

# **BONANZA CREEK ENERGY INC.**

**WELD COUNTY, COLORADO (NAD 83)**

**SW SW SEC. 2 T5N R62W 6th P.M.**

**STATE ANTELOPE F11-11-14XRLNB**

**ORIGINAL WELLBORE**

**29 August, 2016**

**Plan: PROPOSAL #1**



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-11-14XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Site:</b>	SW SW SEC. 2 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-11-14XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

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

<b>Site</b>	SW SW SEC. 2 T5N R62W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,399,632.25 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,334,887.62 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft
		<b>Latitude:</b>	40.424157
		<b>Longitude:</b>	-104.297110
		<b>Grid Convergence:</b>	0.78 °

<b>Well</b>	STATE ANTELOPE F11-11-14XRLNB		
<b>Well Position</b>	<b>+N/-S</b>	40.0 usft	<b>Northing:</b>
	<b>+E/-W</b>	0.2 usft	<b>Easting:</b>
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	ORIGINAL WELLBORE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	29/08/2016	8.05	66.97	52,546

<b>Design</b>	PROPOSAL #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	6,200.6	0.0	0.0	178.18

<b>Plan Sections</b>											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usf)	Build Rate (°/100usf)	Turn Rate (°/100usf)	TFO (°)	Target
0.0	0.00	0.00	0.0	-4,640.6	0.0	0.0	0.00	0.00	0.00	0.00	
1,850.0	0.00	0.00	1,850.0	-2,790.6	0.0	0.0	0.00	0.00	0.00	0.00	
2,720.2	17.40	161.01	2,706.9	-1,933.7	-124.0	42.7	2.00	2.00	0.00	161.01	
4,674.4	17.40	161.01	4,571.6	-69.0	-676.7	232.9	0.00	0.00	0.00	0.00	
5,544.6	0.00	0.00	5,428.5	787.9	-800.7	275.6	2.00	-2.00	0.00	180.00	
5,574.6	0.00	0.00	5,458.5	817.9	-800.7	275.6	0.00	0.00	0.00	0.00	KOP - STATE ANT
6,512.1	75.00	179.98	6,150.3	1,509.7	-1,331.5	275.8	8.00	8.00	0.00	179.98	
6,612.1	75.00	179.98	6,176.2	1,535.6	-1,428.1	275.8	0.00	0.00	0.00	0.00	
6,799.6	90.00	179.98	6,200.6	1,560.0	-1,613.5	275.9	8.00	8.00	0.00	0.00	
11,321.1	90.00	179.97	6,200.6	1,560.0	-6,135.0	277.7	0.00	0.00	0.00	-94.79	MID-LAT TGT - ST/
11,348.8	90.00	179.14	6,200.6	1,560.0	-6,162.7	277.9	3.00	0.00	-3.00	-89.96	
16,203.0	90.00	179.14	6,200.6	1,560.0	-11,016.3	350.5	0.00	0.00	0.00	0.00	BHL - STATE ANT

