

# **BONANZA CREEK ENERGY INC.**

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

**SE SW SEC. 20 T5N R62W 6th P.M.**

**STATE ANTELOPE F11-29-32XRLNB**

**ORIGINAL WELLBORE**

**05 October, 2016**

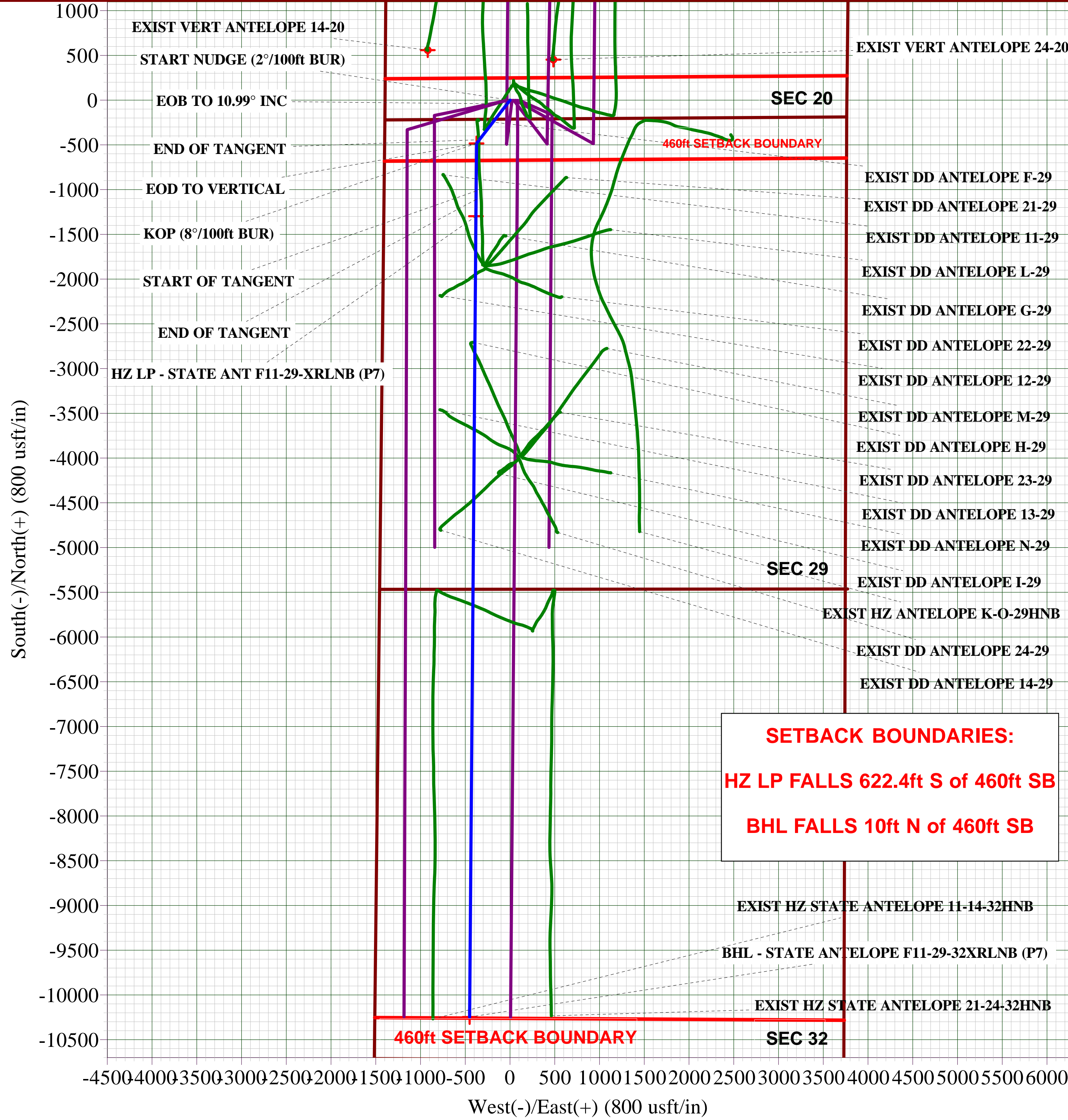
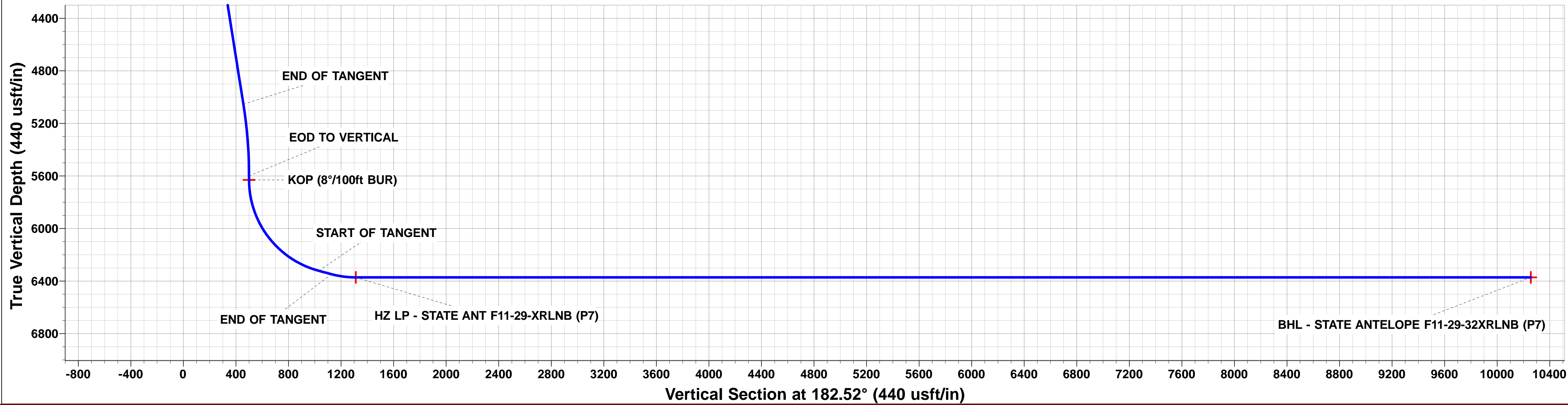
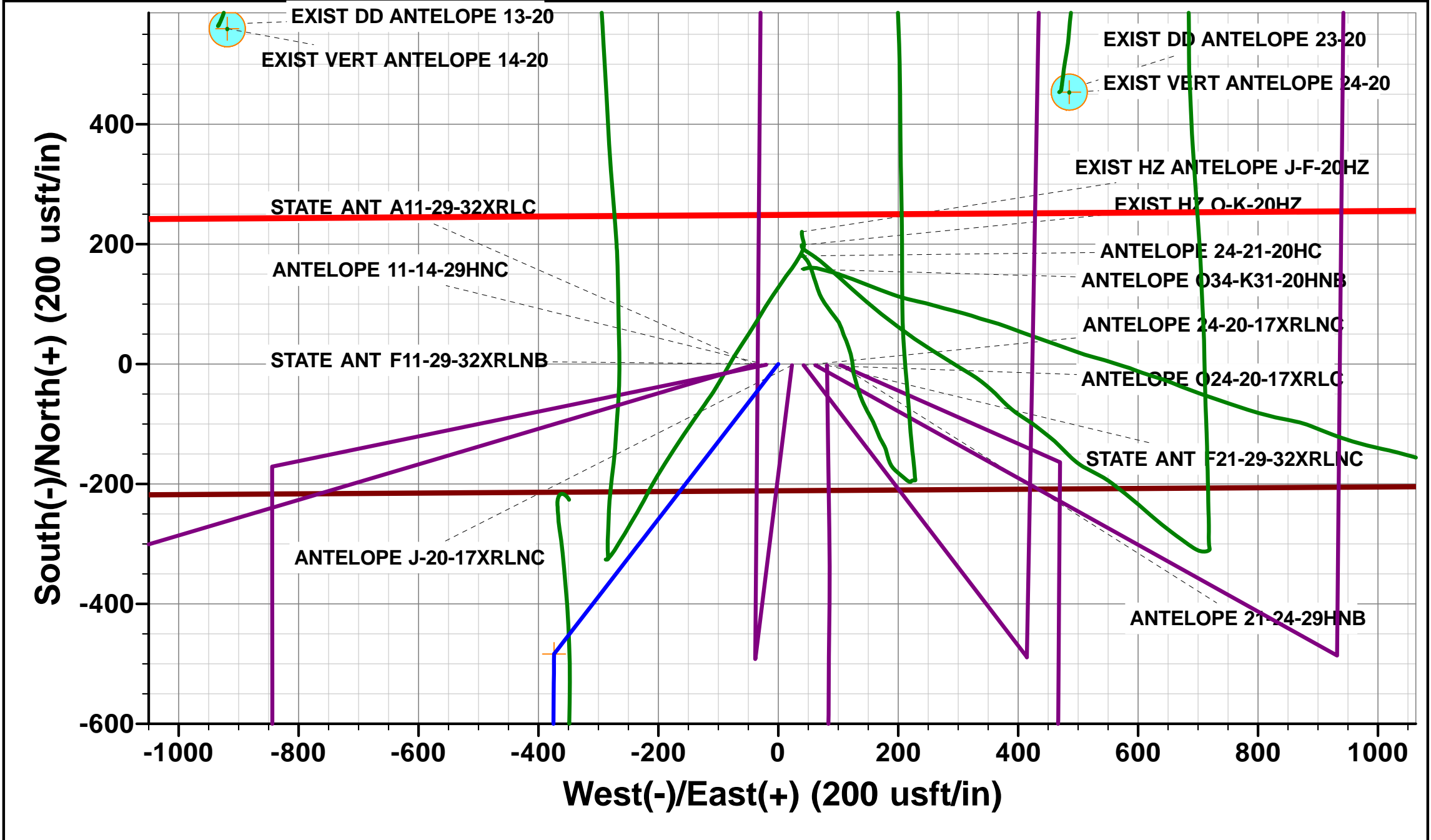
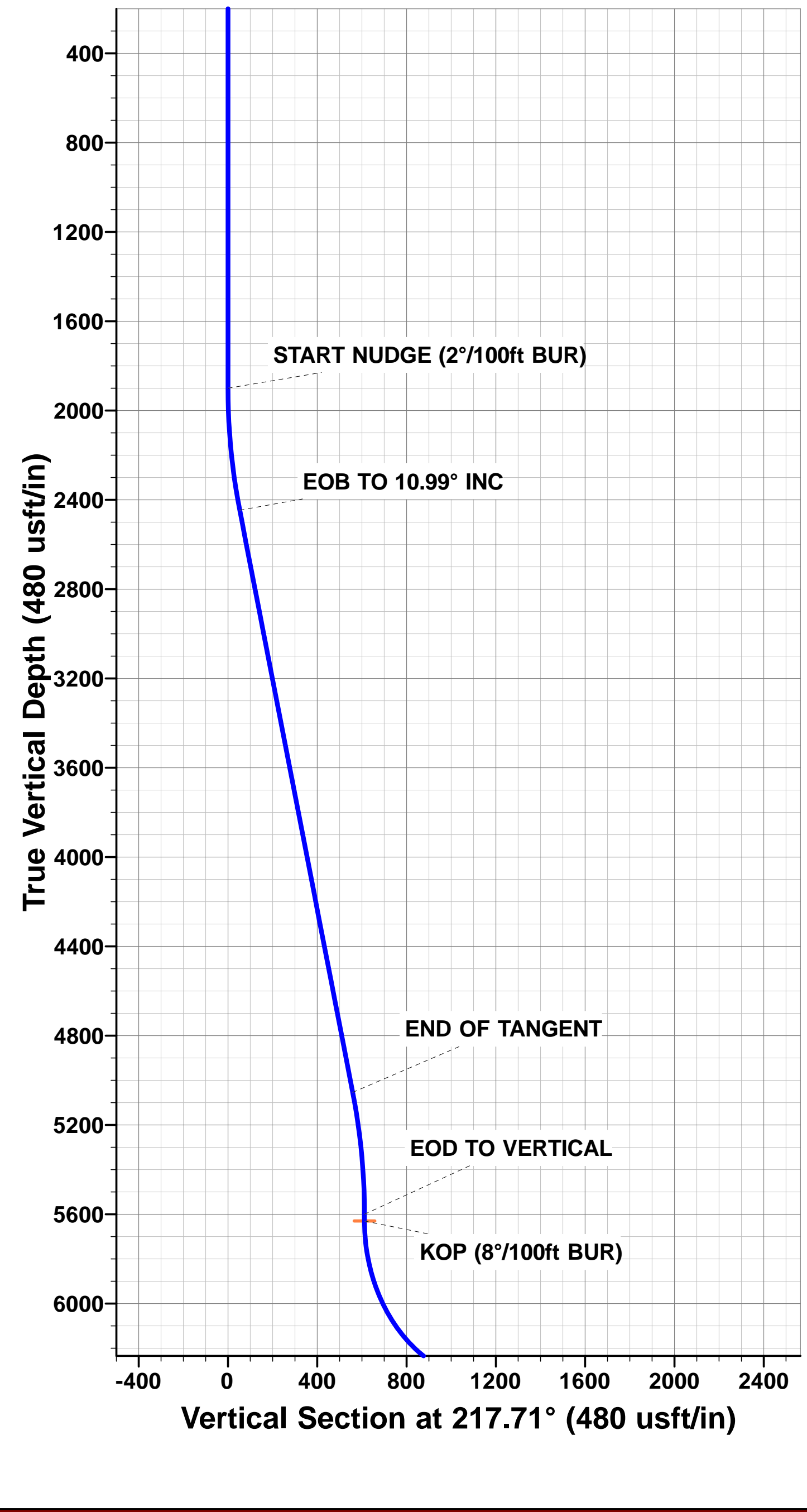
**Plan: PROPOSAL #7**





