

# **BONANZA CREEK ENERGY INC.**

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

**NW NW SEC. 36 T5N R63W 6th P.M.**

**STATE NORTH PLATTE K21-O24-36HNB**

**ORIGINAL WELLBORE**

**11 January, 2017**

**Plan: PROPOSAL #2**





Project: WELD COUNTY, COLORADO (NAD 83)  
Site: NW NW SEC. 36 T5N R63W 6th P.M.  
Well: STATE NORTH PLATTE K21-O24-36HNB  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #2

ANNOTATIONS

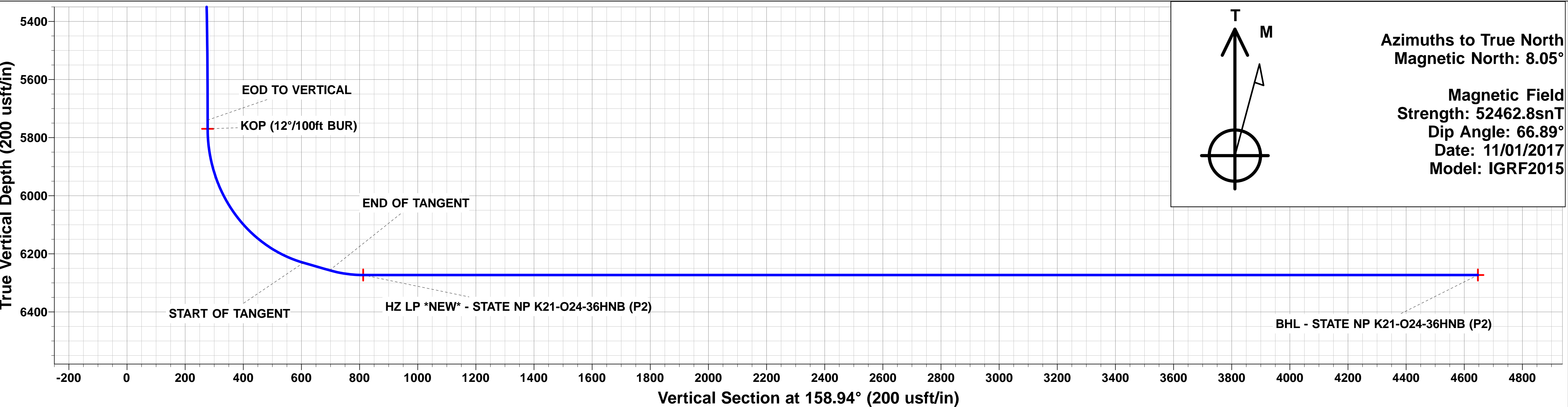
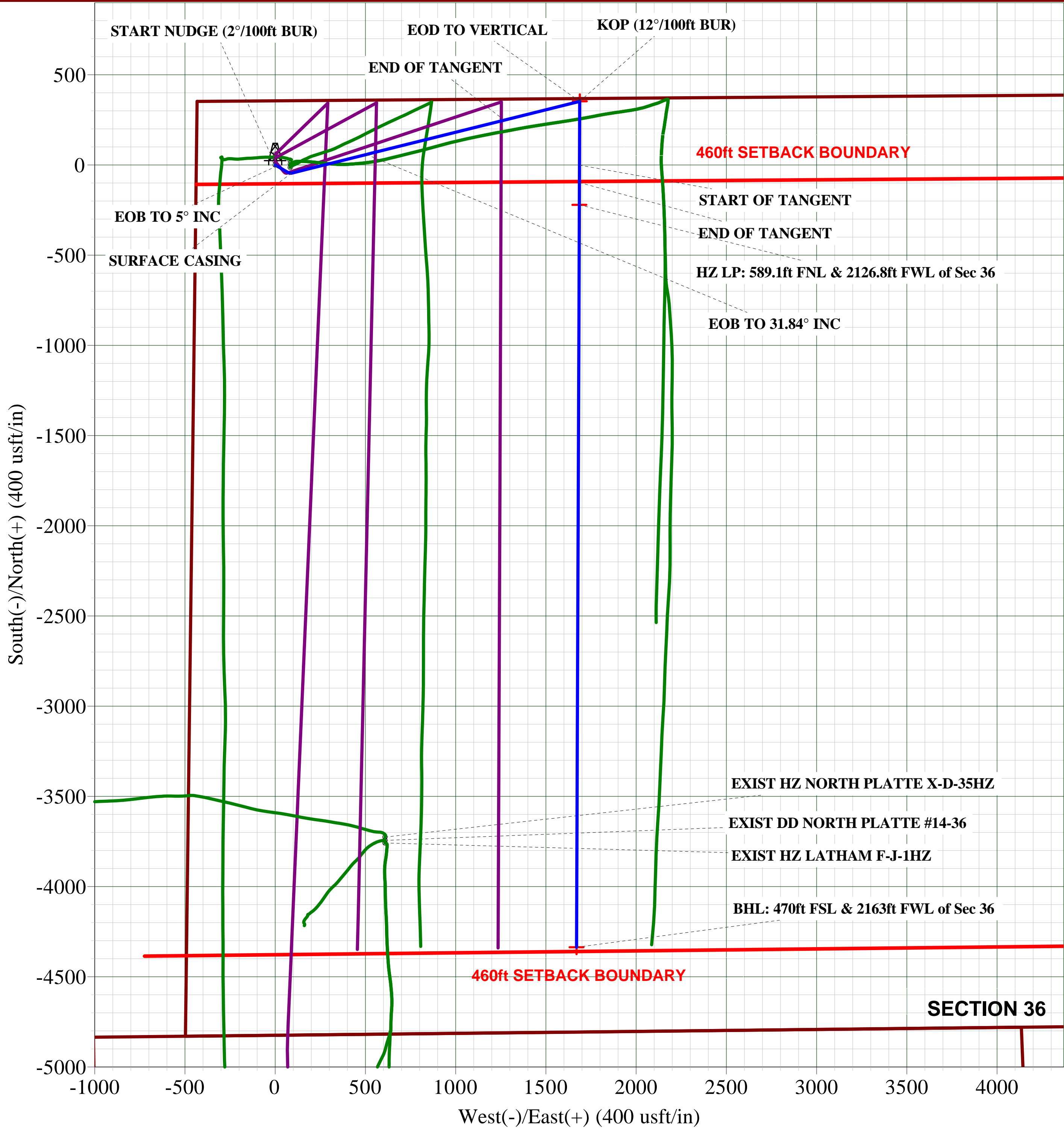