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-11-14XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Site:</b>	SW SW SEC. 2 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-11-14XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>SHL: 798ft FSL &amp; 811ft FWL of Sec 2</b>										
0.0	0.00	0.00	0.0	4,640.60	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,540.60	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,440.60	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,340.60	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,240.60	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,140.60	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,040.60	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,940.60	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,840.60	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,740.60	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,640.60	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,540.60	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,440.60	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,340.60	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,240.60	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,140.60	0.0	0.0	0.0	0.00	0.00	0.00
<b>SURFACE CASING</b>										
1,550.0	0.00	0.00	1,550.0	3,090.60	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	3,040.60	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	2,940.60	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	2,840.60	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
1,850.0	0.00	0.00	1,850.0	2,790.60	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	1.00	161.01	1,900.0	2,740.60	-0.4	0.1	0.4	2.00	2.00	0.00
2,000.0	3.00	161.01	1,999.9	2,640.67	-3.7	1.3	3.8	2.00	2.00	0.00
2,100.0	5.00	161.01	2,099.7	2,540.92	-10.3	3.5	10.4	2.00	2.00	0.00
2,200.0	7.00	161.01	2,199.1	2,441.47	-20.2	6.9	20.4	2.00	2.00	0.00
2,300.0	9.00	161.01	2,298.2	2,342.45	-33.4	11.5	33.7	2.00	2.00	0.00
2,400.0	11.00	161.01	2,396.6	2,243.97	-49.8	17.1	50.3	2.00	2.00	0.00
2,500.0	13.00	161.01	2,494.4	2,146.16	-69.4	23.9	70.2	2.00	2.00	0.00
2,600.0	15.00	161.01	2,591.5	2,049.14	-92.3	31.8	93.3	2.00	2.00	0.00
2,700.0	17.00	161.01	2,687.6	1,953.02	-118.4	40.7	119.6	2.00	2.00	0.00
<b>EOB TO 17.4° INC</b>										
2,720.2	17.40	161.01	2,706.9	1,933.74	-124.0	42.7	125.3	2.00	2.00	0.00
2,800.0	17.40	161.01	2,783.0	1,857.57	-146.6	50.5	148.1	0.00	0.00	0.00
2,900.0	17.40	161.01	2,878.4	1,762.15	-174.9	60.2	176.7	0.00	0.00	0.00
3,000.0	17.40	161.01	2,973.9	1,666.73	-203.1	69.9	205.3	0.00	0.00	0.00
3,100.0	17.40	161.01	3,069.3	1,571.31	-231.4	79.7	233.8	0.00	0.00	0.00
3,200.0	17.40	161.01	3,164.7	1,475.88	-259.7	89.4	262.4	0.00	0.00	0.00
3,300.0	17.40	161.01	3,260.1	1,380.46	-288.0	99.1	291.0	0.00	0.00	0.00
3,400.0	17.40	161.01	3,355.6	1,285.04	-316.3	108.9	319.6	0.00	0.00	0.00
3,500.0	17.40	161.01	3,451.0	1,189.62	-344.6	118.6	348.1	0.00	0.00	0.00
3,600.0	17.40	161.01	3,546.4	1,094.20	-372.8	128.3	376.7	0.00	0.00	0.00
3,700.0	17.40	161.01	3,641.8	998.77	-401.1	138.1	405.3	0.00	0.00	0.00
3,800.0	17.40	161.01	3,737.2	903.35	-429.4	147.8	433.9	0.00	0.00	0.00
3,900.0	17.40	161.01	3,832.7	807.93	-457.7	157.5	462.5	0.00	0.00	0.00
4,000.0	17.40	161.01	3,928.1	712.51	-486.0	167.3	491.0	0.00	0.00	0.00
4,100.0	17.40	161.01	4,023.5	617.08	-514.2	177.0	519.6	0.00	0.00	0.00
4,200.0	17.40	161.01	4,118.9	521.66	-542.5	186.7	548.2	0.00	0.00	0.00
4,300.0	17.40	161.01	4,214.4	426.24	-570.8	196.5	576.8	0.00	0.00	0.00
4,400.0	17.40	161.01	4,309.8	330.82	-599.1	206.2	605.3	0.00	0.00	0.00
4,500.0	17.40	161.01	4,405.2	235.40	-627.4	215.9	633.9	0.00	0.00	0.00
4,600.0	17.40	161.01	4,500.6	139.97	-655.6	225.7	662.5	0.00	0.00	0.00

