

# **BONANZA CREEK ENERGY INC.**

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

**SE SW SEC. 15 T5N R61W 6th P.M.**

**PRONGHORN O24-15-10XRLNB**

**ORIGINAL WELLBORE**

**11 November, 2014**

**Plan: PROPOSAL #1**



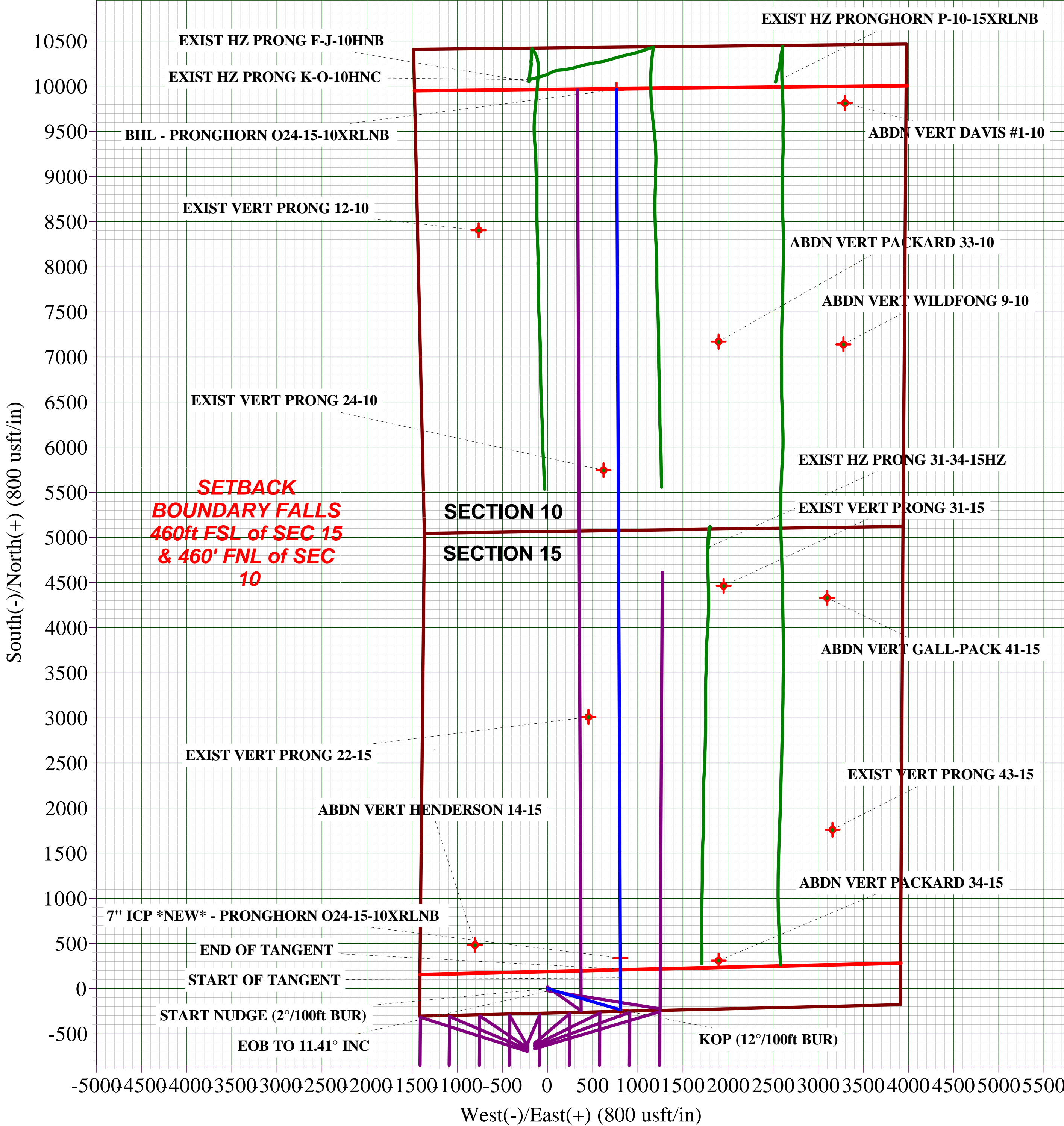
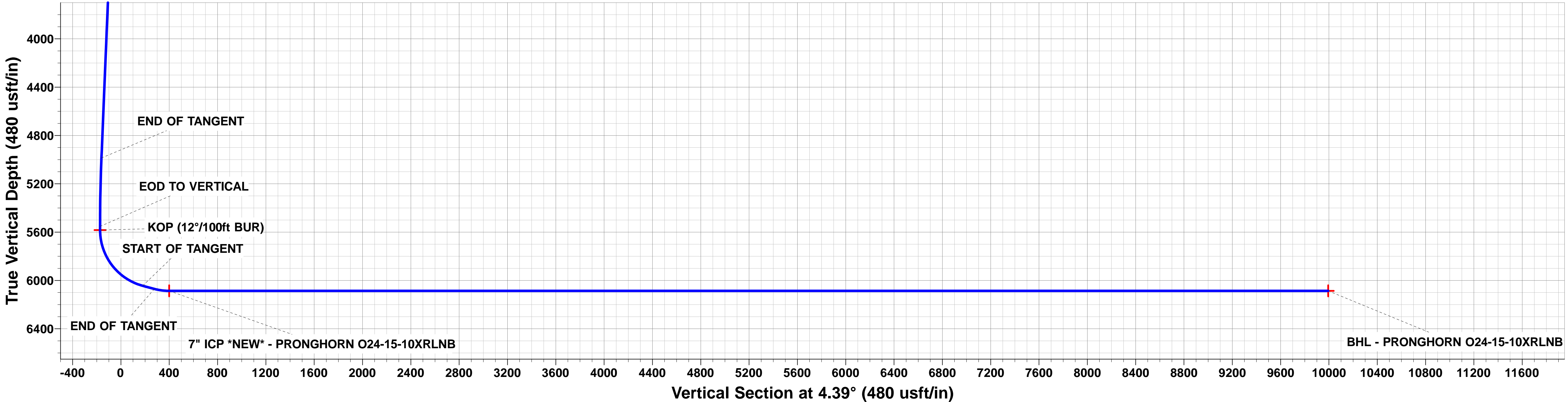
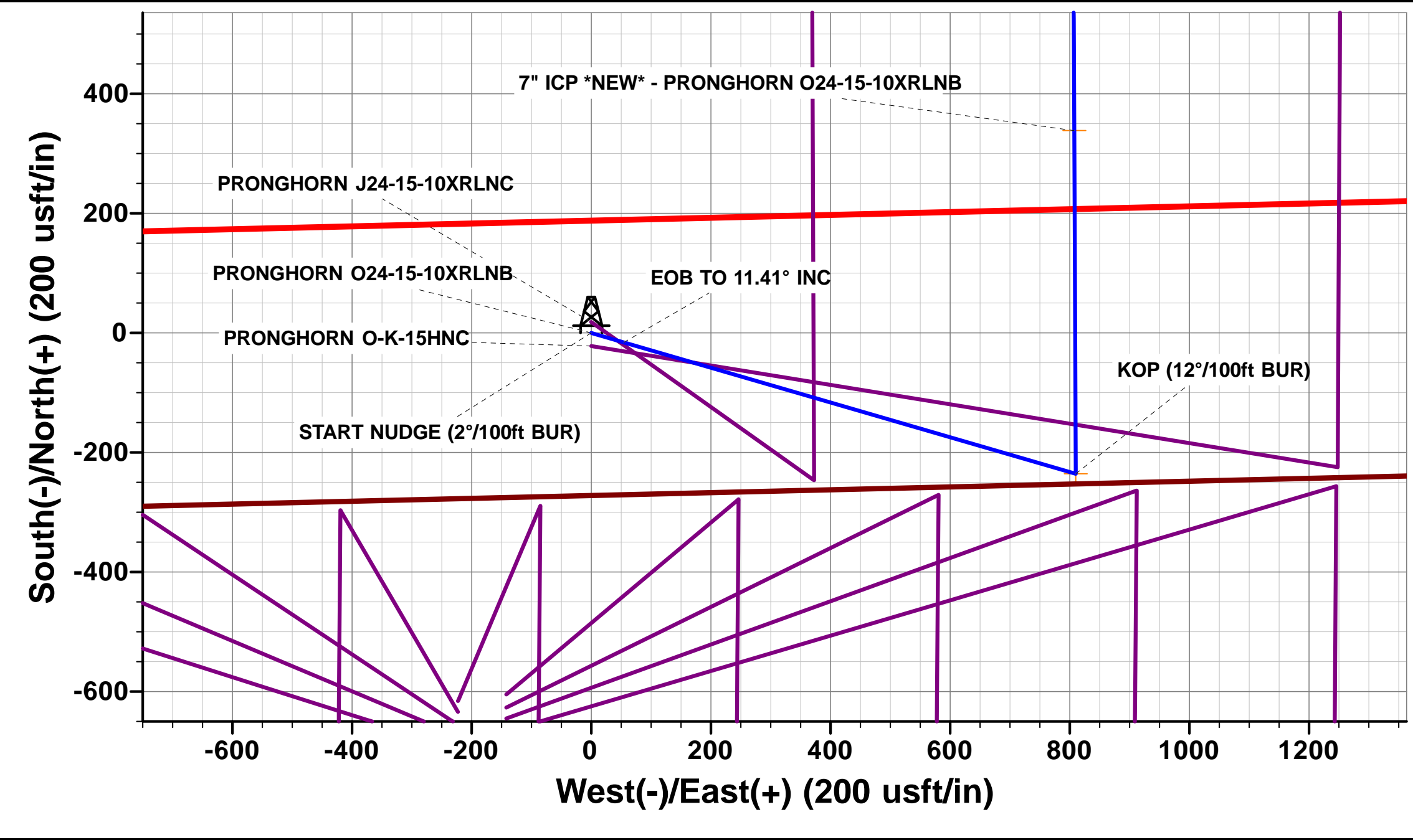
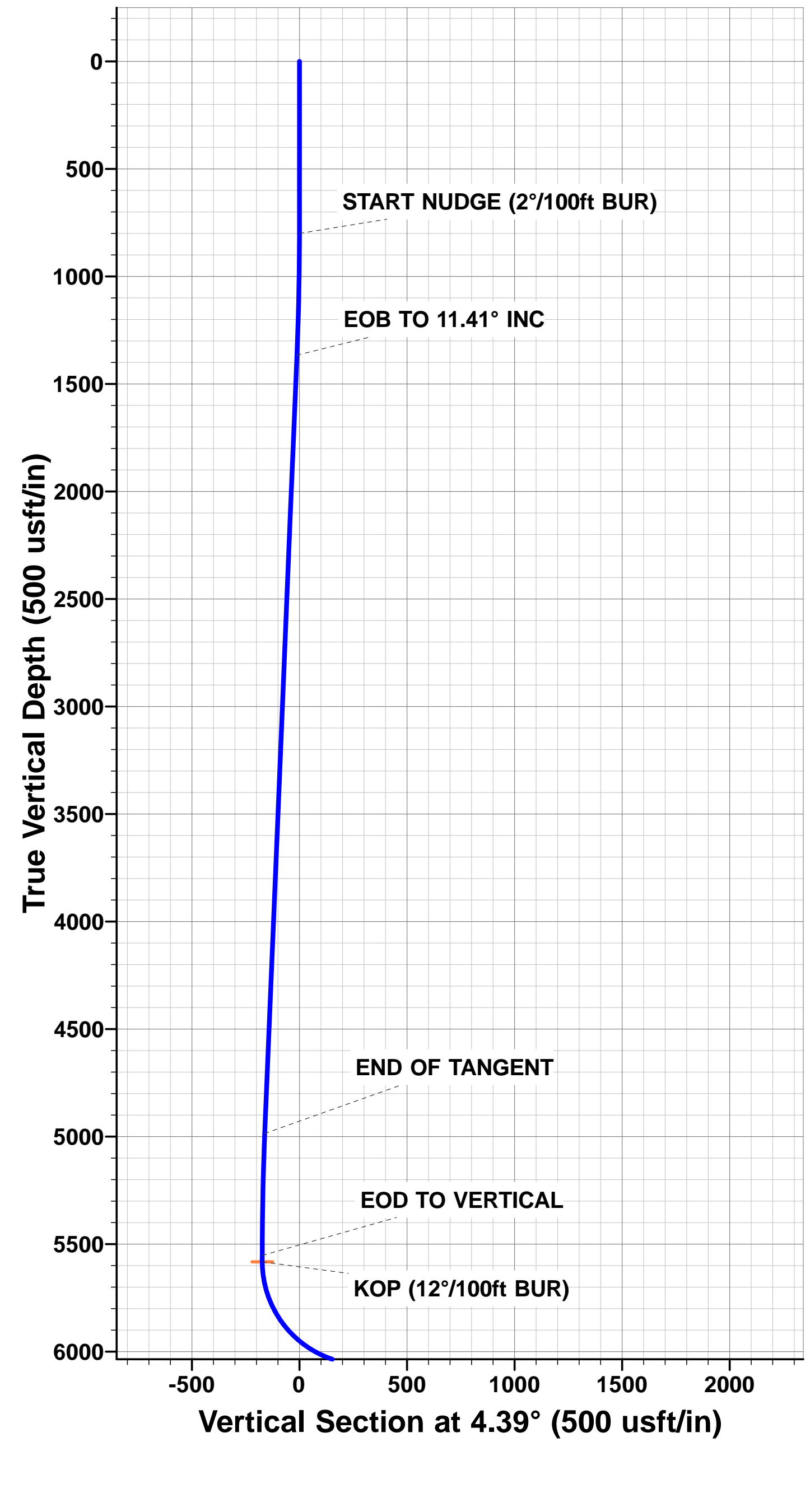


