

# **BONANZA CREEK ENERGY INC.**

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

**NW NE SEC. 22 T5N R61W 6th P.M.**

**PRONGHORN U-Y-22HNB**

**ORIGINAL WELLBORE**

**09 May, 2014**

**Plan: PROPOSAL #1**



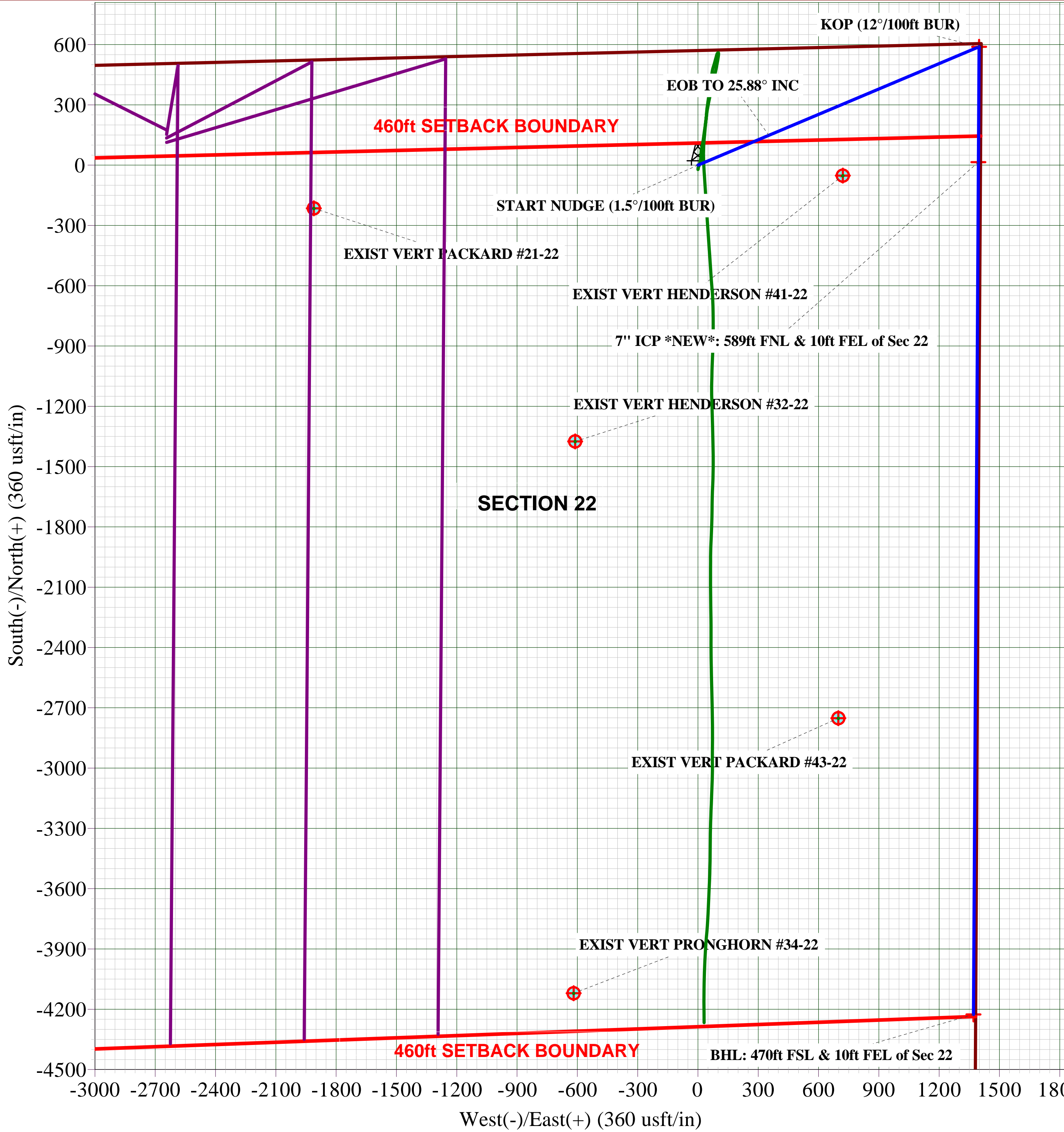