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<b>Well:</b>	STATE ANTELOPE F11-11-14XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
<b>END OF TANGENT</b>										
4,674.4	17.40	161.01	4,571.6	68.96	-676.7	232.9	683.8	0.00	0.00	0.00
4,700.0	16.89	161.01	4,596.1	44.52	-683.8	235.4	691.0	2.00	-2.00	0.00
4,800.0	14.89	161.01	4,692.3	-51.66	-709.7	244.3	717.1	2.00	-2.00	0.00
4,900.0	12.89	161.01	4,789.3	-148.73	-732.4	252.1	740.1	2.00	-2.00	0.00
5,000.0	10.89	161.01	4,887.2	-246.57	-751.9	258.8	759.7	2.00	-2.00	0.00
5,100.0	8.89	161.01	4,985.7	-345.08	-768.1	264.4	776.2	2.00	-2.00	0.00
5,200.0	6.89	161.01	5,084.7	-444.13	-781.1	268.9	789.3	2.00	-2.00	0.00
5,300.0	4.89	161.01	5,184.2	-543.60	-790.8	272.2	799.1	2.00	-2.00	0.00
5,400.0	2.89	161.01	5,284.0	-643.36	-797.3	274.4	805.6	2.00	-2.00	0.00
5,500.0	0.89	161.01	5,383.9	-743.30	-800.4	275.5	808.7	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
5,544.6	0.00	0.00	5,428.5	-787.90	-800.7	275.6	809.1	2.00	-2.00	0.00
<b>KOP (8°/100ft BUR)</b>										
5,574.6	0.00	0.00	5,458.5	-817.90	-800.7	275.6	809.1	0.00	0.00	0.00
5,600.0	2.03	179.98	5,483.9	-843.29	-801.2	275.6	809.5	8.00	8.00	0.00
5,700.0	10.03	179.98	5,583.3	-942.66	-811.7	275.6	820.0	8.00	8.00	0.00
5,800.0	18.03	179.98	5,680.2	-1,039.60	-835.9	275.6	844.2	8.00	8.00	0.00
5,900.0	26.03	179.98	5,772.8	-1,132.22	-873.4	275.6	881.7	8.00	8.00	0.00
6,000.0	34.03	179.98	5,859.3	-1,218.72	-923.4	275.6	931.7	8.00	8.00	0.00
6,100.0	42.03	179.98	5,938.0	-1,297.43	-984.9	275.7	993.2	8.00	8.00	0.00
6,200.0	50.03	179.98	6,007.4	-1,366.80	-1,056.8	275.7	1,065.1	8.00	8.00	0.00
6,300.0	58.03	179.98	6,066.1	-1,425.48	-1,137.7	275.7	1,145.9	8.00	8.00	0.00
6,400.0	66.03	179.98	6,112.9	-1,472.34	-1,226.0	275.7	1,234.1	8.00	8.00	0.00
6,500.0	74.03	179.98	6,147.1	-1,506.46	-1,319.9	275.8	1,328.0	8.00	8.00	0.00
<b>START OF TANGENT</b>										
6,512.1	75.00	179.98	6,150.3	-1,509.69	-1,331.5	275.8	1,339.6	8.00	8.00	0.00