Project: WELD COUNTY, COLORADO (NAD 83)  
Site: SE SW SEC. 15 T5N R61W 6th P.M.  
Well: PRONGHORN O24-15-10XRLNB  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

ANNOTATIONS										
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation		
800.0	800.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)		
1366.7	1370.5	11.41	106.21	-15.8	54.4	-11.6	56.6	EOB TO 11.41° INC		
4986.0	5062.7	11.41	106.21	-219.7	755.7	-161.1	787.0	END OF TANGENT		
5552.7	5633.2	0.00	0.00	-235.5	810.1	-172.7	843.6	EOD TO VERTICAL		
5582.7	5663.2	0.00	0.00	-235.5	810.1	-172.7	843.6	KOP (12°/100ft BUR)		
6043.9	6288.2	75.00	359.75	118.4	808.6	180.0	1197.5	START OF TANGENT		
6069.8	6388.2	75.00	359.75	215.0	808.1	276.3	1294.1	END OF TANGENT		
6086.0	6513.2	90.00	359.75	338.6	807.6	399.4	1417.7	7" ICP *NEW* - PRONGHORN O24-15-10XRLNB		
6086.0	16138.7	90.00	359.75	9963.9	765.7	9993.3	11043.2	BHL - PRONGHORN O24-15-10XRLNB		

PROPOSED LOCAL COORDINATES:  
  
