.00 | | |
| 6,425.6 | 6,255.0 | NIOBRARA A MARL | | 0.00 | | |
| 6,582.6 | 6,318.0 | NIOBRARA B CHALK | | 0.00 | | |
| 6,719.9 | 6,336.0 | NIOBRARA B TARGET | | 0.00 | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|--------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 700.0 | 700.0 | 0.0 | 0.0 | KOP #1 | |
| 5,686.6 | 5,600.0 | 887.9 | 48.0 | KOP #2 | |
| 6,720.0 | 6,336.0 | 367.0 | 50.2 | End of Build | |



BONANZA CREEK ENERGY OPERATING

SEC.31-T5N-R62W

Antelope 41-44-31HZ Pad Sec.31-T5N-R62W

Antelope 41-44-31HZ

Wellbore #1

Plan #1 (AUG 17, 2012)

Anticollision Report

17 August, 2012

| | | | |
|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|--------------------|---------|
| Survey Program: 6336-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 1,500.0 | 1,491.5 | 1,491.5 | 1,491.5 | 3.7 | 29.8 | -160.40 | 14.6 | -30.7 | 95.3 | 62.7 | 32.64 | 2.921 | |
| 1,600.0 | 1,589.5 | 1,589.5 | 1,589.5 | 4.1 | 31.8 | -163.78 | 14.6 | -30.7 | 114.6 | 79.8 | 34.78 | 3.294 | |
| 1,700.0 | 1,687.4 | 1,687.4 | 1,687.4 | 4.5 | 33.7 | -166.19 | 14.6 | -30.7 | 134.1 | 97.2 | 36.94 | 3.630 | |
| 1,800.0 | 1,785.3 | 1,785.3 | 1,785.3 | 4.9 | 35.7 | -167.98 | 14.6 | -30.7 | 153.8 | 114.7 | 39.10 | 3.933 | |
| 1,900.0 | 1,883.3 | 1,883.3 | 1,883.3 | 5.3 | 37.7 | -169.37 | 14.6 | -30.7 | 173.6 | 132.3 | 41.27 | 4.207 | |
| 2,000.0 | 1,981.2 | 1,981.2 | 1,981.2 | 5.7 | 39.6 | -170.47 | 14.6 | -30.7 | 193.5 | 150.0 | 43.44 | 4.454 | |
| 2,100.0 | 2,079.2 | 2,079.2 | 2,079.2 | 6.1 | 41.6 | -171.36 | 14.6 | -30.7 | 213.4 | 167.8 | 45.61 | 4.679 | |
| 2,200.0 | 2,177.1 | 2,177.1 | 2,177.1 | 6.5 | 43.5 | -172.11 | 14.6 | -30.7 | 233.4 | 185.6 | 47.78 | 4.885 | |
| 2,300.0 | 2,275.1 | 2,275.1 | 2,275.1 | 6.9 | 45.5 | -172.73 | 14.6 | -30.7 | 253.4 | 203.4 | 49.95 | 5.072 | |
| 2,400.0 | 2,373.0 | 2,373.0 | 2,373.0 | 7.4 | 47.5 | -173.27 | 14.6 | -30.7 | 273.4 | 221.3 | 52.13 | 5.245 | |
| 2,500.0 | 2,470.9 | 2,470.9 | 2,470.9 | 7.8 | 49.4 | -173.73 | 14.6 | -30.7 | 293.5 | 239.2 | 54.31 | 5.404 | |
| 2,600.0 | 2,568.9 | 2,568.9 | 2,568.9 | 8.2 | 51.4 | -174.13 | 14.6 | -30.7 | 313.6 | 257.1 | 56.49 | 5.551 | |
| 2,700.0 | 2,666.8 | 2,666.8 | 2,666.8 | 8.6 | 53.3 | -174.49 | 14.6 | -30.7 | 333.6 | 275.0 | 58.66 | 5.687 | |
| 2,800.0 | 2,764.8 | 2,764.8 | 2,764.8 | 9.1 | 55.3 | -174.80 | 14.6 | -30.7 | 353.7 | 292.9 | 60.84 | 5.814 | |
| 2,900.0 | 2,862.7 | 2,862.7 | 2,862.7 | 9.5 | 57.3 | -175.08 | 14.6 | -30.7 | 373.8 | 310.8 | 63.02 | 5.932 | |
| 3,000.0 | 2,960.7 | 2,960.7 | 2,960.7 | 9.9 | 59.2 | -175.33 | 14.6 | -30.7 | 393.9 | 328.7 | 65.20 | 6.042 | |
| 3,100.0 | 3,058.6 | 3,058.6 | 3,058.6 | 10.3 | 61.2 | -175.56 | 14.6 | -30.7 | 414.1 | 346.7 | 67.38 | 6.145 | |
| 3,200.0 | 3,156.5 | 3,156.5 | 3,156.5 | 10.8 | 63.1 | -175.77 | 14.6 | -30.7 | 434.2 | 364.6 | 69.56 | 6.242 | |
| 3,300.0 | 3,254.5 | 3,254.5 | 3,254.5 | 11.2 | 65.1 | -175.95 | 14.6 | -30.7 | 454.3 | 382.6 | 71.74 | 6.332 | |
| 3,400.0 | 3,352.4 | 3,352.4 | 3,352.4 | 11.6 | 67.0 | -176.13 | 14.6 | -30.7 | 474.4 | 400.5 | 73.93 | 6.418 | |
| 3,500.0 | 3,450.4 | 3,450.4 | 3,450.4 | 12.1 | 69.0 | -176.28 | 14.6 | -30.7 | 494.6 | 418.5 | 76.11 | 6.499 | |
| 3,600.0 | 3,548.3 | 3,548.3 | 3,548.3 | 12.5 | 71.0 | -176.43 | 14.6 | -30.7 | 514.7 | 436.4 | 78.29 | 6.575 | |
| 3,700.0 | 3,646.3 | 3,646.3 | 3,646.3 | 12.9 | 72.9 | -176.56 | 14.6 | -30.7 | 534.9 | 454.4 | 80.47 | 6.647 | |
| 3,800.0 | 3,744.2 | 3,744.2 | 3,744.2 | 13.3 | 74.9 | -176.69 | 14.6 | -30.7 | 555.0 | 472.4 | 82.65 | 6.715 | |
| 3,900.0 | 3,842.1 | 3,842.1 | 3,842.1 | 13.8 | 76.8 | -176.81 | 14.6 | -30.7 | 575.2 | 490.3 | 84.84 | 6.780 | |
| 4,000.0 | 3,940.1 | 3,940.1 | 3,940.1 | 14.2 | 78.8 | -176.91 | 14.6 | -30.7 | 595.3 | 508.3 | 87.02 | 6.841 | |
| 4,100.0 | 4,038.0 | 4,038.0 | 4,038.0 | 14.6 | 80.8 | -177.01 | 14.6 | -30.7 | 615.5 | 526.3 | 89.20 | 6.900 | |
| 4,200.0 | 4,136.0 | 4,136.0 | 4,136.0 | 15.1 | 82.7 | -177.11 | 14.6 | -30.7 | 635.6 | 544.2 | 91.38 | 6.955 | |
| 4,300.0 | 4,233.9 | 4,233.9 | 4,233.9 | 15.5 | 84.7 | -177.20 | 14.6 | -30.7 | 655.8 | 562.2 | 93.57 | 7.009 | |
| 4,400.0 | 4,331.9 | 4,331.9 | 4,331.9 | 15.9 | 86.6 | -177.28 | 14.6 | -30.7 | 675.9 | 580.2 | 95.75 | 7.059 | |
| 4,500.0 | 4,429.8 | 4,429.8 | 4,429.8 | 16.4 | 88.6 | -177.36 | 14.6 | -30.7 | 696.1 | 598.2 | 97.93 | 7.108 | |
| 4,600.0 | 4,527.7 | 4,527.7 | 4,527.7 | 16.8 | 90.6 | -177.43 | 14.6 | -30.7 | 716.2 | 616.1 | 100.12 | 7.154 | |
| 4,700.0 | 4,625.7 | 4,625.7 | 4,625.7 | 17.2 | 92.5 | -177.51 | 14.6 | -30.7 | 736.4 | 634.1 | 102.30 | 7.198 | |
| 4,800.0 | 4,723.6 | 4,723.6 | 4,723.6 | 17.7 | 94.5 | -177.57 | 14.6 | -30.7 | 756.6 | 652.1 | 104.48 | 7.241 | |
| 4,900.0 | 4,821.6 | 4,821.6 | 4,821.6 | 18.1 | 96.4 | -177.63 | 14.6 | -30.7 | 776.7 | 670.1 | 106.67 | 7.282 | |
| 5,000.0 | 4,919.5 | 4,919.5 | 4,919.5 | 18.5 | 98.4 | -177.69 | 14.6 | -30.7 | 796.9 | 688.0 | 108.85 | 7.321 | |
| 5,104.5 | 5,021.9 | 5,021.9 | 5,021.9 | 19.0 | 100.4 | -177.75 | 14.6 | -30.7 | 818.0 | 706.8 | 111.13 | 7.360 | |
| 5,200.0 | 5,115.7 | 5,115.7 | 5,115.7 | 19.3 | 102.3 | -177.82 | 14.6 | -30.7 | 835.7 | 721.8 | 113.83 | 7.341 | |
| 5,300.0 | 5,214.5 | 5,214.5 | 5,214.5 | 19.6 | 104.3 | -177.87 | 14.6 | -30.7 | 850.8 | 734.3 | 116.52 | 7.302 | |
| 5,400.0 | 5,313.9 | 5,313.9 | 5,313.9 | 19.8 | 106.3 | -177.90 | 14.6 | -30.7 | 862.5 | 743.5 | 119.09 | 7.243 | |
| 5,500.0 | 5,413.5 | 5,413.5 | 5,413.5 | 20.1 | 108.3 | -177.93 | 14.6 | -30.7 | 870.8 | 749.3 | 121.53 | 7.165 | |
| 5,600.0 | 5,513.4 | 5,513.4 | 5,513.4 | 20.2 | 110.3 | -177.94 | 14.6 | -30.7 | 875.6 | 751.7 | 123.83 | 7.071 | |
| 5,686.6 | 5,600.0 | 5,600.0 | 5,600.0 | 20.3 | 112.0 | -174.85 | 14.6 | -30.7 | 876.9 | 751.2 | 125.69 | 6.976 | |
| 5,700.0 | 5,613.4 | 5,613.4 | 5,613.4 | 20.3 | 112.3 | -174.85 | 14.6 | -30.7 | 876.9 | 750.9 | 125.98 | 6.960 | |
| 5,800.0 | 5,713.4 | 5,713.4 | 5,713.4 | 20.5 | 114.3 | -174.85 | 14.6 | -30.7 | 876.9 | 748.7 | 128.18 | 6.841 | |
| 5,901.8 | 5,815.1 | 5,815.1 | 5,815.1 | 20.6 | 116.3 | -174.85 | 14.6 | -30.7 | 876.9 | 746.4 | 130.42 | 6.723 | |
| 5,950.0 | 5,863.3 | 5,863.3 | 5,863.3 | 20.6 | 117.3 | 5.42 | 14.6 | -30.7 | 874.6 | 743.9 | 130.73 | 6.691 | |
| 6,000.0 | 5,912.8 | 5,912.8 | 5,912.8 | 20.6 | 118.3 | 5.54 | 14.6 | -30.7 | 867.7 | 737.8 | 129.85 | 6.682 | |
| 6,050.0 | 5,961.4 | 5,961.4 | 5,961.4 | 20.5 | 119.2 | 5.75 | 14.6 | -30.7 | 856.0 | 728.3 | 127.75 | 6.701 | |
| 6,100.0 | 6,008.6 | 6,008.6 | 6,008.6 | 20.4 | 120.2 | 6.05 | 14.6 | -30.7 | 839.8 | 715.3 | 124.44 | 6.749 | |
| 6,150.0 | 6,054.1 | 6,054.1 | 6,054.1 | 20.2 | 121.1 | 6.48 | 14.6 | -30.7 | 819.1 | 699.2 | 119.94 | 6.829 | |
| 6,200.0 | 6,097.3 | 6,097.3 | 6,097.3 | 20.0 | 121.9 | 7.06 | 14.6 | -30.7 | 794.2 | 679.9 | 114.31 | 6.947 | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| | | | |
|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

