

BONANZA CREEK ENERGY INC.

WELD COUNTY, COLORADO (NAD 83)

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

STATE ANTELOPE A11-29-32XRLC

ORIGINAL WELLBORE

05 October, 2016

Plan: PROPOSAL #5





Project: WELD COUNTY, COLORADO (NAD 83)
Site: SE SW SEC. 20 T5N R62W 6th P.M.
Well: STATE ANTELOPE A11-29-32XRLC
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #5

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
1700.0	1700.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)	
2715.7	2738.3	20.77	253.49	-52.9	-178.4	72.4	186.1	EOB TO 20.77° INC	
4784.2	4950.5	20.77	253.49	-275.8	-930.4	377.5	970.5	END OF TANGENT	
5799.9	5988.8	0.00	0.00	-328.7	-1108.9	449.9	1156.6	EOD TO VERTICAL	
5829.9	6018.8	0.00	0.00	-328.7	-1108.9	449.9	1156.6	KOP (8°/100ft BUR)	
6521.7	6956.3	75.00	180.20	-859.6	-1110.7	977.6	1687.4	START OF TANGENT	
6547.6	7056.3	75.00	180.20	-956.2	-1111.1	1073.7	1784.0	END OF TANGENT	
6572.0	7243.8	90.00	180.20	-1141.5	-1111.7	1257.9	1969.4	HZ LP - STATE ANT A11-29-32XRLC	
6572.0	16343.7	90.00	180.22	-10241.4	-1144.7	10305.2	11069.3	BHL - STATE ANT A11-29-32XRLC	