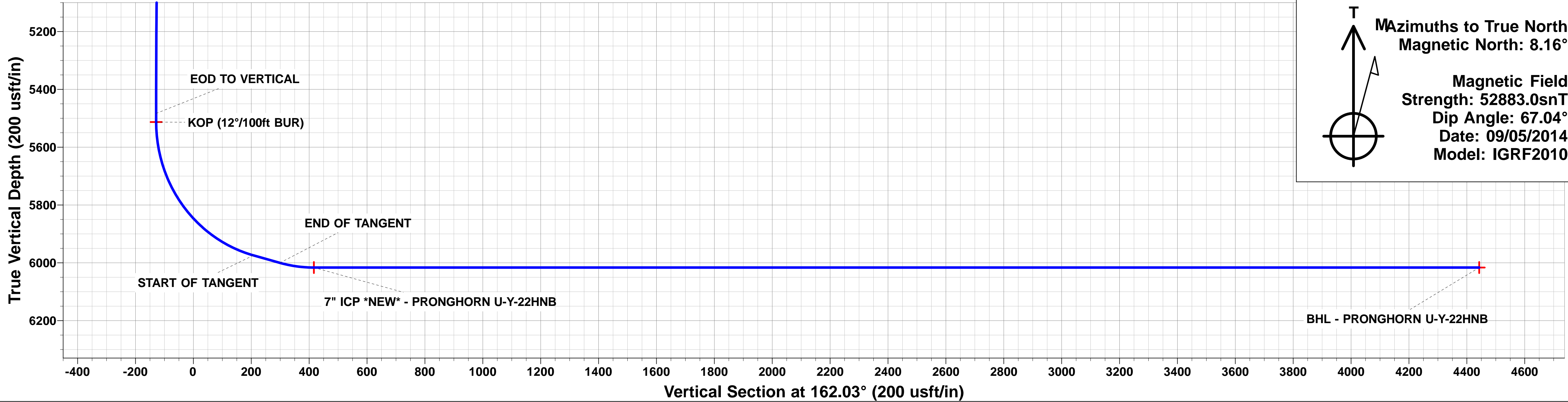
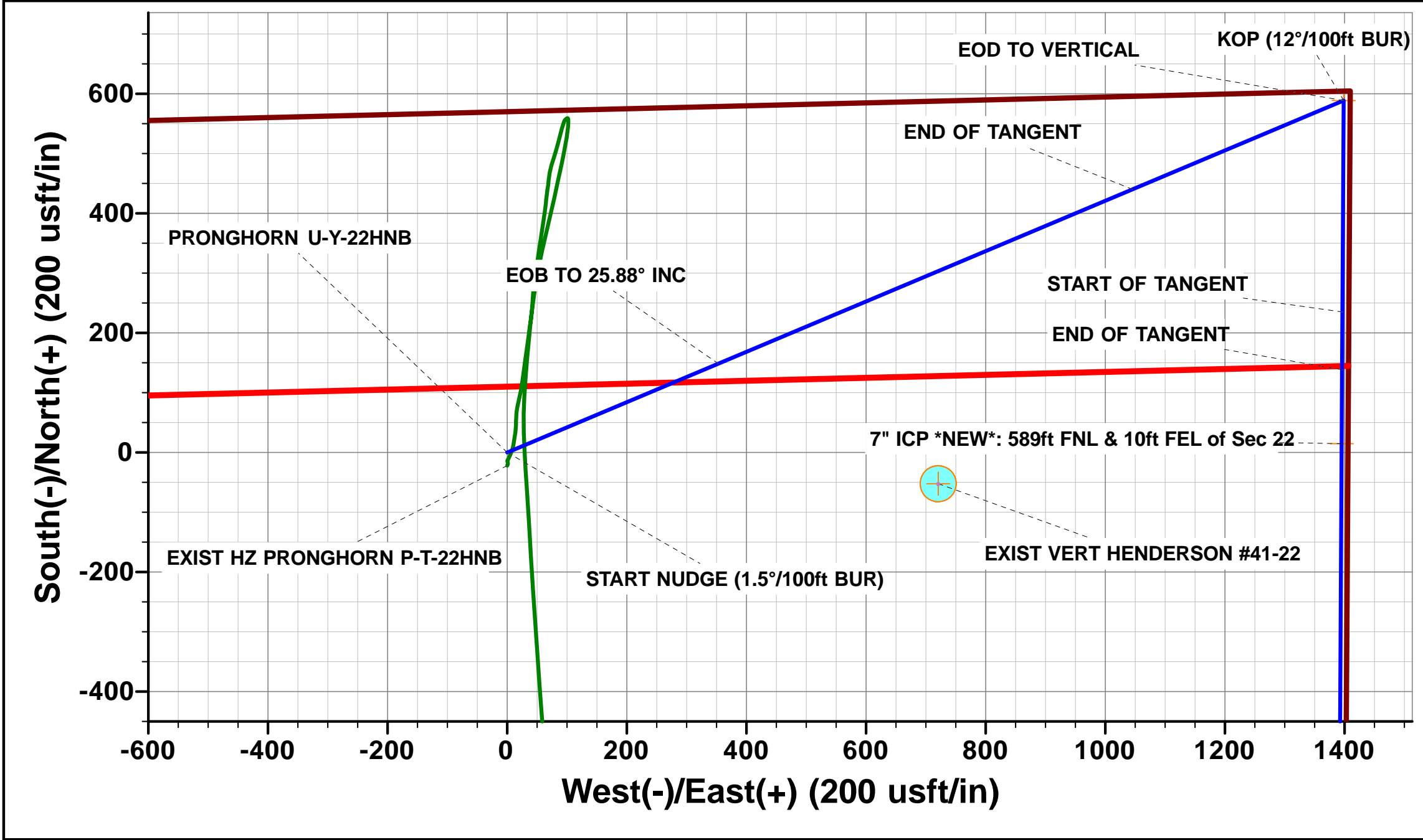
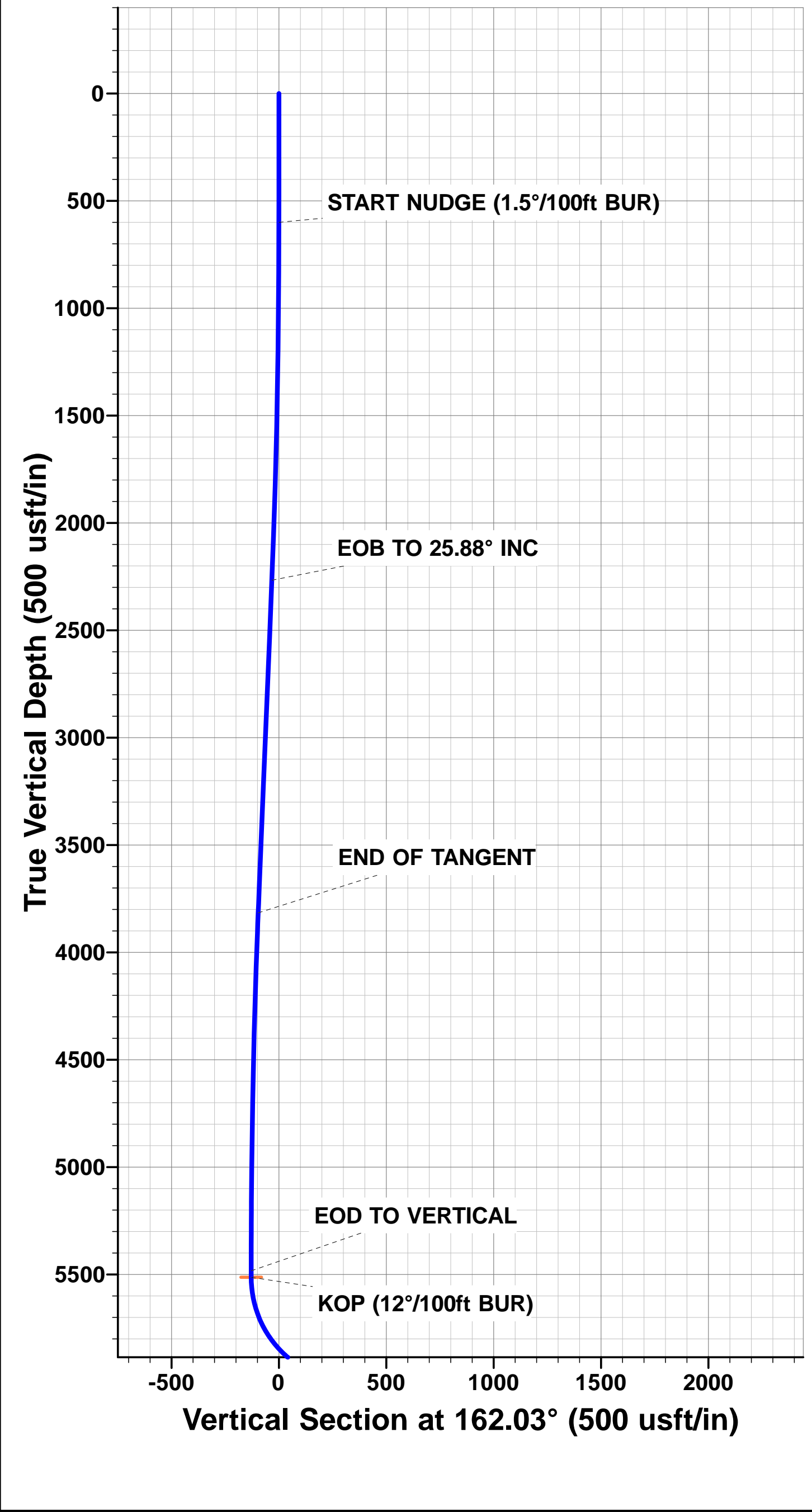