| Offset Design Antelope 41-44-31HZ Pad Sec.31-T5N-R62W - Antelope 31-31 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|-----------------|
| Survey Program: 6336-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 6,250.0 | 6,138.0 | 6,138.0 | 6,138.0 | 19.8 | 122.8 | 7.85 | 14.6 | -30.7 | 765.3 | 657.6 | 107.67 | 7.108 | |
| 6,300.0 | 6,175.7 | 6,175.7 | 6,175.7 | 19.5 | 123.5 | 8.90 | 14.6 | -30.7 | 732.7 | 632.5 | 100.17 | 7.314 | |
| 6,350.0 | 6,210.1 | 6,210.1 | 6,210.1 | 19.2 | 124.2 | 10.34 | 14.6 | -30.7 | 696.6 | 604.5 | 92.11 | 7.563 | |
| 6,400.0 | 6,240.8 | 6,240.8 | 6,240.8 | 18.9 | 124.8 | 12.34 | 14.6 | -30.7 | 657.5 | 573.5 | 84.02 | 7.826 | |
| 6,450.0 | 6,267.6 | 6,267.6 | 6,267.6 | 18.6 | 125.4 | 15.23 | 14.6 | -30.7 | 615.7 | 538.7 | 76.95 | 8.001 | |
| 6,500.0 | 6,290.3 | 6,290.3 | 6,290.3 | 18.3 | 125.8 | 19.54 | 14.6 | -30.7 | 571.5 | 498.5 | 73.08 | 7.821 | |
| 6,550.0 | 6,308.5 | 6,308.5 | 6,308.5 | 18.0 | 126.2 | 26.32 | 14.6 | -30.7 | 525.5 | 449.1 | 76.43 | 6.876 | |
| 6,600.0 | 6,322.3 | 6,322.3 | 6,322.3 | 17.7 | 126.4 | 37.43 | 14.6 | -30.7 | 478.1 | 386.1 | 92.01 | 5.196 | |
| 6,650.0 | 6,331.3 | 6,331.3 | 6,331.3 | 17.5 | 126.6 | 55.54 | 14.6 | -30.7 | 429.8 | 310.1 | 119.66 | 3.592 | |
| 6,700.0 | 6,335.6 | 6,335.6 | 6,335.6 | 17.3 | 126.7 | 80.18 | 14.6 | -30.7 | 381.0 | 239.1 | 141.93 | 2.685 | |
| 6,719.9 | 6,336.0 | 6,336.0 | 6,336.0 | 17.3 | 126.7 | 90.00 | 14.6 | -30.7 | 361.6 | 217.6 | 143.96 | 2.512 | |
| 6,720.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.3 | 126.7 | 90.00 | 14.6 | -30.7 | 361.6 | 217.6 | 143.96 | 2.512 | |
| 6,800.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | 14.6 | -30.7 | 284.2 | 140.4 | 143.79 | 1.977 | |
| 6,820.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | 14.6 | -30.7 | 265.2 | 121.4 | 143.77 | 1.844 | |
| 6,821.2 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | 14.6 | -30.7 | 264.0 | 120.2 | 143.77 | 1.836 | |
| 6,900.0 | 6,336.0 | 6,336.0 | 6,336.0 | 16.9 | 126.7 | 90.00 | 14.6 | -30.7 | 190.2 | 46.6 | 143.61 | 1.324 | Level 3 |
| 7,000.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | 14.6 | -30.7 | 107.3 | -36.5 | 143.80 | 0.746 | Level 1 |
| 7,073.3 | 6,336.0 | 6,336.0 | 6,336.0 | 17.4 | 126.7 | 90.00 | 14.6 | -30.7 | 78.4 | -65.7 | 144.08 | 0.544 | Level 1, ES, SF |
| 7,100.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.5 | 126.7 | 90.00 | 14.6 | -30.7 | 82.8 | -61.4 | 144.19 | 0.574 | Level 1 |
| 7,200.0 | 6,336.0 | 6,336.0 | 6,336.0 | 18.1 | 126.7 | 90.00 | 14.6 | -30.7 | 149.0 | 4.2 | 144.78 | 1.029 | Level 2 |
| 7,300.0 | 6,336.0 | 6,336.0 | 6,336.0 | 18.8 | 126.7 | 90.00 | 14.6 | -30.7 | 239.9 | 94.3 | 145.55 | 1.648 | |
| 7,400.0 | 6,336.0 | 6,336.0 | 6,336.0 | 19.8 | 126.7 | 90.00 | 14.6 | -30.7 | 336.0 | 189.5 | 146.47 | 2.294 | |
| 7,500.0 | 6,336.0 | 6,336.0 | 6,336.0 | 20.8 | 126.7 | 90.00 | 14.6 | -30.7 | 433.9 | 286.3 | 147.53 | 2.941 | |
| 7,600.0 | 6,336.0 | 6,336.0 | 6,336.0 | 22.0 | 126.7 | 90.00 | 14.6 | -30.7 | 532.5 | 383.8 | 148.71 | 3.581 | |
| 7,700.0 | 6,336.0 | 6,336.0 | 6,336.0 | 23.3 | 126.7 | 90.00 | 14.6 | -30.7 | 631.6 | 481.6 | 149.98 | 4.211 | |
| 7,800.0 | 6,336.0 | 6,336.0 | 6,336.0 | 24.6 | 126.7 | 90.00 | 14.6 | -30.7 | 730.9 | 579.6 | 151.34 | 4.830 | |
| 7,900.0 | 6,336.0 | 6,336.0 | 6,336.0 | 26.1 | 126.7 | 90.00 | 14.6 | -30.7 | 830.4 | 677.6 | 152.77 | 5.436 | |
| 8,000.0 | 6,336.0 | 6,336.0 | 6,336.0 | 27.5 | 126.7 | 90.00 | 14.6 | -30.7 | 930.0 | 775.8 | 154.26 | 6.029 | |

