

# **BONANZA CREEK ENERGY INC.**

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

**NW NW SEC. 13 T5N R63W 6th P.M.**

**NORTH PLATTE F-J-13HNC**

**ORIGINAL WELLBORE**

**25 June, 2014**

**Plan: PROPOSAL #2**





Project: WELD COUNTY, COLORADO (NAD 83)  
 Site: NW NW SEC. 13 T5N R63W 6th P.M.  
 Well: NORTH PLATTE F-J-13HNC  
 Wellbore: ORIGINAL WELLBORE  
 Design: PROPOSAL #2

ANNOTATIONS

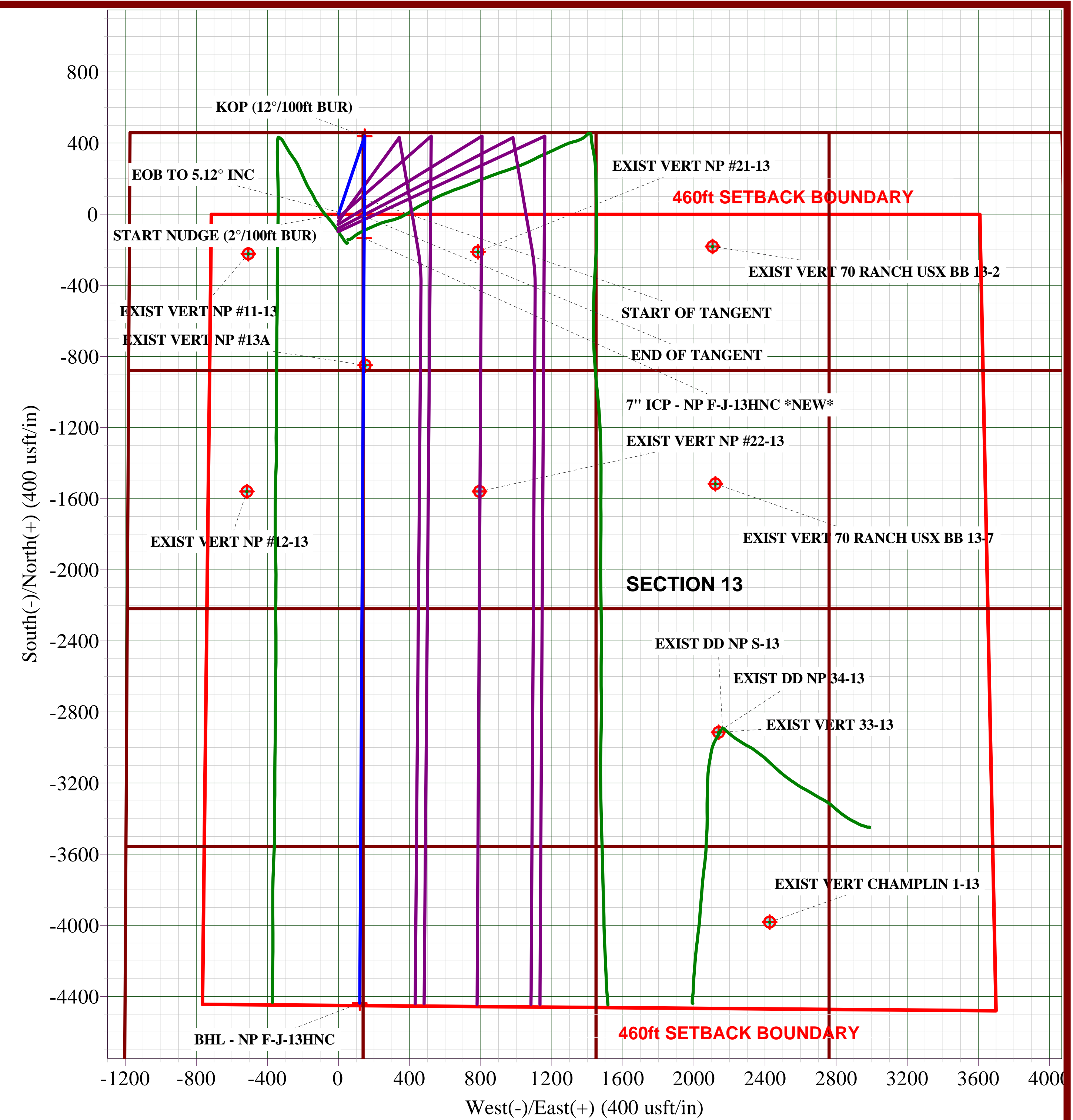
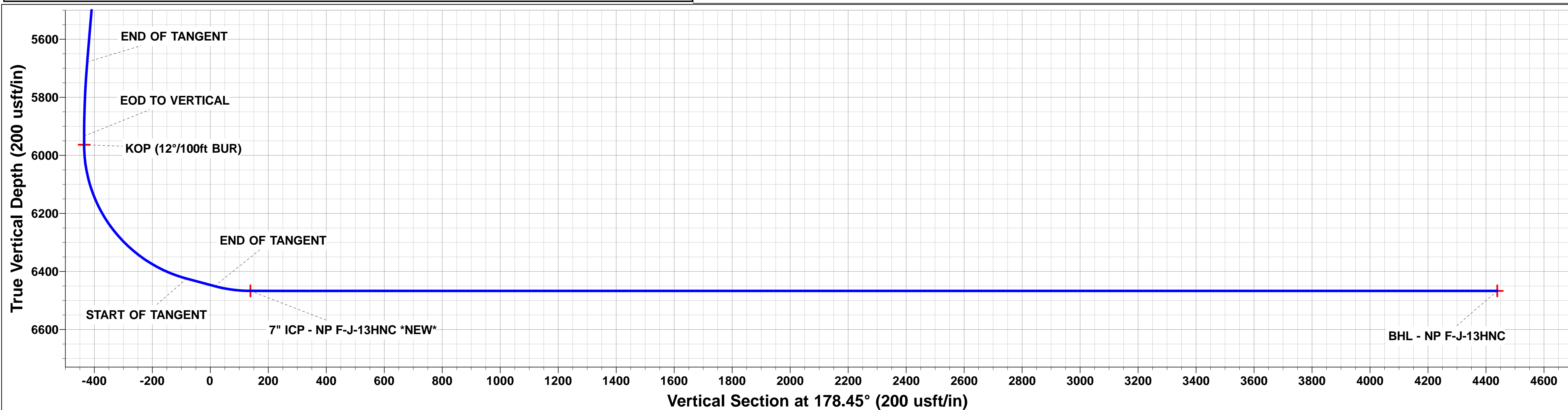
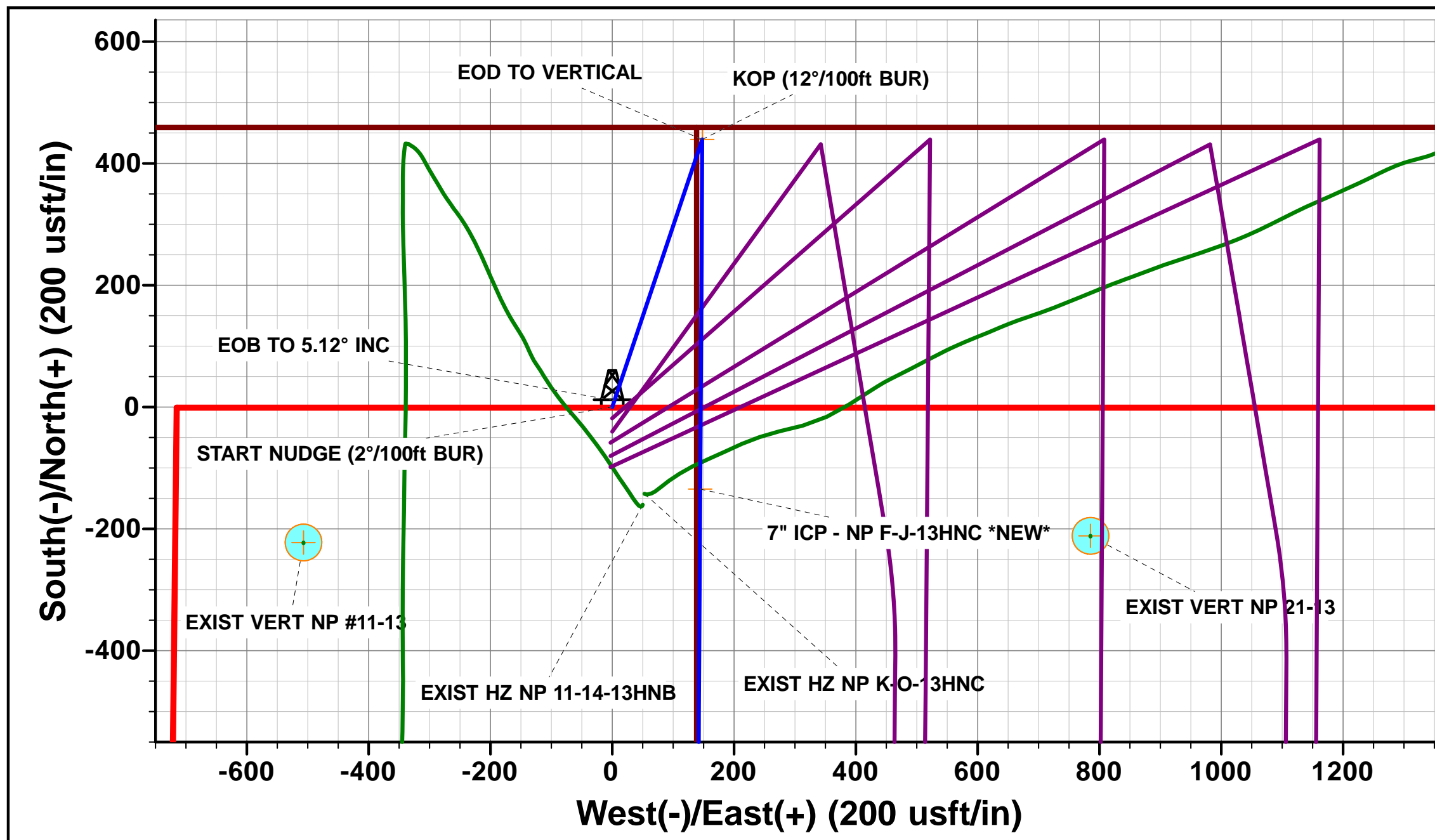
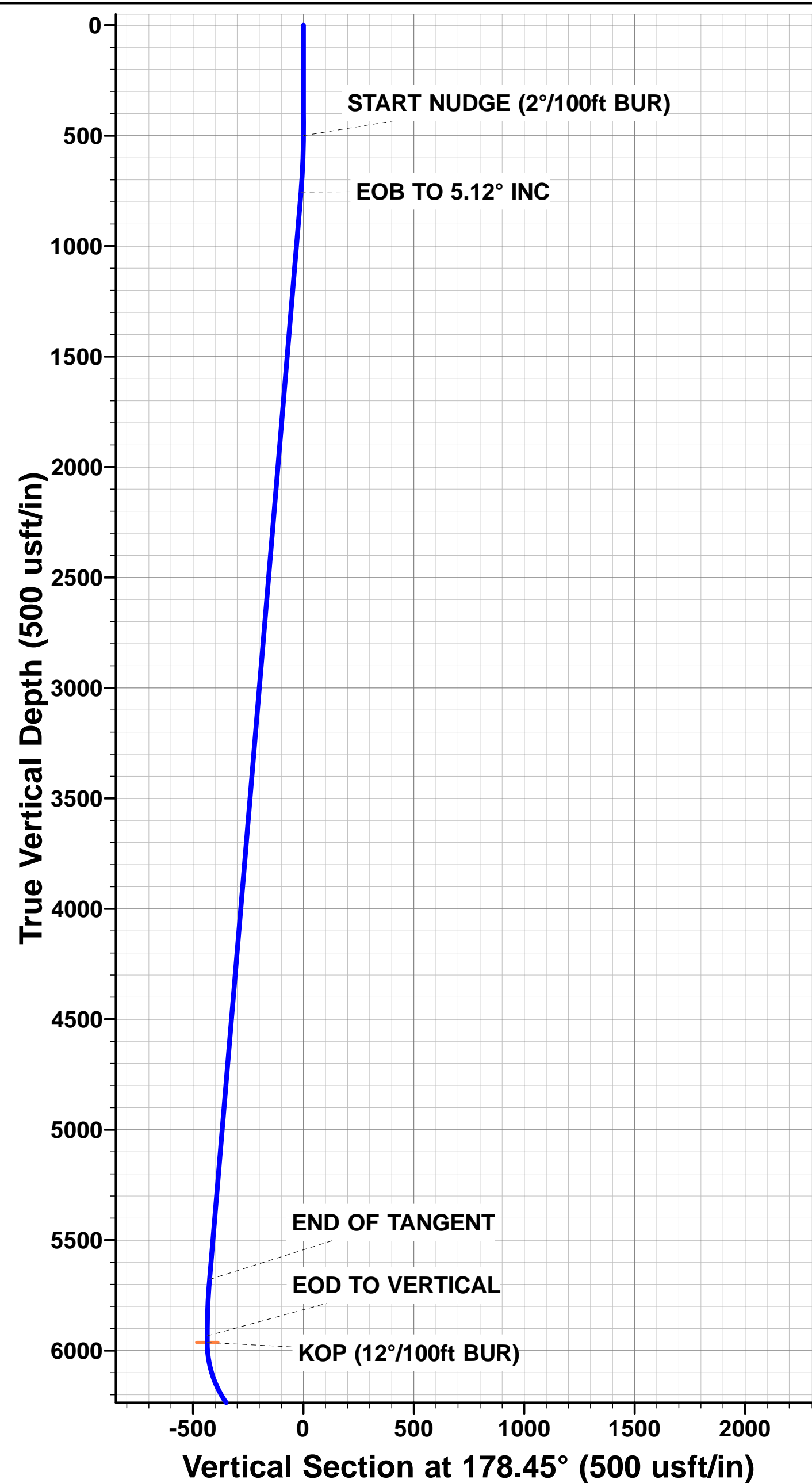
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
500.0	500.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDDGE (2°/100ft BUR)
755.5	755.9	5.12	18.59	10.8	3.6	-10.7	11.4	EOB TO 5.12° INC
5678.2	5698.2	5.12	18.59	428.7	144.2	-424.6	452.3	END OF TANGENT
5933.7	5954.1	0.00	0.00	439.5	147.8	-435.4	463.7	EOD TO VERTICAL
5963.7	5984.1	0.00	0.00	439.5	147.8	-435.4	463.7	KOP (12°/100ft BUR)
6424.9	6609.1	75.00	180.33	85.6	145.8	-81.7	817.6	START OF TANGENT
6450.8	6709.1	75.00	180.33	-11.0	145.2	14.9	914.2	END OF TANGENT
6467.0	6834.1	90.00	180.33	-134.5	144.5	138.4	1037.7	7" ICP - NP F-J-13HNC *NEW*
6467.0	11136.9	90.00	180.33	-4437.3	119.8	4438.9	5340.6	BHL - NP F-J-13HNC

