

**BONANZA CREEK ENERGY INC.**

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

**NE NW SEC. 18 T5N R61W 6th P.M.**

**PRONGHORN J-7-6XRLNB - OPT 2**

**OPTION 2**

**14 January, 2016**

**Plan: PROPOSAL #3**





Project: WELD COUNTY, COLORADO (NAD 83)  
 Site: NE NW SEC. 18 T5N R61W 6th P.M.  
 Well: PRONGHORN J-7-6XRLNB - OPT 2  
 Wellbore: OPTION 2  
 Design: PROPOSAL #3

ANNOTATIONS

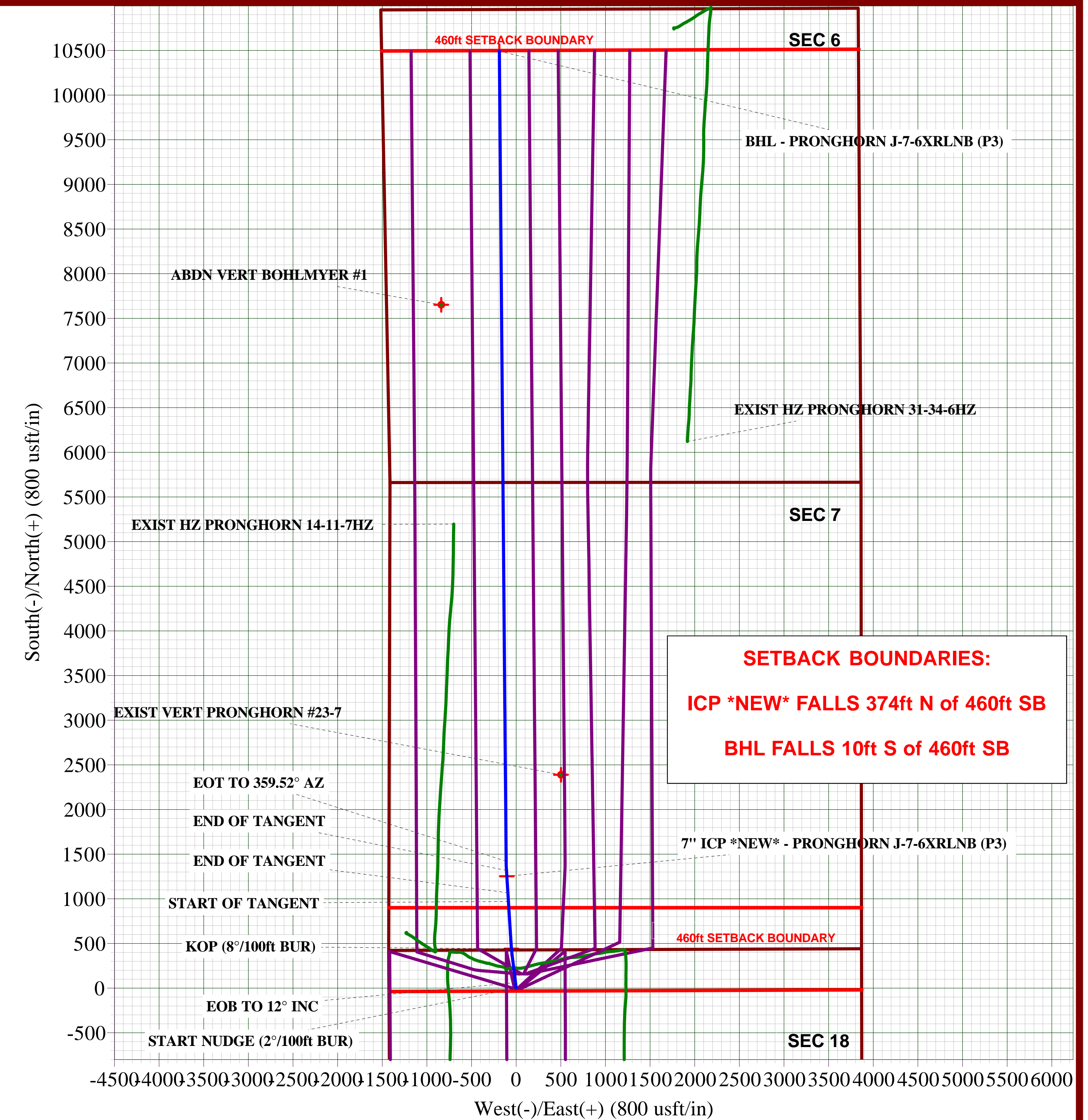
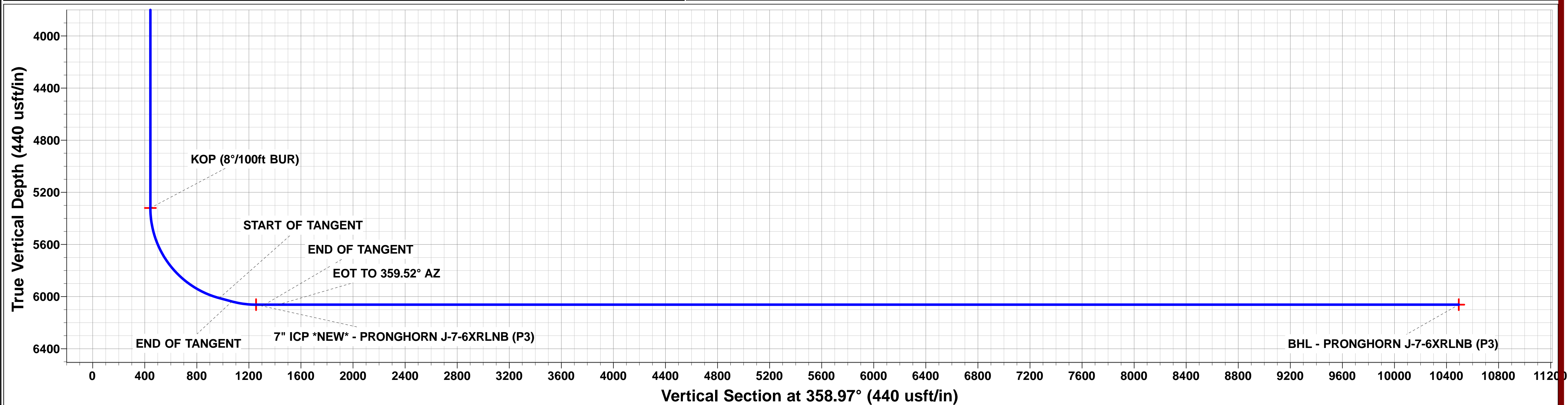