| | | | |
|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-------------------|--------------------|---------|
| Survey Program: 6336-UNKNOWN | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -96.78 | -3.6 | -30.7 | 30.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 2.0 | -96.78 | -3.6 | -30.7 | 30.9 | 28.8 | 2.11 | 14.613 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 4.0 | -96.78 | -3.6 | -30.7 | 30.9 | 26.5 | 4.34 | 7.117 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.6 | 6.0 | -96.78 | -3.6 | -30.7 | 30.9 | 24.3 | 6.56 | 4.704 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.8 | 8.0 | -96.78 | -3.6 | -30.7 | 30.9 | 22.1 | 8.79 | 3.513 | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 1.0 | 10.0 | -96.78 | -3.6 | -30.7 | 30.9 | 19.9 | 11.01 | 2.803 | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.2 | 12.0 | -96.78 | -3.6 | -30.7 | 30.9 | 17.6 | 13.24 | 2.332 | | |
| 700.0 | 700.0 | 700.0 | 700.0 | 1.5 | 14.0 | -96.78 | -3.6 | -30.7 | 30.9 | 15.4 | 15.46 | 1.997 CC | | |
| 800.0 | 800.0 | 800.0 | 800.0 | 1.7 | 16.0 | -103.02 | -3.6 | -30.7 | 31.2 | 13.5 | 17.68 | 1.765 | | |
| 900.0 | 899.8 | 899.8 | 899.8 | 1.9 | 18.0 | -111.92 | -3.6 | -30.7 | 32.8 | 12.9 | 19.90 | 1.648 | | |
| 1,000.0 | 999.5 | 999.5 | 999.5 | 2.1 | 20.0 | -124.46 | -3.6 | -30.7 | 37.0 | 14.9 | 22.09 | 1.672 | | |
| 1,100.0 | 1,098.7 | 1,098.7 | 1,098.7 | 2.4 | 22.0 | -137.21 | -3.6 | -30.7 | 45.0 | 20.8 | 24.23 | 1.857 | | |
| 1,200.0 | 1,197.5 | 1,197.5 | 1,197.5 | 2.7 | 23.9 | -147.68 | -3.6 | -30.7 | 57.5 | 31.2 | 26.30 | 2.187 | | |
| 1,282.1 | 1,278.1 | 1,278.1 | 1,278.1 | 2.9 | 25.6 | -154.20 | -3.6 | -30.7 | 71.1 | 43.1 | 27.94 | 2.544 | | |
| 1,300.0 | 1,295.6 | 1,295.6 | 1,295.6 | 3.0 | 25.9 | -155.41 | -3.6 | -30.7 | 74.3 | 46.0 | 28.32 | 2.626 | | |
| 1,400.0 | 1,393.6 | 1,393.6 | 1,393.6 | 3.4 | 27.9 | -160.57 | -3.6 | -30.7 | 93.1 | 62.7 | 30.45 | 3.058 | | |
| 1,500.0 | 1,491.5 | 1,491.5 | 1,491.5 | 3.7 | 29.8 | -163.99 | -3.6 | -30.7 | 112.4 | 79.8 | 32.60 | 3.448 | | |
| 1,600.0 | 1,589.5 | 1,589.5 | 1,589.5 | 4.1 | 31.8 | -166.40 | -3.6 | -30.7 | 131.9 | 97.2 | 34.75 | 3.796 | | |
| 1,700.0 | 1,687.4 | 1,687.4 | 1,687.4 | 4.5 | 33.7 | -168.19 | -3.6 | -30.7 | 151.6 | 114.7 | 36.92 | 4.108 | | |
| 1,800.0 | 1,785.3 | 1,785.3 | 1,785.3 | 4.9 | 35.7 | -169.57 | -3.6 | -30.7 | 171.5 | 132.4 | 39.08 | 4.387 | | |
| 1,900.0 | 1,883.3 | 1,883.3 | 1,883.3 | 5.3 | 37.7 | -170.67 | -3.6 | -30.7 | 191.3 | 150.1 | 41.25 | 4.638 | | |
| 2,000.0 | 1,981.2 | 1,981.2 | 1,981.2 | 5.7 | 39.6 | -171.55 | -3.6 | -30.7 | 211.3 | 167.9 | 43.42 | 4.866 | | |
| 2,100.0 | 2,079.2 | 2,079.2 | 2,079.2 | 6.1 | 41.6 | -172.29 | -3.6 | -30.7 | 231.3 | 185.7 | 45.60 | 5.072 | | |
| 2,200.0 | 2,177.1 | 2,177.1 | 2,177.1 | 6.5 | 43.5 | -172.90 | -3.6 | -30.7 | 251.3 | 203.5 | 47.77 | 5.260 | | |
| 2,300.0 | 2,275.1 | 2,275.1 | 2,275.1 | 6.9 | 45.5 | -173.43 | -3.6 | -30.7 | 271.3 | 221.4 | 49.95 | 5.433 | | |
| 2,400.0 | 2,373.0 | 2,373.0 | 2,373.0 | 7.4 | 47.5 | -173.88 | -3.6 | -30.7 | 291.4 | 239.3 | 52.12 | 5.591 | | |
| 2,500.0 | 2,470.9 | 2,470.9 | 2,470.9 | 7.8 | 49.4 | -174.28 | -3.6 | -30.7 | 311.5 | 257.2 | 54.30 | 5.736 | | |
| 2,600.0 | 2,568.9 | 2,568.9 | 2,568.9 | 8.2 | 51.4 | -174.63 | -3.6 | -30.7 | 331.6 | 275.1 | 56.48 | 5.871 | | |
| 2,700.0 | 2,666.8 | 2,666.8 | 2,666.8 | 8.6 | 53.3 | -174.93 | -3.6 | -30.7 | 351.7 | 293.0 | 58.66 | 5.995 | | |
| 2,800.0 | 2,764.8 | 2,764.8 | 2,764.8 | 9.1 | 55.3 | -175.21 | -3.6 | -30.7 | 371.8 | 310.9 | 60.84 | 6.111 | | |
| 2,900.0 | 2,862.7 | 2,862.7 | 2,862.7 | 9.5 | 57.3 | -175.46 | -3.6 | -30.7 | 391.9 | 328.9 | 63.02 | 6.219 | | |
| 3,000.0 | 2,960.7 | 2,960.7 | 2,960.7 | 9.9 | 59.2 | -175.68 | -3.6 | -30.7 | 412.0 | 346.8 | 65.20 | 6.319 | | |
| 3,100.0 | 3,058.6 | 3,058.6 | 3,058.6 | 10.3 | 61.2 | -175.88 | -3.6 | -30.7 | 432.1 | 364.8 | 67.38 | 6.414 | | |
| 3,200.0 | 3,156.5 | 3,156.5 | 3,156.5 | 10.8 | 63.1 | -176.06 | -3.6 | -30.7 | 452.3 | 382.7 | 69.56 | 6.502 | | |
| 3,300.0 | 3,254.5 | 3,254.5 | 3,254.5 | 11.2 | 65.1 | -176.23 | -3.6 | -30.7 | 472.4 | 400.7 | 71.74 | 6.585 | | |
| 3,400.0 | 3,352.4 | 3,352.4 | 3,352.4 | 11.6 | 67.0 | -176.39 | -3.6 | -30.7 | 492.5 | 418.6 | 73.92 | 6.663 | | |
| 3,500.0 | 3,450.4 | 3,450.4 | 3,450.4 | 12.1 | 69.0 | -176.53 | -3.6 | -30.7 | 512.7 | 436.6 | 76.10 | 6.737 | | |
| 3,600.0 | 3,548.3 | 3,548.3 | 3,548.3 | 12.5 | 71.0 | -176.66 | -3.6 | -30.7 | 532.8 | 454.5 | 78.29 | 6.806 | | |
| 3,700.0 | 3,646.3 | 3,646.3 | 3,646.3 | 12.9 | 72.9 | -176.78 | -3.6 | -30.7 | 553.0 | 472.5 | 80.47 | 6.872 | | |
| 3,800.0 | 3,744.2 | 3,744.2 | 3,744.2 | 13.3 | 74.9 | -176.89 | -3.6 | -30.7 | 573.1 | 490.5 | 82.65 | 6.934 | | |
| 3,900.0 | 3,842.1 | 3,842.1 | 3,842.1 | 13.8 | 76.8 | -177.00 | -3.6 | -30.7 | 593.3 | 508.4 | 84.83 | 6.993 | | |
| 4,000.0 | 3,940.1 | 3,940.1 | 3,940.1 | 14.2 | 78.8 | -177.10 | -3.6 | -30.7 | 613.4 | 526.4 | 87.02 | 7.050 | | |
| 4,100.0 | 4,038.0 | 4,038.0 | 4,038.0 | 14.6 | 80.8 | -177.19 | -3.6 | -30.7 | 633.6 | 544.4 | 89.20 | 7.103 | | |
| 4,200.0 | 4,136.0 | 4,136.0 | 4,136.0 | 15.1 | 82.7 | -177.28 | -3.6 | -30.7 | 653.7 | 562.4 | 91.38 | 7.154 | | |
| 4,300.0 | 4,233.9 | 4,233.9 | 4,233.9 | 15.5 | 84.7 | -177.36 | -3.6 | -30.7 | 673.9 | 580.3 | 93.57 | 7.202 | | |
| 4,400.0 | 4,331.9 | 4,331.9 | 4,331.9 | 15.9 | 86.6 | -177.44 | -3.6 | -30.7 | 694.1 | 598.3 | 95.75 | 7.249 | | |
| 4,500.0 | 4,429.8 | 4,429.8 | 4,429.8 | 16.4 | 88.6 | -177.51 | -3.6 | -30.7 | 714.2 | 616.3 | 97.93 | 7.293 | | |
| 4,600.0 | 4,527.7 | 4,527.7 | 4,527.7 | 16.8 | 90.6 | -177.58 | -3.6 | -30.7 | 734.4 | 634.3 | 100.11 | 7.335 | | |
| 4,700.0 | 4,625.7 | 4,625.7 | 4,625.7 | 17.2 | 92.5 | -177.64 | -3.6 | -30.7 | 754.5 | 652.2 | 102.30 | 7.376 | | |
| 4,800.0 | 4,723.6 | 4,723.6 | 4,723.6 | 17.7 | 94.5 | -177.70 | -3.6 | -30.7 | 774.7 | 670.2 | 104.48 | 7.415 | | |
| 4,900.0 | 4,821.6 | 4,821.6 | 4,821.6 | 18.1 | 96.4 | -177.76 | -3.6 | -30.7 | 794.9 | 688.2 | 106.67 | 7.452 | | |
| 5,000.0 | 4,919.5 | 4,919.5 | 4,919.5 | 18.5 | 98.4 | -177.82 | -3.6 | -30.7 | 815.0 | 706.2 | 108.85 | 7.488 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