SHL: 270ft FSL & 1417ft FWL Sec 15  
  
7" ICP \*NEW\*: 589.1ft FNL & 2220ft FWL Sec 15  
  
BHL: 470ft FSL & 2240ft FWL Sec 10

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PRONGHORN O24-15-10XRLNB	5582.7	-235.5	810.1	40.393774	-104.196432
7" ICP *NEW* - PRONGHORN O24-15-10XRLNB	6086.0	338.6	807.6	40.395349	-104.196441
BHL - PRONGHORN O24-15-10XRLNB	6086.0	9963.9	765.7	40.421770	-104.196590



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN O24-15-10XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 15 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN O24-15-10XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL #1		

<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>	SE SW SEC. 15 T5N R61W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,389,184.46 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,362,264.11 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft
		<b>Latitude:</b>	40.394420
		<b>Longitude:</b>	-104.199340
		<b>Grid Convergence:</b>	0.84 °

<b>Well</b>	PRONGHORN O24-15-10XRLNB		
<b>Well Position</b>	<b>+N-S</b>	0.0 usft	<b>Northing:</b> 1,389,184.46 usft
	<b>+E-W</b>	0.0 usft	<b>Easting:</b> 3,362,264.11 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	40.394420
		<b>Longitude:</b>	-104.199340
		<b>Ground Level:</b>	4,669.0 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	11/11/2014	8.10	67.02	52,828

<b>Design</b>	PROPOSAL #1			
<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>
	6,086.0	0.0	0.0	4.39

<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	-4,686.0	0.0	0.0	0.00	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	-3,886.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,370.5	11.41	106.21	1,366.7	-3,319.3	-15.8	54.4	2.00	2.00	0.00	106.21	
5,062.7	11.41	106.21	4,986.0	300.0	-219.7	755.7	0.00	0.00	0.00	0.00	
5,633.2	0.00	0.00	5,552.7	866.7	-235.5	810.1	2.00	-2.00	0.00	180.00	
5,663.2	0.00	0.00	5,582.7	896.7	-235.5	810.1	0.00	0.00	0.00	0.00	KOP - PRONGHOF
6,288.2	75.00	359.75	6,043.9	1,357.9	118.4	808.6	12.00	12.00	0.00	359.75	
6,388.2	75.00	359.75	6,069.8	1,383.8	215.0	808.1	0.00	0.00	0.00	0.00	
6,513.2	90.00	359.75	6,086.0	1,400.0	338.6	807.6	12.00	12.00	0.00	0.00	
16,138.7	90.00	359.75	6,086.0	1,400.0	9,963.9	765.7	0.00	0.00	0.00	0.00	BHL - PRONGHOR