6,600.0	75.00	179.98	6,173.0	-1,532.44	-1,416.4	275.8	1,424.5	0.00	0.00	0.00
<b>END OF TANGENT</b>										
6,612.1	75.00	179.98	6,176.2	-1,535.58	-1,428.1	275.8	1,436.2	0.00	0.00	0.00
6,700.0	82.03	179.98	6,193.7	-1,553.06	-1,514.2	275.8	1,522.2	8.00	8.00	0.00
<b>HZ LP *NEW*: 827.8ft FNL &amp; 1085ft FWL of Sec 11</b>										
6,799.6	90.00	179.98	6,200.6	-1,559.98	-1,613.5	275.9	1,621.4	8.00	8.00	0.00
6,800.0	90.00	179.98	6,200.6	-1,559.98	-1,613.9	275.9	1,621.8	0.00	0.00	0.00
6,900.0	90.00	179.98	6,200.6	-1,559.98	-1,713.9	275.9	1,721.8	0.00	0.00	0.00
7,000.0	90.00	179.98	6,200.6	-1,559.98	-1,813.9	276.0	1,821.7	0.00	0.00	0.00
7,100.0	90.00	179.98	6,200.6	-1,559.98	-1,913.9	276.0	1,921.7	0.00	0.00	0.00
7,200.0	90.00	179.98	6,200.6	-1,559.98	-2,013.9	276.0	2,021.6	0.00	0.00	0.00
7,300.0	90.00	179.98	6,200.6	-1,559.98	-2,113.9	276.1	2,121.6	0.00	0.00	0.00
7,400.0	90.00	179.98	6,200.6	-1,559.98	-2,213.9	276.1	2,221.5	0.00	0.00	0.00
7,500.0	90.00	179.98	6,200.6	-1,559.98	-2,313.9	276.1	2,321.5	0.00	0.00	0.00
7,600.0	90.00	179.98	6,200.6	-1,559.98	-2,413.9	276.2	2,421.5	0.00	0.00	0.00
7,700.0	90.00	179.98	6,200.6	-1,559.98	-2,513.9	276.2	2,521.4	0.00	0.00	0.00
7,800.0	90.00	179.98	6,200.6	-1,559.98	-2,613.9	276.2	2,621.4	0.00	0.00	0.00
7,900.0	90.00	179.98	6,200.6	-1,559.98	-2,713.9	276.3	2,721.3	0.00	0.00	0.00
8,000.0	90.00	179.98	6,200.6	-1,559.98	-2,813.9	276.3	2,821.3	0.00	0.00	0.00
8,100.0	90.00	179.98	6,200.6	-1,559.98	-2,913.9	276.4	2,921.2	0.00	0.00	0.00
8,200.0	90.00	179.98	6,200.6	-1,559.98	-3,013.9	276.4	3,021.2	0.00	0.00	0.00
8,300.0	90.00	179.98	6,200.6	-1,559.98	-3,113.9	276.4	3,121.1	0.00	0.00	0.00
8,400.0	90.00	179.98	6,200.6	-1,559.98	-3,213.9	276.5	3,221.1	0.00	0.00	0.00
8,500.0	90.00	179.98	6,200.6	-1,559.98	-3,313.9	276.5	3,321.0	0.00	0.00	0.00
8,600.0	90.00	179.98	6,200.6	-1,559.98	-3,413.9	276.6	3,421.0	0.00	0.00	0.00
8,700.0	90.00	179.98	6,200.6	-1,559.98	-3,513.9	276.6	3,520.9	0.00	0.00	0.00