| Antelope 41-44-31HZ Pad Sec.31-T5N-R62W - Antelope 41-31 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|-----------------------|--------------------|---------|
| Survey Program: 6336-UNKNOWN | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | | |
| 5,104.5 | 5,021.9 | 5,021.9 | 5,021.9 | 19.0 | 100.4 | -177.87 | -3.6 | -30.7 | 836.1 | 725.0 | 111.13 | 7.524 | | |
| 5,200.0 | 5,115.7 | 5,115.7 | 5,115.7 | 19.3 | 102.3 | -177.93 | -3.6 | -30.7 | 853.8 | 740.0 | 113.83 | 7.501 | | |
| 5,300.0 | 5,214.5 | 5,214.5 | 5,214.5 | 19.6 | 104.3 | -177.98 | -3.6 | -30.7 | 869.0 | 752.4 | 116.52 | 7.458 | | |
| 5,400.0 | 5,313.9 | 5,313.9 | 5,313.9 | 19.8 | 106.3 | -178.01 | -3.6 | -30.7 | 880.7 | 761.6 | 119.09 | 7.395 | | |
| 5,500.0 | 5,413.5 | 5,413.5 | 5,413.5 | 20.1 | 108.3 | -178.04 | -3.6 | -30.7 | 888.9 | 767.4 | 121.53 | 7.315 | | |
| 5,600.0 | 5,513.4 | 5,513.4 | 5,513.4 | 20.2 | 110.3 | -178.05 | -3.6 | -30.7 | 893.7 | 769.9 | 123.82 | 7.217 | | |
| 5,686.6 | 5,600.0 | 5,600.0 | 5,600.0 | 20.3 | 112.0 | -174.96 | -3.6 | -30.7 | 895.0 | 769.3 | 125.69 | 7.121 | | |
| 5,700.0 | 5,613.4 | 5,613.4 | 5,613.4 | 20.3 | 112.3 | -174.96 | -3.6 | -30.7 | 895.0 | 769.0 | 125.98 | 7.104 | | |
| 5,800.0 | 5,713.4 | 5,713.4 | 5,713.4 | 20.5 | 114.3 | -174.96 | -3.6 | -30.7 | 895.0 | 766.8 | 128.18 | 6.982 | | |
| 5,901.8 | 5,815.1 | 5,815.1 | 5,815.1 | 20.6 | 116.3 | -174.96 | -3.6 | -30.7 | 895.0 | 764.6 | 130.42 | 6.863 | | |
| 5,950.0 | 5,863.3 | 5,863.3 | 5,863.3 | 20.6 | 117.3 | 5.32 | -3.6 | -30.7 | 892.8 | 762.1 | 130.73 | 6.829 | | |
| 6,000.0 | 5,912.8 | 5,912.8 | 5,912.8 | 20.6 | 118.3 | 5.43 | -3.6 | -30.7 | 885.8 | 756.0 | 129.85 | 6.822 | | |
| 6,050.0 | 5,961.4 | 5,961.4 | 5,961.4 | 20.5 | 119.2 | 5.63 | -3.6 | -30.7 | 874.1 | 746.4 | 127.75 | 6.843 | | |
| 6,100.0 | 6,008.6 | 6,008.6 | 6,008.6 | 20.4 | 120.2 | 5.93 | -3.6 | -30.7 | 857.9 | 733.5 | 124.43 | 6.895 | | |
| 6,150.0 | 6,054.1 | 6,054.1 | 6,054.1 | 20.2 | 121.1 | 6.35 | -3.6 | -30.7 | 837.2 | 717.3 | 119.93 | 6.981 | | |
| 6,200.0 | 6,097.3 | 6,097.3 | 6,097.3 | 20.0 | 121.9 | 6.91 | -3.6 | -30.7 | 812.3 | 698.0 | 114.30 | 7.107 | | |
| 6,250.0 | 6,138.0 | 6,138.0 | 6,138.0 | 19.8 | 122.8 | 7.67 | -3.6 | -30.7 | 783.4 | 675.8 | 107.64 | 7.278 | | |
| 6,300.0 | 6,175.7 | 6,175.7 | 6,175.7 | 19.5 | 123.5 | 8.69 | -3.6 | -30.7 | 750.8 | 650.7 | 100.12 | 7.499 | | |
| 6,350.0 | 6,210.1 | 6,210.1 | 6,210.1 | 19.2 | 124.2 | 10.09 | -3.6 | -30.7 | 714.7 | 622.7 | 92.01 | 7.768 | | |
| 6,400.0 | 6,240.8 | 6,240.8 | 6,240.8 | 18.9 | 124.8 | 12.03 | -3.6 | -30.7 | 675.6 | 591.7 | 83.83 | 8.059 | | |
| 6,450.0 | 6,267.6 | 6,267.6 | 6,267.6 | 18.6 | 125.4 | 14.82 | -3.6 | -30.7 | 633.7 | 557.1 | 76.59 | 8.275 | | |
| 6,500.0 | 6,290.3 | 6,290.3 | 6,290.3 | 18.3 | 125.8 | 18.99 | -3.6 | -30.7 | 589.6 | 517.2 | 72.37 | 8.146 | | |
| 6,550.0 | 6,308.5 | 6,308.5 | 6,308.5 | 18.0 | 126.2 | 25.56 | -3.6 | -30.7 | 543.6 | 468.4 | 75.16 | 7.232 | | |
| 6,600.0 | 6,322.3 | 6,322.3 | 6,322.3 | 17.7 | 126.4 | 36.41 | -3.6 | -30.7 | 496.1 | 405.9 | 90.19 | 5.501 | | |
| 6,650.0 | 6,331.3 | 6,331.3 | 6,331.3 | 17.5 | 126.6 | 54.42 | -3.6 | -30.7 | 447.7 | 329.6 | 118.12 | 3.790 | | |
| 6,700.0 | 6,335.6 | 6,335.6 | 6,335.6 | 17.3 | 126.7 | 79.72 | -3.6 | -30.7 | 398.9 | 257.1 | 141.73 | 2.814 | | |
| 6,719.9 | 6,336.0 | 6,336.0 | 6,336.0 | 17.3 | 126.7 | 90.00 | -3.6 | -30.7 | 379.4 | 235.4 | 143.96 | 2.635 | | |
| 6,720.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.3 | 126.7 | 90.00 | -3.6 | -30.7 | 379.4 | 235.4 | 143.96 | 2.635 | | |
| 6,800.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | -3.6 | -30.7 | 301.7 | 157.9 | 143.79 | 2.098 | | |
| 6,820.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | -3.6 | -30.7 | 282.6 | 138.8 | 143.77 | 1.965 | | |
| 6,821.2 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | -3.6 | -30.7 | 281.4 | 137.6 | 143.77 | 1.957 | | |
| 6,900.0 | 6,336.0 | 6,336.0 | 6,336.0 | 16.9 | 126.7 | 90.00 | -3.6 | -30.7 | 206.9 | 63.2 | 143.61 | 1.440 Level 3 | | |
| 7,000.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.1 | 126.7 | 90.00 | -3.6 | -30.7 | 120.4 | -23.4 | 143.80 | 0.837 Level 1 | | |
| 7,091.5 | 6,336.0 | 6,336.0 | 6,336.0 | 17.4 | 126.7 | 90.00 | -3.6 | -30.7 | 78.2 | -65.9 | 144.16 | 0.543 Level 1, ES, SF | | |
| 7,100.0 | 6,336.0 | 6,336.0 | 6,336.0 | 17.5 | 126.7 | 90.00 | -3.6 | -30.7 | 78.7 | -65.5 | 144.19 | 0.546 Level 1 | | |
| 7,200.0 | 6,336.0 | 6,336.0 | 6,336.0 | 18.1 | 126.7 | 90.00 | -3.6 | -30.7 | 133.7 | -11.0 | 144.78 | 0.924 Level 1 | | |
| 7,300.0 | 6,336.0 | 6,336.0 | 6,336.0 | 18.8 | 126.7 | 90.00 | -3.6 | -30.7 | 222.7 | 77.1 | 145.55 | 1.530 | | |
| 7,400.0 | 6,336.0 | 6,336.0 | 6,336.0 | 19.8 | 126.7 | 90.00 | -3.6 | -30.7 | 318.3 | 171.8 | 146.47 | 2.173 | | |
| 7,500.0 | 6,336.0 | 6,336.0 | 6,336.0 | 20.8 | 126.7 | 90.00 | -3.6 | -30.7 | 415.9 | 268.4 | 147.53 | 2.819 | | |
| 7,600.0 | 6,336.0 | 6,336.0 | 6,336.0 | 22.0 | 126.7 | 90.00 | -3.6 | -30.7 | 514.5 | 365.8 | 148.71 | 3.460 | | |
| 7,700.0 | 6,336.0 | 6,336.0 | 6,336.0 | 23.3 | 126.7 | 90.00 | -3.6 | -30.7 | 613.5 | 463.5 | 149.98 | 4.090 | | |
| 7,800.0 | 6,336.0 | 6,336.0 | 6,336.0 | 24.6 | 126.7 | 90.00 | -3.6 | -30.7 | 712.8 | 561.5 | 151.34 | 4.710 | | |
| 7,900.0 | 6,336.0 | 6,336.0 | 6,336.0 | 26.1 | 126.7 | 90.00 | -3.6 | -30.7 | 812.3 | 659.5 | 152.77 | 5.317 | | |
| 8,000.0 | 6,336.0 | 6,336.0 | 6,336.0 | 27.5 | 126.7 | 90.00 | -3.6 | -30.7 | 911.9 | 757.6 | 154.26 | 5.911 | | |

