

BONANZA CREEK ENERGY INC.

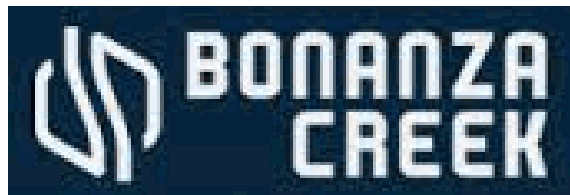
WELD COUNTY, COLORADO (NAD 83)

NW NE SEC. 11 T5N R62W 6th P.M.

**STATE ANTELOPE 21-11-14XRLNB - Slot PROP HZ STATE
ANT 21-11-14XRLNB**

27 August, 2016

Plan: PROPOSAL #1





Project: WELD COUNTY, COLORADO (NAD 83)
Site: NW NE SEC. 11 T5N R62W 6th P.M.
Well: STATE ANTELOPE 21-11-14XRLNB
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

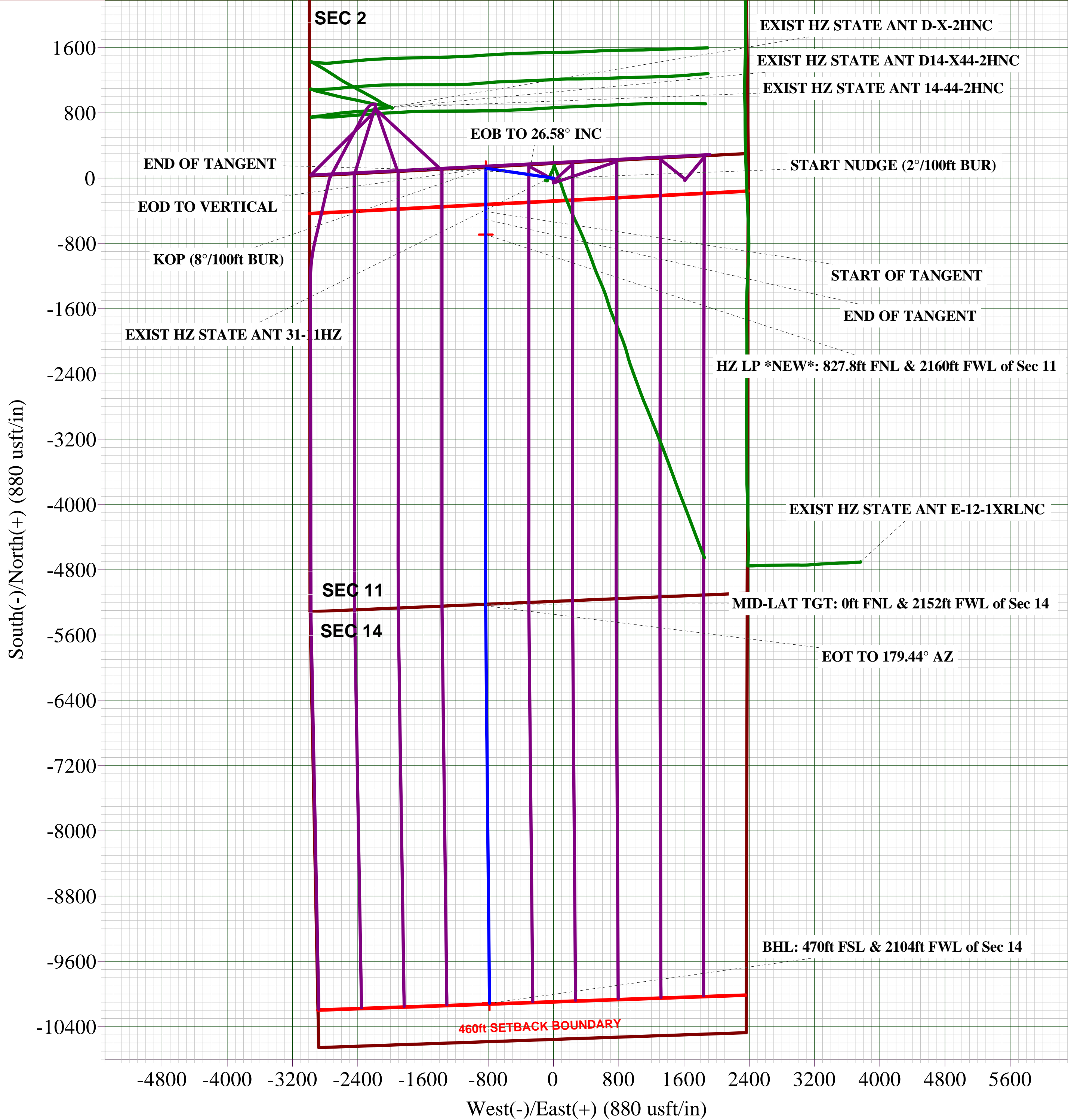
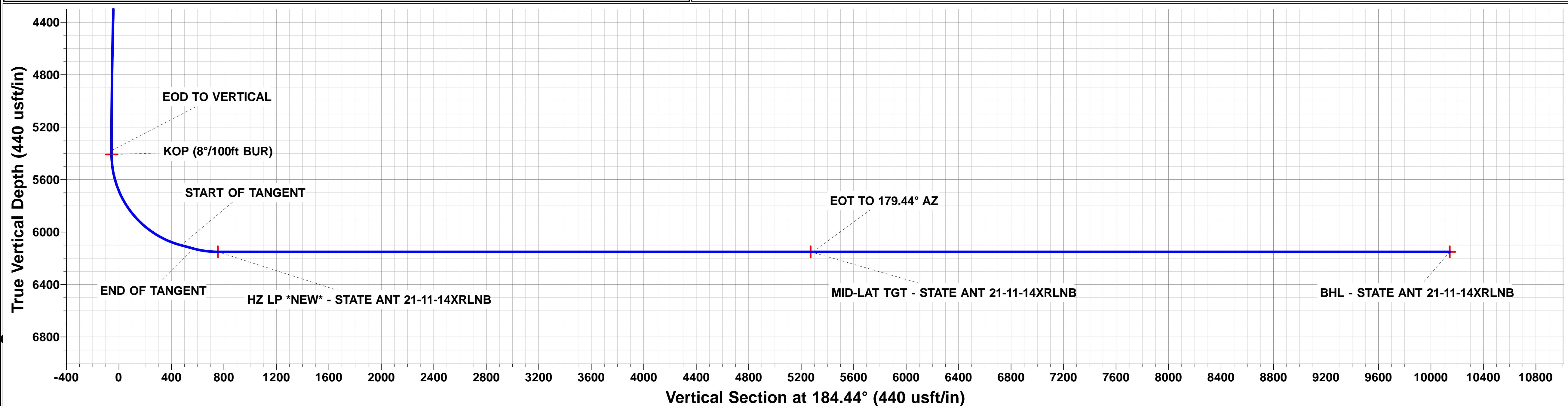
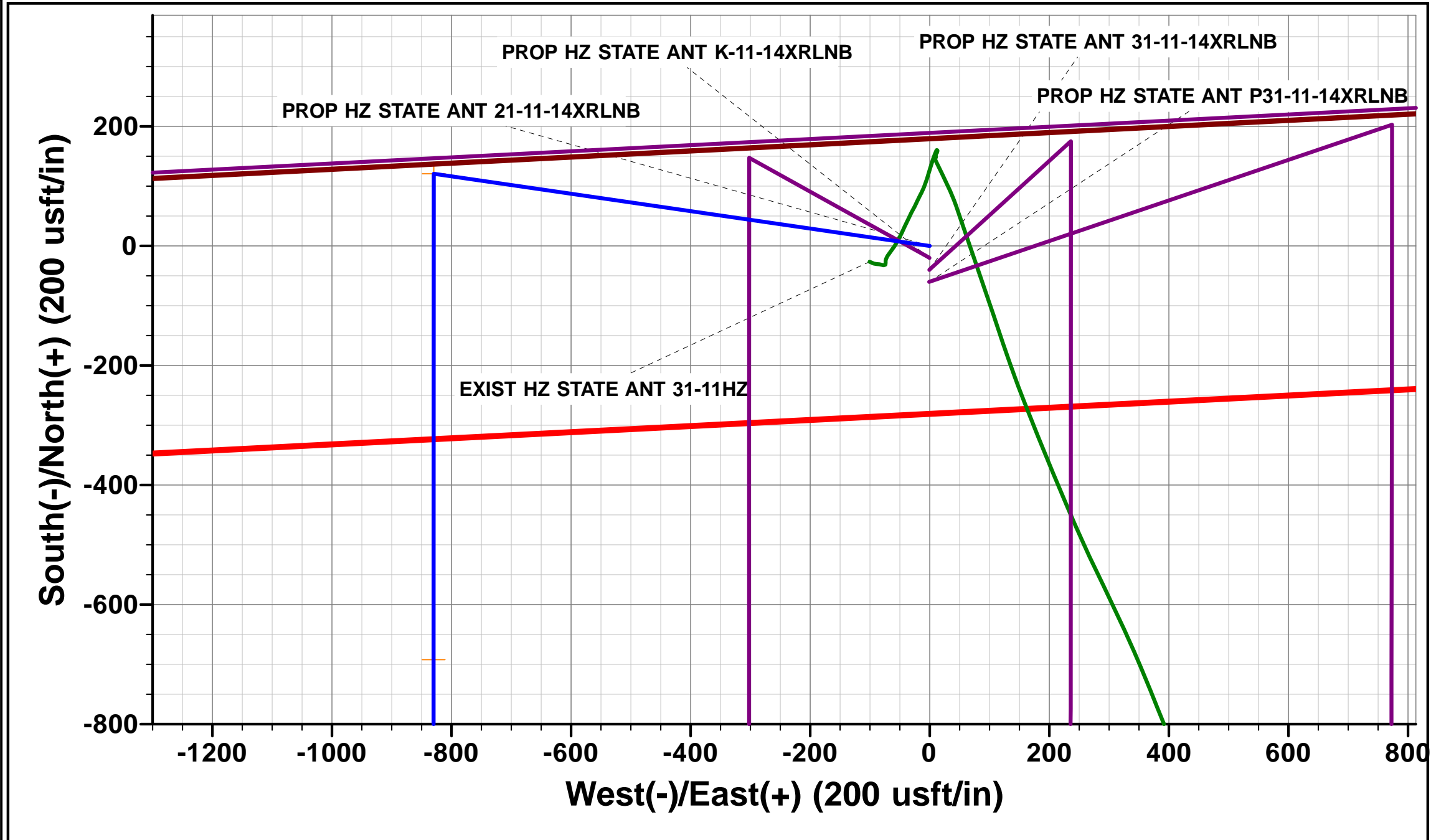
