

# **BONANZA CREEK ENERGY INC.**

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

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

**PRONGHORN 24-7-6XRLNB - OPT 2**

**OPTION 2**

**14 January, 2016**

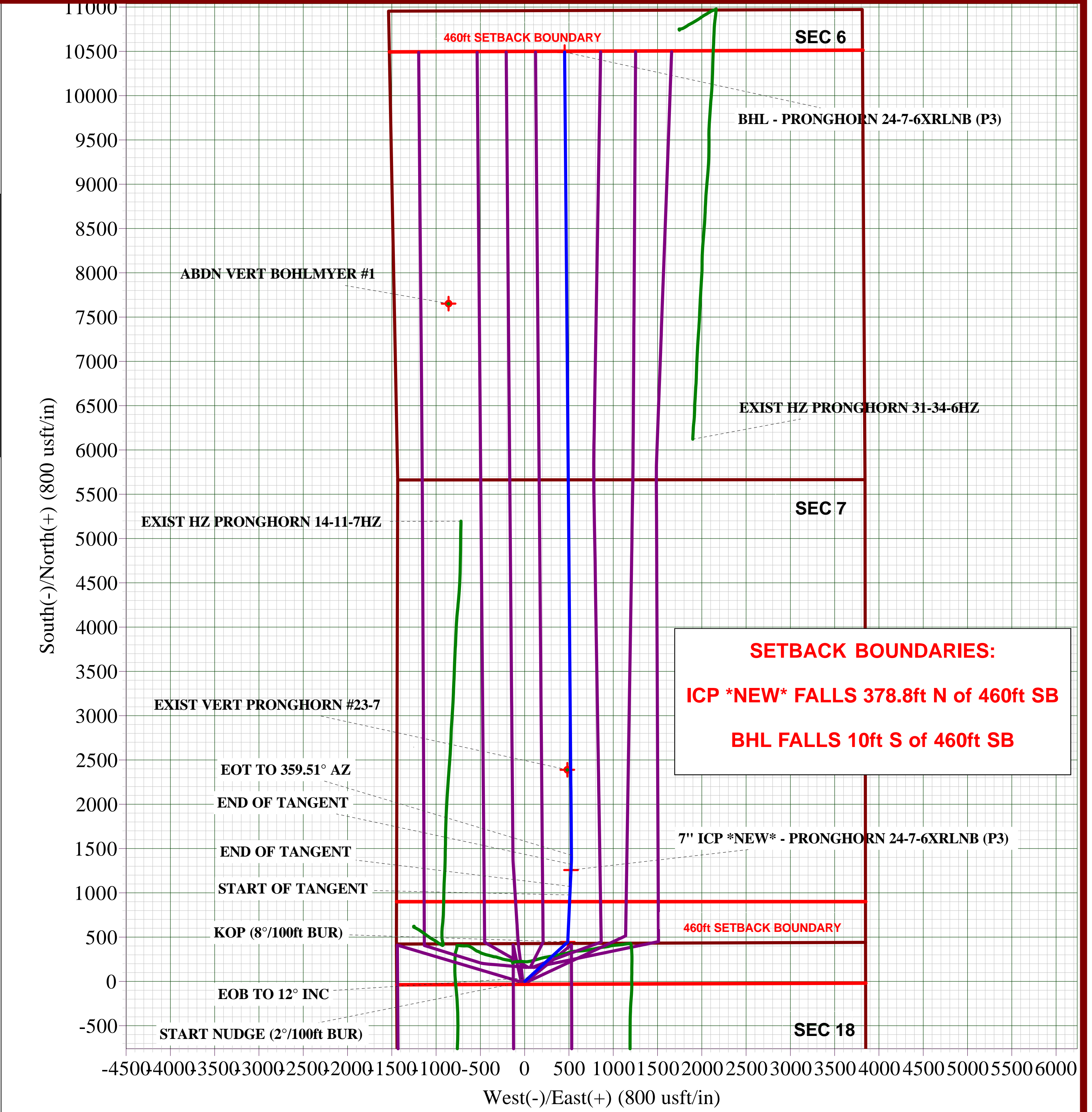
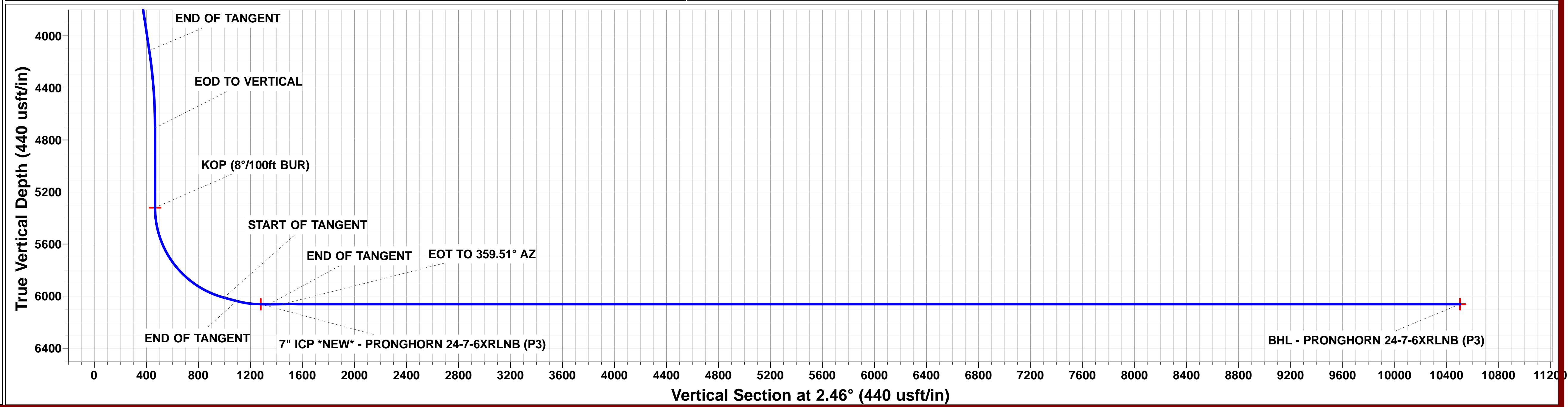
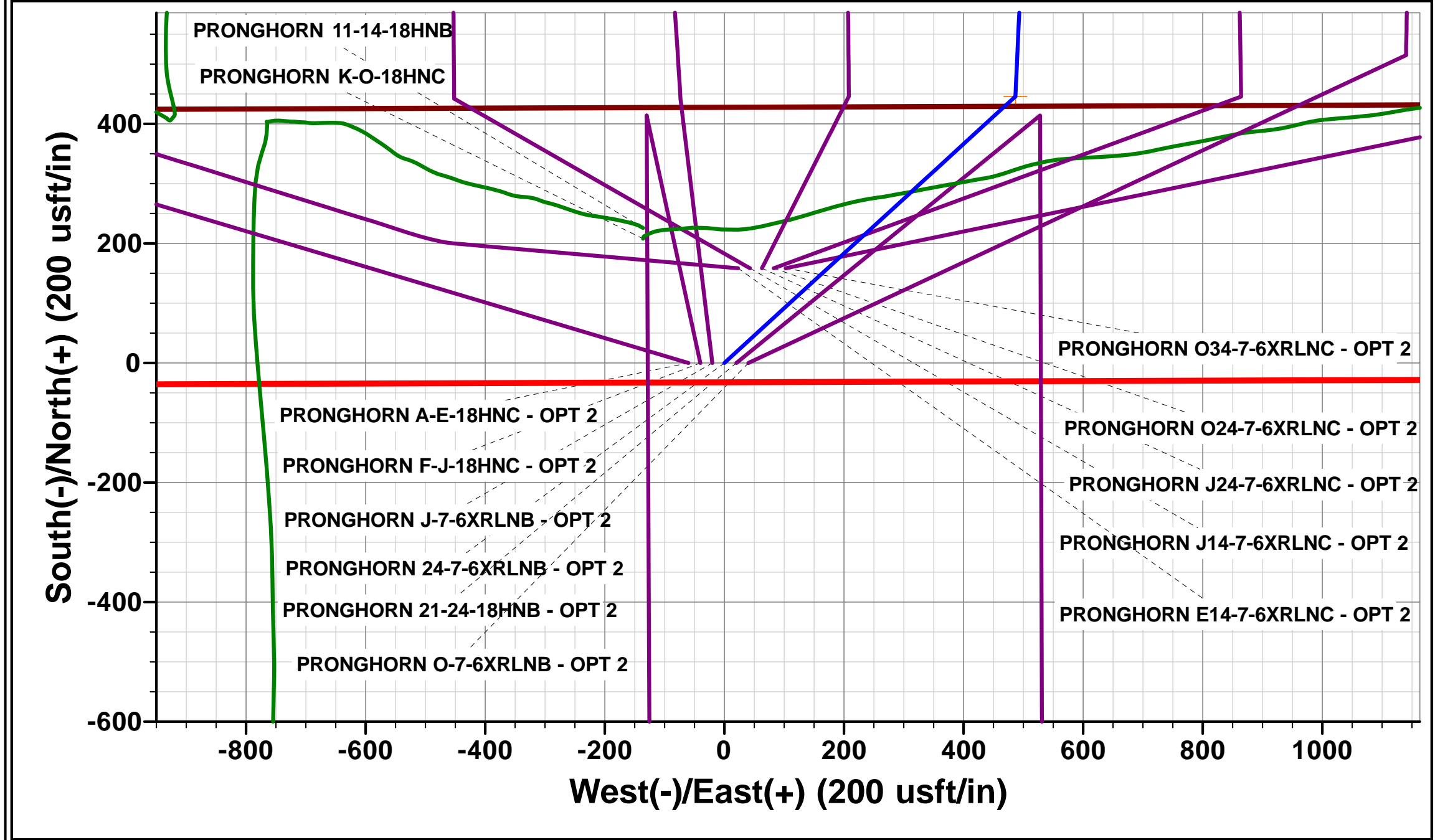