| | | | |
|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|------------------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------------------|
| Survey Program: 6336-UNKNOWN | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | |
| 7,400.0 | 6,336.0 | 6,324.7 | 6,324.7 | 19.8 | 126.5 | 90.00 | -1,205.9 | -125.4 | 908.8 | 762.6 | 146.25 | 6.214 | |
| 7,500.0 | 6,336.0 | 6,324.7 | 6,324.7 | 20.8 | 126.5 | 90.00 | -1,205.9 | -125.4 | 810.6 | 663.3 | 147.31 | 5.503 | |
| 7,600.0 | 6,336.0 | 6,324.7 | 6,324.7 | 22.0 | 126.5 | 90.00 | -1,205.9 | -125.4 | 712.8 | 564.3 | 148.48 | 4.801 | |
| 7,700.0 | 6,336.0 | 6,324.7 | 6,324.7 | 23.3 | 126.5 | 90.00 | -1,205.9 | -125.4 | 615.7 | 466.0 | 149.76 | 4.112 | |
| 7,800.0 | 6,336.0 | 6,324.7 | 6,324.7 | 24.6 | 126.5 | 90.00 | -1,205.9 | -125.4 | 519.8 | 368.7 | 151.12 | 3.440 | |
| 7,900.0 | 6,336.0 | 6,324.7 | 6,324.7 | 26.1 | 126.5 | 90.00 | -1,205.9 | -125.4 | 425.7 | 273.2 | 152.55 | 2.791 | |
| 8,000.0 | 6,336.0 | 6,324.7 | 6,324.7 | 27.5 | 126.5 | 90.00 | -1,205.9 | -125.4 | 335.1 | 181.1 | 154.04 | 2.176 | |
| 8,100.0 | 6,336.0 | 6,324.7 | 6,324.7 | 29.1 | 126.5 | 90.00 | -1,205.9 | -125.4 | 251.7 | 96.1 | 155.57 | 1.618 | |
| 8,200.0 | 6,336.0 | 6,324.7 | 6,324.7 | 30.7 | 126.5 | 90.00 | -1,205.9 | -125.4 | 185.5 | 28.4 | 157.16 | 1.180 | Level 2 |
| 8,294.7 | 6,336.0 | 6,324.7 | 6,324.7 | 32.2 | 126.5 | 90.00 | -1,205.9 | -125.4 | 159.5 | 0.8 | 158.69 | 1.005 | Level 2, CC, ES, SF |
| 8,300.0 | 6,336.0 | 6,324.7 | 6,324.7 | 32.3 | 126.5 | 90.00 | -1,205.9 | -125.4 | 159.6 | 0.8 | 158.77 | 1.005 | Level 2 |
| 8,400.0 | 6,336.0 | 6,324.7 | 6,324.7 | 33.9 | 126.5 | 90.00 | -1,205.9 | -125.4 | 191.1 | 30.7 | 160.42 | 1.191 | Level 2 |
| 8,500.0 | 6,336.0 | 6,324.7 | 6,324.7 | 35.6 | 126.5 | 90.00 | -1,205.9 | -125.4 | 260.0 | 97.9 | 162.10 | 1.604 | |
| 8,600.0 | 6,336.0 | 6,324.7 | 6,324.7 | 37.3 | 126.5 | 90.00 | -1,205.9 | -125.4 | 344.4 | 180.6 | 163.80 | 2.103 | |
| 8,700.0 | 6,336.0 | 6,324.7 | 6,324.7 | 39.0 | 126.5 | 90.00 | -1,205.9 | -125.4 | 435.5 | 270.0 | 165.52 | 2.631 | |
| 8,800.0 | 6,336.0 | 6,324.7 | 6,324.7 | 40.8 | 126.5 | 90.00 | -1,205.9 | -125.4 | 529.9 | 362.6 | 167.26 | 3.168 | |
| 8,900.0 | 6,336.0 | 6,324.7 | 6,324.7 | 42.5 | 126.5 | 90.00 | -1,205.9 | -125.4 | 625.9 | 456.9 | 169.01 | 3.704 | |
| 9,000.0 | 6,336.0 | 6,324.7 | 6,324.7 | 44.3 | 126.5 | 90.00 | -1,205.9 | -125.4 | 723.1 | 552.3 | 170.78 | 4.234 | |
| 9,100.0 | 6,336.0 | 6,324.7 | 6,324.7 | 46.1 | 126.5 | 90.00 | -1,205.9 | -125.4 | 820.9 | 648.4 | 172.55 | 4.757 | |
| 9,200.0 | 6,336.0 | 6,324.7 | 6,324.7 | 47.9 | 126.5 | 90.00 | -1,205.9 | -125.4 | 919.2 | 744.9 | 174.34 | 5.272 | |