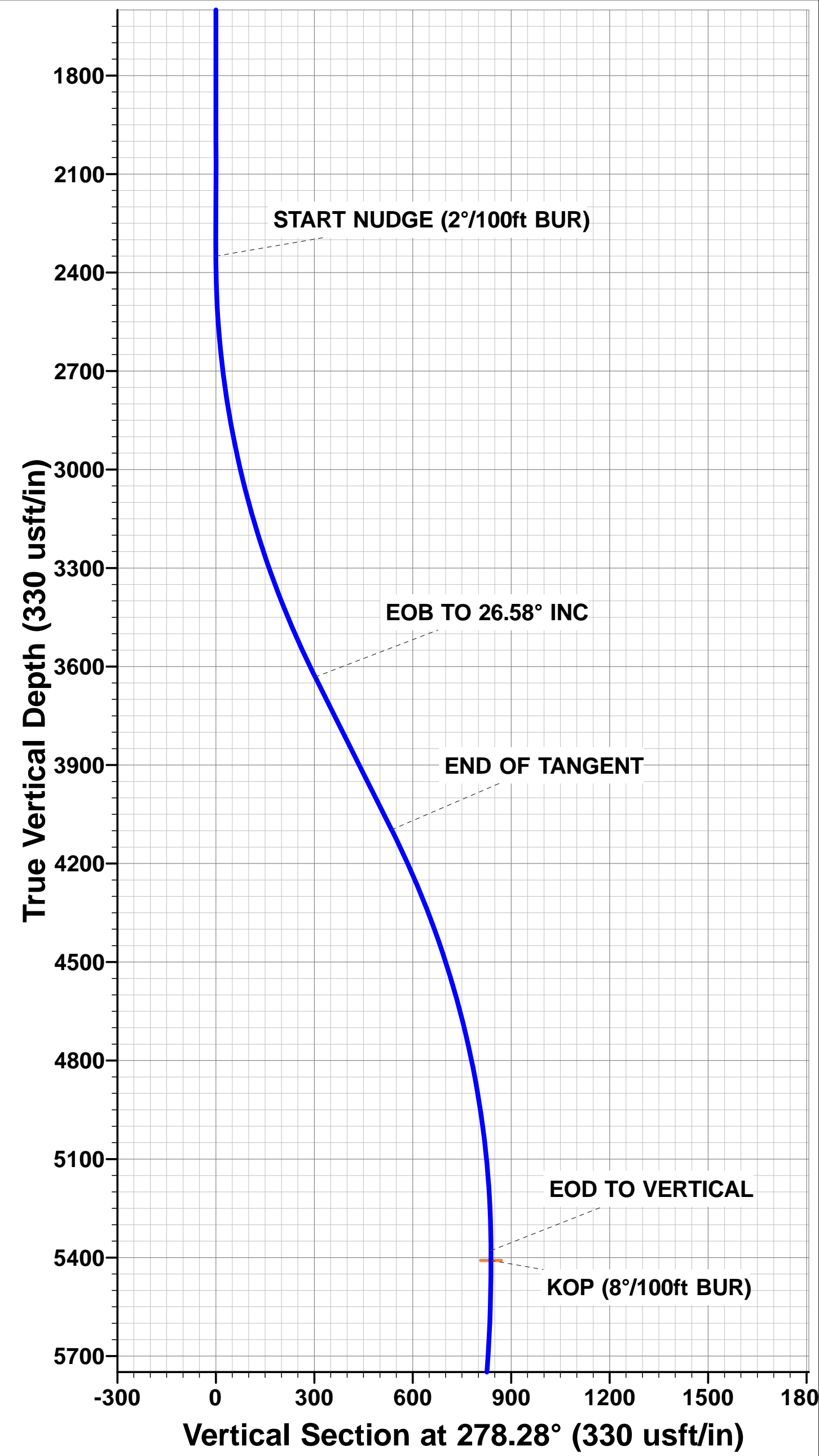
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 178ft FNL & 2387ft FEL of Sec 11
1550.0	1550.0	0.00	0.00	0.0	0.0	0.0	0.0	SURFACE CASING
2350.0	2350.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2"/100ft BUR)
3631.9	3679.1	26.58	278.28	43.6	-299.7	-20.3	302.8	EOB TO 26.58° INC
4096.8	4198.9	26.58	278.28	77.1	-529.8	-35.9	535.4	END OF TANGENT
5378.7	5528.0	0.00	0.00	120.7	-829.5	-56.2	838.2	EOD TO VERTICAL
5408.7	5558.0	0.00	0.00	120.7	-829.5	-56.2	838.2	KOP (8"/100ft BUR)
6100.5	6495.5	75.00	180.03	-410.1	-829.8	473.1	1369.1	START OF TANGENT
6126.4	6595.5	75.00	180.03	-506.7	-829.8	569.4	1465.7	END OF TANGENT
6150.8	6783.0	90.00	180.03	-692.1	-829.9	754.2	1651.0	HZ LP *NEW*: 827.8ft FNL & 2160ft FWL of Sec 11
6150.8	11313.8	90.00	180.03	-5222.9	-832.4	5271.6	6181.8	MID-LAT TGT: 0ft FNL & 2152ft FWL of Sec 14
6150.8	11333.5	90.00	179.44	-5242.6	-832.3	5291.3	6201.5	EOT TO 179.44° AZ
6150.8	16204.4	90.00	179.44	-10113.3	-784.5	10143.7	11072.4	BHL: 470ft FSL & 2104ft FWL of Sec 14