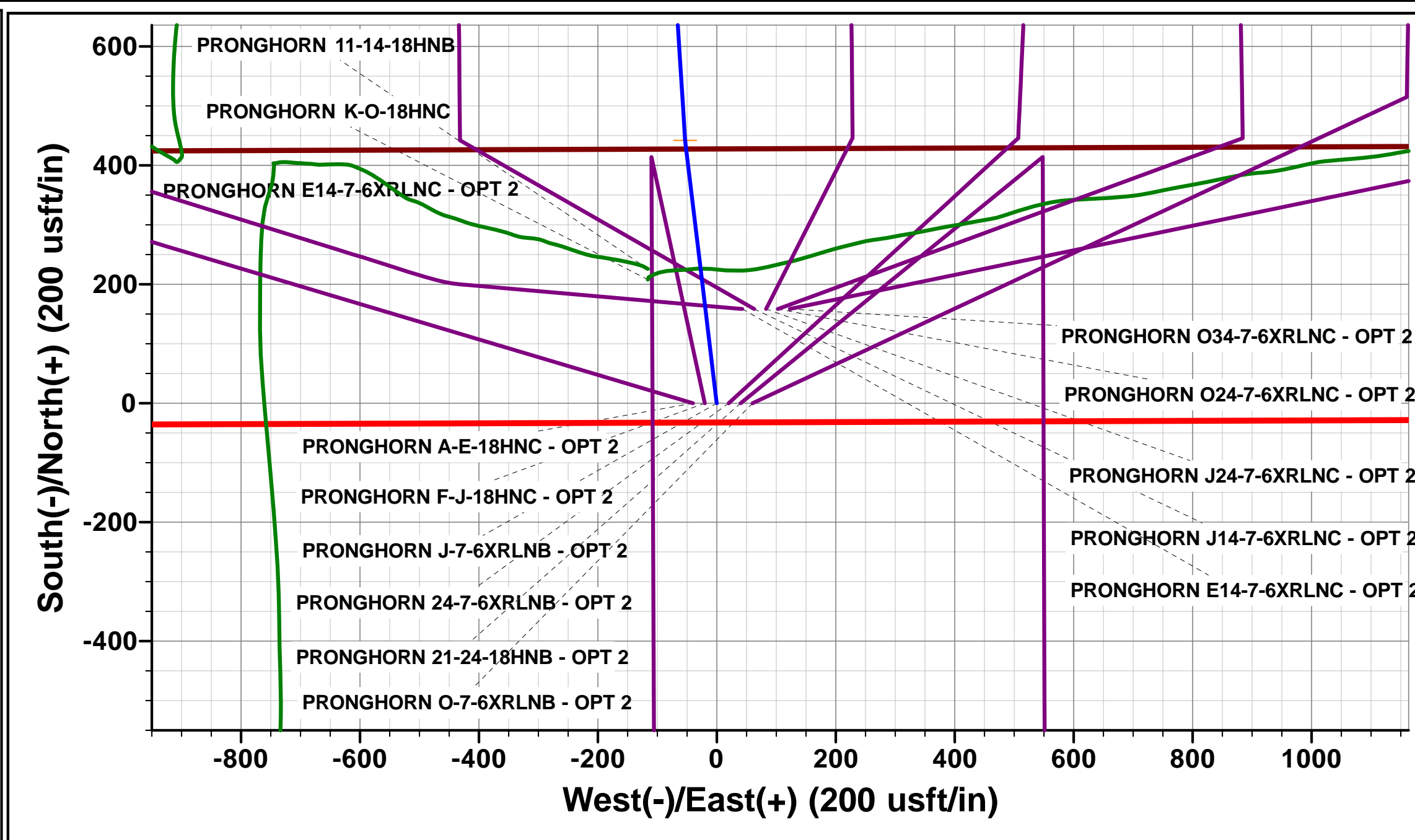
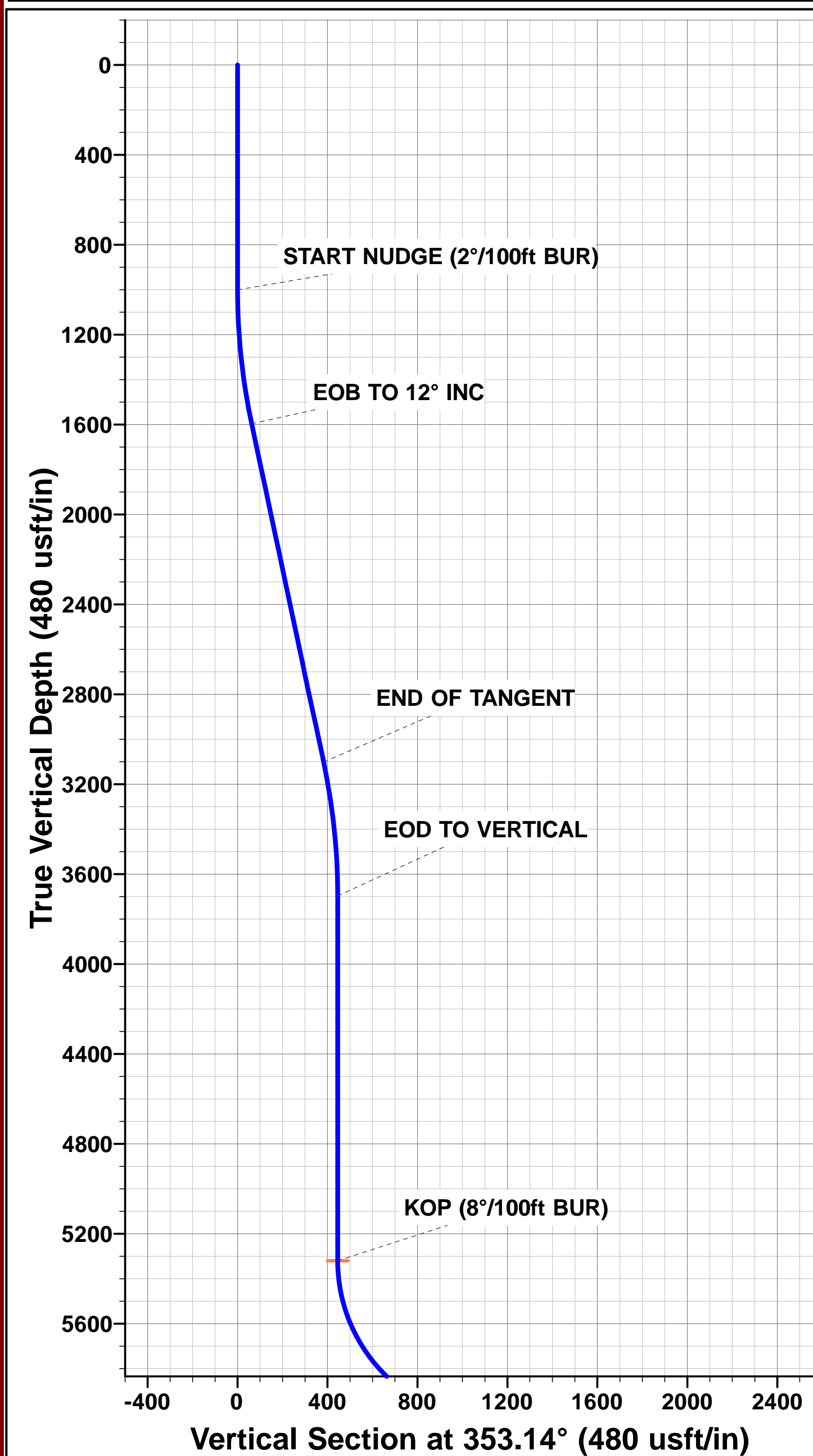
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
1000.0	1000.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1595.7	1600.1	12.00	353.14	62.2	-7.5	62.3	62.6	EOB TO 12° INC
3101.2	3139.2	12.00	353.14	379.9	-45.7	380.7	382.7	END OF TANGENT
3696.9	3739.3	0.00	353.14	442.1	-53.2	443.0	445.3	EOD TO VERTICAL
5319.9	5362.3	0.00	0.00	442.1	-53.2	443.0	445.3	KOP (8°/100ft BUR)
6011.7	6299.8	75.00	356.40	971.9	-86.5	973.3	976.1	START OF TANGENT
6037.6	6399.8	75.00	356.40	1068.3	-92.6	1069.8	1072.7	END OF TANGENT
6062.0	6587.3	90.00	356.40	1253.3	-104.2	1255.0	1258.1	7" ICP *NEW* - PRONGHORN J-7-6XRLNB (P3)
6062.0	6652.3	90.00	356.40	1318.2	-108.3	1319.9	1323.1	END OF TANGENT
6062.0	6756.3	90.00	359.52	1422.1	-112.0	1423.9	1427.1	EOT TO 359.52° AZ
6062.0	15826.8	90.00	359.52	10492.2	-188.2	10493.9	10497.5	BHL - PRONGHORN J-7-6XRLNB (P3)