| Offset Design Antelope 41-44-31HZ Pad Sec.31-T5N-R62W - Antelope 43-31 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|--------------------|-------------------|--------------------------------|--|
| Survey Program: 465-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | (ft) | | | |
| 8,600.0 | 6,336.0 | 6,366.2 | 6,272.3 | 37.3 | 20.5 | 87.10 | -2,492.4 | -151.4 | 996.4 | 942.5 | 53.82 | 18.512 | | |
| 8,700.0 | 6,336.0 | 6,367.8 | 6,273.9 | 39.0 | 20.5 | 87.63 | -2,492.5 | -151.4 | 898.0 | 842.4 | 55.58 | 16.158 | | |
| 8,800.0 | 6,336.0 | 6,369.4 | 6,275.5 | 40.8 | 20.5 | 88.15 | -2,492.5 | -151.3 | 800.1 | 742.7 | 57.34 | 13.952 | | |
| 8,900.0 | 6,336.0 | 6,371.0 | 6,277.1 | 42.5 | 20.5 | 88.68 | -2,492.5 | -151.3 | 702.7 | 643.6 | 59.12 | 11.885 | | |
| 9,000.0 | 6,336.0 | 6,372.5 | 6,278.6 | 44.3 | 20.5 | 89.20 | -2,492.5 | -151.2 | 606.2 | 545.3 | 60.91 | 9.952 | | |
| 9,100.0 | 6,336.0 | 6,374.1 | 6,280.2 | 46.1 | 20.5 | 89.73 | -2,492.6 | -151.1 | 511.0 | 448.3 | 62.71 | 8.149 | | |
| 9,200.0 | 6,336.0 | 6,375.7 | 6,281.7 | 47.9 | 20.6 | 90.25 | -2,492.6 | -151.1 | 418.1 | 353.6 | 64.52 | 6.481 | | |
| 9,300.0 | 6,336.0 | 6,377.2 | 6,283.3 | 49.7 | 20.6 | 90.77 | -2,492.6 | -151.0 | 329.4 | 263.0 | 66.33 | 4.966 | | |
| 9,400.0 | 6,336.0 | 6,378.8 | 6,284.8 | 51.5 | 20.6 | 91.29 | -2,492.6 | -151.0 | 249.3 | 181.2 | 68.14 | 3.659 | | |
| 9,500.0 | 6,336.0 | 6,380.3 | 6,286.4 | 53.3 | 20.6 | 91.80 | -2,492.7 | -150.9 | 189.2 | 119.3 | 69.96 | 2.705 | | |
| 9,581.7 | 6,336.0 | 6,381.5 | 6,287.6 | 54.8 | 20.6 | 92.22 | -2,492.7 | -150.9 | 170.7 | 99.2 | 71.45 | 2.389 | CC, ES, SF | |
| 9,600.0 | 6,336.0 | 6,381.8 | 6,287.9 | 55.1 | 20.6 | 92.32 | -2,492.7 | -150.8 | 171.6 | 99.9 | 71.78 | 2.391 | | |
| 9,700.0 | 6,336.0 | 6,383.3 | 6,289.4 | 56.9 | 20.6 | 92.83 | -2,492.7 | -150.8 | 207.6 | 134.0 | 73.60 | 2.821 | | |
| 9,800.0 | 6,336.0 | 6,384.9 | 6,290.9 | 58.8 | 20.6 | 93.34 | -2,492.7 | -150.7 | 277.0 | 201.6 | 75.42 | 3.674 | | |
| 9,900.0 | 6,336.0 | 6,386.4 | 6,292.5 | 60.6 | 20.6 | 93.85 | -2,492.8 | -150.7 | 361.1 | 283.9 | 77.24 | 4.675 | | |
| 10,000.0 | 6,336.0 | 6,387.9 | 6,294.0 | 62.4 | 20.6 | 94.35 | -2,492.8 | -150.6 | 451.7 | 372.6 | 79.05 | 5.714 | | |
| 10,100.0 | 6,336.0 | 6,389.4 | 6,295.5 | 64.3 | 20.6 | 94.86 | -2,492.8 | -150.6 | 545.6 | 464.7 | 80.87 | 6.747 | | |
| 10,200.0 | 6,336.0 | 6,390.9 | 6,297.0 | 66.1 | 20.6 | 95.36 | -2,492.8 | -150.5 | 641.3 | 558.6 | 82.68 | 7.757 | | |
| 10,300.0 | 6,336.0 | 6,392.4 | 6,298.5 | 68.0 | 20.6 | 95.86 | -2,492.9 | -150.4 | 738.2 | 653.7 | 84.48 | 8.738 | | |
| 10,400.0 | 6,336.0 | 6,393.9 | 6,299.9 | 69.9 | 20.6 | 96.36 | -2,492.9 | -150.4 | 835.8 | 749.5 | 86.29 | 9.686 | | |
| 10,500.0 | 6,336.0 | 6,395.4 | 6,301.4 | 71.7 | 20.6 | 96.85 | -2,492.9 | -150.3 | 933.9 | 845.8 | 88.08 | 10.602 | | |