Project: WELD COUNTY, COLORADO (NAD 83)  
Site: SE SW SEC. 20 T5N R62W 6th P.M.  
Well: STATE ANTELOPE F11-29-32XRLNB  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #7

ANNOTATIONS										PROPOSED LOCAL COORDINATES:  SHL: 210ft FSL & 1398ft FWL Sec 20  HZ LP: 1082.4ft FNL & 1023ft FWL Sec 29  BHL: 470ft FSL & 1060ft FWL Sec 32
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation		
1900.0	1900.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)		
2446.0	2449.4	10.99	217.71	-41.5	-32.1	42.9	52.5	EOB TO 10.99° INC		
5053.8	5105.8	10.99	217.71	-442.1	-341.8	456.7	558.8	END OF TANGENT		
5599.8	5655.2	0.00	0.00	-483.6	-373.9	499.6	611.3	EOD TO VERTICAL		
5629.8	5685.2	0.00	0.00	-483.6	-373.9	499.6	611.3	KOP (8°/100ft BUR)		
6321.6	6622.7	75.00	180.45	-1014.4	-378.1	1030.1	1142.2	START OF TANGENT		
6347.5	6722.7	75.00	180.45	-1111.0	-378.9	1126.6	1238.8	END OF TANGENT		
6371.9	6910.2	90.00	180.45	-1296.4	-380.3	1311.9	1424.1	HZ LP - STATE ANT F11-29-XRLNB (P7)		
6371.9	15860.3	90.00	180.45	-10246.2	-451.0	10256.1	10374.2	BHL - STATE ANT F11-29-32XRLNB (P7)		
WELLBORE TARGET DETAILS (LAT/LONG)										
Name						TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - STATE ANTELOPE F11-29-32XRLNB (P7)						5629.8	-483.6	-373.9	40.377097	-104.353034
BHL - STATE ANTELOPE F11-29-32XRLNB (P7)						6371.9	-10246.2	-451.0	40.350300	-104.353310
HZ LP - STATE ANTELOPE F11-29-32XRLNB (P7)						6371.9	-1296.4	-380.3	40.374866	-104.353057