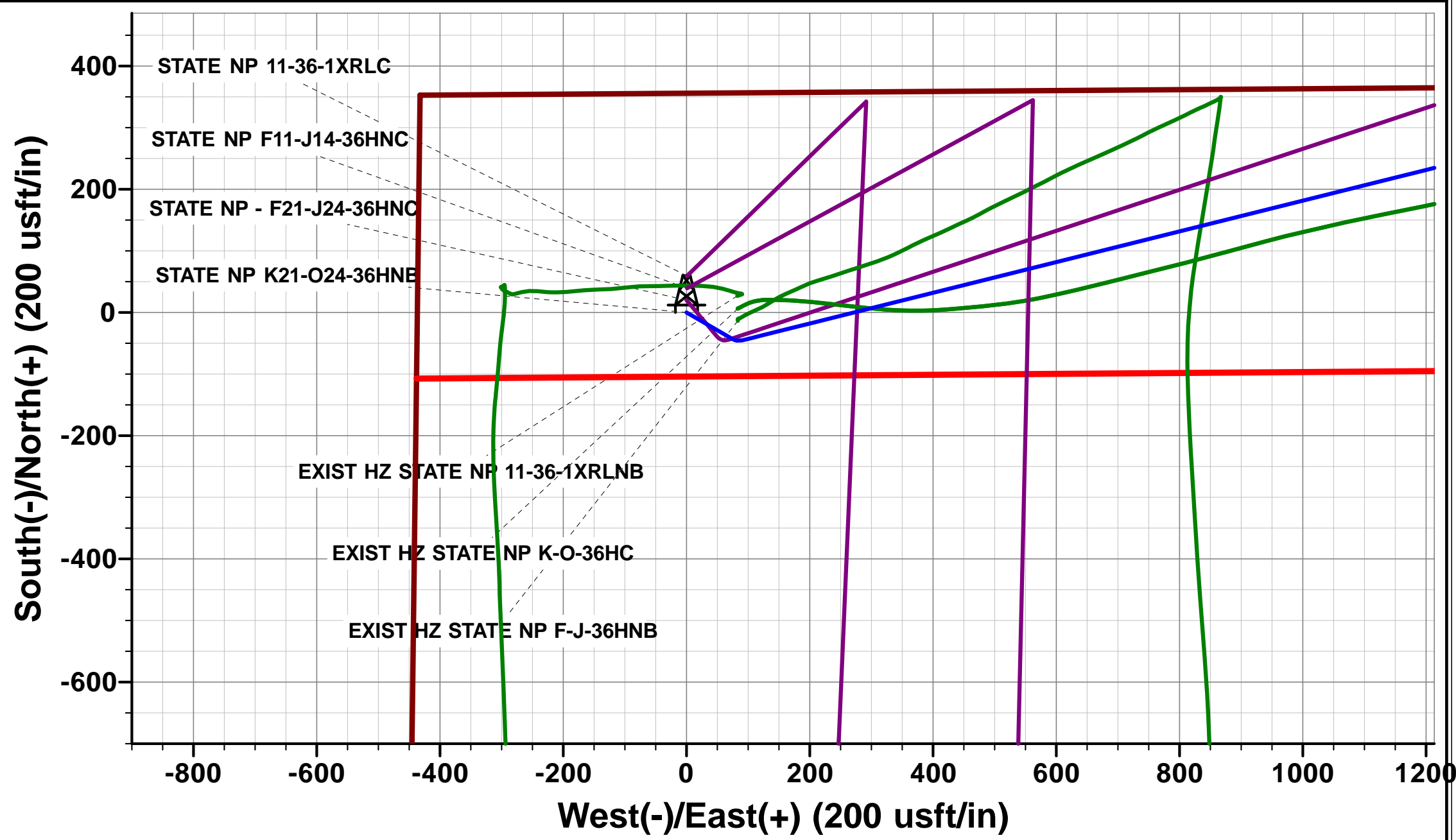
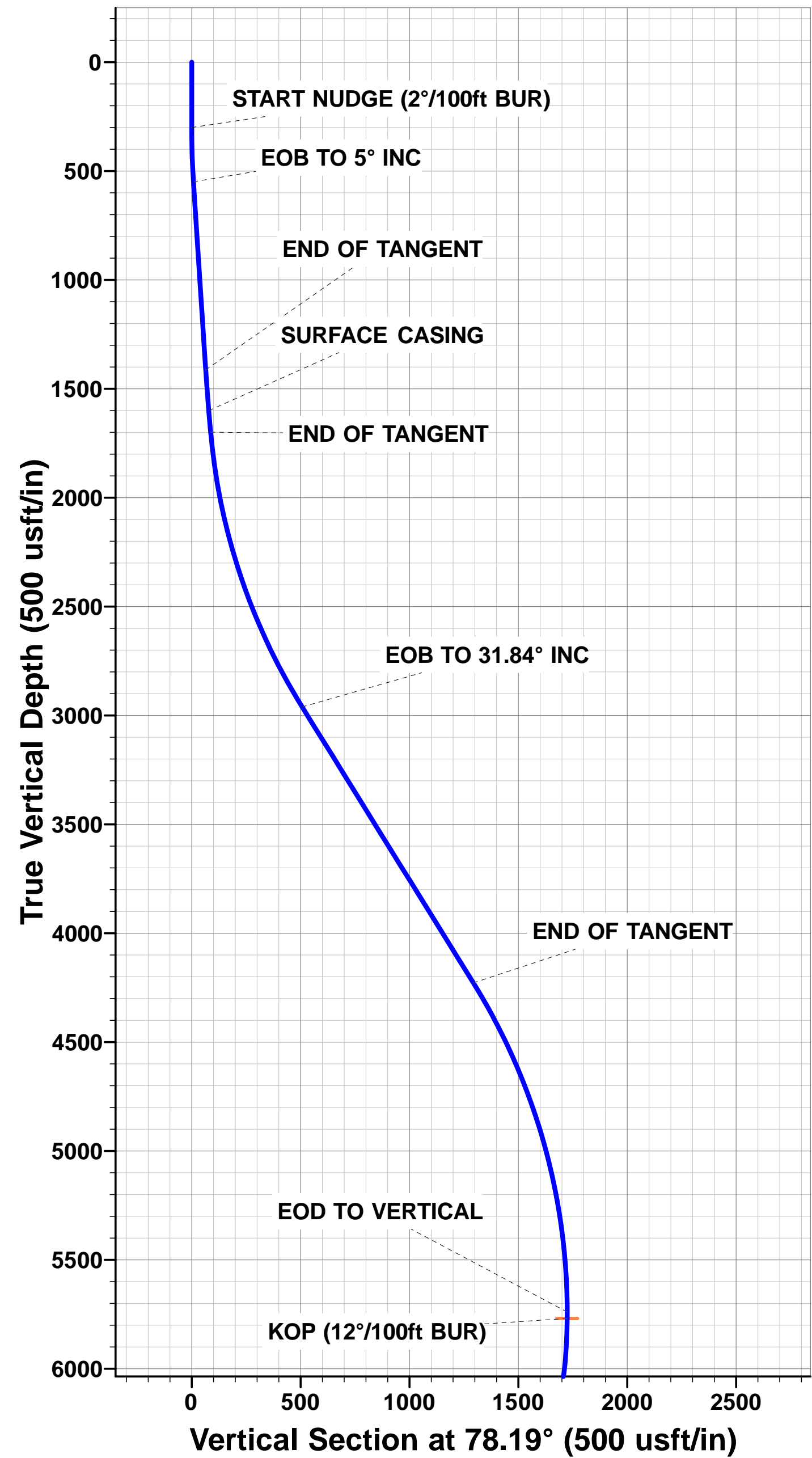
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 356ft FNL & 439ft FWL of Sec 36
300.0	300.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
549.7	550.0	5.00	120.00	-5.5	9.4	8.5	10.9	EOB TO 5° INC
1413.6	1417.2	5.00	120.00	-43.2	74.9	67.3	86.5	END OF TANGENT
1600.0	1604.3	5.00	76.01	-45.3	89.9	74.6	102.2	SURFACE CASING
1699.7	1704.3	5.00	76.01	-43.2	98.3	75.7	110.9	END OF TANGENT
2961.3	3046.3	31.84	76.01	58.3	506.1	127.4	531.1	EOB TO 31.84° INC
4228.4	4537.9	31.84	76.01	248.7	1269.7	224.3	1318.1	END OF TANGENT
5739.8	6130.0	0.00	0.00	352.9	1688.0	277.4	1749.2	EOD TO VERTICAL
5769.8	6160.0	0.00	0.00	352.9	1688.0	277.4	1749.2	KOP (12°/100ft BUR)
6231.0	6785.0	75.00	180.22	-1.0	1686.6	607.1	2103.1	START OF TANGENT
6256.9	6885.0	75.00	180.22	-97.6	1686.3	697.1	2199.7	END OF TANGENT
6273.1	7010.0	90.00	180.22	-221.2	1685.8	812.3	2323.3	HZ LP: 589.1ft FNL & 2126.8ft FWL of Sec 36
6273.1	11125.2	90.00	180.22	-4336.3	1670.1	4646.8	6438.4	BHL: 470ft FSL & 2163ft FWL of Sec 36