PROPOSED LOCAL COORDINATES:

SHL: 178ft FNL & 2387ft FEL Sec 11
HZ LP: 827.8ft FNL & 2160ft FWL Sec 11
MID-LAT: 0ft FNL & 2152ft FWL Sec 14
BHL: 470ft FSL & 2104ft FWL Sec 14

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - STATE ANT 21-11-14XRLNB	5408.7	120.7	-829.5	40.422220	-104.292257
BHL - STATE ANT 21-11-14XRLNB	6150.8	-10113.3	-784.5	40.394128	-104.292094
HZ LP *NEW* - STATE ANT 21-11-14XRLNB	6150.8	-692.1	-829.9	40.419989	-104.292258
MID-LAT TGT - STATE ANT 21-11-14XRLNB	6150.8	-5222.9	-832.4	40.407552	-104.292267



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well STATE ANTELOPE 21-11-14XRLNB - Slot PROP HZ STATE ANT 21-11-14XRLNB
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4620.8usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4620.8usft (Original Well Elev)
Site:	NW NE SEC. 11 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE 21-11-14XRLNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

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	NW NE SEC. 11 T5N R62W 6th P.M.			
Site Position:		Northing:	1,398,835.52 usft	Latitude: 40.421889
From:	Lat/Long	Easting:	3,337,079.30 usft	Longitude: -104.289278
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft	Grid Convergence: 0.78 °

Well	STATE ANTELOPE 21-11-14XRLNB - Slot PROP HZ STATE ANT 21-11-14XRLNB			
Well Position	+N/-S	0.0 usft	Northing:	1,398,835.52 usft
	+E/-W	0.0 usft	Easting:	3,337,079.30 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft
			Ground Level:	4,603.8 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	27/08/2016	8.04	66.97	52,547

Design	PROPOSAL #1			
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	184.44

Plan Sections											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-4,620.8	0.0	0.0	0.00	0.00	0.00	0.00	
2,350.0	0.00	0.00	2,350.0	-2,270.8	0.0	0.0	0.00	0.00	0.00	0.00	
3,679.1	26.58	278.28	3,631.9	-988.9	43.6	-299.7	2.00	2.00	0.00	278.28	
4,198.9	26.58	278.28	4,096.8	-524.0	77.1	-529.8	0.00	0.00	0.00	0.00	
5,528.0	0.00	0.00	5,378.7	757.9	120.7	-829.5	2.00	-2.00	0.00	180.00	
5,558.0	0.00	0.00	5,408.7	787.9	120.7	-829.5	0.00	0.00	0.00	0.00	KOP - STATE ANT
6,495.5	75.00	180.03	6,100.5	1,479.7	-410.1	-829.8	8.00	8.00	0.00	180.03	
6,595.5	75.00	180.03	6,126.4	1,505.6	-506.7	-829.8	0.00	0.00	0.00	0.00	
6,783.0	90.00	180.03	6,150.8	1,530.0	-692.1	-829.9	8.00	8.00	0.00	0.00	
11,313.8	90.00	180.03	6,150.8	1,530.0	-5,222.9	-832.4	0.00	0.00	0.00	0.00	MID-LAT TGT - ST,
11,333.5	90.00	179.44	6,150.8	1,530.0	-5,242.6	-832.3	3.00	0.00	-3.00	-90.00	
16,204.4	90.00	179.44	6,150.8	1,530.0	-10,113.3	-784.5	0.00	0.00	0.00	0.00	BHL - STATE ANT

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Well:	STATE ANTELOPE 21-11-14XRLNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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)
SHL: 178ft FNL & 2387ft FEL of Sec 11										
0.0	0.00	0.00	0.0	4,620.80	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,520.80	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,420.80	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,320.80	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,220.80	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,120.80	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,020.80	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,920.80	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,820.80	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,720.80	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	3,620.80	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	3,520.80	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	3,420.80	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	3,320.80	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	3,220.80	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	3,120.80	0.0	0.0	0.0	0.00	0.00	0.00
SURFACE CASING										
1,550.0	0.00	0.00	1,550.0	3,070.80	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	3,020.80	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	2,920.80	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	2,820.80	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	2,720.80	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	2,620.80	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	2,520.80	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	2,420.80	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	2,320.80	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
2,350.0	0.00	0.00	2,350.0	2,270.80	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	1.00	278.28	2,400.0	2,220.80	0.1	-0.4	0.0	2.00	2.00	0.00
2,500.0	3.00	278.28	2,499.9	2,120.87	0.6	-3.9	-0.3	2.00	2.00	0.00
2,600.0	5.00	278.28	2,599.7	2,021.12	1.6	-10.8	-0.7	2.00	2.00	0.00
2,700.0	7.00	278.28	2,699.1	1,921.67	3.1	-21.1	-1.4	2.00	2.00	0.00
2,800.0	9.00	278.28	2,798.2	1,822.65	5.1	-34.9	-2.4	2.00	2.00	0.00
2,900.0	11.00	278.28	2,896.6	1,724.17	7.6	-52.1	-3.5	2.00	2.00	0.00
3,000.0	13.00	278.28	2,994.4	1,626.36	10.6	-72.7	-4.9	2.00	2.00	0.00
3,100.0	15.00	278.28	3,091.5	1,529.34	14.1	-96.6	-6.5	2.00	2.00	0.00
3,200.0	17.00	278.28	3,187.6	1,433.22	18.0	-123.9	-8.4	2.00	2.00	0.00
3,300.0	19.00	278.28	3,282.7	1,338.12	22.5	-154.5	-10.5	2.00	2.00	0.00
3,400.0	21.00	278.28	3,376.6	1,244.15	27.4	-188.3	-12.8	2.00	2.00	0.00
3,500.0	23.00	278.28	3,469.4	1,151.44	32.8	-225.4	-15.3	2.00	2.00	0.00
3,600.0	25.00	278.28	3,560.7	1,060.09	38.6	-265.6	-18.0	2.00	2.00	0.00
EOB TO 26.58° INC										
3,679.1	26.58	278.28	3,631.9	988.87	43.6	-299.7	-20.3	2.00	2.00	0.00
3,700.0	26.58	278.28	3,650.6	970.18	45.0	-308.9	-20.9	0.00	0.00	0.00
3,800.0	26.58	278.28	3,740.1	880.75	51.4	-353.2	-23.9	0.00	0.00	0.00
3,900.0	26.58	278.28	3,829.5	791.32	57.8	-397.5	-26.9	0.00	0.00	0.00
4,000.0	26.58	278.28	3,918.9	701.89	64.3	-441.8	-29.9	0.00	0.00	0.00
4,100.0	26.58	278.28	4,008.3	612.46	70.7	-486.0	-32.9	0.00	0.00	0.00
END OF TANGENT										
4,198.9	26.58	278.28	4,096.8	524.01	77.1	-529.8	-35.9	0.00	0.00	0.00
4,200.0	26.56	278.28	4,097.8	523.03	77.2	-530.3	-35.9	2.02	-2.02	0.00