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-29-32XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 20 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-29-32XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #7		

<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>	SE SW SEC. 20 T5N R62W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,382,952.91 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,319,945.73 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft
		<b>Latitude:</b>	40.378920
		<b>Longitude:</b>	-104.351550
		<b>Grid Convergence:</b>	0.74 °

<b>Well</b>	STATE ANTELOPE F11-29-32XRLNB		
<b>Well Position</b>	<b>+N/-S</b>	-180.3 usft	<b>Northing:</b>
	<b>+E/-W</b>	-39.6 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	21/07/2016	8.08	66.92	52,529

<b>Design</b>	PROPOSAL #7			
<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>
	0.0	0.0	0.0	182.52

<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	-4,681.9	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	-2,781.9	0.0	0.0	0.00	0.00	0.00	0.00	
2,449.4	10.99	217.71	2,446.0	-2,235.9	-41.5	-32.1	2.00	2.00	0.00	217.71	
5,105.8	10.99	217.71	5,053.8	371.9	-442.1	-341.8	0.00	0.00	0.00	0.00	
5,655.2	0.00	0.00	5,599.8	917.9	-483.6	-373.9	2.00	-2.00	0.00	180.00	
5,685.2	0.00	0.00	5,629.8	947.9	-483.6	-373.9	0.00	0.00	0.00	0.00	KOP - STATE ANTI
6,622.7	75.00	180.45	6,321.6	1,639.7	-1,014.4	-378.1	8.00	8.00	0.00	180.45	
6,722.7	75.00	180.45	6,347.5	1,665.6	-1,111.0	-378.9	0.00	0.00	0.00	0.00	
6,910.2	90.00	180.45	6,371.9	1,690.0	-1,296.4	-380.3	8.00	8.00	0.00	0.00	
15,860.3	90.00	180.45	6,371.9	1,690.0	-10,246.2	-451.0	0.00	0.00	0.00	93.36	BHL - STATE ANTI