LOCAL COORDINATES:

SHL: 356ft FNL & 439ft FWL Sec 36  
HZ LP \*NEW\*:589.1ft FNL & 2126.8ft FWL Sec 36  
BHL: 470ft FSL & 2163ft FWL Sec 36

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - STATE NP K21-O24-36HNB (P2)	5769.8	352.9	1688.0	40.363174	-104.386318
BHL - STATE NP K21-O24-36HNB (P2)	6273.1	-4336.3	1670.1	40.350303	-104.386383
HZ LP *NEW* - STATE NP K21-O24-36HNB (P2)	6273.1	-221.2	1685.8	40.361599	-104.386326



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE NORTH PLATTE K21-O24-36HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4560.1usft
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4560.1usft
<b>Site:</b>	NW NW SEC. 36 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE NORTH PLATTE K21-O24-36HNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

<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>	NW NW SEC. 36 T5N R63W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,376,747.52 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,308,732.52 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft
		<b>Latitude:</b>	40.362279
		<b>Longitude:</b>	-104.392074
		<b>Grid Convergence:</b>	0.72 °

<b>Well</b>	STATE NORTH PLATTE K21-O24-36HNB		
<b>Well Position</b>	<b>+N/-S</b>	-26.6 usft	<b>Northing:</b>
	<b>+E/-W</b>	-83.9 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	11/01/2017	8.05	66.89	52,463

<b>Design</b>	PROPOSAL #2				
<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	158.94	

<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	-4,560.1	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	-4,260.1	0.0	0.0	0.00	0.00	0.00	0.00	
550.0	5.00	120.00	549.7	-4,010.4	-5.5	9.4	2.00	2.00	0.00	120.00	
1,417.2	5.00	120.00	1,413.6	-3,146.5	-43.2	74.9	0.00	0.00	0.00	0.00	
1,604.3	5.00	76.01	1,600.0	-2,960.1	-45.3	89.9	2.00	0.00	-23.51	248.10	
1,704.3	5.00	76.01	1,699.6	-2,860.5	-43.2	98.3	0.00	0.00	0.00	0.00	
3,046.3	31.84	76.01	2,961.3	-1,598.8	58.4	506.1	2.00	2.00	0.00	0.00	
4,537.9	31.84	76.01	4,228.4	-331.7	248.7	1,269.7	0.00	0.00	0.00	0.00	
6,130.0	0.00	0.00	5,739.8	1,179.7	352.9	1,688.0	2.00	-2.00	0.00	180.00	
6,160.0	0.00	0.00	5,769.8	1,209.7	352.9	1,688.0	0.00	0.00	0.00	0.00	KOP - STATE NP K
6,785.0	75.00	180.22	6,231.0	1,670.9	-1.0	1,686.6	12.00	12.00	0.00	180.22	
6,885.0	75.00	180.22	6,256.9	1,696.8	-97.6	1,686.3	0.00	0.00	0.00	0.00	
7,010.0	90.00	180.22	6,273.1	1,713.0	-221.2	1,685.8	12.00	12.00	0.00	0.00	
11,125.2	90.00	180.22	6,273.1	1,713.0	-4,336.3	1,670.1	0.00	0.00	0.00	-70.46	BHL - STATE NP K