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN O24-15-10XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 15 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN O24-15-10XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
0.0	0.00	0.00	0.0	4,686.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,586.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,486.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,386.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,286.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,186.00	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	4,086.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	3,986.00	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (2°/100ft BUR)</b>										
800.0	0.00	0.00	800.0	3,886.00	0.0	0.0	0.0	0.00	0.00	0.00
900.0	2.00	106.21	900.0	3,786.02	-0.5	1.7	-0.4	2.00	2.00	0.00
1,000.0	4.00	106.21	999.8	3,686.16	-1.9	6.7	-1.4	2.00	2.00	0.00
1,100.0	6.00	106.21	1,099.5	3,586.55	-4.4	15.1	-3.2	2.00	2.00	0.00
1,200.0	8.00	106.21	1,198.7	3,487.30	-7.8	26.8	-5.7	2.00	2.00	0.00
1,300.0	10.00	106.21	1,297.5	3,388.53	-12.1	41.8	-8.9	2.00	2.00	0.00
<b>EOB TO 11.41° INC</b>										
1,370.5	11.41	106.21	1,366.7	3,319.28	-15.8	54.4	-11.6	2.00	2.00	0.00
1,400.0	11.41	106.21	1,395.7	3,290.35	-17.4	60.0	-12.8	0.00	0.00	0.00
1,500.0	11.41	106.21	1,493.7	3,192.32	-23.0	79.0	-16.8	0.00	0.00	0.00
1,600.0	11.41	106.21	1,591.7	3,094.30	-28.5	98.0	-20.9	0.00	0.00	0.00
1,700.0	11.41	106.21	1,689.7	2,996.27	-34.0	117.0	-24.9	0.00	0.00	0.00
1,800.0	11.41	106.21	1,787.7	2,898.25	-39.5	136.0	-29.0	0.00	0.00	0.00
1,900.0	11.41	106.21	1,885.8	2,800.23	-45.0	155.0	-33.0	0.00	0.00	0.00
2,000.0	11.41	106.21	1,983.8	2,702.20	-50.6	173.9	-37.1	0.00	0.00	0.00
2,100.0	11.41	106.21	2,081.8	2,604.18	-56.1	192.9	-41.1	0.00	0.00	0.00
2,200.0	11.41	106.21	2,179.8	2,506.16	-61.6	211.9	-45.2	0.00	0.00	0.00
2,300.0	11.41	106.21	2,277.9	2,408.13	-67.1	230.9	-49.2	0.00	0.00	0.00
2,400.0	11.41	106.21	2,375.9	2,310.11	-72.7	249.9	-53.3	0.00	0.00	0.00
2,500.0	11.41	106.21	2,473.9	2,212.08	-78.2	268.9	-57.3	0.00	0.00	0.00
2,600.0	11.41	106.21	2,571.9	2,114.06	-83.7	287.9	-61.4	0.00	0.00	0.00
2,700.0	11.41	106.21	2,670.0	2,016.04	-89.2	306.9	-65.4	0.00	0.00	0.00
2,800.0	11.41	106.21	2,768.0	1,918.01	-94.7	325.9	-69.5	0.00	0.00	0.00
2,900.0	11.41	106.21	2,866.0	1,819.99	-100.3	344.9	-73.5	0.00	0.00	0.00
3,000.0	11.41	106.21	2,964.0	1,721.97	-105.8	363.9	-77.6	0.00	0.00	0.00
3,100.0	11.41	106.21	3,062.1	1,623.94	-111.3	382.9	-81.6	0.00	0.00	0.00
3,200.0	11.41	106.21	3,160.1	1,525.92	-116.8	401.9	-85.7	0.00	0.00	0.00
3,300.0	11.41	106.21	3,258.1	1,427.89	-122.4	420.9	-89.7	0.00	0.00	0.00
3,400.0	11.41	106.21	3,356.1	1,329.87	-127.9	439.9	-93.8	0.00	0.00	0.00
3,500.0	11.41	106.21	3,454.2	1,231.85	-133.4	458.9	-97.8	0.00	0.00	0.00
3,600.0	11.41	106.21	3,552.2	1,133.82	-138.9	477.9	-101.9	0.00	0.00	0.00
3,700.0	11.41	106.21	3,650.2	1,035.80	-144.4	496.9	-105.9	0.00	0.00	0.00
3,800.0	11.41	106.21	3,748.2	937.78	-150.0	515.9	-110.0	0.00	0.00	0.00
3,900.0	11.41	106.21	3,846.2	839.75	-155.5	534.9	-114.1	0.00	0.00	0.00
4,000.0	11.41	106.21	3,944.3	741.73	-161.0	553.9	-118.1	0.00	0.00	0.00
4,100.0	11.41	106.21	4,042.3	643.70	-166.5	572.9	-122.2	0.00	0.00	0.00
4,200.0	11.41	106.21	4,140.3	545.68	-172.1	591.9	-126.2	0.00	0.00	0.00
4,300.0	11.41	106.21	4,238.3	447.66	-177.6	610.9	-130.3	0.00	0.00	0.00
4,400.0	11.41	106.21	4,336.4	349.63	-183.1	629.8	-134.3	0.00	0.00	0.00
4,500.0	11.41	106.21	4,434.4	251.61	-188.6	648.8	-138.4	0.00	0.00	0.00
4,600.0	11.41	106.21	4,532.4	153.59	-194.1	667.8	-142.4	0.00	0.00	0.00