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<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 20 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-29-32XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #7		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	4,681.90	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,581.90	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,481.90	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,381.90	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,281.90	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,181.90	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,081.90	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,981.90	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,881.90	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,781.90	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,681.90	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,581.90	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,481.90	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,381.90	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,281.90	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,181.90	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	3,081.90	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	2,981.90	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	2,881.90	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
<b>1,900.0</b>	<b>0.00</b>	<b>0.00</b>	<b>1,900.0</b>	<b>2,781.90</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
2,000.0	2.00	217.71	2,000.0	2,681.92	-1.4	-1.1	1.4	2.00	2.00	0.00
2,100.0	4.00	217.71	2,099.8	2,582.06	-5.5	-4.3	5.7	2.00	2.00	0.00
2,200.0	6.00	217.71	2,199.5	2,482.45	-12.4	-9.6	12.8	2.00	2.00	0.00
2,300.0	8.00	217.71	2,298.7	2,383.20	-22.1	-17.1	22.8	2.00	2.00	0.00
2,400.0	10.00	217.71	2,397.5	2,284.43	-34.4	-26.6	35.6	2.00	2.00	0.00
<b>EOB TO 10.99° INC</b>										
<b>2,449.4</b>	<b>10.99</b>	<b>217.71</b>	<b>2,446.0</b>	<b>2,235.89</b>	<b>-41.5</b>	<b>-32.1</b>	<b>42.9</b>	<b>2.00</b>	<b>2.00</b>	<b>0.00</b>
2,500.0	10.99	217.71	2,495.7	2,186.19	-49.2	-38.0	50.8	0.00	0.00	0.00
2,600.0	10.99	217.71	2,593.9	2,088.02	-64.3	-49.7	66.4	0.00	0.00	0.00
2,700.0	10.99	217.71	2,692.0	1,989.86	-79.3	-61.3	82.0	0.00	0.00	0.00
2,800.0	10.99	217.71	2,790.2	1,891.69	-94.4	-73.0	97.5	0.00	0.00	0.00
2,900.0	10.99	217.71	2,888.4	1,793.52	-109.5	-84.7	113.1	0.00	0.00	0.00
3,000.0	10.99	217.71	2,986.5	1,695.35	-124.6	-96.3	128.7	0.00	0.00	0.00
3,100.0	10.99	217.71	3,084.7	1,597.19	-139.6	-108.0	144.3	0.00	0.00	0.00
3,200.0	10.99	217.71	3,182.9	1,499.02	-154.7	-119.6	159.8	0.00	0.00	0.00
3,300.0	10.99	217.71	3,281.0	1,400.85	-169.8	-131.3	175.4	0.00	0.00	0.00
3,400.0	10.99	217.71	3,379.2	1,302.69	-184.9	-143.0	191.0	0.00	0.00	0.00
3,500.0	10.99	217.71	3,477.4	1,204.52	-200.0	-154.6	206.6	0.00	0.00	0.00
3,600.0	10.99	217.71	3,575.5	1,106.35	-215.0	-166.3	222.1	0.00	0.00	0.00
3,700.0	10.99	217.71	3,673.7	1,008.19	-230.1	-177.9	237.7	0.00	0.00	0.00
3,800.0	10.99	217.71	3,771.9	910.02	-245.2	-189.6	253.3	0.00	0.00	0.00
3,900.0	10.99	217.71	3,870.0	811.85	-260.3	-201.2	268.9	0.00	0.00	0.00
4,000.0	10.99	217.71	3,968.2	713.69	-275.3	-212.9	284.4	0.00	0.00	0.00
4,100.0	10.99	217.71	4,066.4	615.52	-290.4	-224.6	300.0	0.00	0.00	0.00
4,200.0	10.99	217.71	4,164.5	517.35	-305.5	-236.2	315.6	0.00	0.00	0.00
4,300.0	10.99	217.71	4,262.7	419.18	-320.6	-247.9	331.2	0.00	0.00	0.00
4,400.0	10.99	217.71	4,360.9	321.02	-335.7	-259.5	346.7	0.00	0.00	0.00
4,500.0	10.99	217.71	4,459.0	222.85	-350.7	-271.2	362.3	0.00	0.00	0.00
4,600.0	10.99	217.71	4,557.2	124.68	-365.8	-282.9	377.9	0.00	0.00	0.00
4,700.0	10.99	217.71	4,655.4	26.52	-380.9	-294.5	393.5	0.00	0.00	0.00
4,800.0	10.99	217.71	4,753.5	-71.65	-396.0	-306.2	409.0	0.00	0.00	0.00
4,900.0	10.99	217.71	4,851.7	-169.82	-411.0	-317.8	424.6	0.00	0.00	0.00
5,000.0	10.99	217.71	4,949.9	-267.98	-426.1	-329.5	440.2	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-29-32XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 20 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-29-32XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #7		