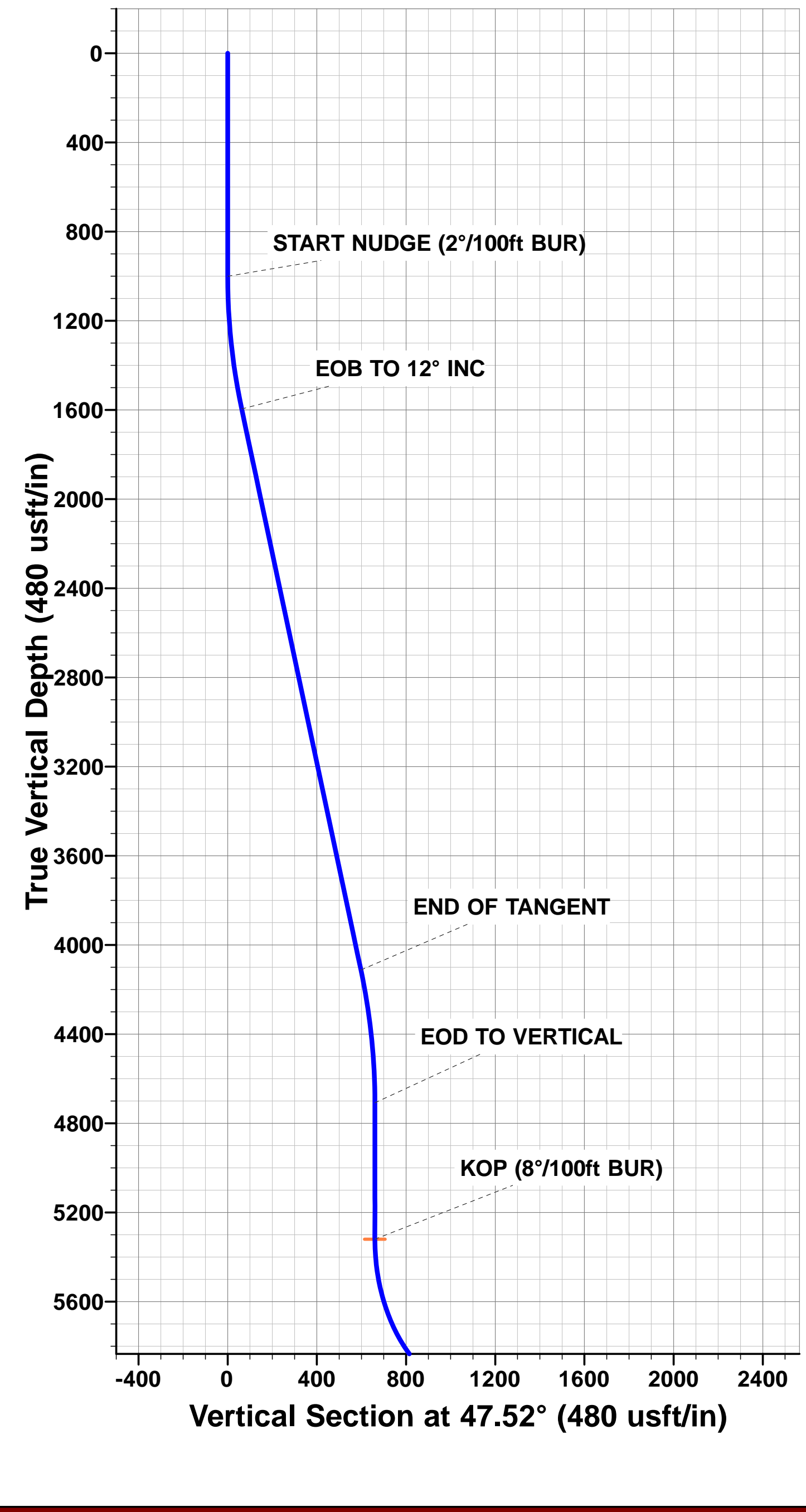
**Plan: PROPOSAL #3**





Project: WELD COUNTY, COLORADO (NAD 83)  
Site: NE NW SEC. 18 T5N R61W 6th P.M.  