4,700.0	11.41	106.21	4,630.4	55.56	-199.7	686.8	-146.5	0.00	0.00	0.00
4,800.0	11.41	106.21	4,728.5	-42.46	-205.2	705.8	-150.5	0.00	0.00	0.00
4,900.0	11.41	106.21	4,826.5	-140.49	-210.7	724.8	-154.6	0.00	0.00	0.00
5,000.0	11.41	106.21	4,924.5	-238.51	-216.2	743.8	-158.6	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN O24-15-10XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 15 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN O24-15-10XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
<b>END OF TANGENT</b>										
5,062.7	11.41	106.21	4,986.0	-299.98	-219.7	755.7	-161.1	0.00	0.00	0.00
5,100.0	10.66	106.21	5,022.6	-336.58	-221.7	762.6	-162.6	2.00	-2.00	0.00
5,200.0	8.66	106.21	5,121.2	-435.16	-226.4	778.7	-166.0	2.00	-2.00	0.00
5,300.0	6.66	106.21	5,220.3	-534.26	-230.1	791.5	-168.8	2.00	-2.00	0.00
5,400.0	4.66	106.21	5,319.8	-633.76	-232.9	801.0	-170.8	2.00	-2.00	0.00
5,500.0	2.66	106.21	5,419.6	-733.56	-234.6	807.1	-172.1	2.00	-2.00	0.00
5,600.0	0.66	106.21	5,519.5	-833.51	-235.4	809.9	-172.7	2.00	-2.00	0.00
<b>EOD TO VERTICAL</b>										
5,633.2	0.00	0.00	5,552.7	-866.70	-235.5	810.1	-172.7	2.00	-2.00	0.00
<b>KOP (12°/100ft BUR)</b>										
5,663.2	0.00	0.00	5,582.7	-896.70	-235.5	810.1	-172.7	0.00	0.00	0.00
5,700.0	4.42	359.75	5,619.5	-933.47	-234.1	810.1	-171.3	12.00	12.00	0.00
5,800.0	16.42	359.75	5,717.6	-1,031.64	-216.0	810.0	-153.3	12.00	12.00	0.00
5,900.0	28.42	359.75	5,809.9	-1,123.92	-178.0	809.8	-115.4	12.00	12.00	0.00
6,000.0	40.42	359.75	5,892.3	-1,206.26	-121.6	809.6	-59.2	12.00	12.00	0.00
6,100.0	52.42	359.75	5,961.1	-1,275.08	-49.2	809.3	12.9	12.00	12.00	0.00
6,200.0	64.42	359.75	6,013.4	-1,327.35	35.8	808.9	97.7	12.00	12.00	0.00
<b>START OF TANGENT</b>										
6,288.2	75.00	359.75	6,043.9	-1,357.90	118.4	808.6	180.0	12.00	12.00	0.00
6,300.0	75.00	359.75	6,047.0	-1,360.95	129.8	808.5	191.4	0.00	0.00	0.00
<b>END OF TANGENT</b>										
6,388.2	75.00	359.75	6,069.8	-1,383.78	215.0	808.1	276.3	0.00	0.00	0.00
6,400.0	76.42	359.75	6,072.7	-1,386.69	226.4	808.1	287.7	12.00	12.00	0.00
6,500.0	88.42	359.75	6,085.9	-1,399.86	325.4	807.7	386.3	12.00	12.00	0.00
<b>7" ICP *NEW* - PRONGHORN O24-15-10XRLNB</b>										
6,513.2	90.00	359.75	6,086.0	-1,400.05	338.6	807.6	399.4	12.00	12.00	0.00
6,600.0	90.00	359.75	6,086.0	-1,400.05	425.4	807.2	486.0	0.00	0.00	0.00
6,700.0	90.00	359.75	6,086.0	-1,400.05	525.4	806.8	585.6	0.00	0.00	0.00
6,800.0	90.00	359.75	6,086.0	-1,400.05	625.4	806.3	685.3	0.00	0.00	0.00
6,900.0	90.00	359.75	6,086.0	-1,400.05	725.4	805.9	785.0	0.00	0.00	0.00
7,000.0	90.00	359.75	6,086.0	-1,400.05	825.4	805.5	884.6	0.00	0.00	0.00
7,100.0	90.00	359.75	6,086.0	-1,400.05	925.4	805.0	984.3	0.00	0.00	0.00
7,200.0	90.00	359.75	6,086.0	-1,400.05	1,025.4	804.6	1,084.0	0.00	0.00	0.00
7,300.0	90.00	359.75	6,086.0	-1,400.05	1,125.4	804.2	1,183.7	0.00	0.00	0.00
7,400.0	90.00	359.75	6,086.0	-1,400.05	1,225.4	803.7	1,283.3	0.00	0.00	0.00
7,500.0	90.00	359.75	6,086.0	-1,400.05	1,325.3	803.3	1,383.0	0.00	0.00	0.00
7,600.0	90.00	359.75	6,086.0	-1,400.05	1,425.3	802.9	1,482.7	0.00	0.00	0.00
7,700.0	90.00	359.75	6,086.0	-1,400.05	1,525.3	802.4	1,582.3	0.00	0.00	0.00
7,800.0	90.00	359.75	6,086.0	-1,400.05	1,625.3	802.0	1,682.0	0.00	0.00	0.00
7,900.0	90.00	359.75	6,086.0	-1,400.05	1,725.3	801.5	1,781.7	0.00	0.00	0.00
8,000.0	90.00	359.75	6,086.0	-1,400.05	1,825.3	801.1	1,881.4	0.00	0.00	0.00
8,100.0	90.00	359.75	6,086.0	-1,400.05	1,925.3	800.7	1,981.0	0.00	0.00	0.00
8,200.0	90.00	359.75	6,086.0	-1,400.05	2,025.3	800.2	2,080.7	0.00	0.00	0.00
8,300.0	90.00	359.75	6,086.0	-1,400.05	2,125.3	799.8	2,180.4	0.00	0.00	0.00