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<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Site:</b>	SW SW SEC. 2 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-11-14XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.0	90.00	179.98	6,200.6	-1,559.98	-3,613.9	276.6	3,620.9	0.00	0.00	0.00
8,900.0	90.00	179.98	6,200.6	-1,559.98	-3,713.9	276.7	3,720.8	0.00	0.00	0.00
9,000.0	90.00	179.98	6,200.6	-1,559.98	-3,813.9	276.7	3,820.8	0.00	0.00	0.00
9,100.0	90.00	179.98	6,200.6	-1,559.98	-3,913.9	276.8	3,920.7	0.00	0.00	0.00
9,200.0	90.00	179.98	6,200.6	-1,559.99	-4,013.9	276.8	4,020.7	0.00	0.00	0.00
9,300.0	90.00	179.98	6,200.6	-1,559.99	-4,113.9	276.8	4,120.6	0.00	0.00	0.00
9,400.0	90.00	179.98	6,200.6	-1,559.99	-4,213.9	276.9	4,220.6	0.00	0.00	0.00
9,500.0	90.00	179.98	6,200.6	-1,559.99	-4,313.9	276.9	4,320.5	0.00	0.00	0.00
9,600.0	90.00	179.98	6,200.6	-1,559.99	-4,413.9	277.0	4,420.5	0.00	0.00	0.00
9,700.0	90.00	179.98	6,200.6	-1,559.99	-4,513.9	277.0	4,520.4	0.00	0.00	0.00
9,800.0	90.00	179.98	6,200.6	-1,559.99	-4,613.9	277.0	4,620.4	0.00	0.00	0.00
9,900.0	90.00	179.98	6,200.6	-1,559.99	-4,713.9	277.1	4,720.3	0.00	0.00	0.00
10,000.0	90.00	179.98	6,200.6	-1,559.99	-4,813.9	277.1	4,820.3	0.00	0.00	0.00
10,100.0	90.00	179.98	6,200.6	-1,559.99	-4,913.9	277.2	4,920.2	0.00	0.00	0.00
10,200.0	90.00	179.98	6,200.6	-1,559.99	-5,013.9	277.2	5,020.2	0.00	0.00	0.00
10,300.0	90.00	179.98	6,200.6	-1,559.99	-5,113.9	277.3	5,120.1	0.00	0.00	0.00
10,400.0	90.00	179.97	6,200.6	-1,559.99	-5,213.9	277.3	5,220.1	0.00	0.00	0.00
10,500.0	90.00	179.97	6,200.6	-1,559.99	-5,313.9	277.3	5,320.0	0.00	0.00	0.00
10,600.0	90.00	179.97	6,200.6	-1,559.99	-5,413.9	277.4	5,420.0	0.00	0.00	0.00
10,700.0	90.00	179.97	6,200.6	-1,559.99	-5,513.9	277.4	5,519.9	0.00	0.00	0.00
10,800.0	90.00	179.97	6,200.6	-1,560.00	-5,613.9	277.5	5,619.9	0.00	0.00	0.00
10,900.0	90.00	179.97	6,200.6	-1,560.00	-5,713.9	277.5	5,719.8	0.00	0.00	0.00
11,000.0	90.00	179.97	6,200.6	-1,560.00	-5,813.9	277.6	5,819.8	0.00	0.00	0.00
11,100.0	90.00	179.97	6,200.6	-1,560.00	-5,913.9	277.6	5,919.7	0.00	0.00	0.00
11,200.0	90.00	179.97	6,200.6	-1,560.00	-6,013.9	277.7	6,019.7	0.00	0.00	0.00
11,300.0	90.00	179.97	6,200.6	-1,560.00	-6,113.9	277.7	6,119.6	0.00	0.00	0.00
<b>MID-LAT TGT: 0ft FNL &amp; 1081ft FWL of Sec 14</b>										
<b>11,321.1</b>	<b>90.00</b>	<b>179.97</b>	<b>6,200.6</b>	<b>-1,560.00</b>	<b>-6,135.0</b>	<b>277.7</b>	<b>6,140.7</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
<b>EOT TO 179.14° AZ</b>										