Well: PRONGHORN 24-7-6XRLNB - OPT 2  
Wellbore: OPTION 2  
Design: PROPOSAL #3

ANNOTATIONS										PROPOSED LOCAL COORDINATES:  SHL: 419ft FNL & 1447ft FWL Sec 18  7" ICP *NEW*: 838.8ft FSL & 1971.2ft FWL Sec 7  BHL: 470ft FNL & 1980ft FWL Sec 6
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)		
1595.6	1600.0	12.00	47.52	42.3	46.2	44.2	62.6	EOB TO 12° INC		
4112.3	4172.9	12.00	47.52	403.5	440.7	422.1	597.5	END OF TANGENT		
4707.9	4772.9	0.00	0.00	445.8	486.8	466.3	660.1	EOD TO VERTICAL		
5319.9	5384.9	0.00	0.00	445.8	486.8	466.3	660.1	KOP (8°/100ft BUR)		
6011.7	6322.4	75.00	2.60	976.1	510.9	997.2	1191.0	START OF TANGENT		
6037.6	6422.4	75.00	2.60	1072.6	515.3	1093.8	1287.6	END OF TANGENT		
6062.0	6609.9	90.00	2.60	1257.8	523.7	1279.1	1472.9	7" ICP *NEW* - PRONGHORN 24-7-6XRLNB (P3)		
6062.0	6674.9	90.00	2.60	1322.7	526.7	1344.1	1537.9	END OF TANGENT		
6062.0	6777.8	90.00	359.51	1425.6	528.6	1447.0	1640.8	EOT TO 359.51° AZ		
6062.0	15844.8	90.00	359.51	10492.2	451.5	10501.9	10707.8	BHL - PRONGHORN 24-7-6XRLNB (P3)		
WELLBORE TARGET DETAILS (LAT/LONG)										
Name					TVD	+N/-S	+E/-W	Latitude	Longitude	
KOP - PRONGHORN 24-7-6XRLNB (P3)					5319.9	445.8	486.8	40.408554	-104.254954	
7" ICP *NEW* - PRONGHORN 24-7-6XRLNB (P3)					6062.0	1257.8	523.7	40.410782	-104.254821	
BHL - PRONGHORN 24-7-6XRLNB (P3)					6062.0	10492.2	451.5	40.436130	-104.255080	



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN 24-7-6XRLNB - 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 24-7-6XRLNB - 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>From:</b>	Lat/Long	<b>Easting:</b>	3,346,083.48 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000 ft
		<b>Latitude:</b>	40.407960
		<b>Longitude:</b>	-104.257190
		<b>Grid Convergence:</b>	0.80 °

<b>Well</b>	PRONGHORN 24-7-6XRLNB - OPT 2		
<b>Well Position</b>	<b>+N/-S</b>	-229.5 usft	<b>Northing:</b> 1,393,657.89 usft
	<b>+E/-W</b>	135.9 usft	<b>Easting:</b> 3,346,222.59 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	40.407330
		<b>Longitude:</b>	-104.256702
		<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	2.46

<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	
1,600.0	12.00	47.52	1,595.6	-2,986.4	42.3	46.2	2.00	2.00	0.00	47.52	
4,172.9	12.00	47.52	4,112.3	-469.7	403.5	440.7	0.00	0.00	0.00	0.00	
4,772.9	0.00	0.00	4,707.9	125.9	445.8	486.8	2.00	-2.00	0.00	180.00	
5,384.9	0.00	0.00	5,319.9	737.9	445.8	486.8	0.00	0.00	0.00	0.00	KOP - PRONGHOF
6,322.4	75.00	2.60	6,011.7	1,429.7	976.1	510.9	8.00	8.00	0.00	2.60	
6,422.4	75.00	2.60	6,037.6	1,455.6	1,072.6	515.3	0.00	0.00	0.00	0.00	
6,609.9	90.00	2.60	6,062.0	1,480.0	1,257.8	523.7	8.00	8.00	0.00	0.00	
6,674.9	90.00	2.60	6,062.0	1,480.0	1,322.7	526.7	0.00	0.00	0.00	0.00	
6,777.8	90.00	359.51	6,062.0	1,480.0	1,425.5	528.6	3.00	0.00	-3.00	-90.00	
15,844.8	90.00	359.51	6,062.0	1,480.0	10,492.2	451.5	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 24-7-6XRLNB - OPT 2
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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 24-7-6XRLNB - 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 NUDGE (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	47.52	1,100.0	3,482.02	1.2	1.3	1.2	2.00	2.00	0.00
1,200.0	4.00	47.52	1,199.8	3,382.16	4.7	5.1	4.9	2.00	2.00	0.00
1,300.0	6.00	47.52	1,299.5	3,282.55	10.6	11.6	11.1	2.00	2.00	0.00