## Planned Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	10.99	217.71	5,048.1	-366.15	-441.2	-341.1	455.8	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>5,105.8</b>	<b>10.99</b>	<b>217.71</b>	<b>5,053.8</b>	<b>-371.89</b>	<b>-442.1</b>	<b>-341.8</b>	<b>456.7</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,200.0	9.10	217.71	5,146.5	-464.60	-455.1	-351.9	470.1	2.00	-2.00	0.00
5,300.0	7.10	217.71	5,245.5	-563.59	-466.2	-360.5	481.6	2.00	-2.00	0.00
5,400.0	5.10	217.71	5,344.9	-663.02	-474.6	-367.0	490.3	2.00	-2.00	0.00
5,500.0	3.10	217.71	5,444.7	-762.76	-480.3	-371.4	496.2	2.00	-2.00	0.00
5,600.0	1.10	217.71	5,544.6	-862.69	-483.2	-373.6	499.2	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
<b>5,655.2</b>	<b>0.00</b>	<b>0.00</b>	<b>5,599.8</b>	<b>-917.90</b>	<b>-483.6</b>	<b>-373.9</b>	<b>499.6</b>	<b>2.00</b>	<b>-2.00</b>	<b>257.69</b>
<b>KOP (8°/100ft BUR)</b>										
<b>5,685.2</b>	<b>0.00</b>	<b>0.00</b>	<b>5,629.8</b>	<b>-947.90</b>	<b>-483.6</b>	<b>-373.9</b>	<b>499.6</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,700.0	1.18	180.45	5,644.6	-962.68	-483.8	-373.9	499.8	8.00	8.00	0.00
5,800.0	9.18	180.45	5,744.1	-1,062.19	-492.8	-374.0	508.8	8.00	8.00	0.00
5,900.0	17.18	180.45	5,841.4	-1,159.48	-515.6	-374.2	531.5	8.00	8.00	0.00
6,000.0	25.18	180.45	5,934.5	-1,252.65	-551.7	-374.5	567.6	8.00	8.00	0.00
6,100.0	33.18	180.45	6,021.8	-1,339.88	-600.4	-374.9	616.3	8.00	8.00	0.00
6,200.0	41.18	180.45	6,101.4	-1,419.49	-660.8	-375.3	676.7	8.00	8.00	0.00
6,300.0	49.18	180.45	6,171.8	-1,489.92	-731.7	-375.9	747.5	8.00	8.00	0.00
6,400.0	57.18	180.45	6,231.7	-1,549.79	-811.7	-376.5	827.4	8.00	8.00	0.00
6,500.0	65.18	180.45	6,279.9	-1,597.96	-899.2	-377.2	914.9	8.00	8.00	0.00
6,600.0	73.18	180.45	6,315.4	-1,633.47	-992.6	-377.9	1,008.3	8.00	8.00	0.00
<b>START OF TANGENT</b>										
<b>6,622.7</b>	<b>75.00</b>	<b>180.45</b>	<b>6,321.6</b>	<b>-1,639.69</b>	<b>-1,014.4</b>	<b>-378.1</b>	<b>1,030.1</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
6,700.0	75.00	180.45	6,341.6	-1,659.70	-1,089.1	-378.7	1,104.7	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>6,722.7</b>	<b>75.00</b>	<b>180.45</b>	<b>6,347.5</b>	<b>-1,665.58</b>	<b>-1,111.0</b>	<b>-378.9</b>	<b>1,126.6</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,800.0	81.18	180.45	6,363.4	-1,681.52	-1,186.6	-379.5	1,202.1	8.00	8.00	0.00
6,900.0	89.18	180.45	6,371.8	-1,689.91	-1,286.2	-380.3	1,301.7	8.00	8.00	0.00
<b>HZ LP - STATE ANT F11-29-XRLNB (P7)</b>										
<b>6,910.2</b>	<b>90.00</b>	<b>180.45</b>	<b>6,371.9</b>	<b>-1,689.98</b>	<b>-1,296.4</b>	<b>-380.3</b>	<b>1,311.9</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
7,000.0	90.00	180.45	6,371.9	-1,689.98	-1,386.2	-381.0	1,401.6	0.00	0.00	0.00
7,100.0	90.00	180.45	6,371.9	-1,689.98	-1,486.2	-381.8	1,501.5	0.00	0.00	0.00
7,200.0	90.00	180.45	6,371.9	-1,689.98	-1,586.2	-382.6	1,601.5	0.00	0.00	0.00
7,300.0	90.00	180.45	6,371.9	-1,689.98	-1,686.2	-383.4	1,701.4	0.00	0.00	0.00
7,400.0	90.00	180.45	6,371.9	-1,689.98	-1,786.2	-384.2	1,801.3	0.00	0.00	0.00
7,500.0	90.00	180.45	6,371.9	-1,689.98	-1,886.2	-385.0	1,901.3	0.00	0.00	0.00
7,600.0	90.00	180.45	6,371.9	-1,689.98	-1,986.2	-385.8	2,001.2	0.00	0.00	0.00
7,700.0	90.00	180.45	6,371.9	-1,689.98	-2,086.1	-386.5	2,101.1	0.00	0.00	0.00
7,800.0	90.00	180.45	6,371.9	-1,689.98	-2,186.1	-387.3	2,201.1	0.00	0.00	0.00
7,900.0	90.00	180.45	6,371.9	-1,689.98	-2,286.1	-388.1	2,301.0	0.00	0.00	0.00
8,000.0	90.00	180.45	6,371.9	-1,689.98	-2,386.1	-388.9	2,400.9	0.00	0.00	0.00
8,100.0	90.00	180.45	6,371.9	-1,689.98	-2,486.1	-389.7	2,500.9	0.00	0.00	0.00
8,200.0	90.00	180.45	6,371.9	-1,689.98	-2,586.1	-390.5	2,600.8	0.00	0.00	0.00
8,300.0	90.00	180.45	6,371.9	-1,689.98	-2,686.1	-391.3	2,700.7	0.00	0.00	0.00
8,400.0	90.00	180.45	6,371.9	-1,689.98	-2,786.1	-392.0	2,800.7	0.00	0.00	0.00
8,500.0	90.00	180.45	6,371.9	-1,689.98	-2,886.1	-392.8	2,900.6	0.00	0.00	0.00
8,600.0	90.00	180.45	6,371.9	-1,689.98	-2,986.1	-393.6	3,000.5	0.00	0.00	0.00
8,700.0	90.00	180.45	6,371.9	-1,689.98	-3,086.1	-394.4	3,100.5	0.00	0.00	0.00
8,800.0	90.00	180.45	6,371.9	-1,689.98	-3,186.1	-395.2	3,200.4	0.00	0.00	0.00
8,900.0	90.00	180.45	6,371.9	-1,689.98	-3,286.1	-396.0	3,300.3	0.00	0.00	0.00
9,000.0	90.00	180.45	6,371.9	-1,689.98	-3,386.1	-396.8	3,400.3	0.00	0.00	0.00
9,100.0	90.00	180.45	6,371.9	-1,689.98	-3,486.1	-397.6	3,500.2	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-29-32XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 20 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-29-32XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #7		