Project: WELD COUNTY, COLORADO (NAD 83)  
Site: NW NE SEC. 22 T5N R61W 6th P.M.  
Well: PRONGHORN U-Y-22HNB  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation	
600.0	600.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (1.5°/100ft BUR)	
2267.2	2325.2	25.88	67.16	148.7	353.0	-32.5	383.0	EOB TO 25.88° INC	
3816.0	4046.7	25.88	67.16	440.2	1045.5	-96.2	1134.4	END OF TANGENT	
5483.2	5772.0	0.00	0.00	588.9	1398.5	-128.7	1517.4	EOD TO VERTICAL	
5513.2	5802.0	0.00	0.00	588.9	1398.5	-128.7	1517.4	KOP (12°/100ft BUR)	
5974.4	6427.0	75.00	180.33	235.0	1396.5	207.3	1871.3	START OF TANGENT	
6000.3	6527.0	75.00	180.33	138.4	1395.9	299.0	1967.9	END OF TANGENT	
6016.5	6652.0	90.00	180.33	14.9	1395.2	416.3	2091.5	7" ICP *NEW*: 589ft FNL & 10ft FEL of Sec 22	
6016.5	10892.8	90.00	180.33	-4226.0	1370.7	4442.7	6332.4	BHL: 470ft FSL & 10ft FEL of Sec 22	