1,400.0	8.00	47.52	1,398.7	3,183.30	18.8	20.6	19.7	2.00	2.00	0.00
1,500.0	10.00	47.52	1,497.5	3,084.53	29.4	32.1	30.7	2.00	2.00	0.00
<b>EOB TO 12° INC</b>										
1,600.0	12.00	47.52	1,595.6	2,986.38	42.3	46.2	44.2	2.00	2.00	0.00
1,700.0	12.00	47.52	1,693.4	2,888.56	56.3	61.5	58.9	0.00	0.00	0.00
1,800.0	12.00	47.52	1,791.3	2,790.75	70.4	76.8	73.6	0.00	0.00	0.00
1,900.0	12.00	47.52	1,889.1	2,692.93	84.4	92.2	88.3	0.00	0.00	0.00
2,000.0	12.00	47.52	1,986.9	2,595.12	98.4	107.5	103.0	0.00	0.00	0.00
2,100.0	12.00	47.52	2,084.7	2,497.30	112.5	122.8	117.7	0.00	0.00	0.00
2,200.0	12.00	47.52	2,182.5	2,399.49	126.5	138.2	132.3	0.00	0.00	0.00
2,300.0	12.00	47.52	2,280.3	2,301.67	140.6	153.5	147.0	0.00	0.00	0.00
2,400.0	12.00	47.52	2,378.1	2,203.86	154.6	168.8	161.7	0.00	0.00	0.00
2,500.0	12.00	47.52	2,476.0	2,106.04	168.6	184.2	176.4	0.00	0.00	0.00
2,600.0	12.00	47.52	2,573.8	2,008.23	182.7	199.5	191.1	0.00	0.00	0.00
2,700.0	12.00	47.52	2,671.6	1,910.41	196.7	214.8	205.8	0.00	0.00	0.00
2,800.0	12.00	47.52	2,769.4	1,812.60	210.8	230.2	220.5	0.00	0.00	0.00
2,900.0	12.00	47.52	2,867.2	1,714.78	224.8	245.5	235.2	0.00	0.00	0.00
3,000.0	12.00	47.52	2,965.0	1,616.97	238.8	260.8	249.8	0.00	0.00	0.00
3,100.0	12.00	47.52	3,062.8	1,519.15	252.9	276.2	264.5	0.00	0.00	0.00
3,200.0	12.00	47.52	3,160.7	1,421.34	266.9	291.5	279.2	0.00	0.00	0.00
3,300.0	12.00	47.52	3,258.5	1,323.52	281.0	306.8	293.9	0.00	0.00	0.00
3,400.0	12.00	47.52	3,356.3	1,225.71	295.0	322.2	308.6	0.00	0.00	0.00
3,500.0	12.00	47.52	3,454.1	1,127.89	309.0	337.5	323.3	0.00	0.00	0.00
3,600.0	12.00	47.52	3,551.9	1,030.08	323.1	352.8	338.0	0.00	0.00	0.00
3,700.0	12.00	47.52	3,649.7	932.26	337.1	368.2	352.6	0.00	0.00	0.00
3,800.0	12.00	47.52	3,747.6	834.45	351.2	383.5	367.3	0.00	0.00	0.00
3,900.0	12.00	47.52	3,845.4	736.63	365.2	398.8	382.0	0.00	0.00	0.00
4,000.0	12.00	47.52	3,943.2	638.82	379.2	414.2	396.7	0.00	0.00	0.00
4,100.0	12.00	47.52	4,041.0	541.00	393.3	429.5	411.4	0.00	0.00	0.00
<b>END OF TANGENT</b>										
4,172.9	12.00	47.52	4,112.3	469.70	403.5	440.7	422.1	0.00	0.00	0.00
4,200.0	11.46	47.52	4,138.8	443.16	407.2	444.7	426.0	2.00	-2.00	0.00
4,300.0	9.46	47.52	4,237.2	344.83	419.5	458.1	438.8	2.00	-2.00	0.00
4,400.0	7.46	47.52	4,336.1	245.92	429.4	469.0	449.2	2.00	-2.00	0.00
4,500.0	5.46	47.52	4,435.4	146.56	437.0	477.3	457.1	2.00	-2.00	0.00
4,600.0	3.46	47.52	4,535.1	46.87	442.3	483.0	462.6	2.00	-2.00	0.00
4,700.0	1.46	47.52	4,635.0	-53.04	445.2	486.2	465.7	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
4,772.9	0.00	0.00	4,707.9	-125.93	445.8	486.8	466.3	2.00	-2.00	0.00



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN 24-7-6XRLNB - 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 24-7-6XRLNB - 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)
4,800.0	0.00	0.00	4,735.0	-153.03	445.8	486.8	466.3	0.00	0.00	0.00
4,900.0	0.00	0.00	4,835.0	-253.03	445.8	486.8	466.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,935.0	-353.03	445.8	486.8	466.3	0.00	0.00	0.00
5,100.0	0.00	0.00	5,035.0	-453.03	445.8	486.8	466.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,135.0	-553.03	445.8	486.8	466.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,235.0	-653.03	445.8	486.8	466.3	0.00	0.00	0.00
<b>KOP (8°/100ft BUR)</b>										