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<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4560.1usft
<b>Site:</b>	NW NW SEC. 36 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE NORTH PLATTE K21-O24-36HNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## 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: 356ft FNL &amp; 439ft FWL of Sec 36</b>										
0.0	0.00	0.00	0.0	4,560.10	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,460.10	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,360.10	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
300.0	0.00	0.00	300.0	4,260.10	0.0	0.0	0.0	0.00	0.00	0.00
400.0	2.00	120.00	400.0	4,160.12	-0.9	1.5	1.4	2.00	2.00	0.00
500.0	4.00	120.00	499.8	4,060.26	-3.5	6.0	5.4	2.00	2.00	0.00
<b>EOB TO 5° INC</b>										
550.0	5.00	120.00	549.7	4,010.42	-5.5	9.4	8.5	2.00	2.00	0.00
600.0	5.00	120.00	599.5	3,960.61	-7.6	13.2	11.9	0.00	0.00	0.00
700.0	5.00	120.00	699.1	3,860.99	-12.0	20.8	18.6	0.00	0.00	0.00
800.0	5.00	120.00	798.7	3,761.37	-16.3	28.3	25.4	0.00	0.00	0.00
900.0	5.00	120.00	898.4	3,661.75	-20.7	35.9	32.2	0.00	0.00	0.00
1,000.0	5.00	120.00	998.0	3,562.13	-25.1	43.4	39.0	0.00	0.00	0.00
1,100.0	5.00	120.00	1,097.6	3,462.51	-29.4	51.0	45.8	0.00	0.00	0.00
1,200.0	5.00	120.00	1,197.2	3,362.89	-33.8	58.5	52.5	0.00	0.00	0.00
1,300.0	5.00	120.00	1,296.8	3,263.27	-38.1	66.1	59.3	0.00	0.00	0.00
1,400.0	5.00	120.00	1,396.4	3,163.65	-42.5	73.6	66.1	0.00	0.00	0.00
<b>END OF TANGENT</b>										
1,417.2	5.00	120.00	1,413.6	3,146.52	-43.2	74.9	67.3	0.00	0.00	0.00
1,500.0	4.64	100.66	1,496.1	3,064.00	-45.7	81.3	71.8	2.00	-0.43	-23.36
1,600.0	4.97	76.93	1,595.8	2,964.35	-45.4	89.5	74.6	2.00	0.33	-23.73
<b>SURFACE CASING</b>										
1,604.3	5.00	76.01	1,600.0	2,960.10	-45.3	89.9	74.6	2.00	0.73	-21.42
1,700.0	5.00	76.01	1,695.4	2,864.73	-43.3	98.0	75.6	0.00	0.00	0.00
<b>END OF TANGENT</b>										
1,704.3	5.00	76.01	1,699.7	2,860.44	-43.2	98.3	75.7	0.00	0.00	0.00
1,800.0	6.92	76.01	1,794.8	2,765.27	-40.8	108.0	76.9	2.00	2.00	0.00
1,900.0	8.92	76.01	1,893.9	2,666.22	-37.5	121.3	78.6	2.00	2.00	0.00
2,000.0	10.92	76.01	1,992.4	2,567.72	-33.3	138.0	80.7	2.00	2.00	0.00
2,100.0	12.92	76.01	2,090.2	2,469.88	-28.4	158.1	83.3	2.00	2.00	0.00
2,200.0	14.92	76.01	2,187.3	2,372.82	-22.5	181.4	86.2	2.00	2.00	0.00
2,300.0	16.92	76.01	2,283.4	2,276.66	-15.9	208.0	89.6	2.00	2.00	0.00
2,400.0	18.92	76.01	2,378.6	2,181.51	-8.5	237.9	93.4	2.00	2.00	0.00
2,500.0	20.92	76.01	2,472.6	2,087.50	-0.2	270.9	97.6	2.00	2.00	0.00
2,600.0	22.92	76.01	2,565.4	1,994.73	8.8	307.1	102.2	2.00	2.00	0.00
2,700.0	24.92	76.01	2,656.8	1,903.32	18.6	346.5	107.2	2.00	2.00	0.00
2,800.0	26.92	76.01	2,746.7	1,813.38	29.1	388.9	112.6	2.00	2.00	0.00
2,900.0	28.92	76.01	2,835.1	1,725.02	40.5	434.3	118.3	2.00	2.00	0.00
3,000.0	30.92	76.01	2,921.7	1,638.35	52.5	482.7	124.5	2.00	2.00	0.00
<b>EOB TO 31.84° INC</b>										
3,046.3	31.84	76.01	2,961.3	1,598.82	58.3	506.1	127.4	2.00	2.00	-0.01
3,100.0	31.84	76.01	3,006.9	1,553.20	65.2	533.6	130.9	0.00	0.00	0.00
3,200.0	31.84	76.01	3,091.8	1,468.25	78.0	584.8	137.4	0.00	0.00	0.00
3,300.0	31.84	76.01	3,176.8	1,383.30	90.7	636.0	143.9	0.00	0.00	0.00
3,400.0	31.84	76.01	3,261.7	1,298.35	103.5	687.1	150.4	0.00	0.00	0.00
3,500.0	31.84	76.01	3,346.7	1,213.40	116.2	738.3	156.9	0.00	0.00	0.00
3,600.0	31.84	76.01	3,431.6	1,128.45	129.0	789.5	163.4	0.00	0.00	0.00
3,700.0	31.84	76.01	3,516.6	1,043.50	141.8	840.7	169.9	0.00	0.00	0.00
3,800.0	31.84	76.01	3,601.6	958.55	154.5	891.9	176.4	0.00	0.00	0.00
3,900.0	31.84	76.01	3,686.5	873.60	167.3	943.1	182.9	0.00	0.00	0.00