PROPOSED LOCAL COORDINATES:

SHL: 419ft FNL & 1427ft FWL Sec 18  
 7" ICP \*NEW\*: 834ft FSL & 1333.2ft FWL Sec 7  
 BHL: 470ft FNL & 1320ft FWL Sec 6

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PRONGHORN J-7-6XRLNB (P3)	5319.9	442.1	-53.2	40.408544	-104.256965
7" ICP *NEW* - PRONGHORN J-7-6XRLNB (P3)	6062.0	1253.3	-104.2	40.410770	-104.257148
BHL - PRONGHORN J-7-6XRLNB (P3)	6062.0	10492.2	-188.2	40.436130	-104.257450





<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN J-7-6XRLNB - OPT 2
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Site:</b>	NE NW SEC. 18 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN J-7-6XRLNB - OPT 2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OPTION 2		
<b>Design:</b>	PROPOSAL #3		

<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>	NE NW SEC. 18 T5N R61W 6th P.M.				
<b>Site Position:</b>		<b>Northing:</b>	1,393,885.48 usft	<b>Latitude:</b>	40.407960
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,346,083.48 usft	<b>Longitude:</b>	-104.257190
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft	<b>Grid Convergence:</b>	0.80 °

<b>Well</b>	PRONGHORN J-7-6XRLNB - OPT 2					
<b>Well Position</b>	<b>+N-S</b>	-229.5 usft	<b>Northing:</b>	1,393,657.61 usft	<b>Latitude:</b>	40.407330
	<b>+E-W</b>	115.9 usft	<b>Easting:</b>	3,346,202.54 usft	<b>Longitude:</b>	-104.256774
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	4,565.0 usft

<b>Wellbore</b>	OPTION 2				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	09/11/2015	8.11	66.98	52,634

<b>Design</b>	PROPOSAL #3			
<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	358.97

<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	-4,582.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	-3,582.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.1	12.00	353.14	1,595.7	-2,986.3	62.2	-7.5	2.00	2.00	0.00	353.14	
3,139.2	12.00	353.14	3,101.2	-1,480.8	379.9	-45.7	0.00	0.00	0.00	0.00	
3,739.3	0.00	0.00	3,696.9	-885.1	442.1	-53.2	2.00	-2.00	0.00	180.00	
5,362.3	0.00	0.00	5,319.9	737.9	442.1	-53.2	0.00	0.00	0.00	0.00	KOP - PRONGHOF
6,299.8	75.00	356.40	6,011.7	1,429.7	971.9	-86.5	8.00	8.00	0.00	356.40	
6,399.8	75.00	356.40	6,037.6	1,455.6	1,068.3	-92.6	0.00	0.00	0.00	0.00	
6,587.3	90.00	356.40	6,062.0	1,480.0	1,253.3	-104.2	8.00	8.00	0.00	0.00	
6,652.3	90.00	356.40	6,062.0	1,480.0	1,318.2	-108.3	0.00	0.00	0.00	0.00	
6,756.3	90.00	359.52	6,062.0	1,480.0	1,422.1	-112.0	3.00	0.00	3.00	90.00	
15,826.8	90.00	359.52	6,062.0	1,480.0	10,492.2	-188.2	0.00	0.00	0.00	0.00	BHL - PRONGHOR



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN J-7-6XRLNB - OPT 2
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Site:</b>	NE NW SEC. 18 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN J-7-6XRLNB - OPT 2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OPTION 2		
<b>Design:</b>	PROPOSAL #3		