LOCAL COORDINATES:	
SHL: 570ft FNL & 1405ft FEL Sec 22	
7" ICP *NEW*: ft 589ft FNL & 10ft FEL Sec 22	
BHL: 470ft FSL & 10ft FEL Sec 22	

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PRONGHORN U-Y-22HNB	5513.2	588.9	1398.5	40.393896	-104.185339
BHL - PRONGHORN U-Y-22HNB	6016.5	-4226.0	1370.7	40.380680	-104.185440
7" ICP *NEW* - PRONGHORN U-Y-22HNB	6016.5	14.9	1395.2	40.392321	-104.185351



# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN U-Y-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Site:</b>	NW NE SEC. 22 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN U-Y-22HNB	<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>	NW NE SEC. 22 T5N R61W 6th P.M.		
<b>Site Position:</b>		<b>Northing:</b>	1,388,441.77 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	3,364,776.58 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	1.10000ft
		<b>Latitude:</b>	40.392280
		<b>Longitude:</b>	-104.190360
		<b>Grid Convergence:</b>	0.85 °

<b>Well</b>	PRONGHORN U-Y-22HNB		
<b>Well Position</b>	<b>+N-S</b>	0.0 usft	<b>Northing:</b> 1,388,441.77 usft
	<b>+E-W</b>	0.0 usft	<b>Easting:</b> 3,364,776.58 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	usft
		<b>Latitude:</b>	40.392280
		<b>Longitude:</b>	-104.190360
		<b>Ground Level:</b>	4,572.5 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	09/05/2014	8.16	67.04	52,883

<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>
	0.0	0.0	0.0	162.03

<b>Plan Sections</b>											
MD (usft)	Inc (°)	Azi (°)	Vertical Depth	SS (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	-4,589.5	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	-3,989.5	0.0	0.0	0.00	0.00	0.00	0.00	
2,325.2	25.88	67.16	2,267.2	-2,322.3	148.7	353.0	1.50	1.50	0.00	67.16	
4,046.7	25.88	67.16	3,816.0	-773.5	440.2	1,045.5	0.00	0.00	0.00	0.00	
5,772.0	0.00	0.00	5,483.2	893.7	588.9	1,398.5	1.50	-1.50	0.00	180.00	
5,802.0	0.00	0.00	5,513.2	923.7	588.9	1,398.5	0.00	0.00	0.00	0.00	KOP - PRONGHOF
6,427.0	75.00	180.33	5,974.4	1,384.9	235.0	1,396.5	12.00	12.00	0.00	180.33	
6,527.0	75.00	180.33	6,000.3	1,410.8	138.4	1,395.9	0.00	0.00	0.00	0.00	
6,652.0	90.00	180.33	6,016.5	1,427.0	14.9	1,395.2	12.00	12.00	0.00	0.00	
10,892.8	90.00	180.33	6,016.5	1,427.0	-4,226.0	1,370.7	0.00	0.00	0.00	47.85	BHL - PRONGHOR