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<b>Well:</b>	STATE NORTH PLATTE K21-O24-36HNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## 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)
4,000.0	31.84	76.01	3,771.5	788.65	180.0	994.3	189.4	0.00	0.00	0.00
4,100.0	31.84	76.01	3,856.4	703.70	192.8	1,045.5	195.9	0.00	0.00	0.00
4,200.0	31.84	76.01	3,941.4	618.75	205.5	1,096.7	202.4	0.00	0.00	0.00
4,300.0	31.84	76.01	4,026.3	533.79	218.3	1,147.9	208.8	0.00	0.00	0.00
4,400.0	31.84	76.01	4,111.3	448.84	231.1	1,199.1	215.3	0.00	0.00	0.00
4,500.0	31.84	76.01	4,196.2	363.89	243.8	1,250.3	221.8	0.00	0.00	0.00
<b>END OF TANGENT</b>										
4,537.9	31.84	76.01	4,228.4	331.70	248.7	1,269.7	224.3	0.00	0.00	0.00
4,600.0	30.60	76.01	4,281.5	278.59	256.4	1,300.9	228.3	2.00	-2.00	0.00
4,700.0	28.60	76.01	4,368.5	191.65	268.4	1,348.8	234.3	2.00	-2.00	0.00
4,800.0	26.60	76.01	4,457.1	103.03	279.6	1,393.8	240.0	2.00	-2.00	0.00
4,900.0	24.60	76.01	4,547.2	12.85	290.0	1,435.7	245.4	2.00	-2.00	0.00
5,000.0	22.60	76.01	4,638.9	-78.78	299.7	1,474.5	250.3	2.00	-2.00	0.00
5,100.0	20.60	76.01	4,731.9	-171.75	308.6	1,510.3	254.8	2.00	-2.00	0.00
5,200.0	18.60	76.01	4,826.1	-265.95	316.7	1,542.8	259.0	2.00	-2.00	0.00
5,300.0	16.60	76.01	4,921.4	-361.27	324.0	1,572.1	262.7	2.00	-2.00	0.00
5,400.0	14.60	76.01	5,017.7	-457.58	330.5	1,598.2	266.0	2.00	-2.00	0.00
5,500.0	12.60	76.01	5,114.9	-554.77	336.2	1,621.1	268.9	2.00	-2.00	0.00
5,600.0	10.60	76.01	5,212.8	-652.72	341.1	1,640.6	271.4	2.00	-2.00	0.00
5,700.0	8.60	76.01	5,311.4	-751.32	345.1	1,656.7	273.4	2.00	-2.00	0.00
5,800.0	6.60	76.01	5,410.5	-850.43	348.3	1,669.6	275.0	2.00	-2.00	0.00
5,900.0	4.60	76.01	5,510.1	-949.95	350.7	1,679.0	276.2	2.00	-2.00	0.00
6,000.0	2.60	76.01	5,609.9	-1,049.75	352.2	1,685.1	277.0	2.00	-2.00	0.00
6,100.0	0.60	76.01	5,709.8	-1,149.71	352.9	1,687.8	277.4	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
6,130.0	0.00	0.00	5,739.8	-1,179.71	352.9	1,688.0	277.4	2.00	-2.00	0.00
<b>KOP (12°/100ft BUR)</b>										
6,160.0	0.00	0.00	5,769.8	-1,209.71	352.9	1,688.0	277.4	0.00	0.00	0.00
6,200.0	4.80	180.22	5,809.8	-1,249.66	351.2	1,688.0	278.9	12.00	12.00	0.00
6,300.0	16.80	180.22	5,907.8	-1,347.71	332.5	1,687.9	296.4	12.00	12.00	0.00
6,400.0	28.80	180.22	5,999.8	-1,439.73	293.8	1,687.8	332.4	12.00	12.00	0.00
6,500.0	40.80	180.22	6,081.8	-1,521.69	236.9	1,687.6	385.5	12.00	12.00	0.00
6,600.0	52.80	180.22	6,150.1	-1,590.02	164.1	1,687.3	453.3	12.00	12.00	0.00
6,700.0	64.80	180.22	6,201.8	-1,641.73	78.7	1,686.9	532.8	12.00	12.00	0.00
<b>START OF TANGENT</b>										
6,785.0	75.00	180.22	6,231.0	-1,670.90	-1.0	1,686.6	607.1	12.00	12.00	0.00
6,800.0	75.00	180.22	6,234.9	-1,674.78	-15.5	1,686.6	620.6	0.00	0.00	0.00
<b>END OF TANGENT</b>										
6,885.0	75.00	180.22	6,256.9	-1,696.78	-97.6	1,686.3	697.1	0.00	0.00	0.00
6,900.0	76.80	180.22	6,260.5	-1,700.43	-112.1	1,686.2	710.7	12.00	12.00	0.00
7,000.0	88.80	180.22	6,273.0	-1,712.94	-211.2	1,685.8	803.0	12.00	12.00	0.00
<b>HZ LP: 589.1ft FNL &amp; 2126.8ft FWL of Sec 36</b>										
7,010.0	90.00	180.22	6,273.1	-1,713.05	-221.2	1,685.8	812.3	11.99	11.99	0.00
7,100.0	90.00	180.22	6,273.1	-1,713.05	-311.2	1,685.5	896.1	0.00	0.00	0.00
7,200.0	90.00	180.22	6,273.1	-1,713.05	-411.2	1,685.1	989.3	0.00	0.00	0.00
7,300.0	90.00	180.22	6,273.1	-1,713.05	-511.2	1,684.7	1,082.5	0.00	0.00	0.00
7,400.0	90.00	180.22	6,273.1	-1,713.05	-611.2	1,684.3	1,175.7	0.00	0.00	0.00
7,500.0	90.00	180.22	6,273.1	-1,713.05	-711.2	1,683.9	1,268.9	0.00	0.00	0.00
7,600.0	90.00	180.22	6,273.1	-1,713.05	-811.2	1,683.5	1,362.0	0.00	0.00	0.00
7,700.0	90.00	180.22	6,273.1	-1,713.05	-911.2	1,683.2	1,455.2	0.00	0.00	0.00