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	4,582.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,482.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,382.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,282.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,182.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,082.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	3,982.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,882.00	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	3,782.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	3,682.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDDGE (2°/100ft BUR)</b>										
1,000.0	0.00	0.00	1,000.0	3,582.00	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	2.00	353.14	1,100.0	3,482.02	1.7	-0.2	1.7	2.00	2.00	0.00
1,200.0	4.00	353.14	1,199.8	3,382.16	6.9	-0.8	6.9	2.00	2.00	0.00
1,300.0	6.00	353.14	1,299.5	3,282.55	15.6	-1.9	15.6	2.00	2.00	0.00
1,400.0	8.00	353.14	1,398.7	3,183.30	27.7	-3.3	27.7	2.00	2.00	0.00
1,500.0	10.00	353.14	1,497.5	3,084.53	43.2	-5.2	43.3	2.00	2.00	0.00
1,600.0	12.00	353.14	1,595.6	2,986.38	62.2	-7.5	62.3	2.00	2.00	0.00
<b>EOB TO 12° INC</b>										
1,600.1	12.00	353.14	1,595.7	2,986.28	62.2	-7.5	62.3	2.00	2.00	0.00
1,700.0	12.00	353.14	1,693.4	2,888.56	82.8	-10.0	83.0	0.00	0.00	0.00
1,800.0	12.00	353.14	1,791.3	2,790.75	103.4	-12.5	103.7	0.00	0.00	0.00
1,900.0	12.00	353.14	1,889.1	2,692.94	124.1	-14.9	124.3	0.00	0.00	0.00
2,000.0	12.00	353.14	1,986.9	2,595.12	144.7	-17.4	145.0	0.00	0.00	0.00
2,100.0	12.00	353.14	2,084.7	2,497.31	165.4	-19.9	165.7	0.00	0.00	0.00
2,200.0	12.00	353.14	2,182.5	2,399.49	186.0	-22.4	186.4	0.00	0.00	0.00
2,300.0	12.00	353.14	2,280.3	2,301.68	206.7	-24.9	207.1	0.00	0.00	0.00
2,400.0	12.00	353.14	2,378.1	2,203.87	227.3	-27.4	227.8	0.00	0.00	0.00
2,500.0	12.00	353.14	2,475.9	2,106.05	248.0	-29.8	248.5	0.00	0.00	0.00
2,600.0	12.00	353.14	2,573.8	2,008.24	268.6	-32.3	269.2	0.00	0.00	0.00
2,700.0	12.00	353.14	2,671.6	1,910.42	289.3	-34.8	289.8	0.00	0.00	0.00
2,800.0	12.00	353.14	2,769.4	1,812.61	309.9	-37.3	310.5	0.00	0.00	0.00
2,900.0	12.00	353.14	2,867.2	1,714.80	330.6	-39.8	331.2	0.00	0.00	0.00
3,000.0	12.00	353.14	2,965.0	1,616.98	351.2	-42.3	351.9	0.00	0.00	0.00
3,100.0	12.00	353.14	3,062.8	1,519.17	371.8	-44.8	372.6	0.00	0.00	0.00
<b>END OF TANGENT</b>										
3,139.2	12.00	353.14	3,101.2	1,480.82	379.9	-45.7	380.7	0.00	0.00	0.00
3,200.0	10.79	353.14	3,160.8	1,421.22	391.9	-47.2	392.6	2.00	-2.00	0.00
3,300.0	8.79	353.14	3,259.3	1,322.68	408.7	-49.2	409.6	2.00	-2.00	0.00
3,400.0	6.79	353.14	3,358.4	1,223.61	422.2	-50.8	423.0	2.00	-2.00	0.00
3,500.0	4.79	353.14	3,457.9	1,124.13	432.2	-52.0	433.1	2.00	-2.00	0.00
3,600.0	2.79	353.14	3,557.7	1,024.35	438.8	-52.8	439.6	2.00	-2.00	0.00
3,700.0	0.79	353.14	3,657.6	924.40	441.8	-53.2	442.7	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
3,739.3	0.00	353.14	3,696.9	885.10	442.1	-53.2	443.0	2.00	-2.00	0.00
3,800.0	0.00	0.00	3,757.6	824.40	442.1	-53.2	443.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,857.6	724.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,957.6	624.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,057.6	524.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,157.6	424.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,257.6	324.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,357.6	224.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,457.6	124.40	442.1	-53.2	443.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,557.6	24.40	442.1	-53.2	443.0	0.00	0.00	0.00



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<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Site:</b>	NE NW SEC. 18 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN J-7-6XRLNB - OPT 2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OPTION 2		
<b>Design:</b>	PROPOSAL #3		