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|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Antelope 41-44-31HZ Pad Sec.31-T5N-R62W - Antelope 44-31 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 468-MWD | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 10,000.0 | 6,336.0 | 6,396.8 | 6,279.9 | 62.4 | 22.2 | 90.32 | -3,819.8 | -164.6 | 924.6 | 843.2 | 81.34 | 11.367 | |
| 10,100.0 | 6,336.0 | 6,396.9 | 6,280.0 | 64.3 | 22.2 | 90.34 | -3,819.8 | -164.6 | 826.5 | 743.3 | 83.19 | 9.935 | |
| 10,200.0 | 6,336.0 | 6,397.0 | 6,280.1 | 66.1 | 22.2 | 90.36 | -3,819.8 | -164.6 | 728.9 | 643.8 | 85.04 | 8.571 | |
| 10,300.0 | 6,336.0 | 6,397.0 | 6,280.1 | 68.0 | 22.2 | 90.38 | -3,819.8 | -164.6 | 632.0 | 545.1 | 86.89 | 7.274 | |
| 10,400.0 | 6,336.0 | 6,397.1 | 6,280.2 | 69.9 | 22.2 | 90.40 | -3,819.8 | -164.6 | 536.4 | 447.6 | 88.75 | 6.043 | |
| 10,500.0 | 6,336.0 | 6,397.1 | 6,280.2 | 71.7 | 22.2 | 90.42 | -3,819.8 | -164.6 | 442.6 | 352.0 | 90.62 | 4.884 | |
| 10,600.0 | 6,336.0 | 6,397.2 | 6,280.3 | 73.6 | 22.2 | 90.44 | -3,819.8 | -164.6 | 352.3 | 259.8 | 92.48 | 3.809 | |
| 10,700.0 | 6,336.0 | 6,397.2 | 6,280.4 | 75.5 | 22.2 | 90.46 | -3,819.8 | -164.6 | 269.0 | 174.6 | 94.35 | 2.851 | |
| 10,800.0 | 6,336.0 | 6,397.3 | 6,280.4 | 77.3 | 22.2 | 90.48 | -3,819.8 | -164.6 | 201.4 | 105.2 | 96.22 | 2.093 | |
| 10,900.0 | 6,336.0 | 6,397.4 | 6,280.5 | 79.2 | 22.2 | 90.50 | -3,819.8 | -164.6 | 169.6 | 71.5 | 98.09 | 1.729 | |
| 10,908.9 | 6,336.0 | 6,397.4 | 6,280.5 | 79.4 | 22.2 | 90.50 | -3,819.8 | -164.6 | 169.4 | 71.1 | 98.26 | 1.724 CC, ES, SF | |
| 11,000.0 | 6,336.0 | 6,397.4 | 6,280.5 | 81.1 | 22.2 | 90.52 | -3,819.8 | -164.6 | 192.3 | 92.4 | 99.97 | 1.924 | |
| 11,091.0 | 6,336.0 | 6,397.5 | 6,280.6 | 82.8 | 22.2 | 90.53 | -3,819.8 | -164.6 | 248.7 | 147.0 | 101.68 | 2.446 | |