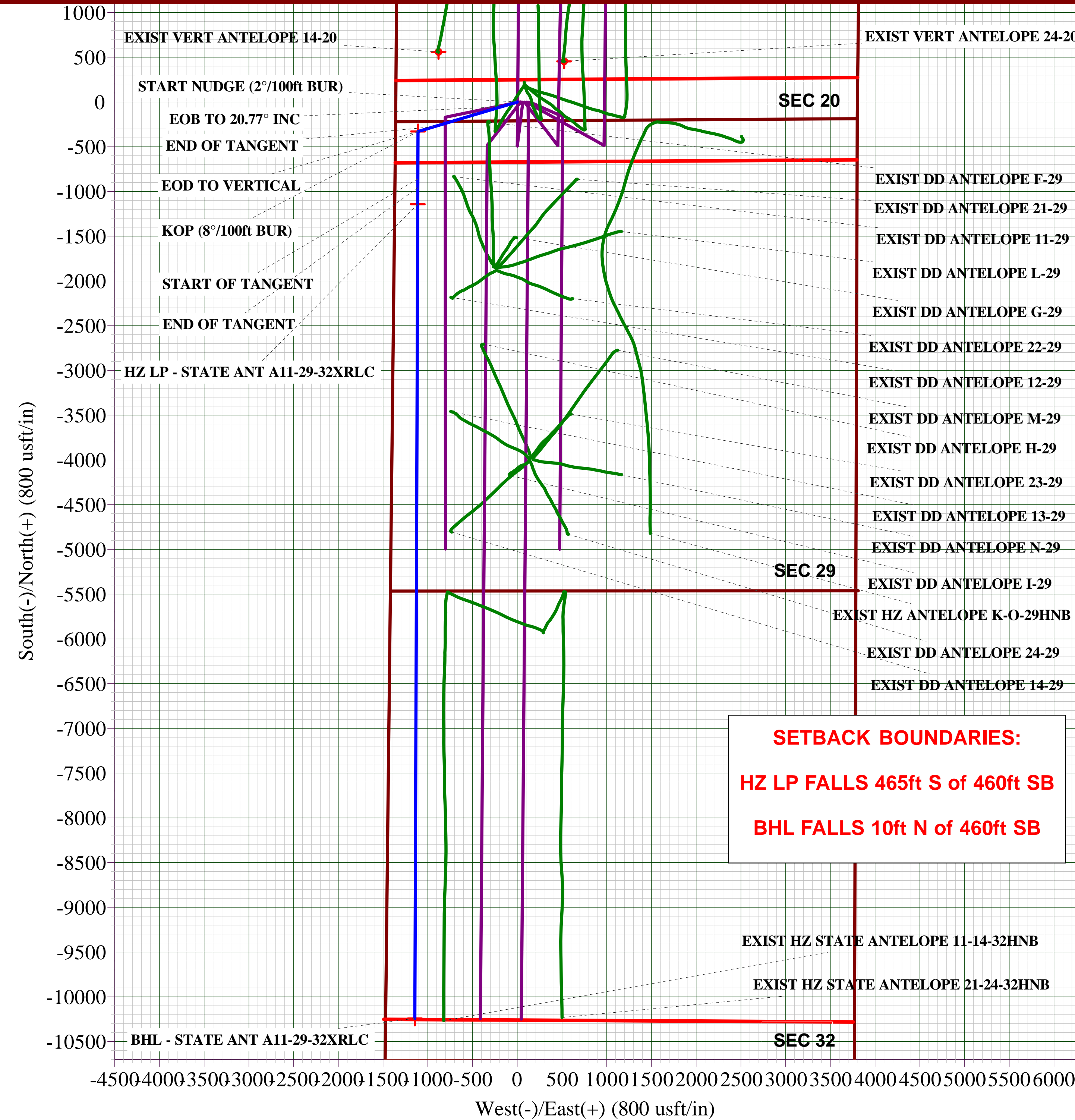
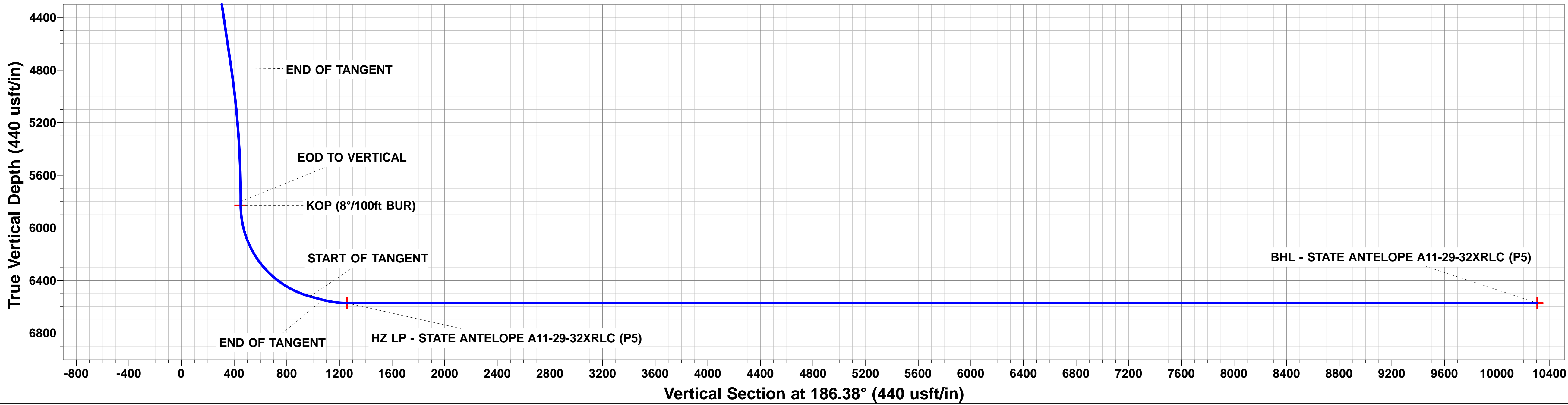