8,400.0	90.00	359.75	6,086.0	-1,400.05	2,225.3	799.4	2,280.0	0.00	0.00	0.00
8,500.0	90.00	359.75	6,086.0	-1,400.05	2,325.3	798.9	2,379.7	0.00	0.00	0.00
8,600.0	90.00	359.75	6,086.0	-1,400.05	2,425.3	798.5	2,479.4	0.00	0.00	0.00
8,700.0	90.00	359.75	6,086.0	-1,400.05	2,525.3	798.1	2,579.1	0.00	0.00	0.00
8,800.0	90.00	359.75	6,086.0	-1,400.05	2,625.3	797.6	2,678.7	0.00	0.00	0.00
8,900.0	90.00	359.75	6,086.0	-1,400.05	2,725.3	797.2	2,778.4	0.00	0.00	0.00
9,000.0	90.00	359.75	6,086.0	-1,400.05	2,825.3	796.7	2,878.1	0.00	0.00	0.00
9,100.0	90.00	359.75	6,086.0	-1,400.05	2,925.3	796.3	2,977.7	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN O24-15-10XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 15 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN O24-15-10XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
9,200.0	90.00	359.75	6,086.0	-1,400.05	3,025.3	795.9	3,077.4	0.00	0.00	0.00
9,300.0	90.00	359.75	6,086.0	-1,400.05	3,125.3	795.4	3,177.1	0.00	0.00	0.00
9,400.0	90.00	359.75	6,086.0	-1,400.05	3,225.3	795.0	3,276.8	0.00	0.00	0.00
9,500.0	90.00	359.75	6,086.0	-1,400.05	3,325.3	794.6	3,376.4	0.00	0.00	0.00
9,600.0	90.00	359.75	6,086.0	-1,400.05	3,425.3	794.1	3,476.1	0.00	0.00	0.00
9,700.0	90.00	359.75	6,086.0	-1,400.05	3,525.3	793.7	3,575.8	0.00	0.00	0.00
9,800.0	90.00	359.75	6,086.0	-1,400.05	3,625.3	793.3	3,675.4	0.00	0.00	0.00
9,900.0	90.00	359.75	6,086.0	-1,400.05	3,725.3	792.8	3,775.1	0.00	0.00	0.00
10,000.0	90.00	359.75	6,086.0	-1,400.05	3,825.3	792.4	3,874.8	0.00	0.00	0.00
10,100.0	90.00	359.75	6,086.0	-1,400.05	3,925.3	791.9	3,974.5	0.00	0.00	0.00
10,200.0	90.00	359.75	6,086.0	-1,400.05	4,025.3	791.5	4,074.1	0.00	0.00	0.00
10,300.0	90.00	359.75	6,086.0	-1,400.05	4,125.3	791.1	4,173.8	0.00	0.00	0.00
10,400.0	90.00	359.75	6,086.0	-1,400.05	4,225.3	790.6	4,273.5	0.00	0.00	0.00
10,500.0	90.00	359.75	6,086.0	-1,400.05	4,325.3	790.2	4,373.2	0.00	0.00	0.00
10,600.0	90.00	359.75	6,086.0	-1,400.05	4,425.3	789.8	4,472.8	0.00	0.00	0.00
10,700.0	90.00	359.75	6,086.0	-1,400.05	4,525.3	789.3	4,572.5	0.00	0.00	0.00
10,800.0	90.00	359.75	6,086.0	-1,400.05	4,625.3	788.9	4,672.2	0.00	0.00	0.00
10,900.0	90.00	359.75	6,086.0	-1,400.05	4,725.3	788.5	4,771.8	0.00	0.00	0.00
11,000.0	90.00	359.75	6,086.0	-1,400.05	4,825.3	788.0	4,871.5	0.00	0.00	0.00
11,100.0	90.00	359.75	6,086.0	-1,400.05	4,925.3	787.6	4,971.2	0.00	0.00	0.00
11,200.0	90.00	359.75	6,086.0	-1,400.05	5,025.3	787.1	5,070.9	0.00	0.00	0.00
11,300.0	90.00	359.75	6,086.0	-1,400.05	5,125.3	786.7	5,170.5	0.00	0.00	0.00
11,400.0	90.00	359.75	6,086.0	-1,400.05	5,225.3	786.3	5,270.2	0.00	0.00	0.00
11,500.0	90.00	359.75	6,086.0	-1,400.05	5,325.3	785.8	5,369.9	0.00	0.00	0.00
11,600.0	90.00	359.75	6,086.0	-1,400.05	5,425.3	785.4	5,469.5	0.00	0.00	0.00
11,700.0	90.00	359.75	6,086.0	-1,400.05	5,525.3	785.0	5,569.2	0.00	0.00	0.00
11,800.0	90.00	359.75	6,086.0	-1,400.05	5,625.3	784.5	5,668.9	0.00	0.00	0.00
11,900.0	90.00	359.75	6,086.0	-1,400.05	5,725.3	784.1	5,768.6	0.00	0.00	0.00
12,000.0	90.00	359.75	6,086.0	-1,400.05	5,825.3	783.7	5,868.2	0.00	0.00	0.00
12,100.0	90.00	359.75	6,086.0	-1,400.05	5,925.3	783.2	5,967.9	0.00	0.00	0.00
12,200.0	90.00	359.75	6,086.0	-1,400.05	6,025.3	782.8	6,067.6	0.00	0.00	0.00
12,300.0	90.00	359.75	6,086.0	-1,400.05	6,125.3	782.3	6,167.2	0.00	0.00	0.00
12,400.0	90.00	359.75	6,086.0	-1,400.05	6,225.3	781.9	6,266.9	0.00	0.00	0.00
12,500.0	90.00	359.75	6,086.0	-1,400.05	6,325.3	781.5	6,366.6	0.00	0.00	0.00
12,600.0	90.00	359.75	6,086.0	-1,400.05	6,425.3	781.0	6,466.3	0.00	0.00	0.00
12,700.0	90.00	359.75	6,086.0	-1,400.05	6,525.3	780.6	6,565.9	0.00	0.00	0.00