<b>5,384.9</b>	<b>0.00</b>	<b>0.00</b>	<b>5,319.9</b>	<b>-737.93</b>	<b>445.8</b>	<b>486.8</b>	<b>466.3</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,400.0	1.21	2.60	5,335.0	-753.03	446.0	486.8	466.5	8.01	8.01	0.00
5,500.0	9.21	2.60	5,434.5	-852.53	455.0	487.3	475.5	8.00	8.00	0.00
5,600.0	17.21	2.60	5,531.8	-949.81	477.8	488.3	498.4	8.00	8.00	0.00
5,700.0	25.21	2.60	5,625.0	-1,042.96	513.9	489.9	534.5	8.00	8.00	0.00
5,800.0	33.21	2.60	5,712.2	-1,130.17	562.7	492.1	583.3	8.00	8.00	0.00
5,900.0	41.21	2.60	5,791.7	-1,209.75	623.0	494.9	643.7	8.00	8.00	0.00
6,000.0	49.21	2.60	5,862.1	-1,280.14	693.9	498.1	714.6	8.00	8.00	0.00
6,100.0	57.21	2.60	5,922.0	-1,339.98	773.8	501.7	794.7	8.00	8.00	0.00
6,200.0	65.21	2.60	5,970.1	-1,388.10	861.3	505.7	882.2	8.00	8.00	0.00
6,300.0	73.21	2.60	6,005.6	-1,423.57	954.6	509.9	975.6	8.00	8.00	0.00
<b>START OF TANGENT</b>										
<b>6,322.4</b>	<b>75.00</b>	<b>2.60</b>	<b>6,011.7</b>	<b>-1,429.70</b>	<b>976.1</b>	<b>510.9</b>	<b>997.2</b>	<b>7.99</b>	<b>7.99</b>	<b>0.00</b>
6,400.0	75.00	2.60	6,031.8	-1,449.79	1,051.0	514.3	1,072.1	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>6,422.4</b>	<b>75.00</b>	<b>2.60</b>	<b>6,037.6</b>	<b>-1,455.58</b>	<b>1,072.6</b>	<b>515.3</b>	<b>1,093.8</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,500.0	81.21	2.60	6,053.6	-1,471.57	1,148.4	518.7	1,169.7	8.00	8.00	0.00
6,600.0	89.21	2.60	6,061.9	-1,479.91	1,247.9	523.3	1,269.2	8.00	8.00	0.00
<b>7" ICP *NEW* - PRONGHORN 24-7-6XRLNB (P3)</b>										
<b>6,609.9</b>	<b>90.00</b>	<b>2.60</b>	<b>6,062.0</b>	<b>-1,479.98</b>	<b>1,257.8</b>	<b>523.7</b>	<b>1,279.1</b>	<b>7.98</b>	<b>7.98</b>	<b>0.00</b>
<b>END OF TANGENT</b>										
<b>6,674.9</b>	<b>90.00</b>	<b>2.60</b>	<b>6,062.0</b>	<b>-1,479.98</b>	<b>1,322.7</b>	<b>526.7</b>	<b>1,344.1</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,700.0	90.00	1.85	6,062.0	-1,479.98	1,347.8	527.6	1,369.2	3.00	0.00	-3.00
<b>EOT TO 359.51° AZ</b>										
<b>6,777.8</b>	<b>90.00</b>	<b>359.51</b>	<b>6,062.0</b>	<b>-1,479.98</b>	<b>1,425.6</b>	<b>528.6</b>	<b>1,447.0</b>	<b>3.00</b>	<b>0.00</b>	<b>-3.00</b>
6,800.0	90.00	359.51	6,062.0	-1,479.98	1,447.8	528.4	1,469.2	0.00	0.00	0.00
6,900.0	90.00	359.51	6,062.0	-1,479.98	1,547.8	527.5	1,569.0	0.00	0.00	0.00
7,000.0	90.00	359.51	6,062.0	-1,479.98	1,647.8	526.7	1,668.9	0.00	0.00	0.00
7,100.0	90.00	359.51	6,062.0	-1,479.98	1,747.8	525.8	1,768.8	0.00	0.00	0.00
7,200.0	90.00	359.51	6,062.0	-1,479.98	1,847.8	525.0	1,868.6	0.00	0.00	0.00
7,300.0	90.00	359.51	6,062.0	-1,479.98	1,947.8	524.1	1,968.5	0.00	0.00	0.00
7,400.0	90.00	359.51	6,062.0	-1,479.98	2,047.8	523.3	2,068.4	0.00	0.00	0.00
7,500.0	90.00	359.51	6,062.0	-1,479.98	2,147.8	522.4	2,168.2	0.00	0.00	0.00
7,600.0	90.00	359.51	6,062.0	-1,479.98	2,247.8	521.6	2,268.1	0.00	0.00	0.00
7,700.0	90.00	359.51	6,062.0	-1,479.98	2,347.7	520.7	2,368.0	0.00	0.00	0.00
7,800.0	90.00	359.51	6,062.0	-1,479.98	2,447.7	519.9	2,467.8	0.00	0.00	0.00
7,900.0	90.00	359.51	6,062.0	-1,479.98	2,547.7	519.0	2,567.7	0.00	0.00	0.00
8,000.0	90.00	359.51	6,062.0	-1,479.98	2,647.7	518.2	2,667.6	0.00	0.00	0.00
8,100.0	90.00	359.51	6,062.0	-1,479.98	2,747.7	517.3	2,767.4	0.00	0.00	0.00
8,200.0	90.00	359.51	6,062.0	-1,479.98	2,847.7	516.5	2,867.3	0.00	0.00	0.00
8,300.0	90.00	359.51	6,062.0	-1,479.98	2,947.7	515.6	2,967.2	0.00	0.00	0.00
8,400.0	90.00	359.51	6,062.0	-1,479.98	3,047.7	514.8	3,067.0	0.00	0.00	0.00
8,500.0	90.00	359.51	6,062.0	-1,479.98	3,147.7	513.9	3,166.9	0.00	0.00	0.00