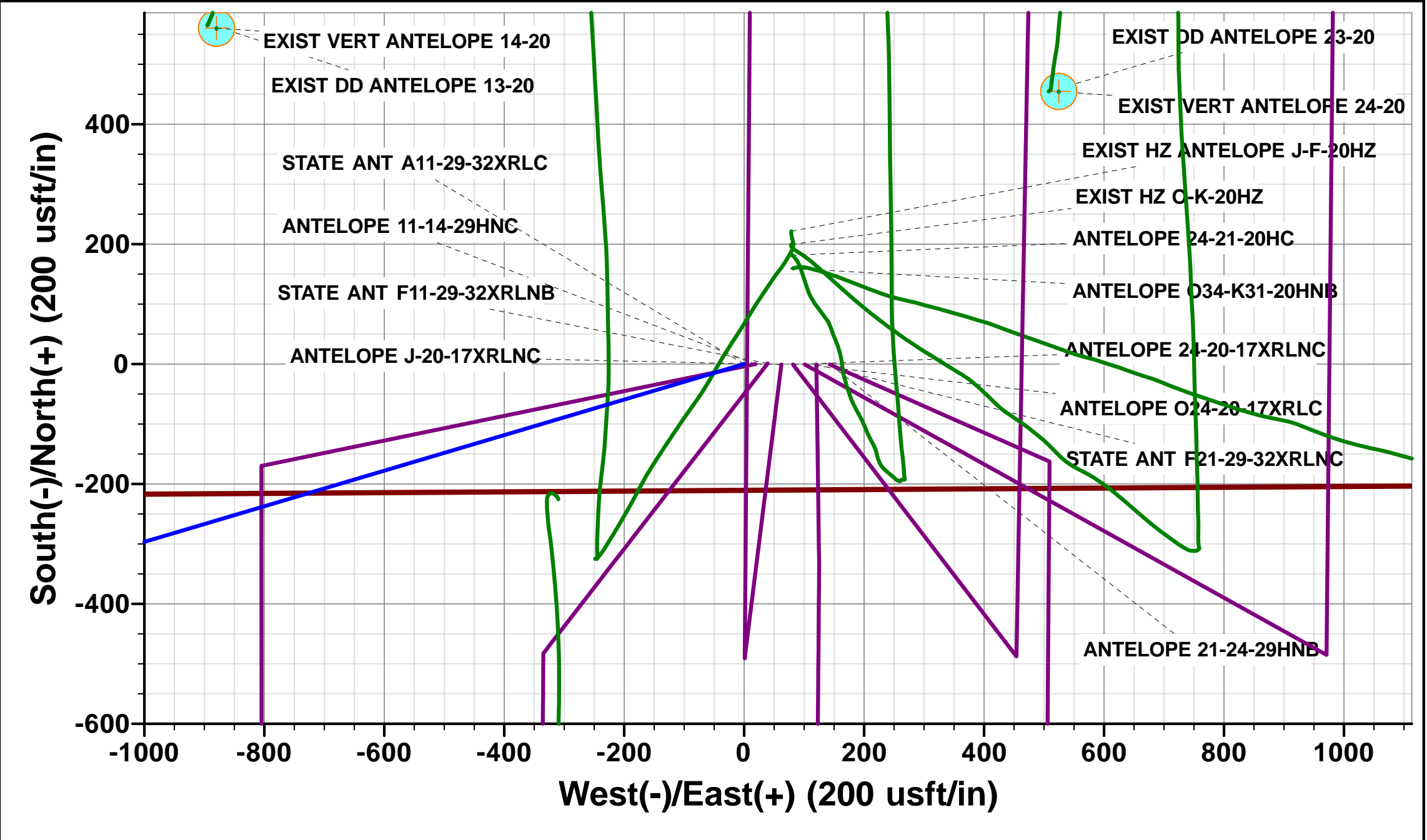