PROPOSED LOCAL COORDINATES:

SHL: 453ft FNL & 1174ft FWL Sec 13  
 7" ICP \*NEW\*: 589ft FNL & 1320ft FWL Sec 13  
 BHL: 470ft FSL & 1320ft FWL Sec 13

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - NP F-J-13HNC	5963.7	439.5	147.8	40.406596	-104.389539
7" ICP - NP F-J-13HNC *NEW*	6467.0	-134.5	144.5	40.405021	-104.389551
BHL - NP F-J-13HNC	6467.0	-4437.3	119.8	40.393210	-104.389640



Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NORTH PLATTE F-J-13HNC
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Site:</b>	NW NW SEC. 13 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	NORTH PLATTE F-J-13HNC	<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. 13 T5N R63W 6th P.M.				
<b>Site Position:</b>		<b>Northing:</b>	1,392,344.59 usft	<b>Latitude:</b>	40.405076
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,309,139.22 usft	<b>Longitude:</b>	-104.389914
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft	<b>Grid Convergence:</b>	0.72 °

<b>Well</b>	NORTH PLATTE F-J-13HNC					
<b>Well Position</b>	<b>+N-S</b>	114.4 usft	<b>Northing:</b>	1,392,458.41 usft	<b>Latitude:</b>	40.405390
	<b>+E-W</b>	-43.4 usft	<b>Easting:</b>	3,309,094.35 usft	<b>Longitude:</b>	-104.390070
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	4,641.0 usft

<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>
	IGRF2010	24/06/2014	8.25	67.01	52,856

<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	178.45

<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	-4,658.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	-4,158.0	0.0	0.0	0.00	0.00	0.00	0.00	
755.9	5.12	18.59	755.5	-3,902.5	10.8	3.6	2.00	2.00	0.00	18.59	
5,698.2	5.12	18.59	5,678.2	1,020.2	428.7	144.2	0.00	0.00	0.00	0.00	
5,954.1	0.00	0.00	5,933.7	1,275.7	439.5	147.8	2.00	-2.00	0.00	180.00	
5,984.1	0.00	0.00	5,963.7	1,305.7	439.5	147.8	0.00	0.00	0.00	0.00	KOP - NP F-J-13HN
6,609.1	75.00	180.33	6,424.9	1,766.9	85.6	145.8	12.00	12.00	0.00	180.33	
6,709.1	75.00	180.33	6,450.8	1,792.8	-11.0	145.2	0.00	0.00	0.00	0.00	
6,834.1	90.00	180.33	6,467.0	1,809.0	-134.5	144.5	12.00	12.00	0.00	0.00	
11,136.9	90.00	180.33	6,467.0	1,809.0	-4,437.3	119.8	0.00	0.00	0.00	-54.29	BHL - NP F-J-13HN

Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NORTH PLATTE F-J-13HNC
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Site:</b>	NW NW SEC. 13 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	NORTH PLATTE F-J-13HNC	<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)
0.0	0.00	0.00	0.0	4,658.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,558.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,458.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,358.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,258.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
<b>500.0</b>	<b>0.00</b>	<b>0.00</b>	<b>500.0</b>	<b>4,158.00</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>
600.0	2.00	18.59	600.0	4,058.02	1.7	0.6	-1.6	2.00	2.00	0.00
700.0	4.00	18.59	699.8	3,958.16	6.6	2.2	-6.6	2.00	2.00	0.00
<b>EOB TO 5.12° INC</b>										
<b>755.9</b>	<b>5.12</b>	<b>18.59</b>	<b>755.5</b>	<b>3,902.47</b>	<b>10.8</b>	<b>3.6</b>	<b>-10.7</b>	<b>2.00</b>	<b>2.00</b>	<b>0.00</b>
800.0	5.12	18.59	799.5	3,858.52	14.6	4.9	-14.4	0.00	0.00	0.00
900.0	5.12	18.59	899.1	3,758.91	23.0	7.7	-22.8	0.00	0.00	0.00
1,000.0	5.12	18.59	998.7	3,659.31	31.5	10.6	-31.2	0.00	0.00	0.00
1,100.0	5.12	18.59	1,098.3	3,559.71	39.9	13.4	-39.5	0.00	0.00	0.00
1,200.0	5.12	18.59	1,197.9	3,460.11	48.4	16.3	-47.9	0.00	0.00	0.00
1,300.0	5.12	18.59	1,297.5	3,360.51	56.8	19.1	-56.3	0.00	0.00	0.00
1,400.0	5.12	18.59	1,397.1	3,260.91	65.3	22.0	-64.7	0.00	0.00	0.00
1,500.0	5.12	18.59	1,496.7	3,161.31	73.7	24.8	-73.0	0.00	0.00	0.00
1,600.0	5.12	18.59	1,596.3	3,061.70	82.2	27.6	-81.4	0.00	0.00	0.00
1,700.0	5.12	18.59	1,695.9	2,962.10	90.6	30.5	-89.8	0.00	0.00	0.00
1,800.0	5.12	18.59	1,795.5	2,862.50	99.1	33.3	-98.2	0.00	0.00	0.00
1,900.0	5.12	18.59	1,895.1	2,762.90	107.6	36.2	-106.5	0.00	0.00	0.00
2,000.0	5.12	18.59	1,994.7	2,663.30	116.0	39.0	-114.9	0.00	0.00	0.00
2,100.0	5.12	18.59	2,094.3	2,563.70	124.5	41.9	-123.3	0.00	0.00	0.00
2,200.0	5.12	18.59	2,193.9	2,464.10	132.9	44.7	-131.7	0.00	0.00	0.00
2,300.0	5.12	18.59	2,293.5	2,364.50	141.4	47.5	-140.0	0.00	0.00	0.00
2,400.0	5.12	18.59	2,393.1	2,264.89	149.8	50.4	-148.4	0.00	0.00	0.00
2,500.0	5.12	18.59	2,492.7	2,165.29	158.3	53.2	-156.8	0.00	0.00	0.00
2,600.0	5.12	18.59	2,592.3	2,065.69	166.7	56.1	-165.2	0.00	0.00	0.00
2,700.0	5.12	18.59	2,691.9	1,966.09	175.2	58.9	-173.5	0.00	0.00	0.00
2,800.0	5.12	18.59	2,791.5	1,866.49	183.6	61.8	-181.9	0.00	0.00	0.00
2,900.0	5.12	18.59	2,891.1	1,766.89	192.1	64.6	-190.3	0.00	0.00	0.00
3,000.0	5.12	18.59	2,990.7	1,667.29	200.6	67.4	-198.7	0.00	0.00	0.00
3,100.0	5.12	18.59	3,090.3	1,567.68	209.0	70.3	-207.0	0.00	0.00	0.00
3,200.0	5.12	18.59	3,189.9	1,468.08	217.5	73.1	-215.4	0.00	0.00	0.00
3,300.0	5.12	18.59	3,289.5	1,368.48	225.9	76.0	-223.8	0.00	0.00	0.00
3,400.0	5.12	18.59	3,389.1	1,268.88	234.4	78.8	-232.2	0.00	0.00	0.00
3,500.0	5.12	18.59	3,488.7	1,169.28	242.8	81.7	-240.5	0.00	0.00	0.00
3,600.0	5.12	18.59	3,588.3	1,069.68	251.3	84.5	-248.9	0.00	0.00	0.00
3,700.0	5.12	18.59	3,687.9	970.08	259.7	87.3	-257.3	0.00	0.00	0.00
3,800.0	5.12	18.59	3,787.5	870.47	268.2	90.2	-265.7	0.00	0.00	0.00
3,900.0	5.12	18.59	3,887.1	770.87	276.6	93.0	-274.0	0.00	0.00	0.00
4,000.0	5.12	18.59	3,986.7	671.27	285.1	95.9	-282.4	0.00	0.00	0.00
4,100.0	5.12	18.59	4,086.3	571.67	293.6	98.7	-290.8	0.00	0.00	0.00
4,200.0	5.12	18.59	4,185.9	472.07	302.0	101.6	-299.2	0.00	0.00	0.00
4,300.0	5.12	18.59	4,285.5	372.47	310.5	104.4	-307.5	0.00	0.00	0.00
4,400.0	5.12	18.59	4,385.1	272.87	318.9	107.2	-315.9	0.00	0.00	0.00
4,500.0	5.12	18.59	4,484.7	173.26	327.4	110.1	-324.3	0.00	0.00	0.00
4,600.0	5.12	18.59	4,584.3	73.66	335.8	112.9	-332.7	0.00	0.00	0.00
4,700.0	5.12	18.59	4,683.9	-25.94	344.3	115.8	-341.0	0.00	0.00	0.00
4,800.0	5.12	18.59	4,783.5	-125.54	352.7	118.6	-349.4	0.00	0.00	0.00
4,900.0	5.12	18.59	4,883.1	-225.14	361.2	121.5	-357.8	0.00	0.00	0.00
5,000.0	5.12	18.59	4,982.7	-324.74	369.6	124.3	-366.2	0.00	0.00	0.00

Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NORTH PLATTE F-J-13HNC
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Site:</b>	NW NW SEC. 13 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	NORTH PLATTE F-J-13HNC	<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)
5,100.0	5.12	18.59	5,082.3	-424.34	378.1	127.2	-374.5	0.00	0.00	0.00
5,200.0	5.12	18.59	5,181.9	-523.94	386.6	130.0	-382.9	0.00	0.00	0.00
5,300.0	5.12	18.59	5,281.5	-623.55	395.0	132.8	-391.3	0.00	0.00	0.00
5,400.0	5.12	18.59	5,381.1	-723.15	403.5	135.7	-399.7	0.00	0.00	0.00
5,500.0	5.12	18.59	5,480.7	-822.75	411.9	138.5	-408.0	0.00	0.00	0.00
5,600.0	5.12	18.59	5,580.4	-922.35	420.4	141.4	-416.4	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>5,698.2</b>	<b>5.12</b>	<b>18.59</b>	<b>5,678.2</b>	<b>-1,020.17</b>	<b>428.7</b>	<b>144.2</b>	<b>-424.6</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,700.0	5.08	18.59	5,680.0	-1,021.95	428.8	144.2	-424.8	2.00	-2.00	0.00
5,800.0	3.08	18.59	5,779.7	-1,121.69	435.6	146.5	-431.5	2.00	-2.00	0.00
5,900.0	1.08	18.59	5,879.6	-1,221.62	439.0	147.6	-434.9	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
<b>5,954.1</b>	<b>0.00</b>	<b>0.00</b>	<b>5,933.7</b>	<b>-1,275.70</b>	<b>439.5</b>	<b>147.8</b>	<b>-435.4</b>	<b>2.00</b>	<b>-2.00</b>	<b>-34.37</b>
<b>KOP (12°/100ft BUR)</b>										
<b>5,984.1</b>	<b>0.00</b>	<b>0.00</b>	<b>5,963.7</b>	<b>-1,305.70</b>	<b>439.5</b>	<b>147.8</b>	<b>-435.4</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,000.0	1.91	180.33	5,979.6	-1,321.62	439.2	147.8	-435.1	12.00	12.00	0.00
6,100.0	13.91	180.33	6,078.5	-1,420.48	425.5	147.7	-421.4	12.00	12.00	0.00
6,200.0	25.91	180.33	6,172.3	-1,514.33	391.5	147.5	-387.4	12.00	12.00	0.00
6,300.0	37.91	180.33	6,257.1	-1,599.07	338.7	147.2	-334.7	12.00	12.00	0.00
6,400.0	49.91	180.33	6,329.0	-1,670.98	269.5	146.8	-265.5	12.00	12.00	0.00
6,500.0	61.91	180.33	6,384.9	-1,726.92	186.9	146.3	-182.8	12.00	12.00	0.00
6,600.0	73.91	180.33	6,422.5	-1,764.46	94.4	145.8	-90.4	12.00	12.00	0.00
<b>START OF TANGENT</b>										
<b>6,609.1</b>	<b>75.00</b>	<b>180.33</b>	<b>6,424.9</b>	<b>-1,766.90</b>	<b>85.6</b>	<b>145.8</b>	<b>-81.7</b>	<b>12.00</b>	<b>12.00</b>	<b>0.00</b>