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|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|-------------------------|---------------------------|---------|
| Antelope 41-44-31HZ Pad Sec.31-T5N-R62W - Antelope Q-31 (Exist.) - Wellbore #1 - Wellbore #1 | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Survey Program: 470-MWD | | | | | | | | | | | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning |
| 7,100.0 | 6,336.0 | 6,416.6 | 6,329.4 | 17.5 | 20.6 | 90.29 | -549.3 | -780.2 | 986.2 | 951.3 | 34.91 | 28.248 | |
| 7,200.0 | 6,336.0 | 6,417.1 | 6,330.0 | 18.1 | 20.6 | 90.33 | -549.3 | -780.2 | 934.6 | 899.1 | 35.50 | 26.326 | |
| 7,300.0 | 6,336.0 | 6,417.7 | 6,330.5 | 18.8 | 20.6 | 90.37 | -549.3 | -780.2 | 891.3 | 855.1 | 36.27 | 24.574 | |
| 7,400.0 | 6,336.0 | 6,418.2 | 6,331.1 | 19.8 | 20.6 | 90.41 | -549.3 | -780.2 | 857.5 | 820.3 | 37.20 | 23.055 | |
| 7,500.0 | 6,336.0 | 6,418.8 | 6,331.6 | 20.8 | 20.6 | 90.45 | -549.3 | -780.2 | 834.4 | 796.2 | 38.26 | 21.812 | |
| 7,600.0 | 6,336.0 | 6,419.3 | 6,332.2 | 22.0 | 20.6 | 90.49 | -549.3 | -780.2 | 822.9 | 783.5 | 39.43 | 20.869 | |
| 7,645.5 | 6,336.0 | 6,419.6 | 6,332.4 | 22.6 | 20.6 | 90.50 | -549.3 | -780.2 | 821.6 | 781.6 | 40.01 | 20.534 CC, ES | |
| 7,700.0 | 6,336.0 | 6,419.9 | 6,332.7 | 23.3 | 20.6 | 90.53 | -549.3 | -780.2 | 823.4 | 782.7 | 40.71 | 20.228 | |
| 7,800.0 | 6,336.0 | 6,420.4 | 6,333.3 | 24.6 | 20.6 | 90.56 | -549.3 | -780.2 | 836.0 | 794.0 | 42.07 | 19.874 | |
| 7,900.0 | 6,336.0 | 6,421.0 | 6,333.8 | 26.1 | 20.6 | 90.60 | -549.3 | -780.2 | 860.1 | 816.7 | 43.50 | 19.775 SF | |
| 8,000.0 | 6,336.0 | 6,421.6 | 6,334.4 | 27.5 | 20.6 | 90.64 | -549.3 | -780.2 | 894.8 | 849.9 | 44.98 | 19.892 | |
| 8,100.0 | 6,336.0 | 6,422.1 | 6,335.0 | 29.1 | 20.6 | 90.68 | -549.3 | -780.2 | 939.0 | 892.4 | 46.52 | 20.183 | |
| 8,200.0 | 6,336.0 | 6,422.7 | 6,335.5 | 30.7 | 20.6 | 90.72 | -549.3 | -780.2 | 991.2 | 943.1 | 48.10 | 20.606 | |

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|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4619.0ft (Original Well Elev) Coordinates are relative to: Antelope 41-44-31HZ
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.74°



| | | | |
|---------------------------|---|-------------------------------------|--------------------------------------|
| Company: | BONANZA CREEK ENERGY OPERATING | Local Co-ordinate Reference: | Well Antelope 41-44-31HZ |
| Project: | SEC.31-T5N-R62W | TVD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Reference Site: | Antelope 41-44-31HZ Pad Sec.31-T5N-R62W | MD Reference: | WELL @ 4619.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Antelope 41-44-31HZ | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | Wellbore #1 | Database: | Landmark |
| Reference Design: | Plan #1 (AUG 17, 2012) | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4619.0ft (Original Well Elev) Coordinates are relative to: Antelope 41-44-31HZ
 Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, Colorado Northern Zone
 Central Meridian is -105.500000 ° Grid Convergence at Surface is: 0.74°