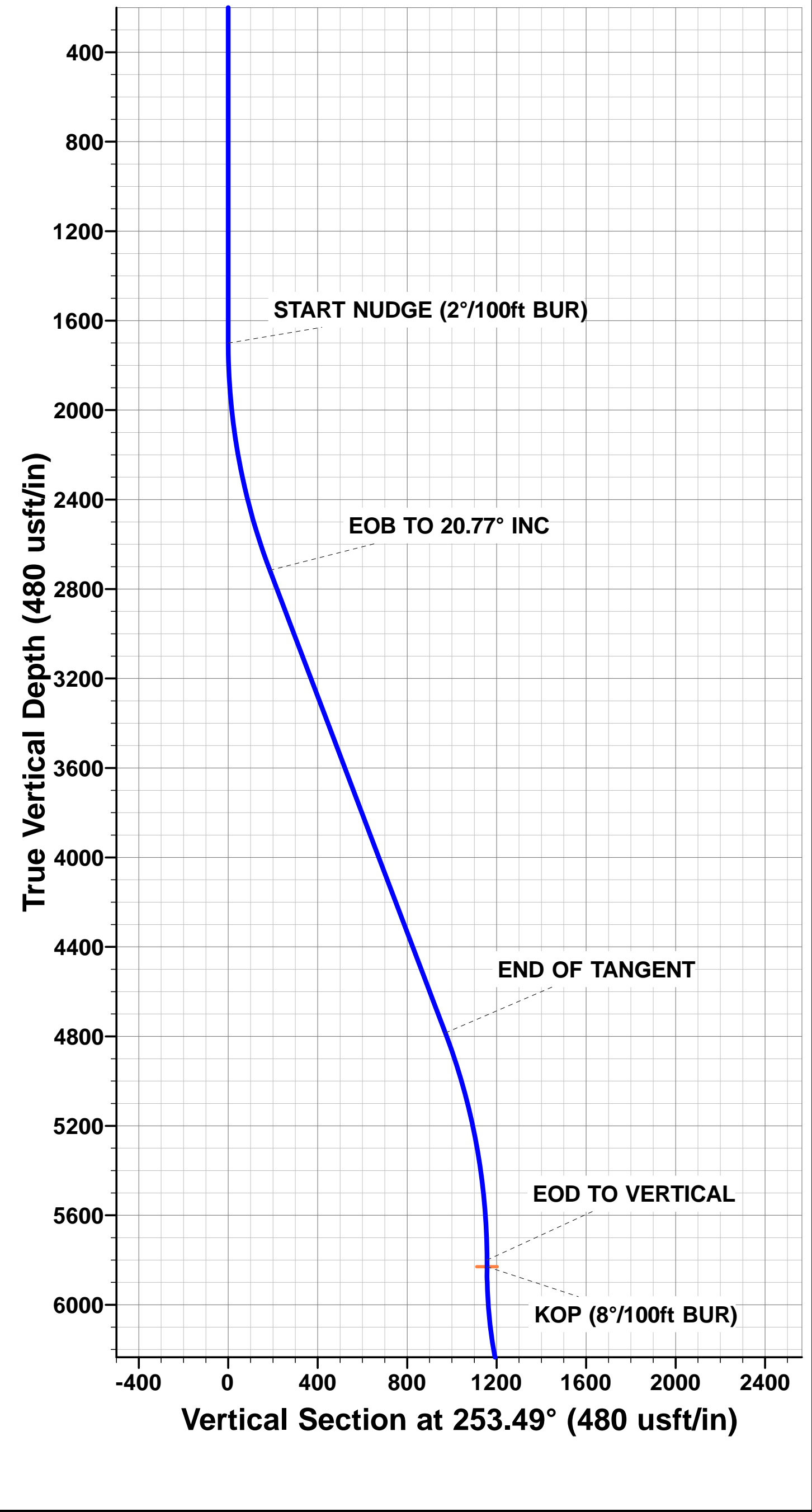
PROPOSED LOCAL COORDINATES:

SHL: 210ft FSL & 1358ft FWL Sec 20

HZ LP: 925ft FNL & 252ft FWL Sec 29

BHL: 470ft FSL & 325ft FWL Sec 32

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - STATE ANTELOPE A11-29-32XRLC (P5)	5829.9	-328.7	-1108.9	40.377520	-104.355813
BHL - STATE ANTELOPE A11-29-32XRLC (P5)	6572.0	-10241.4	-1144.7	40.350310	-104.355940
HZ LP - STATE ANTELOPE A11-29-32XRLC (P5)	6572.0	-1141.5	-1111.7	40.375288	-104.355823



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well STATE ANTELOPE A11-29-32XRLC
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Site:	SE SW SEC. 20 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE A11-29-32XRLC	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #5		

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

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

Well	STATE ANTELOPE A11-29-32XRLC		
Well Position	+N/-S	-181.4 usft	Northing:
	+E/-W	-78.8 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	21/07/2016	8.08	66.92	52,529

Design	PROPOSAL #5			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	186.38

Plan Sections											
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	-4,682.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	-2,982.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,738.3	20.77	253.49	2,715.7	-1,966.3	-52.9	-178.4	2.00	2.00	0.00	253.49	
4,950.5	20.77	253.49	4,784.2	102.2	-275.8	-930.4	0.00	0.00	0.00	0.00	
5,988.8	0.00	0.00	5,799.9	1,117.9	-328.7	-1,108.9	2.00	-2.00	0.00	180.00	
6,018.8	0.00	0.00	5,829.9	1,147.9	-328.7	-1,108.9	0.00	0.00	0.00	0.00	KOP - STATE ANTI
6,956.3	75.00	180.20	6,521.7	1,839.7	-859.6	-1,110.7	8.00	8.00	0.00	180.20	
7,056.3	75.00	180.20	6,547.6	1,865.6	-956.2	-1,111.1	0.00	0.00	0.00	0.00	
7,243.8	90.00	180.20	6,572.0	1,890.0	-1,141.5	-1,111.7	8.00	8.00	0.00	0.00	
16,343.7	90.00	180.22	6,572.0	1,890.0	-10,241.4	-1,144.7	0.00	0.00	0.00	90.95	BHL - STATE ANTI

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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Site:	SE SW SEC. 20 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE A11-29-32XRLC	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #5		

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	4,682.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,582.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,482.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,382.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,282.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,182.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,082.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,982.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,882.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,782.00	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,682.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,582.00	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,482.00	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,382.00	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,282.00	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,182.00	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	3,082.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
1,700.0	0.00	0.00	1,700.0	2,982.00	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	2.00	253.49	1,800.0	2,882.02	-0.5	-1.7	0.7	2.00	2.00	0.00
1,900.0	4.00	253.49	1,899.8	2,782.16	-2.0	-6.7	2.7	2.00	2.00	0.00
2,000.0	6.00	253.49	1,999.5	2,682.55	-4.5	-15.0	6.1	2.00	2.00	0.00
2,100.0	8.00	253.49	2,098.7	2,583.30	-7.9	-26.7	10.8	2.00	2.00	0.00
2,200.0	10.00	253.49	2,197.5	2,484.53	-12.4	-41.7	16.9	2.00	2.00	0.00
2,300.0	12.00	253.49	2,295.6	2,386.38	-17.8	-60.0	24.4	2.00	2.00	0.00
2,400.0	14.00	253.49	2,393.1	2,288.94	-24.2	-81.6	33.1	2.00	2.00	0.00
2,500.0	16.00	253.49	2,489.6	2,192.36	-31.5	-106.4	43.2	2.00	2.00	0.00
2,600.0	18.00	253.49	2,585.3	2,096.73	-39.9	-134.4	54.5	2.00	2.00	0.00
2,700.0	20.00	253.49	2,679.8	2,002.18	-49.1	-165.6	67.2	2.00	2.00	0.00
EOB TO 20.77° INC										
2,738.3	20.77	253.49	2,715.7	1,966.26	-52.9	-178.4	72.4	2.00	2.00	0.00
2,800.0	20.77	253.49	2,773.4	1,908.59	-59.1	-199.4	80.9	0.00	0.00	0.00
2,900.0	20.77	253.49	2,866.9	1,815.09	-69.2	-233.4	94.7	0.00	0.00	0.00
3,000.0	20.77	253.49	2,960.4	1,721.58	-79.3	-267.4	108.5	0.00	0.00	0.00
3,100.0	20.77	253.49	3,053.9	1,628.08	-89.3	-301.4	122.3	0.00	0.00	0.00
3,200.0	20.77	253.49	3,147.4	1,534.58	-99.4	-335.4	136.1	0.00	0.00	0.00
3,300.0	20.77	253.49	3,240.9	1,441.07	-109.5	-369.4	149.9	0.00	0.00	0.00
3,400.0	20.77	253.49	3,334.4	1,347.57	-119.6	-403.4	163.6	0.00	0.00	0.00
3,500.0	20.77	253.49	3,427.9	1,254.07	-129.7	-437.4	177.4	0.00	0.00	0.00
3,600.0	20.77	253.49	3,521.4	1,160.56	-139.7	-471.4	191.2	0.00	0.00	0.00
3,700.0	20.77	253.49	3,614.9	1,067.06	-149.8	-505.3	205.0	0.00	0.00	0.00
3,800.0	20.77	253.49	3,708.4	973.56	-159.9	-539.3	218.8	0.00	0.00	0.00
3,900.0	20.77	253.49	3,801.9	880.05	-170.0	-573.3	232.6	0.00	0.00	0.00
4,000.0	20.77	253.49	3,895.4	786.55	-180.0	-607.3	246.4	0.00	0.00	0.00
4,100.0	20.77	253.49	3,989.0	693.05	-190.1	-641.3	260.2	0.00	0.00	0.00
4,200.0	20.77	253.49	4,082.5	599.54	-200.2	-675.3	274.0	0.00	0.00	0.00
4,300.0	20.77	253.49	4,176.0	506.04	-210.3	-709.3	287.8	0.00	0.00	0.00
4,400.0	20.77	253.49	4,269.5	412.54	-220.4	-743.3	301.6	0.00	0.00	0.00
4,500.0	20.77	253.49	4,363.0	319.03	-230.4	-777.3	315.4	0.00	0.00	0.00
4,600.0	20.77	253.49	4,456.5	225.53	-240.5	-811.3	329.1	0.00	0.00	0.00
4,700.0	20.77	253.49	4,550.0	132.03	-250.6	-845.3	342.9	0.00	0.00	0.00
4,800.0	20.77	253.49	4,643.5	38.53	-260.7	-879.3	356.7	0.00	0.00	0.00
4,900.0	20.77	253.49	4,737.0	-54.98	-270.7	-913.3	370.5	0.00	0.00	0.00