7,800.0	90.00	180.22	6,273.1	-1,713.05	-1,011.2	1,682.8	1,548.4	0.00	0.00	0.00
7,900.0	90.00	180.22	6,273.1	-1,713.04	-1,111.2	1,682.4	1,641.6	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE NORTH PLATTE K21-O24-36HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4560.1usft
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4560.1usft
<b>Site:</b>	NW NW SEC. 36 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE NORTH PLATTE K21-O24-36HNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## 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)
8,000.0	90.00	180.22	6,273.1	-1,713.04	-1,211.2	1,682.0	1,734.8	0.00	0.00	0.00
8,100.0	90.00	180.22	6,273.1	-1,713.04	-1,311.2	1,681.6	1,827.9	0.00	0.00	0.00
8,200.0	90.00	180.22	6,273.1	-1,713.04	-1,411.1	1,681.2	1,921.1	0.00	0.00	0.00
8,300.0	90.00	180.22	6,273.1	-1,713.04	-1,511.1	1,680.9	2,014.3	0.00	0.00	0.00
8,400.0	90.00	180.22	6,273.1	-1,713.04	-1,611.1	1,680.5	2,107.5	0.00	0.00	0.00
8,500.0	90.00	180.22	6,273.1	-1,713.04	-1,711.1	1,680.1	2,200.7	0.00	0.00	0.00
8,600.0	90.00	180.22	6,273.1	-1,713.04	-1,811.1	1,679.7	2,293.8	0.00	0.00	0.00
8,700.0	90.00	180.22	6,273.1	-1,713.04	-1,911.1	1,679.3	2,387.0	0.00	0.00	0.00
8,800.0	90.00	180.22	6,273.1	-1,713.04	-2,011.1	1,678.9	2,480.2	0.00	0.00	0.00
8,900.0	90.00	180.22	6,273.1	-1,713.04	-2,111.1	1,678.6	2,573.4	0.00	0.00	0.00
9,000.0	90.00	180.22	6,273.1	-1,713.04	-2,211.1	1,678.2	2,666.6	0.00	0.00	0.00
9,100.0	90.00	180.22	6,273.1	-1,713.03	-2,311.1	1,677.8	2,759.7	0.00	0.00	0.00
9,200.0	90.00	180.22	6,273.1	-1,713.03	-2,411.1	1,677.4	2,852.9	0.00	0.00	0.00
9,300.0	90.00	180.22	6,273.1	-1,713.03	-2,511.1	1,677.0	2,946.1	0.00	0.00	0.00
9,400.0	90.00	180.22	6,273.1	-1,713.03	-2,611.1	1,676.7	3,039.3	0.00	0.00	0.00
9,500.0	90.00	180.22	6,273.1	-1,713.03	-2,711.1	1,676.3	3,132.5	0.00	0.00	0.00
9,600.0	90.00	180.22	6,273.1	-1,713.03	-2,811.1	1,675.9	3,225.6	0.00	0.00	0.00
9,700.0	90.00	180.22	6,273.1	-1,713.03	-2,911.1	1,675.5	3,318.8	0.00	0.00	0.00
9,800.0	90.00	180.22	6,273.1	-1,713.03	-3,011.1	1,675.1	3,412.0	0.00	0.00	0.00
9,900.0	90.00	180.22	6,273.1	-1,713.02	-3,111.1	1,674.8	3,505.2	0.00	0.00	0.00
10,000.0	90.00	180.22	6,273.1	-1,713.02	-3,211.1	1,674.4	3,598.4	0.00	0.00	0.00
10,100.0	90.00	180.22	6,273.1	-1,713.02	-3,311.1	1,674.0	3,691.5	0.00	0.00	0.00
10,200.0	90.00	180.22	6,273.1	-1,713.02	-3,411.1	1,673.6	3,784.7	0.00	0.00	0.00
10,300.0	90.00	180.22	6,273.1	-1,713.02	-3,511.1	1,673.2	3,877.9	0.00	0.00	0.00
10,400.0	90.00	180.22	6,273.1	-1,713.02	-3,611.1	1,672.9	3,971.1	0.00	0.00	0.00
10,500.0	90.00	180.22	6,273.1	-1,713.01	-3,711.1	1,672.5	4,064.3	0.00	0.00	0.00
10,600.0	90.00	180.22	6,273.1	-1,713.01	-3,811.1	1,672.1	4,157.4	0.00	0.00	0.00
10,700.0	90.00	180.22	6,273.1	-1,713.01	-3,911.1	1,671.7	4,250.6	0.00	0.00	0.00
10,800.0	90.00	180.22	6,273.1	-1,713.01	-4,011.1	1,671.4	4,343.8	0.00	0.00	0.00
10,900.0	90.00	180.22	6,273.1	-1,713.00	-4,111.1	1,671.0	4,437.0	0.00	0.00	0.00
11,000.0	90.00	180.22	6,273.1	-1,713.00	-4,211.1	1,670.6	4,530.2	0.00	0.00	0.00
11,100.0	90.00	180.22	6,273.1	-1,713.00	-4,311.1	1,670.2	4,623.4	0.00	0.00	0.00
<b>BHL: 470ft FSL &amp; 2163ft FWL of Sec 36</b>										
<b>11,125.2</b>	<b>90.00</b>	<b>180.22</b>	<b>6,273.1</b>	<b>-1,713.00</b>	<b>-4,336.3</b>	<b>1,670.1</b>	<b>4,646.8</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well STATE NORTH PLATTE K21-O24-36HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4560.1usft
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4560.1usft
<b>Site:</b>	NW NW SEC. 36 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	STATE NORTH PLATTE K21-O24-36HNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #2		