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Well:	STATE ANTELOPE 21-11-14XRLNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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)
4,300.0	24.56	278.28	4,188.0	432.82	83.4	-573.0	-38.8	2.00	-2.00	0.00
4,400.0	22.56	278.28	4,279.6	341.16	89.1	-612.6	-41.5	2.00	-2.00	0.00
4,500.0	20.56	278.28	4,372.6	248.16	94.4	-648.9	-44.0	2.00	-2.00	0.00
4,600.0	18.56	278.28	4,466.9	153.94	99.2	-682.1	-46.2	2.00	-2.00	0.00
4,700.0	16.56	278.28	4,562.2	58.60	103.6	-711.9	-48.2	2.00	-2.00	0.00
4,800.0	14.56	278.28	4,658.5	-37.73	107.5	-738.5	-50.0	2.00	-2.00	0.00
4,900.0	12.56	278.28	4,755.7	-134.94	110.8	-761.7	-51.6	2.00	-2.00	0.00
5,000.0	10.56	278.28	4,853.7	-232.90	113.7	-781.5	-52.9	2.00	-2.00	0.00
5,100.0	8.56	278.28	4,952.3	-331.51	116.1	-797.9	-54.0	2.00	-2.00	0.00
5,200.0	6.56	278.28	5,051.4	-430.63	118.0	-810.9	-54.9	2.00	-2.00	0.00
5,300.0	4.56	278.28	5,151.0	-530.16	119.4	-820.5	-55.6	2.00	-2.00	0.00
5,400.0	2.56	278.28	5,250.8	-629.96	120.3	-826.7	-56.0	2.00	-2.00	0.00
5,500.0	0.56	278.28	5,350.7	-729.92	120.7	-829.4	-56.2	2.00	-2.00	0.00
EOD TO VERTICAL										
5,528.0	0.00	0.00	5,378.7	-757.92	120.7	-829.5	-56.2	2.00	-2.00	0.00
KOP (8°/100ft BUR)										
5,558.0	0.00	0.00	5,408.7	-787.92	120.7	-829.5	-56.2	0.00	0.00	0.00
5,600.0	3.36	180.03	5,450.7	-829.89	119.5	-829.5	-55.0	8.00	8.00	0.00
5,700.0	11.36	180.03	5,549.8	-928.99	106.7	-829.5	-42.2	8.00	8.00	0.00
5,800.0	19.36	180.03	5,646.1	-1,025.34	80.2	-829.5	-15.8	8.00	8.00	0.00
5,900.0	27.36	180.03	5,737.9	-1,117.07	40.6	-829.5	23.7	8.00	8.00	0.00
6,000.0	35.36	180.03	5,823.2	-1,202.39	-11.4	-829.6	75.5	8.00	8.00	0.00
6,100.0	43.36	180.03	5,900.4	-1,279.64	-74.8	-829.6	138.7	8.00	8.00	0.00
6,200.0	51.36	180.03	5,968.1	-1,347.32	-148.3	-829.6	212.0	8.00	8.00	0.00
6,300.0	59.36	180.03	6,024.9	-1,404.12	-230.5	-829.7	294.0	8.00	8.00	0.00
6,400.0	67.36	180.03	6,069.7	-1,448.92	-319.8	-829.7	383.0	8.00	8.00	0.00
START OF TANGENT										
6,495.5	75.00	180.03	6,100.5	-1,479.70	-410.1	-829.8	473.1	8.00	8.00	0.00
6,500.0	75.00	180.03	6,101.7	-1,480.86	-414.5	-829.8	477.4	0.00	0.00	0.00
END OF TANGENT										
6,595.5	75.00	180.03	6,126.4	-1,505.58	-506.7	-829.8	569.4	0.00	0.00	0.00
6,600.0	75.36	180.03	6,127.5	-1,506.73	-511.1	-829.8	573.7	8.03	8.03	0.00
6,700.0	83.36	180.03	6,146.0	-1,525.18	-609.3	-829.9	671.7	8.00	8.00	0.00
HZ LP *NEW*: 827.8ft FNL & 2160ft FWL of Sec 11										
6,783.0	90.00	180.03	6,150.8	-1,529.98	-692.1	-829.9	754.2	8.00	8.00	0.00
6,800.0	90.00	180.03	6,150.8	-1,529.98	-709.1	-829.9	771.2	0.00	0.00	0.00
6,900.0	90.00	180.03	6,150.8	-1,529.98	-809.1	-830.0	870.9	0.00	0.00	0.00
7,000.0	90.00	180.03	6,150.8	-1,529.98	-909.1	-830.0	970.6	0.00	0.00	0.00
7,100.0	90.00	180.03	6,150.8	-1,529.98	-1,009.1	-830.1	1,070.3	0.00	0.00	0.00
7,200.0	90.00	180.03	6,150.8	-1,529.98	-1,109.1	-830.1	1,170.0	0.00	0.00	0.00
7,300.0	90.00	180.03	6,150.8	-1,529.98	-1,209.1	-830.2	1,269.7	0.00	0.00	0.00