<b>11,348.8</b>	<b>90.00</b>	<b>179.14</b>	<b>6,200.6</b>	<b>-1,560.00</b>	<b>-6,162.7</b>	<b>277.9</b>	<b>6,168.4</b>	<b>3.00</b>	<b>0.00</b>	<b>-3.00</b>
11,400.0	90.00	179.14	6,200.6	-1,560.00	-6,213.9	278.7	6,219.6	0.00	0.00	0.00
11,500.0	90.00	179.14	6,200.6	-1,560.00	-6,313.9	280.2	6,319.6	0.00	0.00	0.00
11,600.0	90.00	179.14	6,200.6	-1,560.00	-6,413.9	281.7	6,419.6	0.00	0.00	0.00
11,700.0	90.00	179.14	6,200.6	-1,560.00	-6,513.8	283.2	6,519.6	0.00	0.00	0.00
11,800.0	90.00	179.14	6,200.6	-1,560.00	-6,613.8	284.7	6,619.5	0.00	0.00	0.00
11,900.0	90.00	179.14	6,200.6	-1,560.00	-6,713.8	286.2	6,719.5	0.00	0.00	0.00
12,000.0	90.00	179.14	6,200.6	-1,560.00	-6,813.8	287.7	6,819.5	0.00	0.00	0.00
12,100.0	90.00	179.14	6,200.6	-1,560.00	-6,913.8	289.2	6,919.5	0.00	0.00	0.00
12,200.0	90.00	179.14	6,200.6	-1,560.00	-7,013.8	290.6	7,019.5	0.00	0.00	0.00
12,300.0	90.00	179.14	6,200.6	-1,560.00	-7,113.8	292.1	7,119.5	0.00	0.00	0.00
12,400.0	90.00	179.14	6,200.6	-1,560.00	-7,213.8	293.6	7,219.5	0.00	0.00	0.00
12,500.0	90.00	179.14	6,200.6	-1,560.00	-7,313.8	295.1	7,319.4	0.00	0.00	0.00
12,600.0	90.00	179.14	6,200.6	-1,560.00	-7,413.7	296.6	7,419.4	0.00	0.00	0.00
12,700.0	90.00	179.14	6,200.6	-1,560.00	-7,513.7	298.1	7,519.4	0.00	0.00	0.00
12,800.0	90.00	179.14	6,200.6	-1,560.00	-7,613.7	299.6	7,619.4	0.00	0.00	0.00
12,900.0	90.00	179.14	6,200.6	-1,560.00	-7,713.7	301.1	7,719.4	0.00	0.00	0.00
13,000.0	90.00	179.14	6,200.6	-1,560.00	-7,813.7	302.6	7,819.4	0.00	0.00	0.00
13,100.0	90.00	179.14	6,200.6	-1,560.00	-7,913.7	304.1	7,919.4	0.00	0.00	0.00
13,200.0	90.00	179.14	6,200.6	-1,560.00	-8,013.7	305.6	8,019.3	0.00	0.00	0.00
13,300.0	90.00	179.14	6,200.6	-1,560.00	-8,113.7	307.1	8,119.3	0.00	0.00	0.00
13,400.0	90.00	179.14	6,200.6	-1,560.00	-8,213.7	308.6	8,219.3	0.00	0.00	0.00
13,500.0	90.00	179.14	6,200.6	-1,560.00	-8,313.6	310.1	8,319.3	0.00	0.00	0.00
13,600.0	90.00	179.14	6,200.6	-1,560.00	-8,413.6	311.6	8,419.3	0.00	0.00	0.00
13,700.0	90.00	179.14	6,200.6	-1,560.00	-8,513.6	313.1	8,519.3	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-11-14XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4640.6usft (Original Well Elev)
<b>Site:</b>	SW SW SEC. 2 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-11-14XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	90.00	179.14	6,200.6	-1,560.00	-8,613.6	314.6	8,619.3	0.00	0.00	0.00
13,900.0	90.00	179.14	6,200.6	-1,560.00	-8,713.6	316.1	8,719.2	0.00	0.00	0.00
14,000.0	90.00	179.14	6,200.6	-1,560.00	-8,813.6	317.5	8,819.2	0.00	0.00	0.00
14,100.0	90.00	179.14	6,200.6	-1,560.00	-8,913.6	319.0	8,919.2	0.00	0.00	0.00