Planned Survey										
MD (usft)	Inc (°)	Azi (°)	TVD (usft)	SS (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.0	90.00	180.45	6,371.9	-1,689.98	-3,586.1	-398.3	3,600.1	0.00	0.00	0.00
9,300.0	90.00	180.45	6,371.9	-1,689.98	-3,686.1	-399.1	3,700.1	0.00	0.00	0.00
9,400.0	90.00	180.45	6,371.9	-1,689.98	-3,786.1	-399.9	3,800.0	0.00	0.00	0.00
9,500.0	90.00	180.45	6,371.9	-1,689.98	-3,886.1	-400.7	3,900.0	0.00	0.00	0.00
9,600.0	90.00	180.45	6,371.9	-1,689.98	-3,986.1	-401.5	3,999.9	0.00	0.00	0.00
9,700.0	90.00	180.45	6,371.9	-1,689.98	-4,086.1	-402.3	4,099.8	0.00	0.00	0.00
9,800.0	90.00	180.45	6,371.9	-1,689.98	-4,186.1	-403.1	4,199.8	0.00	0.00	0.00
9,900.0	90.00	180.45	6,371.9	-1,689.98	-4,286.1	-403.9	4,299.7	0.00	0.00	0.00
10,000.0	90.00	180.45	6,371.9	-1,689.98	-4,386.1	-404.6	4,399.6	0.00	0.00	0.00
10,100.0	90.00	180.45	6,371.9	-1,689.98	-4,486.1	-405.4	4,499.6	0.00	0.00	0.00
10,200.0	90.00	180.45	6,371.9	-1,689.98	-4,586.1	-406.2	4,599.5	0.00	0.00	0.00
10,300.0	90.00	180.45	6,371.9	-1,689.98	-4,686.1	-407.0	4,699.4	0.00	0.00	0.00
10,400.0	90.00	180.45	6,371.9	-1,689.98	-4,786.1	-407.8	4,799.4	0.00	0.00	0.00
10,500.0	90.00	180.45	6,371.9	-1,689.98	-4,886.1	-408.6	4,899.3	0.00	0.00	0.00
10,600.0	90.00	180.45	6,371.9	-1,689.98	-4,986.1	-409.4	4,999.2	0.00	0.00	0.00
10,700.0	90.00	180.45	6,371.9	-1,689.98	-5,086.1	-410.2	5,099.2	0.00	0.00	0.00
10,800.0	90.00	180.45	6,371.9	-1,689.98	-5,186.1	-410.9	5,199.1	0.00	0.00	0.00
10,900.0	90.00	180.45	6,371.9	-1,689.98	-5,286.1	-411.7	5,299.0	0.00	0.00	0.00
11,000.0	90.00	180.45	6,371.9	-1,689.98	-5,386.0	-412.5	5,399.0	0.00	0.00	0.00
11,100.0	90.00	180.45	6,371.9	-1,689.98	-5,486.0	-413.3	5,498.9	0.00	0.00	0.00
11,200.0	90.00	180.45	6,371.9	-1,689.98	-5,586.0	-414.1	5,598.8	0.00	0.00	0.00
11,300.0	90.00	180.45	6,371.9	-1,689.98	-5,686.0	-414.9	5,698.8	0.00	0.00	0.00
11,400.0	90.00	180.45	6,371.9	-1,689.98	-5,786.0	-415.7	5,798.7	0.00	0.00	0.00
11,500.0	90.00	180.45	6,371.9	-1,689.98	-5,886.0	-416.5	5,898.7	0.00	0.00	0.00
11,600.0	90.00	180.45	6,371.9	-1,689.98	-5,986.0	-417.3	5,998.6	0.00	0.00	0.00
11,700.0	90.00	180.45	6,371.9	-1,689.99	-6,086.0	-418.1	6,098.5	0.00	0.00	0.00
11,800.0	90.00	180.45	6,371.9	-1,689.99	-6,186.0	-418.8	6,198.5	0.00	0.00	0.00
11,900.0	90.00	180.45	6,371.9	-1,689.99	-6,286.0	-419.6	6,298.4	0.00	0.00	0.00
12,000.0	90.00	180.45	6,371.9	-1,689.99	-6,386.0	-420.4	6,398.3	0.00	0.00	0.00
12,100.0	90.00	180.45	6,371.9	-1,689.99	-6,486.0	-421.2	6,498.3	0.00	0.00	0.00
12,200.0	90.00	180.45	6,371.9	-1,689.99	-6,586.0	-422.0	6,598.2	0.00	0.00	0.00
12,300.0	90.00	180.45	6,371.9	-1,689.99	-6,686.0	-422.8	6,698.1	0.00	0.00	0.00
12,400.0	90.00	180.45	6,371.9	-1,689.99	-6,786.0	-423.6	6,798.1	0.00	0.00	0.00
12,500.0	90.00	180.45	6,371.9	-1,689.99	-6,886.0	-424.4	6,898.0	0.00	0.00	0.00
12,600.0	90.00	180.45	6,371.9	-1,689.99	-6,986.0	-425.2	6,997.9	0.00	0.00	0.00
12,700.0	90.00	180.45	6,371.9	-1,689.99	-7,086.0	-426.0	7,097.9	0.00	0.00	0.00
12,800.0	90.00	180.45	6,371.9	-1,689.99	-7,186.0	-426.7	7,197.8	0.00	0.00	0.00
12,900.0	90.00	180.45	6,371.9	-1,689.99	-7,286.0	-427.5	7,297.7	0.00	0.00	0.00
13,000.0	90.00	180.45	6,371.9	-1,689.99	-7,386.0	-428.3	7,397.7	0.00	0.00	0.00
13,100.0	90.00	180.45	6,371.9	-1,689.99	-7,486.0	-429.1	7,497.6	0.00	0.00	0.00
13,200.0	90.00	180.45	6,371.9	-1,689.99	-7,586.0	-429.9	7,597.5	0.00	0.00	0.00
13,300.0	90.00	180.45	6,371.9	-1,689.99	-7,686.0	-430.7	7,697.5	0.00	0.00	0.00
13,400.0	90.00	180.45	6,371.9	-1,689.99	-7,786.0	-431.5	7,797.4	0.00	0.00	0.00
13,500.0	90.00	180.45	6,371.9	-1,689.99	-7,886.0	-432.3	7,897.3	0.00	0.00	0.00
13,600.0	90.00	180.45	6,371.9	-1,689.99	-7,986.0	-433.1	7,997.3	0.00	0.00	0.00
13,700.0	90.00	180.45	6,371.9	-1,689.99	-8,086.0	-433.9	8,097.2	0.00	0.00	0.00
13,800.0	90.00	180.45	6,371.9	-1,689.99	-8,186.0	-434.7	8,197.2	0.00	0.00	0.00
13,900.0	90.00	180.45	6,371.9	-1,689.99	-8,286.0	-435.4	8,297.1	0.00	0.00	0.00
14,000.0	90.00	180.45	6,371.9	-1,689.99	-8,386.0	-436.2	8,397.0	0.00	0.00	0.00
14,100.0	90.00	180.45	6,371.9	-1,689.99	-8,486.0	-437.0	8,497.0	0.00	0.00	0.00
14,200.0	90.00	180.45	6,371.9	-1,689.99	-8,585.9	-437.8	8,596.9	0.00	0.00	0.00
14,300.0	90.00	180.45	6,371.9	-1,689.99	-8,685.9	-438.6	8,696.8	0.00	0.00	0.00
14,400.0	90.00	180.45	6,371.9	-1,689.99	-8,785.9	-439.4	8,796.8	0.00	0.00	0.00
14,500.0	90.00	180.45	6,371.9	-1,689.99	-8,885.9	-440.2	8,896.7	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE F11-29-32XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4681.9usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 20 T5N R62W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE ANTELOPE F11-29-32XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #7		