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)
4,700.0	0.00	0.00	4,657.6	-75.60	442.1	-53.2	443.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,757.6	-175.60	442.1	-53.2	443.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,857.6	-275.60	442.1	-53.2	443.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,957.6	-375.60	442.1	-53.2	443.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,057.6	-475.60	442.1	-53.2	443.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,157.6	-575.60	442.1	-53.2	443.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,257.6	-675.60	442.1	-53.2	443.0	0.00	0.00	0.00
<b>KOP (8°/100ft BUR)</b>										
<b>5,362.3</b>	<b>0.00</b>	<b>0.00</b>	<b>5,319.9</b>	<b>-737.90</b>	<b>442.1</b>	<b>-53.2</b>	<b>443.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,400.0	3.02	356.40	5,357.6	-775.58	443.1	-53.3	444.0	8.00	8.00	0.00
5,500.0	11.02	356.40	5,456.7	-874.75	455.3	-54.0	456.2	8.00	8.00	0.00
5,600.0	19.02	356.40	5,553.3	-971.26	481.1	-55.7	482.0	8.00	8.00	0.00
5,700.0	27.02	356.40	5,645.2	-1,063.22	520.1	-58.1	521.1	8.00	8.00	0.00
5,800.0	35.02	356.40	5,730.9	-1,148.85	571.5	-61.4	572.5	8.00	8.00	0.00
5,900.0	43.02	356.40	5,808.5	-1,226.49	634.3	-65.3	635.3	8.00	8.00	0.00
6,000.0	51.02	356.40	5,876.6	-1,294.61	707.2	-69.9	708.4	8.00	8.00	0.00
6,100.0	59.02	356.40	5,933.9	-1,351.90	788.9	-75.0	790.1	8.00	8.00	0.00
6,200.0	67.02	356.40	5,979.2	-1,397.24	877.8	-80.6	879.1	8.00	8.00	0.00
<b>START OF TANGENT</b>										
<b>6,299.8</b>	<b>75.00</b>	<b>356.40</b>	<b>6,011.7</b>	<b>-1,429.69</b>	<b>971.9</b>	<b>-86.5</b>	<b>973.3</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
6,300.0	75.00	356.40	6,011.7	-1,429.74	972.1	-86.6	973.5	0.15	0.15	0.00
<b>END OF TANGENT</b>										
<b>6,399.8</b>	<b>75.00</b>	<b>356.40</b>	<b>6,037.6</b>	<b>-1,455.57</b>	<b>1,068.3</b>	<b>-92.6</b>	<b>1,069.8</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,400.0	75.00	356.40	6,037.6	-1,455.63	1,068.5	-92.6	1,070.0	0.00	0.00	0.00
6,500.0	83.02	356.40	6,056.7	-1,474.66	1,166.4	-98.8	1,168.0	8.02	8.02	0.00
<b>7" ICP *NEW* - PRONGHORN J-7-6XRLNB (P3)</b>										
<b>6,587.3</b>	<b>90.00</b>	<b>356.40</b>	<b>6,062.0</b>	<b>-1,479.98</b>	<b>1,253.3</b>	<b>-104.2</b>	<b>1,255.0</b>	<b>8.00</b>	<b>8.00</b>	<b>0.00</b>
6,600.0	90.00	356.40	6,062.0	-1,479.98	1,266.0	-105.0	1,267.6	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>6,652.3</b>	<b>90.00</b>	<b>356.40</b>	<b>6,062.0</b>	<b>-1,479.98</b>	<b>1,318.2</b>	<b>-108.3</b>	<b>1,319.9</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,700.0	90.00	357.83	6,062.0	-1,479.98	1,365.8	-110.7	1,367.6	3.00	0.00	3.00
<b>EOT TO 359.52° AZ</b>										
<b>6,756.3</b>	<b>90.00</b>	<b>359.52</b>	<b>6,062.0</b>	<b>-1,479.98</b>	<b>1,422.1</b>	<b>-112.0</b>	<b>1,423.9</b>	<b>3.00</b>	<b>0.00</b>	<b>3.00</b>
6,800.0	90.00	359.52	6,062.0	-1,479.98	1,465.8	-112.4	1,467.6	0.00	0.00	0.00
6,900.0	90.00	359.52	6,062.0	-1,479.98	1,565.8	-113.2	1,567.6	0.00	0.00	0.00
7,000.0	90.00	359.52	6,062.0	-1,479.98	1,665.8	-114.1	1,667.6	0.00	0.00	0.00
7,100.0	90.00	359.52	6,062.0	-1,479.98	1,765.8	-114.9	1,767.6	0.00	0.00	0.00
7,200.0	90.00	359.52	6,062.0	-1,479.98	1,865.8	-115.8	1,867.5	0.00	0.00	0.00
7,300.0	90.00	359.52	6,062.0	-1,479.98	1,965.8	-116.6	1,967.5	0.00	0.00	0.00
7,400.0	90.00	359.52	6,062.0	-1,479.98	2,065.8	-117.4	2,067.5	0.00	0.00	0.00
7,500.0	90.00	359.52	6,062.0	-1,479.98	2,165.8	-118.3	2,167.5	0.00	0.00	0.00
7,600.0	90.00	359.52	6,062.0	-1,479.98	2,265.8	-119.1	2,267.5	0.00	0.00	0.00
7,700.0	90.00	359.52	6,062.0	-1,479.98	2,365.8	-120.0	2,367.5	0.00	0.00	0.00
7,800.0	90.00	359.52	6,062.0	-1,479.98	2,465.8	-120.8	2,467.5	0.00	0.00	0.00
7,900.0	90.00	359.52	6,062.0	-1,479.98	2,565.7	-121.6	2,567.5	0.00	0.00	0.00
8,000.0	90.00	359.52	6,062.0	-1,479.98	2,665.7	-122.5	2,667.5	0.00	0.00	0.00
8,100.0	90.00	359.52	6,062.0	-1,479.98	2,765.7	-123.3	2,767.5	0.00	0.00	0.00
8,200.0	90.00	359.52	6,062.0	-1,479.98	2,865.7	-124.2	2,867.5	0.00	0.00	0.00
8,300.0	90.00	359.52	6,062.0	-1,479.98	2,965.7	-125.0	2,967.5	0.00	0.00	0.00
8,400.0	90.00	359.52	6,062.0	-1,479.98	3,065.7	-125.8	3,067.5	0.00	0.00	0.00
8,500.0	90.00	359.52	6,062.0	-1,479.98	3,165.7	-126.7	3,167.5	0.00	0.00	0.00
8,600.0	90.00	359.52	6,062.0	-1,479.98	3,265.7	-127.5	3,267.5	0.00	0.00	0.00
8,700.0	90.00	359.52	6,062.0	-1,479.98	3,365.7	-128.3	3,367.5	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN J-7-6XRLNB - OPT 2
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Site:</b>	NE NW SEC. 18 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN J-7-6XRLNB - OPT 2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OPTION 2		
<b>Design:</b>	PROPOSAL #3		