8,600.0	90.00	359.51	6,062.0	-1,479.98	3,247.7	513.1	3,266.8	0.00	0.00	0.00
8,700.0	90.00	359.51	6,062.0	-1,479.98	3,347.7	512.2	3,366.6	0.00	0.00	0.00
8,800.0	90.00	359.51	6,062.0	-1,479.98	3,447.7	511.4	3,466.5	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN 24-7-6XRLNB - 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 24-7-6XRLNB - 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)
8,900.0	90.00	359.51	6,062.0	-1,479.98	3,547.7	510.5	3,566.4	0.00	0.00	0.00
9,000.0	90.00	359.51	6,062.0	-1,479.98	3,647.7	509.7	3,666.2	0.00	0.00	0.00
9,100.0	90.00	359.51	6,062.0	-1,479.98	3,747.7	508.8	3,766.1	0.00	0.00	0.00
9,200.0	90.00	359.51	6,062.0	-1,479.98	3,847.7	508.0	3,866.0	0.00	0.00	0.00
9,300.0	90.00	359.51	6,062.0	-1,479.99	3,947.7	507.1	3,965.8	0.00	0.00	0.00
9,400.0	90.00	359.51	6,062.0	-1,479.99	4,047.7	506.3	4,065.7	0.00	0.00	0.00
9,500.0	90.00	359.51	6,062.0	-1,479.99	4,147.7	505.4	4,165.6	0.00	0.00	0.00
9,600.0	90.00	359.51	6,062.0	-1,479.99	4,247.7	504.6	4,265.4	0.00	0.00	0.00
9,700.0	90.00	359.51	6,062.0	-1,479.99	4,347.7	503.7	4,365.3	0.00	0.00	0.00
9,800.0	90.00	359.51	6,062.0	-1,479.99	4,447.7	502.9	4,465.2	0.00	0.00	0.00
9,900.0	90.00	359.51	6,062.0	-1,479.99	4,547.7	502.0	4,565.0	0.00	0.00	0.00
10,000.0	90.00	359.51	6,062.0	-1,479.99	4,647.7	501.2	4,664.9	0.00	0.00	0.00
10,100.0	90.00	359.51	6,062.0	-1,479.99	4,747.7	500.3	4,764.8	0.00	0.00	0.00
10,200.0	90.00	359.51	6,062.0	-1,479.99	4,847.7	499.5	4,864.7	0.00	0.00	0.00
10,300.0	90.00	359.51	6,062.0	-1,479.99	4,947.7	498.6	4,964.5	0.00	0.00	0.00
10,400.0	90.00	359.51	6,062.0	-1,479.99	5,047.7	497.8	5,064.4	0.00	0.00	0.00
10,500.0	90.00	359.51	6,062.0	-1,479.99	5,147.6	496.9	5,164.3	0.00	0.00	0.00
10,600.0	90.00	359.51	6,062.0	-1,479.99	5,247.6	496.1	5,264.1	0.00	0.00	0.00
10,700.0	90.00	359.51	6,062.0	-1,479.99	5,347.6	495.2	5,364.0	0.00	0.00	0.00
10,800.0	90.00	359.51	6,062.0	-1,479.99	5,447.6	494.4	5,463.9	0.00	0.00	0.00
10,900.0	90.00	359.51	6,062.0	-1,479.99	5,547.6	493.5	5,563.7	0.00	0.00	0.00
11,000.0	90.00	359.51	6,062.0	-1,479.99	5,647.6	492.7	5,663.6	0.00	0.00	0.00
11,100.0	90.00	359.51	6,062.0	-1,479.99	5,747.6	491.8	5,763.5	0.00	0.00	0.00
11,200.0	90.00	359.51	6,062.0	-1,479.99	5,847.6	491.0	5,863.3	0.00	0.00	0.00
11,300.0	90.00	359.51	6,062.0	-1,479.99	5,947.6	490.1	5,963.2	0.00	0.00	0.00
11,400.0	90.00	359.51	6,062.0	-1,479.99	6,047.6	489.3	6,063.1	0.00	0.00	0.00
11,500.0	90.00	359.51	6,062.0	-1,479.99	6,147.6	488.4	6,162.9	0.00	0.00	0.00
11,600.0	90.00	359.51	6,062.0	-1,479.99	6,247.6	487.6	6,262.8	0.00	0.00	0.00
11,700.0	90.00	359.51	6,062.0	-1,479.99	6,347.6	486.7	6,362.7	0.00	0.00	0.00
11,800.0	90.00	359.51	6,062.0	-1,479.99	6,447.6	485.9	6,462.5	0.00	0.00	0.00
11,900.0	90.00	359.51	6,062.0	-1,479.99	6,547.6	485.0	6,562.4	0.00	0.00	0.00
12,000.0	90.00	359.51	6,062.0	-1,479.99	6,647.6	484.2	6,662.3	0.00	0.00	0.00
12,100.0	90.00	359.51	6,062.0	-1,479.99	6,747.6	483.3	6,762.1	0.00	0.00	0.00
12,200.0	90.00	359.51	6,062.0	-1,479.99	6,847.6	482.5	6,862.0	0.00	0.00	0.00
12,300.0	90.00	359.51	6,062.0	-1,479.99	6,947.6	481.6	6,961.9	0.00	0.00	0.00
12,400.0	90.00	359.51	6,062.0	-1,479.99	7,047.6	480.8	7,061.7	0.00	0.00	0.00
12,500.0	90.00	359.51	6,062.0	-1,479.99	7,147.6	479.9	7,161.6	0.00	0.00	0.00
12,600.0	90.00	359.51	6,062.0	-1,479.99	7,247.6	479.1	7,261.5	0.00	0.00	0.00