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Well:	STATE ANTELOPE A11-29-32XRLC	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #5		

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)
END OF TANGENT										
4,950.5	20.77	253.49	4,784.2	-102.16	-275.8	-930.4	377.5	0.00	0.00	0.00
5,000.0	19.78	253.49	4,830.6	-148.63	-280.7	-946.9	384.2	2.00	-2.00	0.00
5,100.0	17.78	253.49	4,925.3	-243.30	-289.9	-977.7	396.7	2.00	-2.00	0.00
5,200.0	15.78	253.49	5,021.0	-339.04	-298.1	-1,005.4	407.9	2.00	-2.00	0.00
5,300.0	13.78	253.49	5,117.7	-435.73	-305.3	-1,029.9	417.8	2.00	-2.00	0.00
5,400.0	11.78	253.49	5,215.3	-533.25	-311.6	-1,051.1	426.4	2.00	-2.00	0.00
5,500.0	9.78	253.49	5,313.5	-631.48	-316.9	-1,069.0	433.7	2.00	-2.00	0.00
5,600.0	7.78	253.49	5,412.3	-730.31	-321.2	-1,083.6	439.6	2.00	-2.00	0.00
5,700.0	5.78	253.49	5,511.6	-829.60	-324.6	-1,094.9	444.2	2.00	-2.00	0.00
5,800.0	3.78	253.49	5,611.3	-929.25	-327.0	-1,102.9	447.5	2.00	-2.00	0.00
5,900.0	1.78	253.49	5,711.1	-1,029.13	-328.3	-1,107.5	449.3	2.00	-2.00	0.00
EOD TO VERTICAL										
5,988.8	0.00	0.00	5,799.9	-1,117.90	-328.7	-1,108.9	449.9	2.00	-2.00	119.97
6,000.0	0.00	0.00	5,811.1	-1,129.12	-328.7	-1,108.9	449.9	0.00	0.00	0.00
KOP (8°/100ft BUR)										
6,018.8	0.00	0.00	5,829.9	-1,147.90	-328.7	-1,108.9	449.9	0.00	0.00	0.00
6,100.0	6.50	180.20	5,910.9	-1,228.94	-333.3	-1,108.9	454.4	8.00	8.00	0.00
6,200.0	14.50	180.20	6,009.2	-1,327.19	-351.5	-1,108.9	472.5	8.00	8.00	0.00
6,300.0	22.50	180.20	6,103.9	-1,421.95	-383.2	-1,109.1	504.1	8.00	8.00	0.00
6,400.0	30.50	180.20	6,193.4	-1,511.37	-427.8	-1,109.2	548.4	8.00	8.00	0.00
6,500.0	38.50	180.20	6,275.7	-1,593.72	-484.4	-1,109.4	604.6	8.00	8.00	0.00
6,600.0	46.50	180.20	6,349.4	-1,667.39	-551.9	-1,109.6	671.8	8.00	8.00	0.00
6,700.0	54.50	180.20	6,412.9	-1,730.95	-629.0	-1,109.9	748.4	8.00	8.00	0.00
6,800.0	62.50	180.20	6,465.2	-1,783.16	-714.2	-1,110.2	833.1	8.00	8.00	0.00
6,900.0	70.50	180.20	6,505.0	-1,823.01	-805.8	-1,110.5	924.2	8.00	8.00	0.00
START OF TANGENT										
6,956.3	75.00	180.20	6,521.7	-1,839.69	-859.6	-1,110.7	977.6	8.00	8.00	0.00
7,000.0	75.00	180.20	6,533.0	-1,851.01	-901.8	-1,110.9	1,019.6	0.00	0.00	0.00
END OF TANGENT										
7,056.3	75.00	180.20	6,547.6	-1,865.58	-956.2	-1,111.1	1,073.7	0.00	0.00	0.00
7,100.0	78.50	180.20	6,557.6	-1,875.59	-998.7	-1,111.2	1,116.0	8.00	8.00	0.00
7,200.0	86.50	180.20	6,570.6	-1,888.64	-1,097.8	-1,111.6	1,214.4	8.00	8.00	0.00
HZ LP - STATE ANT A11-29-32XRLC										
7,243.8	90.00	180.20	6,572.0	-1,889.98	-1,141.5	-1,111.7	1,257.9	8.00	8.00	0.00
7,300.0	90.00	180.20	6,572.0	-1,889.98	-1,197.7	-1,111.9	1,313.8	0.00	0.00	0.00
7,400.0	90.00	180.20	6,572.0	-1,889.98	-1,297.7	-1,112.2	1,413.3	0.00	0.00	0.00
7,500.0	90.00	180.20	6,572.0	-1,889.98	-1,397.7	-1,112.6	1,512.7	0.00	0.00	0.00
7,600.0	90.00	180.20	6,572.0	-1,889.98	-1,497.7	-1,112.9	1,612.1	0.00	0.00	0.00
7,700.0	90.00	180.20	6,572.0	-1,889.98	-1,597.7	-1,113.3	1,711.5	0.00	0.00	0.00
7,800.0	90.00	180.20	6,572.0	-1,889.98	-1,697.7	-1,113.6	1,810.9	0.00	0.00	0.00
7,900.0	90.00	180.20	6,572.0	-1,889.98	-1,797.7	-1,114.0	1,910.3	0.00	0.00	0.00
8,000.0	90.00	180.20	6,572.0	-1,889.98	-1,897.7	-1,114.4	2,009.8	0.00	0.00	0.00
8,100.0	90.00	180.20	6,572.0	-1,889.98	-1,997.7	-1,114.7	2,109.2	0.00	0.00	0.00
8,200.0	90.00	180.20	6,572.0	-1,889.98	-2,097.7	-1,115.1	2,208.6	0.00	0.00	0.00
8,300.0	90.00	180.20	6,572.0	-1,889.98	-2,197.7	-1,115.4	2,308.0	0.00	0.00	0.00
8,400.0	90.00	180.20	6,572.0	-1,889.98	-2,297.7	-1,115.8	2,407.4	0.00	0.00	0.00
8,500.0	90.00	180.20	6,572.0	-1,889.98	-2,397.7	-1,116.1	2,506.9	0.00	0.00	0.00
8,600.0	90.00	180.20	6,572.0	-1,889.98	-2,497.7	-1,116.5	2,606.3	0.00	0.00	0.00
8,700.0	90.00	180.20	6,572.0	-1,889.98	-2,597.7	-1,116.8	2,705.7	0.00	0.00	0.00
8,800.0	90.00	180.20	6,572.0	-1,889.98	-2,697.7	-1,117.2	2,805.1	0.00	0.00	0.00
8,900.0	90.00	180.20	6,572.0	-1,889.98	-2,797.7	-1,117.5	2,904.5	0.00	0.00	0.00
9,000.0	90.00	180.20	6,572.0	-1,889.98	-2,897.7	-1,117.9	3,004.0	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well STATE ANTELOPE A11-29-32XRLC
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Site:	SE SW SEC. 20 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE A11-29-32XRLC	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #5		