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)
8,800.0	90.00	359.52	6,062.0	-1,479.98	3,465.7	-129.2	3,467.5	0.00	0.00	0.00
8,900.0	90.00	359.52	6,062.0	-1,479.98	3,565.7	-130.0	3,567.5	0.00	0.00	0.00
9,000.0	90.00	359.52	6,062.0	-1,479.98	3,665.7	-130.9	3,667.5	0.00	0.00	0.00
9,100.0	90.00	359.52	6,062.0	-1,479.98	3,765.7	-131.7	3,767.5	0.00	0.00	0.00
9,200.0	90.00	359.52	6,062.0	-1,479.98	3,865.7	-132.5	3,867.5	0.00	0.00	0.00
9,300.0	90.00	359.52	6,062.0	-1,479.99	3,965.7	-133.4	3,967.5	0.00	0.00	0.00
9,400.0	90.00	359.52	6,062.0	-1,479.99	4,065.7	-134.2	4,067.4	0.00	0.00	0.00
9,500.0	90.00	359.52	6,062.0	-1,479.99	4,165.7	-135.1	4,167.4	0.00	0.00	0.00
9,600.0	90.00	359.52	6,062.0	-1,479.99	4,265.7	-135.9	4,267.4	0.00	0.00	0.00
9,700.0	90.00	359.52	6,062.0	-1,479.99	4,365.7	-136.7	4,367.4	0.00	0.00	0.00
9,800.0	90.00	359.52	6,062.0	-1,479.99	4,465.7	-137.6	4,467.4	0.00	0.00	0.00
9,900.0	90.00	359.52	6,062.0	-1,479.99	4,565.7	-138.4	4,567.4	0.00	0.00	0.00
10,000.0	90.00	359.52	6,062.0	-1,479.99	4,665.7	-139.3	4,667.4	0.00	0.00	0.00
10,100.0	90.00	359.52	6,062.0	-1,479.99	4,765.7	-140.1	4,767.4	0.00	0.00	0.00
10,200.0	90.00	359.52	6,062.0	-1,479.99	4,865.7	-140.9	4,867.4	0.00	0.00	0.00
10,300.0	90.00	359.52	6,062.0	-1,479.99	4,965.7	-141.8	4,967.4	0.00	0.00	0.00
10,400.0	90.00	359.52	6,062.0	-1,479.99	5,065.7	-142.6	5,067.4	0.00	0.00	0.00
10,500.0	90.00	359.52	6,062.0	-1,479.99	5,165.7	-143.5	5,167.4	0.00	0.00	0.00
10,600.0	90.00	359.52	6,062.0	-1,479.99	5,265.7	-144.3	5,267.4	0.00	0.00	0.00
10,700.0	90.00	359.52	6,062.0	-1,479.99	5,365.6	-145.1	5,367.4	0.00	0.00	0.00
10,800.0	90.00	359.52	6,062.0	-1,479.99	5,465.6	-146.0	5,467.4	0.00	0.00	0.00
10,900.0	90.00	359.52	6,062.0	-1,479.99	5,565.6	-146.8	5,567.4	0.00	0.00	0.00
11,000.0	90.00	359.52	6,062.0	-1,479.99	5,665.6	-147.7	5,667.4	0.00	0.00	0.00
11,100.0	90.00	359.52	6,062.0	-1,479.99	5,765.6	-148.5	5,767.4	0.00	0.00	0.00
11,200.0	90.00	359.52	6,062.0	-1,479.99	5,865.6	-149.3	5,867.4	0.00	0.00	0.00
11,300.0	90.00	359.52	6,062.0	-1,479.99	5,965.6	-150.2	5,967.4	0.00	0.00	0.00
11,400.0	90.00	359.52	6,062.0	-1,479.99	6,065.6	-151.0	6,067.4	0.00	0.00	0.00
11,500.0	90.00	359.52	6,062.0	-1,479.99	6,165.6	-151.9	6,167.4	0.00	0.00	0.00
11,600.0	90.00	359.52	6,062.0	-1,479.99	6,265.6	-152.7	6,267.3	0.00	0.00	0.00
11,700.0	90.00	359.52	6,062.0	-1,479.99	6,365.6	-153.5	6,367.3	0.00	0.00	0.00
11,800.0	90.00	359.52	6,062.0	-1,479.99	6,465.6	-154.4	6,467.3	0.00	0.00	0.00
11,900.0	90.00	359.52	6,062.0	-1,479.99	6,565.6	-155.2	6,567.3	0.00	0.00	0.00
12,000.0	90.00	359.52	6,062.0	-1,479.99	6,665.6	-156.1	6,667.3	0.00	0.00	0.00
12,100.0	90.00	359.52	6,062.0	-1,479.99	6,765.6	-156.9	6,767.3	0.00	0.00	0.00
12,200.0	90.00	359.52	6,062.0	-1,479.99	6,865.6	-157.7	6,867.3	0.00	0.00	0.00
12,300.0	90.00	359.52	6,062.0	-1,479.99	6,965.6	-158.6	6,967.3	0.00	0.00	0.00
12,400.0	90.00	359.52	6,062.0	-1,479.99	7,065.6	-159.4	7,067.3	0.00	0.00	0.00
12,500.0	90.00	359.52	6,062.0	-1,479.99	7,165.6	-160.3	7,167.3	0.00	0.00	0.00
12,600.0	90.00	359.52	6,062.0	-1,479.99	7,265.6	-161.1	7,267.3	0.00	0.00	0.00
12,700.0	90.00	359.52	6,062.0	-1,479.99	7,365.6	-161.9	7,367.3	0.00	0.00	0.00
12,800.0	90.00	359.52	6,062.0	-1,479.99	7,465.6	-162.8	7,467.3	0.00	0.00	0.00
12,900.0	90.00	359.52	6,062.0	-1,479.99	7,565.6	-163.6	7,567.3	0.00	0.00	0.00
13,000.0	90.00	359.52	6,062.0	-1,479.99	7,665.6	-164.4	7,667.3	0.00	0.00	0.00
13,100.0	90.00	359.52	6,062.0	-1,479.99	7,765.6	-165.3	7,767.3	0.00	0.00	0.00
13,200.0	90.00	359.52	6,062.0	-1,479.99	7,865.6	-166.1	7,867.3	0.00	0.00	0.00
13,300.0	90.00	359.52	6,062.0	-1,479.99	7,965.6	-167.0	7,967.3	0.00	0.00	0.00
13,400.0	90.00	359.52	6,062.0	-1,479.99	8,065.6	-167.8	8,067.3	0.00	0.00	0.00
13,500.0	90.00	359.52	6,062.0	-1,479.99	8,165.6	-168.6	8,167.3	0.00	0.00	0.00
13,600.0	90.00	359.52	6,062.0	-1,479.99	8,265.5	-169.5	8,267.3	0.00	0.00	0.00
13,700.0	90.00	359.52	6,062.0	-1,480.00	8,365.5	-170.3	8,367.3	0.00	0.00	0.00
13,800.0	90.00	359.52	6,062.0	-1,480.00	8,465.5	-171.2	8,467.2	0.00	0.00	0.00
13,900.0	90.00	359.52	6,062.0	-1,480.00	8,565.5	-172.0	8,567.2	0.00	0.00	0.00
14,000.0	90.00	359.52	6,062.0	-1,480.00	8,665.5	-172.8	8,667.2	0.00	0.00	0.00
14,100.0	90.00	359.52	6,062.0	-1,480.00	8,765.5	-173.7	8,767.2	0.00	0.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN J-7-6XRLNB - OPT 2
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4582.0usft (Original Well Elev)
<b>Site:</b>	NE NW SEC. 18 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN J-7-6XRLNB - OPT 2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OPTION 2		
<b>Design:</b>	PROPOSAL #3		