## Plan Annotations

MD (usft)	TVD (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
0.0	0.0	0.0	0.0	SHL: 356ft FNL & 439ft FWL of Sec 36
300.0	300.0	0.0	0.0	START NUDGE (2°/100ft BUR)
550.0	549.7	-5.5	9.4	EOB TO 5° INC
1,417.2	1,413.6	-43.2	74.9	END OF TANGENT
1,604.3	1,600.0	-45.3	89.9	SURFACE CASING
1,704.3	1,699.7	-43.2	98.3	END OF TANGENT
3,046.3	2,961.3	58.3	506.1	EOB TO 31.84° INC
4,537.9	4,228.4	248.7	1,269.7	END OF TANGENT
6,130.0	5,739.8	352.9	1,688.0	EOD TO VERTICAL
6,160.0	5,769.8	352.9	1,688.0	KOP (12°/100ft BUR)
6,785.0	6,231.0	-1.0	1,686.6	START OF TANGENT
6,885.0	6,256.9	-97.6	1,686.3	END OF TANGENT
7,010.0	6,273.1	-221.2	1,685.8	HZ LP: 589.1ft FNL & 2126.8ft FWL of Sec 36
11,125.2	6,273.1	-4,336.3	1,670.1	BHL: 470ft FSL & 2163ft FWL of Sec 36