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)
9,100.0	90.00	180.20	6,572.0	-1,889.98	-2,997.7	-1,118.2	3,103.4	0.00	0.00	0.00
9,200.0	90.00	180.20	6,572.0	-1,889.98	-3,097.7	-1,118.6	3,202.8	0.00	0.00	0.00
9,300.0	90.00	180.20	6,572.0	-1,889.98	-3,197.7	-1,118.9	3,302.2	0.00	0.00	0.00
9,400.0	90.00	180.20	6,572.0	-1,889.98	-3,297.7	-1,119.3	3,401.6	0.00	0.00	0.00
9,500.0	90.00	180.20	6,572.0	-1,889.98	-3,397.7	-1,119.7	3,501.1	0.00	0.00	0.00
9,600.0	90.00	180.20	6,572.0	-1,889.98	-3,497.7	-1,120.0	3,600.5	0.00	0.00	0.00
9,700.0	90.00	180.20	6,572.0	-1,889.98	-3,597.7	-1,120.4	3,699.9	0.00	0.00	0.00
9,800.0	90.00	180.20	6,572.0	-1,889.98	-3,697.7	-1,120.7	3,799.3	0.00	0.00	0.00
9,900.0	90.00	180.20	6,572.0	-1,889.98	-3,797.7	-1,121.1	3,898.7	0.00	0.00	0.00
10,000.0	90.00	180.20	6,572.0	-1,889.98	-3,897.7	-1,121.4	3,998.2	0.00	0.00	0.00
10,100.0	90.00	180.20	6,572.0	-1,889.98	-3,997.7	-1,121.8	4,097.6	0.00	0.00	0.00
10,200.0	90.00	180.21	6,572.0	-1,889.98	-4,097.7	-1,122.2	4,197.0	0.00	0.00	0.00
10,300.0	90.00	180.21	6,572.0	-1,889.98	-4,197.7	-1,122.5	4,296.4	0.00	0.00	0.00
10,400.0	90.00	180.21	6,572.0	-1,889.98	-4,297.7	-1,122.9	4,395.8	0.00	0.00	0.00
10,500.0	90.00	180.21	6,572.0	-1,889.98	-4,397.7	-1,123.2	4,495.3	0.00	0.00	0.00
10,600.0	90.00	180.21	6,572.0	-1,889.98	-4,497.7	-1,123.6	4,594.7	0.00	0.00	0.00
10,700.0	90.00	180.21	6,572.0	-1,889.98	-4,597.7	-1,123.9	4,694.1	0.00	0.00	0.00
10,800.0	90.00	180.21	6,572.0	-1,889.98	-4,697.7	-1,124.3	4,793.5	0.00	0.00	0.00
10,900.0	90.00	180.21	6,572.0	-1,889.98	-4,797.7	-1,124.7	4,892.9	0.00	0.00	0.00
11,000.0	90.00	180.21	6,572.0	-1,889.98	-4,897.7	-1,125.0	4,992.4	0.00	0.00	0.00
11,100.0	90.00	180.21	6,572.0	-1,889.98	-4,997.7	-1,125.4	5,091.8	0.00	0.00	0.00
11,200.0	90.00	180.21	6,572.0	-1,889.98	-5,097.7	-1,125.8	5,191.2	0.00	0.00	0.00
11,300.0	90.00	180.21	6,572.0	-1,889.98	-5,197.7	-1,126.1	5,290.6	0.00	0.00	0.00
11,400.0	90.00	180.21	6,572.0	-1,889.98	-5,297.7	-1,126.5	5,390.1	0.00	0.00	0.00
11,500.0	90.00	180.21	6,572.0	-1,889.98	-5,397.7	-1,126.8	5,489.5	0.00	0.00	0.00
11,600.0	90.00	180.21	6,572.0	-1,889.98	-5,497.7	-1,127.2	5,588.9	0.00	0.00	0.00
11,700.0	90.00	180.21	6,572.0	-1,889.98	-5,597.7	-1,127.6	5,688.3	0.00	0.00	0.00
11,800.0	90.00	180.21	6,572.0	-1,889.98	-5,697.7	-1,127.9	5,787.7	0.00	0.00	0.00
11,900.0	90.00	180.21	6,572.0	-1,889.98	-5,797.7	-1,128.3	5,887.2	0.00	0.00	0.00
12,000.0	90.00	180.21	6,572.0	-1,889.98	-5,897.7	-1,128.6	5,986.6	0.00	0.00	0.00
12,100.0	90.00	180.21	6,572.0	-1,889.99	-5,997.7	-1,129.0	6,086.0	0.00	0.00	0.00
12,200.0	90.00	180.21	6,572.0	-1,889.99	-6,097.7	-1,129.4	6,185.4	0.00	0.00	0.00
12,300.0	90.00	180.21	6,572.0	-1,889.99	-6,197.7	-1,129.7	6,284.8	0.00	0.00	0.00
12,400.0	90.00	180.21	6,572.0	-1,889.99	-6,297.7	-1,130.1	6,384.3	0.00	0.00	0.00
12,500.0	90.00	180.21	6,572.0	-1,889.99	-6,397.7	-1,130.5	6,483.7	0.00	0.00	0.00
12,600.0	90.00	180.21	6,572.0	-1,889.99	-6,497.7	-1,130.8	6,583.1	0.00	0.00	0.00
12,700.0	90.00	180.21	6,572.0	-1,889.99	-6,597.7	-1,131.2	6,682.5	0.00	0.00	0.00
12,800.0	90.00	180.21	6,572.0	-1,889.99	-6,697.7	-1,131.6	6,781.9	0.00	0.00	0.00
12,900.0	90.00	180.21	6,572.0	-1,889.99	-6,797.7	-1,131.9	6,881.4	0.00	0.00	0.00
13,000.0	90.00	180.21	6,572.0	-1,889.99	-6,897.7	-1,132.3	6,980.8	0.00	0.00	0.00
13,100.0	90.00	180.21	6,572.0	-1,889.99	-6,997.7	-1,132.7	7,080.2	0.00	0.00	0.00
13,200.0	90.00	180.21	6,572.0	-1,889.99	-7,097.7	-1,133.0	7,179.6	0.00	0.00	0.00
13,300.0	90.00	180.21	6,572.0	-1,889.99	-7,197.7	-1,133.4	7,279.0	0.00	0.00	0.00
13,400.0	90.00	180.21	6,572.0	-1,889.99	-7,297.7	-1,133.8	7,378.5	0.00	0.00	0.00
13,500.0	90.00	180.21	6,572.0	-1,889.99	-7,397.7	-1,134.1	7,477.9	0.00	0.00	0.00
13,600.0	90.00	180.21	6,572.0	-1,889.99	-7,497.7	-1,134.5	7,577.3	0.00	0.00	0.00
13,700.0	90.00	180.21	6,572.0	-1,889.99	-7,597.7	-1,134.9	7,676.7	0.00	0.00	0.00
13,800.0	90.00	180.21	6,572.0	-1,889.99	-7,697.7	-1,135.2	7,776.2	0.00	0.00	0.00
13,900.0	90.00	180.21	6,572.0	-1,889.99	-7,797.7	-1,135.6	7,875.6	0.00	0.00	0.00
14,000.0	90.00	180.21	6,572.0	-1,889.99	-7,897.7	-1,136.0	7,975.0	0.00	0.00	0.00
14,100.0	90.00	180.21	6,572.0	-1,889.99	-7,997.7	-1,136.4	8,074.4	0.00	0.00	0.00
14,200.0	90.00	180.21	6,572.0	-1,889.99	-8,097.7	-1,136.7	8,173.8	0.00	0.00	0.00
14,300.0	90.00	180.21	6,572.0	-1,889.99	-8,197.7	-1,137.1	8,273.3	0.00	0.00	0.00
14,400.0	90.00	180.21	6,572.0	-1,889.99	-8,297.7	-1,137.5	8,372.7	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well STATE ANTELOPE A11-29-32XRLC
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4682.0usft (Original Well Elev)
Site:	SE SW SEC. 20 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE A11-29-32XRLC	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #5		