## 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)
14,600.0	90.00	180.45	6,371.9	-1,689.99	-8,985.9	-441.0	8,996.6	0.00	0.00	0.00
14,700.0	90.00	180.45	6,371.9	-1,689.99	-9,085.9	-441.8	9,096.6	0.00	0.00	0.00
14,800.0	90.00	180.45	6,371.9	-1,690.00	-9,185.9	-442.6	9,196.5	0.00	0.00	0.00
14,900.0	90.00	180.45	6,371.9	-1,690.00	-9,285.9	-443.4	9,296.4	0.00	0.00	0.00
15,000.0	90.00	180.45	6,371.9	-1,690.00	-9,385.9	-444.2	9,396.4	0.00	0.00	0.00
15,100.0	90.00	180.45	6,371.9	-1,690.00	-9,485.9	-444.9	9,496.3	0.00	0.00	0.00
15,200.0	90.00	180.45	6,371.9	-1,690.00	-9,585.9	-445.7	9,596.2	0.00	0.00	0.00
15,300.0	90.00	180.45	6,371.9	-1,690.00	-9,685.9	-446.5	9,696.2	0.00	0.00	0.00
15,400.0	90.00	180.45	6,371.9	-1,690.00	-9,785.9	-447.3	9,796.1	0.00	0.00	0.00
15,500.0	90.00	180.45	6,371.9	-1,690.00	-9,885.9	-448.1	9,896.0	0.00	0.00	0.00
15,600.0	90.00	180.45	6,371.9	-1,690.00	-9,985.9	-448.9	9,996.0	0.00	0.00	0.00
15,700.0	90.00	180.45	6,371.9	-1,690.00	-10,085.9	-449.7	10,095.9	0.00	0.00	0.00
15,800.0	90.00	180.45	6,371.9	-1,690.00	-10,185.9	-450.5	10,195.9	0.00	0.00	0.00
<b>BHL - STATE ANT F11-29-32XRLNB (P7)</b>										
<b>15,860.3</b>	<b>90.00</b>	<b>180.45</b>	<b>6,371.9</b>	<b>-1,690.00</b>	<b>-10,246.2</b>	<b>-451.0</b>	<b>10,256.1</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)	
1,900.0	1,900.0	0.0	0.0	START NUDGE (2°/100ft BUR)
2,449.4	2,446.0	-41.5	-32.1	EOB TO 10.99° INC
5,105.8	5,053.8	-442.1	-341.8	END OF TANGENT
5,655.2	5,599.8	-483.6	-373.9	EOD TO VERTICAL
5,685.2	5,629.8	-483.6	-373.9	KOP (8°/100ft BUR)
6,622.7	6,321.6	-1,014.4	-378.1	START OF TANGENT
6,722.7	6,347.5	-1,111.0	-378.9	END OF TANGENT
6,910.2	6,371.9	-1,296.4	-380.3	HZ LP - STATE ANT F11-29-XRLNB (P7)
15,860.3	6,371.9	-10,246.2	-451.0	BHL - STATE ANT F11-29-32XRLNB (P7)