6,700.0	75.00	180.33	6,448.4	-1,790.43	-2.2	145.3	6.1	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>6,709.1</b>	<b>75.00</b>	<b>180.33</b>	<b>6,450.8</b>	<b>-1,792.78</b>	<b>-11.0</b>	<b>145.2</b>	<b>14.9</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,800.0	85.91	180.33	6,465.8	-1,807.83	-100.5	144.7	104.4	12.00	12.00	0.00
<b>7" ICP - NP F-J-13HNC *NEW*</b>										
<b>6,834.1</b>	<b>90.00</b>	<b>180.33</b>	<b>6,467.0</b>	<b>-1,809.05</b>	<b>-134.5</b>	<b>144.5</b>	<b>138.4</b>	<b>12.00</b>	<b>12.00</b>	<b>0.00</b>
6,900.0	90.00	180.33	6,467.0	-1,809.05	-200.5	144.1	204.3	0.00	0.00	0.00
7,000.0	90.00	180.33	6,467.0	-1,809.05	-300.5	143.5	304.2	0.00	0.00	0.00
7,100.0	90.00	180.33	6,467.0	-1,809.05	-400.5	143.0	404.2	0.00	0.00	0.00
7,200.0	90.00	180.33	6,467.0	-1,809.05	-500.5	142.4	504.1	0.00	0.00	0.00
7,300.0	90.00	180.33	6,467.0	-1,809.05	-600.5	141.8	604.1	0.00	0.00	0.00
7,400.0	90.00	180.33	6,467.0	-1,809.05	-700.5	141.2	704.0	0.00	0.00	0.00
7,500.0	90.00	180.33	6,467.0	-1,809.05	-800.5	140.7	804.0	0.00	0.00	0.00
7,600.0	90.00	180.33	6,467.0	-1,809.05	-900.4	140.1	903.9	0.00	0.00	0.00
7,700.0	90.00	180.33	6,467.0	-1,809.04	-1,000.4	139.5	1,003.8	0.00	0.00	0.00
7,800.0	90.00	180.33	6,467.0	-1,809.04	-1,100.4	138.9	1,103.8	0.00	0.00	0.00
7,900.0	90.00	180.33	6,467.0	-1,809.04	-1,200.4	138.4	1,203.7	0.00	0.00	0.00
8,000.0	90.00	180.33	6,467.0	-1,809.04	-1,300.4	137.8	1,303.7	0.00	0.00	0.00
8,100.0	90.00	180.33	6,467.0	-1,809.04	-1,400.4	137.2	1,403.6	0.00	0.00	0.00
8,200.0	90.00	180.33	6,467.0	-1,809.04	-1,500.4	136.6	1,503.6	0.00	0.00	0.00
8,300.0	90.00	180.33	6,467.0	-1,809.04	-1,600.4	136.1	1,603.5	0.00	0.00	0.00
8,400.0	90.00	180.33	6,467.0	-1,809.04	-1,700.4	135.5	1,703.5	0.00	0.00	0.00
8,500.0	90.00	180.33	6,467.0	-1,809.04	-1,800.4	134.9	1,803.4	0.00	0.00	0.00
8,600.0	90.00	180.33	6,467.0	-1,809.04	-1,900.4	134.3	1,903.4	0.00	0.00	0.00
8,700.0	90.00	180.33	6,467.0	-1,809.04	-2,000.4	133.8	2,003.3	0.00	0.00	0.00
8,800.0	90.00	180.33	6,467.0	-1,809.04	-2,100.4	133.2	2,103.3	0.00	0.00	0.00
8,900.0	90.00	180.33	6,467.0	-1,809.04	-2,200.4	132.6	2,203.2	0.00	0.00	0.00
9,000.0	90.00	180.33	6,467.0	-1,809.03	-2,300.4	132.0	2,303.2	0.00	0.00	0.00
9,100.0	90.00	180.33	6,467.0	-1,809.03	-2,400.4	131.5	2,403.1	0.00	0.00	0.00

Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well NORTH PLATTE F-J-13HNC
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4658.0usft (Original Well Elev)
<b>Site:</b>	NW NW SEC. 13 T5N R63W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	NORTH PLATTE F-J-13HNC	<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)
9,200.0	90.00	180.33	6,467.0	-1,809.03	-2,500.4	130.9	2,503.0	0.00	0.00	0.00
9,300.0	90.00	180.33	6,467.0	-1,809.03	-2,600.4	130.3	2,603.0	0.00	0.00	0.00
9,400.0	90.00	180.33	6,467.0	-1,809.03	-2,700.4	129.7	2,702.9	0.00	0.00	0.00
9,500.0	90.00	180.33	6,467.0	-1,809.03	-2,800.4	129.2	2,802.9	0.00	0.00	0.00
9,600.0	90.00	180.33	6,467.0	-1,809.03	-2,900.4	128.6	2,902.8	0.00	0.00	0.00
9,700.0	90.00	180.33	6,467.0	-1,809.03	-3,000.4	128.0	3,002.8	0.00	0.00	0.00
9,800.0	90.00	180.33	6,467.0	-1,809.02	-3,100.4	127.4	3,102.7	0.00	0.00	0.00
9,900.0	90.00	180.33	6,467.0	-1,809.02	-3,200.4	126.9	3,202.7	0.00	0.00	0.00
10,000.0	90.00	180.33	6,467.0	-1,809.02	-3,300.4	126.3	3,302.6	0.00	0.00	0.00
10,100.0	90.00	180.33	6,467.0	-1,809.02	-3,400.4	125.7	3,402.6	0.00	0.00	0.00
10,200.0	90.00	180.33	6,467.0	-1,809.02	-3,500.4	125.1	3,502.5	0.00	0.00	0.00
10,300.0	90.00	180.33	6,467.0	-1,809.02	-3,600.4	124.6	3,602.5	0.00	0.00	0.00
10,400.0	90.00	180.33	6,467.0	-1,809.01	-3,700.4	124.0	3,702.4	0.00	0.00	0.00
10,500.0	90.00	180.33	6,467.0	-1,809.01	-3,800.4	123.4	3,802.3	0.00	0.00	0.00
10,600.0	90.00	180.33	6,467.0	-1,809.01	-3,900.4	122.9	3,902.3	0.00	0.00	0.00
10,700.0	90.00	180.33	6,467.0	-1,809.01	-4,000.4	122.3	4,002.2	0.00	0.00	0.00
10,800.0	90.00	180.33	6,467.0	-1,809.01	-4,100.4	121.7	4,102.2	0.00	0.00	0.00
10,900.0	90.00	180.33	6,467.0	-1,809.01	-4,200.4	121.1	4,202.1	0.00	0.00	0.00
11,000.0	90.00	180.33	6,467.0	-1,809.00	-4,300.4	120.6	4,302.1	0.00	0.00	0.00
11,100.0	90.00	180.33	6,467.0	-1,809.00	-4,400.4	120.0	4,402.0	0.00	0.00	0.00
<b>BHL - NP F-J-13HNC</b>										
<b>11,136.9</b>	<b>90.00</b>	<b>180.33</b>	<b>6,467.0</b>	<b>-1,809.00</b>	<b>-4,437.3</b>	<b>119.8</b>	<b>4,438.9</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)	
500.0	500.0	0.0	0.0	START NUDGE (2°/100ft BUR)
755.9	755.5	10.8	3.6	EOB TO 5.12° INC
5,698.2	5,678.2	428.7	144.2	END OF TANGENT
5,954.1	5,933.7	439.5	147.8	EOD TO VERTICAL
5,984.1	5,963.7	439.5	147.8	KOP (12°/100ft BUR)
6,609.1	6,424.9	85.6	145.8	START OF TANGENT
6,709.1	6,450.8	-11.0	145.2	END OF TANGENT
6,834.1	6,467.0	-134.5	144.5	7" ICP - NP F-J-13HNC *NEW*
11,136.9	6,467.0	-4,437.3	119.8	BHL - NP F-J-13HNC