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)
14,500.0	90.00	180.21	6,572.0	-1,889.99	-8,397.7	-1,137.8	8,472.1	0.00	0.00	0.00
14,600.0	90.00	180.21	6,572.0	-1,889.99	-8,497.7	-1,138.2	8,571.5	0.00	0.00	0.00
14,700.0	90.00	180.21	6,572.0	-1,889.99	-8,597.7	-1,138.6	8,671.0	0.00	0.00	0.00
14,800.0	90.00	180.21	6,572.0	-1,889.99	-8,697.7	-1,138.9	8,770.4	0.00	0.00	0.00
14,900.0	90.00	180.21	6,572.0	-1,889.99	-8,797.7	-1,139.3	8,869.8	0.00	0.00	0.00
15,000.0	90.00	180.21	6,572.0	-1,889.99	-8,897.7	-1,139.7	8,969.2	0.00	0.00	0.00
15,100.0	90.00	180.21	6,572.0	-1,889.99	-8,997.7	-1,140.1	9,068.6	0.00	0.00	0.00
15,200.0	90.00	180.21	6,572.0	-1,890.00	-9,097.7	-1,140.4	9,168.1	0.00	0.00	0.00
15,300.0	90.00	180.21	6,572.0	-1,890.00	-9,197.7	-1,140.8	9,267.5	0.00	0.00	0.00
15,400.0	90.00	180.21	6,572.0	-1,890.00	-9,297.7	-1,141.2	9,366.9	0.00	0.00	0.00
15,500.0	90.00	180.21	6,572.0	-1,890.00	-9,397.7	-1,141.6	9,466.3	0.00	0.00	0.00
15,600.0	90.00	180.21	6,572.0	-1,890.00	-9,497.7	-1,141.9	9,565.7	0.00	0.00	0.00
15,700.0	90.00	180.21	6,572.0	-1,890.00	-9,597.7	-1,142.3	9,665.2	0.00	0.00	0.00
15,800.0	90.00	180.21	6,572.0	-1,890.00	-9,697.7	-1,142.7	9,764.6	0.00	0.00	0.00
15,900.0	90.00	180.22	6,572.0	-1,890.00	-9,797.7	-1,143.1	9,864.0	0.00	0.00	0.00
16,000.0	90.00	180.22	6,572.0	-1,890.00	-9,897.7	-1,143.4	9,963.4	0.00	0.00	0.00
16,100.0	90.00	180.22	6,572.0	-1,890.00	-9,997.7	-1,143.8	10,062.9	0.00	0.00	0.00
16,200.0	90.00	180.22	6,572.0	-1,890.00	-10,097.7	-1,144.2	10,162.3	0.00	0.00	0.00
16,300.0	90.00	180.22	6,572.0	-1,890.00	-10,197.7	-1,144.6	10,261.7	0.00	0.00	0.00
BHL - STATE ANT A11-29-32XRLC										
16,343.7	90.00	180.22	6,572.0	-1,890.00	-10,241.4	-1,144.7	10,305.2	0.00	0.00	0.00

Plan Annotations				
MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,700.0	1,700.0	0.0	0.0	START NUDGE (2°/100ft BUR)
2,738.3	2,715.7	-52.9	-178.4	EOB TO 20.77° INC
4,950.5	4,784.2	-275.8	-930.4	END OF TANGENT
5,988.8	5,799.9	-328.7	-1,108.9	EOD TO VERTICAL
6,018.8	5,829.9	-328.7	-1,108.9	KOP (8°/100ft BUR)
6,956.3	6,521.7	-859.6	-1,110.7	START OF TANGENT
7,056.3	6,547.6	-956.2	-1,111.1	END OF TANGENT
7,243.8	6,572.0	-1,141.5	-1,111.7	HZ LP - STATE ANT A11-29-32XRLC
16,343.7	6,572.0	-10,241.4	-1,144.7	BHL - STATE ANT A11-29-32XRLC