7,400.0	90.00	180.03	6,150.8	-1,529.98	-1,309.1	-830.2	1,369.4	0.00	0.00	0.00
7,500.0	90.00	180.03	6,150.8	-1,529.98	-1,409.1	-830.3	1,469.1	0.00	0.00	0.00
7,600.0	90.00	180.03	6,150.8	-1,529.98	-1,509.1	-830.4	1,568.8	0.00	0.00	0.00
7,700.0	90.00	180.03	6,150.8	-1,529.98	-1,609.1	-830.4	1,668.5	0.00	0.00	0.00
7,800.0	90.00	180.03	6,150.8	-1,529.98	-1,709.1	-830.5	1,768.2	0.00	0.00	0.00
7,900.0	90.00	180.03	6,150.8	-1,529.98	-1,809.1	-830.5	1,867.9	0.00	0.00	0.00
8,000.0	90.00	180.03	6,150.8	-1,529.98	-1,909.1	-830.6	1,967.6	0.00	0.00	0.00
8,100.0	90.00	180.03	6,150.8	-1,529.98	-2,009.1	-830.6	2,067.3	0.00	0.00	0.00
8,200.0	90.00	180.03	6,150.8	-1,529.98	-2,109.1	-830.7	2,167.0	0.00	0.00	0.00
8,300.0	90.00	180.03	6,150.8	-1,529.98	-2,209.1	-830.7	2,266.7	0.00	0.00	0.00
8,400.0	90.00	180.03	6,150.8	-1,529.98	-2,309.1	-830.8	2,366.4	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well STATE ANTELOPE 21-11-14XRLNB - Slot PROP HZ STATE ANT 21-11-14XRLNB
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4620.8usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4620.8usft (Original Well Elev)
Site:	NW NE SEC. 11 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE 21-11-14XRLNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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)
8,500.0	90.00	180.03	6,150.8	-1,529.98	-2,409.1	-830.8	2,466.1	0.00	0.00	0.00
8,600.0	90.00	180.03	6,150.8	-1,529.98	-2,509.1	-830.9	2,565.9	0.00	0.00	0.00
8,700.0	90.00	180.03	6,150.8	-1,529.98	-2,609.1	-830.9	2,665.6	0.00	0.00	0.00
8,800.0	90.00	180.03	6,150.8	-1,529.98	-2,709.1	-831.0	2,765.3	0.00	0.00	0.00
8,900.0	90.00	180.03	6,150.8	-1,529.98	-2,809.1	-831.0	2,865.0	0.00	0.00	0.00
9,000.0	90.00	180.03	6,150.8	-1,529.98	-2,909.1	-831.1	2,964.7	0.00	0.00	0.00
9,100.0	90.00	180.03	6,150.8	-1,529.98	-3,009.1	-831.1	3,064.4	0.00	0.00	0.00
9,200.0	90.00	180.03	6,150.8	-1,529.98	-3,109.1	-831.2	3,164.1	0.00	0.00	0.00
9,300.0	90.00	180.03	6,150.8	-1,529.98	-3,209.1	-831.2	3,263.8	0.00	0.00	0.00
9,400.0	90.00	180.03	6,150.8	-1,529.98	-3,309.1	-831.3	3,363.5	0.00	0.00	0.00
9,500.0	90.00	180.03	6,150.8	-1,529.98	-3,409.1	-831.3	3,463.2	0.00	0.00	0.00
9,600.0	90.00	180.03	6,150.8	-1,529.98	-3,509.1	-831.4	3,562.9	0.00	0.00	0.00
9,700.0	90.00	180.03	6,150.8	-1,529.98	-3,609.1	-831.5	3,662.6	0.00	0.00	0.00
9,800.0	90.00	180.03	6,150.8	-1,529.98	-3,709.1	-831.5	3,762.3	0.00	0.00	0.00
9,900.0	90.00	180.03	6,150.8	-1,529.98	-3,809.1	-831.6	3,862.0	0.00	0.00	0.00
10,000.0	90.00	180.03	6,150.8	-1,529.98	-3,909.1	-831.6	3,961.7	0.00	0.00	0.00
10,100.0	90.00	180.03	6,150.8	-1,529.98	-4,009.1	-831.7	4,061.4	0.00	0.00	0.00
10,200.0	90.00	180.03	6,150.8	-1,529.98	-4,109.1	-831.7	4,161.1	0.00	0.00	0.00
10,300.0	90.00	180.03	6,150.8	-1,529.98	-4,209.1	-831.8	4,260.8	0.00	0.00	0.00
10,400.0	90.00	180.03	6,150.8	-1,529.98	-4,309.1	-831.8	4,360.5	0.00	0.00	0.00
10,500.0	90.00	180.03	6,150.8	-1,529.98	-4,409.1	-831.9	4,460.2	0.00	0.00	0.00
10,600.0	90.00	180.03	6,150.8	-1,529.98	-4,509.1	-831.9	4,559.9	0.00	0.00	0.00