14,200.0	90.00	179.14	6,200.6	-1,560.00	-9,013.6	320.5	9,019.2	0.00	0.00	0.00
14,300.0	90.00	179.14	6,200.6	-1,560.00	-9,113.6	322.0	9,119.2	0.00	0.00	0.00
14,400.0	90.00	179.14	6,200.6	-1,560.00	-9,213.5	323.5	9,219.2	0.00	0.00	0.00
14,500.0	90.00	179.14	6,200.6	-1,560.00	-9,313.5	325.0	9,319.2	0.00	0.00	0.00
14,600.0	90.00	179.14	6,200.6	-1,560.00	-9,413.5	326.5	9,419.1	0.00	0.00	0.00
14,700.0	90.00	179.14	6,200.6	-1,560.00	-9,513.5	328.0	9,519.1	0.00	0.00	0.00
14,800.0	90.00	179.14	6,200.6	-1,560.00	-9,613.5	329.5	9,619.1	0.00	0.00	0.00
14,900.0	90.00	179.14	6,200.6	-1,560.00	-9,713.5	331.0	9,719.1	0.00	0.00	0.00
15,000.0	90.00	179.14	6,200.6	-1,560.00	-9,813.5	332.5	9,819.1	0.00	0.00	0.00
15,100.0	90.00	179.14	6,200.6	-1,560.00	-9,913.5	334.0	9,919.1	0.00	0.00	0.00
15,200.0	90.00	179.14	6,200.6	-1,560.00	-10,013.5	335.5	10,019.1	0.00	0.00	0.00
15,300.0	90.00	179.14	6,200.6	-1,560.00	-10,113.4	337.0	10,119.0	0.00	0.00	0.00
15,400.0	90.00	179.14	6,200.6	-1,560.00	-10,213.4	338.5	10,219.0	0.00	0.00	0.00
15,500.0	90.00	179.14	6,200.6	-1,560.00	-10,313.4	340.0	10,319.0	0.00	0.00	0.00
15,600.0	90.00	179.14	6,200.6	-1,560.00	-10,413.4	341.5	10,419.0	0.00	0.00	0.00
15,700.0	90.00	179.14	6,200.6	-1,560.00	-10,513.4	342.9	10,519.0	0.00	0.00	0.00
15,800.0	90.00	179.14	6,200.6	-1,560.00	-10,613.4	344.4	10,619.0	0.00	0.00	0.00
15,900.0	90.00	179.14	6,200.6	-1,560.00	-10,713.4	345.9	10,719.0	0.00	0.00	0.00
16,000.0	90.00	179.14	6,200.6	-1,560.00	-10,813.4	347.4	10,818.9	0.00	0.00	0.00
16,100.0	90.00	179.14	6,200.6	-1,560.00	-10,913.4	348.9	10,918.9	0.00	0.00	0.00
16,200.0	90.00	179.14	6,200.6	-1,560.00	-11,013.3	350.4	11,018.9	0.00	0.00	0.00
<b>BHL: 470ft FSL &amp; 1057ft FWL of Sec 14</b>										
<b>16,203.0</b>	<b>90.00</b>	<b>179.14</b>	<b>6,200.6</b>	<b>-1,560.00</b>	<b>-11,016.3</b>	<b>350.5</b>	<b>11,021.9</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

## Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 798ft FSL & 811ft FWL of Sec 2
1,550.0	1,550.0	0.0	0.0	SURFACE CASING
1,850.0	1,850.0	0.0	0.0	START NUDGE (2°/100ft BUR)
2,720.2	2,706.9	-124.0	42.7	EOB TO 17.4° INC
4,674.4	4,571.6	-676.7	232.9	END OF TANGENT
5,544.6	5,428.5	-800.7	275.6	EOD TO VERTICAL
5,574.6	5,458.5	-800.7	275.6	KOP (8°/100ft BUR)
6,512.1	6,150.3	-1,331.5	275.8	START OF TANGENT
6,612.1	6,176.2	-1,428.1	275.8	END OF TANGENT
6,799.6	6,200.6	-1,613.5	275.9	HZ LP *NEW*: 827.8ft FNL & 1085ft FWL of Sec 11
11,321.1	6,200.6	-6,135.0	277.7	MID-LAT TGT: 0ft FNL & 1081ft FWL of Sec 14
11,348.8	6,200.6	-6,162.7	277.9	EOT TO 179.14° AZ
16,203.0	6,200.6	-11,016.3	350.5	BHL: 470ft FSL & 1057ft FWL of Sec 14