12,700.0	90.00	359.51	6,062.0	-1,479.99	7,347.6	478.2	7,361.3	0.00	0.00	0.00
12,800.0	90.00	359.51	6,062.0	-1,479.99	7,447.6	477.4	7,461.2	0.00	0.00	0.00
12,900.0	90.00	359.51	6,062.0	-1,479.99	7,547.6	476.5	7,561.1	0.00	0.00	0.00
13,000.0	90.00	359.51	6,062.0	-1,479.99	7,647.6	475.7	7,660.9	0.00	0.00	0.00
13,100.0	90.00	359.51	6,062.0	-1,479.99	7,747.6	474.8	7,760.8	0.00	0.00	0.00
13,200.0	90.00	359.51	6,062.0	-1,479.99	7,847.6	474.0	7,860.7	0.00	0.00	0.00
13,300.0	90.00	359.51	6,062.0	-1,479.99	7,947.5	473.1	7,960.5	0.00	0.00	0.00
13,400.0	90.00	359.51	6,062.0	-1,479.99	8,047.5	472.3	8,060.4	0.00	0.00	0.00
13,500.0	90.00	359.51	6,062.0	-1,479.99	8,147.5	471.4	8,160.3	0.00	0.00	0.00
13,600.0	90.00	359.51	6,062.0	-1,479.99	8,247.5	470.6	8,260.1	0.00	0.00	0.00
13,700.0	90.00	359.51	6,062.0	-1,480.00	8,347.5	469.7	8,360.0	0.00	0.00	0.00
13,800.0	90.00	359.51	6,062.0	-1,480.00	8,447.5	468.9	8,459.9	0.00	0.00	0.00
13,900.0	90.00	359.51	6,062.0	-1,480.00	8,547.5	468.0	8,559.7	0.00	0.00	0.00
14,000.0	90.00	359.51	6,062.0	-1,480.00	8,647.5	467.2	8,659.6	0.00	0.00	0.00
14,100.0	90.00	359.51	6,062.0	-1,480.00	8,747.5	466.3	8,759.5	0.00	0.00	0.00
14,200.0	90.00	359.51	6,062.0	-1,480.00	8,847.5	465.5	8,859.3	0.00	0.00	0.00

<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN 24-7-6XRLNB - 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 24-7-6XRLNB - 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)
14,300.0	90.00	359.51	6,062.0	-1,480.00	8,947.5	464.6	8,959.2	0.00	0.00	0.00
14,400.0	90.00	359.51	6,062.0	-1,480.00	9,047.5	463.8	9,059.1	0.00	0.00	0.00
14,500.0	90.00	359.51	6,062.0	-1,480.00	9,147.5	462.9	9,158.9	0.00	0.00	0.00
14,600.0	90.00	359.51	6,062.0	-1,480.00	9,247.5	462.1	9,258.8	0.00	0.00	0.00
14,700.0	90.00	359.51	6,062.0	-1,480.00	9,347.5	461.2	9,358.7	0.00	0.00	0.00
14,800.0	90.00	359.51	6,062.0	-1,480.00	9,447.5	460.4	9,458.6	0.00	0.00	0.00
14,900.0	90.00	359.51	6,062.0	-1,480.00	9,547.5	459.5	9,558.4	0.00	0.00	0.00
15,000.0	90.00	359.51	6,062.0	-1,480.00	9,647.5	458.7	9,658.3	0.00	0.00	0.00
15,100.0	90.00	359.51	6,062.0	-1,480.00	9,747.5	457.8	9,758.2	0.00	0.00	0.00
15,200.0	90.00	359.51	6,062.0	-1,480.00	9,847.5	457.0	9,858.0	0.00	0.00	0.00
15,300.0	90.00	359.51	6,062.0	-1,480.00	9,947.5	456.1	9,957.9	0.00	0.00	0.00
15,400.0	90.00	359.51	6,062.0	-1,480.00	10,047.5	455.3	10,057.8	0.00	0.00	0.00
15,500.0	90.00	359.51	6,062.0	-1,480.00	10,147.5	454.4	10,157.6	0.00	0.00	0.00
15,600.0	90.00	359.51	6,062.0	-1,480.00	10,247.5	453.6	10,257.5	0.00	0.00	0.00
15,700.0	90.00	359.51	6,062.0	-1,480.00	10,347.5	452.8	10,357.4	0.00	0.00	0.00
15,800.0	90.00	359.51	6,062.0	-1,480.00	10,447.5	451.9	10,457.2	0.00	0.00	0.00
<b>BHL - PRONGHORN 24-7-6XRLNB (P3)</b>										
<b>15,844.8</b>	<b>90.00</b>	<b>359.51</b>	<b>6,062.0</b>	<b>-1,480.00</b>	<b>10,492.2</b>	<b>451.5</b>	<b>10,501.9</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)
1,600.0	1,595.6	42.3	46.2	EOB TO 12° INC
4,172.9	4,112.3	403.5	440.7	END OF TANGENT
4,772.9	4,707.9	445.8	486.8	EOD TO VERTICAL
5,384.9	5,319.9	445.8	486.8	KOP (8°/100ft BUR)
6,322.4	6,011.7	976.1	510.9	START OF TANGENT
6,422.4	6,037.6	1,072.6	515.3	END OF TANGENT
6,609.9	6,062.0	1,257.8	523.7	7" ICP *NEW* - PRONGHORN 24-7-6XRLNB (P3)
6,674.9	6,062.0	1,322.7	526.7	END OF TANGENT
6,777.8	6,062.0	1,425.6	528.6	EOT TO 359.51° AZ
15,844.8	6,062.0	10,492.2	451.5	BHL - PRONGHORN 24-7-6XRLNB (P3)