10,700.0	90.00	180.03	6,150.8	-1,529.98	-4,609.1	-832.0	4,659.6	0.00	0.00	0.00
10,800.0	90.00	180.03	6,150.8	-1,529.98	-4,709.1	-832.0	4,759.4	0.00	0.00	0.00
10,900.0	90.00	180.03	6,150.8	-1,529.98	-4,809.1	-832.1	4,859.1	0.00	0.00	0.00
11,000.0	90.00	180.03	6,150.8	-1,529.98	-4,909.1	-832.1	4,958.8	0.00	0.00	0.00
11,100.0	90.00	180.03	6,150.8	-1,529.98	-5,009.1	-832.2	5,058.5	0.00	0.00	0.00
11,200.0	90.00	180.03	6,150.8	-1,529.98	-5,109.1	-832.2	5,158.2	0.00	0.00	0.00
11,300.0	90.00	180.03	6,150.8	-1,529.98	-5,209.1	-832.3	5,257.9	0.00	0.00	0.00
MID-LAT TGT: 0ft FNL & 2152ft FWL of Sec 14										
11,313.8	90.00	180.03	6,150.8	-1,530.00	-5,222.9	-832.4	5,271.6	0.00	0.00	0.00
EOT TO 179.44° AZ										
11,333.5	90.00	179.44	6,150.8	-1,530.00	-5,242.6	-832.3	5,291.3	3.00	0.00	-3.00
11,400.0	90.00	179.44	6,150.8	-1,530.00	-5,309.1	-831.6	5,357.5	0.00	0.00	0.00
11,500.0	90.00	179.44	6,150.8	-1,530.00	-5,409.1	-830.6	5,457.1	0.00	0.00	0.00
11,600.0	90.00	179.44	6,150.8	-1,530.00	-5,509.1	-829.6	5,556.8	0.00	0.00	0.00
11,700.0	90.00	179.44	6,150.8	-1,530.00	-5,609.1	-828.7	5,656.4	0.00	0.00	0.00
11,800.0	90.00	179.44	6,150.8	-1,530.00	-5,709.1	-827.7	5,756.0	0.00	0.00	0.00
11,900.0	90.00	179.44	6,150.8	-1,530.00	-5,809.1	-826.7	5,855.6	0.00	0.00	0.00
12,000.0	90.00	179.44	6,150.8	-1,530.00	-5,909.1	-825.7	5,955.2	0.00	0.00	0.00
12,100.0	90.00	179.44	6,150.8	-1,530.00	-6,009.1	-824.7	6,054.9	0.00	0.00	0.00
12,200.0	90.00	179.44	6,150.8	-1,530.00	-6,109.1	-823.8	6,154.5	0.00	0.00	0.00
12,300.0	90.00	179.44	6,150.8	-1,530.00	-6,209.1	-822.8	6,254.1	0.00	0.00	0.00
12,400.0	90.00	179.44	6,150.8	-1,530.00	-6,309.1	-821.8	6,353.7	0.00	0.00	0.00
12,500.0	90.00	179.44	6,150.8	-1,530.00	-6,409.1	-820.8	6,453.3	0.00	0.00	0.00
12,600.0	90.00	179.44	6,150.8	-1,530.00	-6,509.0	-819.8	6,553.0	0.00	0.00	0.00
12,700.0	90.00	179.44	6,150.8	-1,530.00	-6,609.0	-818.9	6,652.6	0.00	0.00	0.00
12,800.0	90.00	179.44	6,150.8	-1,530.00	-6,709.0	-817.9	6,752.2	0.00	0.00	0.00
12,900.0	90.00	179.44	6,150.8	-1,530.00	-6,809.0	-816.9	6,851.8	0.00	0.00	0.00
13,000.0	90.00	179.44	6,150.8	-1,530.00	-6,909.0	-815.9	6,951.4	0.00	0.00	0.00
13,100.0	90.00	179.44	6,150.8	-1,530.00	-7,009.0	-814.9	7,051.1	0.00	0.00	0.00
13,200.0	90.00	179.44	6,150.8	-1,530.00	-7,109.0	-814.0	7,150.7	0.00	0.00	0.00
13,300.0	90.00	179.44	6,150.8	-1,530.00	-7,209.0	-813.0	7,250.3	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well STATE ANTELOPE 21-11-14XRLNB - Slot PROP HZ STATE ANT 21-11-14XRLNB
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4620.8usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4620.8usft (Original Well Elev)
Site:	NW NE SEC. 11 T5N R62W 6th P.M.	North Reference:	True
Well:	STATE ANTELOPE 21-11-14XRLNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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)
13,400.0	90.00	179.44	6,150.8	-1,530.00	-7,309.0	-812.0	7,349.9	0.00	0.00	0.00
13,500.0	90.00	179.44	6,150.8	-1,530.00	-7,409.0	-811.0	7,449.5	0.00	0.00	0.00