12,800.0	90.00	359.75	6,086.0	-1,400.05	6,625.3	780.2	6,665.6	0.00	0.00	0.00
12,900.0	90.00	359.75	6,086.0	-1,400.05	6,725.3	779.7	6,765.3	0.00	0.00	0.00
13,000.0	90.00	359.75	6,086.0	-1,400.05	6,825.3	779.3	6,864.9	0.00	0.00	0.00
13,100.0	90.00	359.75	6,086.0	-1,400.05	6,925.3	778.9	6,964.6	0.00	0.00	0.00
13,200.0	90.00	359.75	6,086.0	-1,400.05	7,025.3	778.4	7,064.3	0.00	0.00	0.00
13,300.0	90.00	359.75	6,086.0	-1,400.05	7,125.3	778.0	7,164.0	0.00	0.00	0.00
13,400.0	90.00	359.75	6,086.0	-1,400.05	7,225.3	777.5	7,263.6	0.00	0.00	0.00
13,500.0	90.00	359.75	6,086.0	-1,400.05	7,325.3	777.1	7,363.3	0.00	0.00	0.00
13,600.0	90.00	359.75	6,086.0	-1,400.05	7,425.3	776.7	7,463.0	0.00	0.00	0.00
13,700.0	90.00	359.75	6,086.0	-1,400.05	7,525.3	776.2	7,562.6	0.00	0.00	0.00
13,800.0	90.00	359.75	6,086.0	-1,400.05	7,625.3	775.8	7,662.3	0.00	0.00	0.00
13,900.0	90.00	359.75	6,086.0	-1,400.05	7,725.3	775.4	7,762.0	0.00	0.00	0.00
14,000.0	90.00	359.75	6,086.0	-1,400.05	7,825.3	774.9	7,861.7	0.00	0.00	0.00
14,100.0	90.00	359.75	6,086.0	-1,400.05	7,925.3	774.5	7,961.3	0.00	0.00	0.00
14,200.0	90.00	359.75	6,086.0	-1,400.05	8,025.3	774.1	8,061.0	0.00	0.00	0.00
14,300.0	90.00	359.75	6,086.0	-1,400.05	8,125.3	773.6	8,160.7	0.00	0.00	0.00
14,400.0	90.00	359.75	6,086.0	-1,400.05	8,225.3	773.2	8,260.3	0.00	0.00	0.00
14,500.0	90.00	359.75	6,086.0	-1,400.05	8,325.3	772.7	8,360.0	0.00	0.00	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN O24-15-10XRLNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4686.0usft (Original Well Elev)
<b>Site:</b>	SE SW SEC. 15 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN O24-15-10XRLNB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
14,600.0	90.00	359.75	6,086.0	-1,400.05	8,425.3	772.3	8,459.7	0.00	0.00	0.00
14,700.0	90.00	359.75	6,086.0	-1,400.05	8,525.3	771.9	8,559.4	0.00	0.00	0.00
14,800.0	90.00	359.75	6,086.0	-1,400.05	8,625.3	771.4	8,659.0	0.00	0.00	0.00
14,900.0	90.00	359.75	6,086.0	-1,400.05	8,725.3	771.0	8,758.7	0.00	0.00	0.00
15,000.0	90.00	359.75	6,086.0	-1,400.05	8,825.3	770.6	8,858.4	0.00	0.00	0.00
15,100.0	90.00	359.75	6,086.0	-1,400.05	8,925.3	770.1	8,958.0	0.00	0.00	0.00
15,200.0	90.00	359.75	6,086.0	-1,400.05	9,025.3	769.7	9,057.7	0.00	0.00	0.00
15,300.0	90.00	359.75	6,086.0	-1,400.05	9,125.3	769.3	9,157.4	0.00	0.00	0.00
15,400.0	90.00	359.75	6,086.0	-1,400.05	9,225.3	768.8	9,257.1	0.00	0.00	0.00
15,500.0	90.00	359.75	6,086.0	-1,400.05	9,325.3	768.4	9,356.7	0.00	0.00	0.00
15,600.0	90.00	359.75	6,086.0	-1,400.05	9,425.3	767.9	9,456.4	0.00	0.00	0.00
15,700.0	90.00	359.75	6,086.0	-1,400.05	9,525.3	767.5	9,556.1	0.00	0.00	0.00
15,800.0	90.00	359.75	6,086.0	-1,400.05	9,625.3	767.1	9,655.7	0.00	0.00	0.00
15,900.0	90.00	359.75	6,086.0	-1,400.05	9,725.3	766.6	9,755.4	0.00	0.00	0.00
16,000.0	90.00	359.75	6,086.0	-1,400.05	9,825.3	766.2	9,855.1	0.00	0.00	0.00
16,100.0	90.00	359.75	6,086.0	-1,400.05	9,925.3	765.8	9,954.8	0.00	0.00	0.00
<b>BHL - PRONGHORN O24-15-10XRLNB</b>										
<b>16,138.7</b>	<b>90.00</b>	<b>359.75</b>	<b>6,086.0</b>	<b>-1,400.00</b>	<b>9,963.9</b>	<b>765.7</b>	<b>9,993.3</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)	
800.0	800.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1,370.5	1,366.7	-15.8	54.4	EOB TO 11.41° INC
5,062.7	4,986.0	-219.7	755.7	END OF TANGENT
5,633.2	5,552.7	-235.5	810.1	EOD TO VERTICAL
5,663.2	5,582.7	-235.5	810.1	KOP (12°/100ft BUR)
6,288.2	6,043.9	118.4	808.6	START OF TANGENT
6,388.2	6,069.8	215.0	808.1	END OF TANGENT
6,513.2	6,086.0	338.6	807.6	7" ICP *NEW* - PRONGHORN O24-15-10XRLNB
16,138.7	6,086.0	9,963.9	765.7	BHL - PRONGHORN O24-15-10XRLNB