**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)
14,200.0	90.00	359.52	6,062.0	-1,480.00	8,865.5	-174.5	8,867.2	0.00	0.00	0.00
14,300.0	90.00	359.52	6,062.0	-1,480.00	8,965.5	-175.4	8,967.2	0.00	0.00	0.00
14,400.0	90.00	359.52	6,062.0	-1,480.00	9,065.5	-176.2	9,067.2	0.00	0.00	0.00
14,500.0	90.00	359.52	6,062.0	-1,480.00	9,165.5	-177.0	9,167.2	0.00	0.00	0.00
14,600.0	90.00	359.52	6,062.0	-1,480.00	9,265.5	-177.9	9,267.2	0.00	0.00	0.00
14,700.0	90.00	359.52	6,062.0	-1,480.00	9,365.5	-178.7	9,367.2	0.00	0.00	0.00
14,800.0	90.00	359.52	6,062.0	-1,480.00	9,465.5	-179.6	9,467.2	0.00	0.00	0.00
14,900.0	90.00	359.52	6,062.0	-1,480.00	9,565.5	-180.4	9,567.2	0.00	0.00	0.00
15,000.0	90.00	359.52	6,062.0	-1,480.00	9,665.5	-181.2	9,667.2	0.00	0.00	0.00
15,100.0	90.00	359.52	6,062.0	-1,480.00	9,765.5	-182.1	9,767.2	0.00	0.00	0.00
15,200.0	90.00	359.52	6,062.0	-1,480.00	9,865.5	-182.9	9,867.2	0.00	0.00	0.00
15,300.0	90.00	359.52	6,062.0	-1,480.00	9,965.5	-183.8	9,967.2	0.00	0.00	0.00
15,400.0	90.00	359.52	6,062.0	-1,480.00	10,065.5	-184.6	10,067.2	0.00	0.00	0.00
15,500.0	90.00	359.52	6,062.0	-1,480.00	10,165.5	-185.4	10,167.2	0.00	0.00	0.00
15,600.0	90.00	359.52	6,062.0	-1,480.00	10,265.5	-186.3	10,267.2	0.00	0.00	0.00
15,700.0	90.00	359.52	6,062.0	-1,480.00	10,365.5	-187.1	10,367.2	0.00	0.00	0.00
15,800.0	90.00	359.52	6,062.0	-1,480.00	10,465.5	-188.0	10,467.2	0.00	0.00	0.00
<b>BHL - PRONGHORN J-7-6XRLNB (P3)</b>										
<b>15,826.8</b>	<b>90.00</b>	<b>359.52</b>	<b>6,062.0</b>	<b>-1,480.00</b>	<b>10,492.2</b>	<b>-188.2</b>	<b>10,493.9</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)	
1,000.0	1,000.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,600.1	1,595.7	62.2	-7.5	EOB TO 12° INC
3,139.2	3,101.2	379.9	-45.7	END OF TANGENT
3,739.3	3,696.9	442.1	-53.2	EOD TO VERTICAL
5,362.3	5,319.9	442.1	-53.2	KOP (8°/100ft BUR)
6,299.8	6,011.7	971.9	-86.5	START OF TANGENT
6,399.8	6,037.6	1,068.3	-92.6	END OF TANGENT
6,587.3	6,062.0	1,253.3	-104.2	7" ICP *NEW* - PRONGHORN J-7-6XRLNB (P3)
6,652.3	6,062.0	1,318.2	-108.3	END OF TANGENT
6,756.3	6,062.0	1,422.1	-112.0	EOT TO 359.52° AZ
15,826.8	6,062.0	10,492.2	-188.2	BHL - PRONGHORN J-7-6XRLNB (P3)