13,600.0	90.00	179.44	6,150.8	-1,530.00	-7,509.0	-810.0	7,549.2	0.00	0.00	0.00
13,700.0	90.00	179.44	6,150.8	-1,530.00	-7,609.0	-809.1	7,648.8	0.00	0.00	0.00
13,800.0	90.00	179.44	6,150.8	-1,530.00	-7,709.0	-808.1	7,748.4	0.00	0.00	0.00
13,900.0	90.00	179.44	6,150.8	-1,530.00	-7,809.0	-807.1	7,848.0	0.00	0.00	0.00
14,000.0	90.00	179.44	6,150.8	-1,530.00	-7,909.0	-806.1	7,947.6	0.00	0.00	0.00
14,100.0	90.00	179.44	6,150.8	-1,530.00	-8,009.0	-805.1	8,047.3	0.00	0.00	0.00
14,200.0	90.00	179.44	6,150.8	-1,530.00	-8,109.0	-804.2	8,146.9	0.00	0.00	0.00
14,300.0	90.00	179.44	6,150.8	-1,530.00	-8,209.0	-803.2	8,246.5	0.00	0.00	0.00
14,400.0	90.00	179.44	6,150.8	-1,530.00	-8,309.0	-802.2	8,346.1	0.00	0.00	0.00
14,500.0	90.00	179.44	6,150.8	-1,530.00	-8,409.0	-801.2	8,445.7	0.00	0.00	0.00
14,600.0	90.00	179.44	6,150.8	-1,530.00	-8,508.9	-800.2	8,545.4	0.00	0.00	0.00
14,700.0	90.00	179.44	6,150.8	-1,530.00	-8,608.9	-799.2	8,645.0	0.00	0.00	0.00
14,800.0	90.00	179.44	6,150.8	-1,530.00	-8,708.9	-798.3	8,744.6	0.00	0.00	0.00
14,900.0	90.00	179.44	6,150.8	-1,530.00	-8,808.9	-797.3	8,844.2	0.00	0.00	0.00
15,000.0	90.00	179.44	6,150.8	-1,530.00	-8,908.9	-796.3	8,943.8	0.00	0.00	0.00
15,100.0	90.00	179.44	6,150.8	-1,530.00	-9,008.9	-795.3	9,043.5	0.00	0.00	0.00
15,200.0	90.00	179.44	6,150.8	-1,530.00	-9,108.9	-794.3	9,143.1	0.00	0.00	0.00
15,300.0	90.00	179.44	6,150.8	-1,530.00	-9,208.9	-793.4	9,242.7	0.00	0.00	0.00
15,400.0	90.00	179.44	6,150.8	-1,530.00	-9,308.9	-792.4	9,342.3	0.00	0.00	0.00
15,500.0	90.00	179.44	6,150.8	-1,530.00	-9,408.9	-791.4	9,441.9	0.00	0.00	0.00
15,600.0	90.00	179.44	6,150.8	-1,530.00	-9,508.9	-790.4	9,541.6	0.00	0.00	0.00
15,700.0	90.00	179.44	6,150.8	-1,530.00	-9,608.9	-789.4	9,641.2	0.00	0.00	0.00
15,800.0	90.00	179.44	6,150.8	-1,530.00	-9,708.9	-788.5	9,740.8	0.00	0.00	0.00
15,900.0	90.00	179.44	6,150.8	-1,530.00	-9,808.9	-787.5	9,840.4	0.00	0.00	0.00
16,000.0	90.00	179.44	6,150.8	-1,530.00	-9,908.9	-786.5	9,940.0	0.00	0.00	0.00
16,100.0	90.00	179.44	6,150.8	-1,530.00	-10,008.9	-785.5	10,039.7	0.00	0.00	0.00
16,200.0	90.00	179.44	6,150.8	-1,530.00	-10,108.9	-784.5	10,139.3	0.00	0.00	0.00
BHL: 470ft FSL & 2104ft FWL of Sec 14										
16,204.4	90.00	179.44	6,150.8	-1,530.00	-10,113.3	-784.5	10,143.7	0.00	0.00	0.00

Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 178ft FNL & 2387ft FEL of Sec 11
1,550.0	1,550.0	0.0	0.0	SURFACE CASING
2,350.0	2,350.0	0.0	0.0	START NUDGE (2°/100ft BUR)
3,679.1	3,631.9	43.6	-299.7	EOB TO 26.58° INC
4,198.9	4,096.8	77.1	-529.8	END OF TANGENT
5,528.0	5,378.7	120.7	-829.5	EOD TO VERTICAL
5,558.0	5,408.7	120.7	-829.5	KOP (8°/100ft BUR)
6,495.5	6,100.5	-410.1	-829.8	START OF TANGENT
6,595.5	6,126.4	-506.7	-829.8	END OF TANGENT
6,783.0	6,150.8	-692.1	-829.9	HZ LP *NEW*: 827.8ft FNL & 2160ft FWL of Sec 11
11,313.8	6,150.8	-5,222.9	-832.4	MID-LAT TGT: 0ft FNL & 2152ft FWL of Sec 14
11,333.5	6,150.8	-5,242.6	-832.3	EOT TO 179.44° AZ
16,204.4	6,150.8	-10,113.3	-784.5	BHL: 470ft FSL & 2104ft FWL of Sec 14