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN U-Y-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Site:</b>	NW NE SEC. 22 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN U-Y-22HNB	<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	4,589.50	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,489.50	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,389.50	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,289.50	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,189.50	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,089.50	0.0	0.0	0.0	0.00	0.00	0.00
<b>START NUDGE (1.5°/100ft BUR)</b>										
600.0	0.00	0.00	600.0	3,989.50	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.50	67.16	700.0	3,889.51	0.5	1.2	-0.1	1.50	1.50	0.00
800.0	3.00	67.16	799.9	3,789.59	2.0	4.8	-0.4	1.50	1.50	0.00
900.0	4.50	67.16	899.7	3,689.81	4.6	10.9	-1.0	1.50	1.50	0.00
1,000.0	6.00	67.16	999.3	3,590.23	8.1	19.3	-1.8	1.50	1.50	0.00
1,100.0	7.50	67.16	1,098.6	3,490.93	12.7	30.1	-2.8	1.50	1.50	0.00
1,200.0	9.00	67.16	1,197.5	3,391.96	18.3	43.3	-4.0	1.50	1.50	0.00
1,300.0	10.50	67.16	1,296.1	3,293.41	24.8	58.9	-5.4	1.50	1.50	0.00
1,400.0	12.00	67.16	1,394.2	3,195.34	32.4	76.9	-7.1	1.50	1.50	0.00
1,500.0	13.50	67.16	1,491.7	3,097.80	41.0	97.3	-9.0	1.50	1.50	0.00
1,600.0	15.00	67.16	1,588.6	3,000.88	50.5	120.0	-11.0	1.50	1.50	0.00
1,700.0	16.50	67.16	1,684.9	2,904.64	61.0	145.0	-13.3	1.50	1.50	0.00
1,800.0	18.00	67.16	1,780.4	2,809.14	72.6	172.3	-15.9	1.50	1.50	0.00
1,900.0	19.50	67.16	1,875.0	2,714.45	85.0	201.9	-18.6	1.50	1.50	0.00
2,000.0	21.00	67.16	1,968.9	2,620.64	98.5	233.8	-21.5	1.50	1.50	0.00
2,100.0	22.50	67.16	2,061.7	2,527.76	112.8	268.0	-24.7	1.50	1.50	0.00
2,200.0	24.00	67.16	2,153.6	2,435.88	128.2	304.3	-28.0	1.50	1.50	0.00
2,300.0	25.50	67.16	2,244.4	2,345.07	144.4	342.9	-31.6	1.50	1.50	0.00
<b>EOB TO 25.88° INC</b>										
2,325.2	25.88	67.16	2,267.2	2,322.34	148.7	353.0	-32.5	1.50	1.50	0.00
2,400.0	25.88	67.16	2,334.4	2,255.06	161.3	383.1	-35.3	0.00	0.00	0.00
2,500.0	25.88	67.16	2,424.4	2,165.09	178.3	423.3	-39.0	0.00	0.00	0.00
2,600.0	25.88	67.16	2,514.4	2,075.12	195.2	463.5	-42.7	0.00	0.00	0.00
2,700.0	25.88	67.16	2,604.4	1,985.14	212.1	503.8	-46.4	0.00	0.00	0.00
2,800.0	25.88	67.16	2,694.3	1,895.17	229.1	544.0	-50.1	0.00	0.00	0.00
2,900.0	25.88	67.16	2,784.3	1,805.20	246.0	584.2	-53.8	0.00	0.00	0.00
3,000.0	25.88	67.16	2,874.3	1,715.23	262.9	624.4	-57.5	0.00	0.00	0.00
3,100.0	25.88	67.16	2,964.2	1,625.25	279.9	664.7	-61.2	0.00	0.00	0.00
3,200.0	25.88	67.16	3,054.2	1,535.28	296.8	704.9	-64.9	0.00	0.00	0.00
3,300.0	25.88	67.16	3,144.2	1,445.31	313.8	745.1	-68.6	0.00	0.00	0.00
3,400.0	25.88	67.16	3,234.2	1,355.34	330.7	785.3	-72.3	0.00	0.00	0.00
3,500.0	25.88	67.16	3,324.1	1,265.37	347.6	825.6	-76.0	0.00	0.00	0.00
3,600.0	25.88	67.16	3,414.1	1,175.39	364.6	865.8	-79.7	0.00	0.00	0.00
3,700.0	25.88	67.16	3,504.1	1,085.42	381.5	906.0	-83.4	0.00	0.00	0.00
3,800.0	25.88	67.16	3,594.1	995.45	398.5	946.2	-87.1	0.00	0.00	0.00
3,900.0	25.88	67.16	3,684.0	905.48	415.4	986.5	-90.8	0.00	0.00	0.00
4,000.0	25.88	67.16	3,774.0	815.50	432.3	1,026.7	-94.5	0.00	0.00	0.00
<b>END OF TANGENT</b>										
4,046.7	25.88	67.16	3,816.0	773.46	440.2	1,045.5	-96.2	0.00	0.00	0.00
4,100.0	25.08	67.16	3,864.1	725.37	449.1	1,066.6	-98.1	1.50	-1.50	0.00
4,200.0	23.58	67.16	3,955.2	634.25	465.1	1,104.6	-101.6	1.50	-1.50	0.00
4,300.0	22.08	67.16	4,047.4	542.09	480.2	1,140.3	-104.9	1.50	-1.50	0.00
4,400.0	20.58	67.16	4,140.6	448.94	494.3	1,173.9	-108.0	1.50	-1.50	0.00
4,500.0	19.08	67.16	4,234.6	354.87	507.5	1,205.1	-110.9	1.50	-1.50	0.00
4,600.0	17.58	67.16	4,329.5	259.95	519.7	1,234.1	-113.6	1.50	-1.50	0.00
4,700.0	16.08	67.16	4,425.3	164.24	530.9	1,260.8	-116.0	1.50	-1.50	0.00

# Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well PRONGHORN U-Y-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Site:</b>	NW NE SEC. 22 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN U-Y-22HNB	<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)
4,800.0	14.58	67.16	4,521.7	67.80	541.2	1,285.1	-118.3	1.50	-1.50	0.00
4,900.0	13.08	67.16	4,618.8	-29.30	550.4	1,307.2	-120.3	1.50	-1.50	0.00
5,000.0	11.58	67.16	4,716.5	-126.99	558.7	1,326.9	-122.1	1.50	-1.50	0.00
5,100.0	10.08	67.16	4,814.7	-225.21	566.0	1,344.2	-123.7	1.50	-1.50	0.00
5,200.0	8.58	67.16	4,913.4	-323.88	572.3	1,359.1	-125.1	1.50	-1.50	0.00
5,300.0	7.08	67.16	5,012.4	-422.95	577.6	1,371.7	-126.2	1.50	-1.50	0.00
5,400.0	5.58	67.16	5,111.8	-522.34	581.9	1,381.8	-127.2	1.50	-1.50	0.00
5,500.0	4.08	67.16	5,211.5	-621.98	585.1	1,389.6	-127.9	1.50	-1.50	0.00
5,600.0	2.58	67.16	5,311.3	-721.81	587.4	1,394.9	-128.4	1.50	-1.50	0.00
5,700.0	1.08	67.16	5,411.3	-821.75	588.6	1,397.9	-128.6	1.50	-1.50	0.00
<b>EOD TO VERTICAL</b>										
<b>5,772.0</b>	<b>0.00</b>	<b>0.00</b>	<b>5,483.2</b>	<b>-893.70</b>	<b>588.9</b>	<b>1,398.5</b>	<b>-128.7</b>	<b>1.50</b>	<b>-1.50</b>	<b>0.00</b>
5,800.0	0.00	0.00	5,511.2	-921.75	588.9	1,398.5	-128.7	0.00	0.00	0.00
<b>KOP (12°/100ft BUR)</b>										
<b>5,802.0</b>	<b>0.00</b>	<b>0.00</b>	<b>5,513.2</b>	<b>-923.70</b>	<b>588.9</b>	<b>1,398.5</b>	<b>-128.7</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
5,900.0	11.77	180.33	5,610.6	-1,021.06	578.9	1,398.4	-119.2	12.00	12.00	0.00
6,000.0	23.77	180.33	5,705.6	-1,116.12	548.4	1,398.3	-90.2	12.00	12.00	0.00
6,100.0	35.77	180.33	5,792.3	-1,202.77	498.9	1,398.0	-43.2	12.00	12.00	0.00
6,200.0	47.77	180.33	5,866.7	-1,277.22	432.4	1,397.6	19.9	12.00	12.00	0.00
6,300.0	59.77	180.33	5,925.7	-1,336.22	351.9	1,397.1	96.4	12.00	12.00	0.00
6,400.0	71.77	180.33	5,966.7	-1,377.19	260.8	1,396.6	182.8	12.00	12.00	0.00
<b>START OF TANGENT</b>										
<b>6,427.0</b>	<b>75.00</b>	<b>180.33</b>	<b>5,974.4</b>	<b>-1,384.90</b>	<b>235.0</b>	<b>1,396.5</b>	<b>207.3</b>	<b>12.00</b>	<b>12.00</b>	<b>0.00</b>
6,500.0	75.00	180.33	5,993.3	-1,403.80	164.5	1,396.1	274.3	0.00	0.00	0.00
<b>END OF TANGENT</b>										
<b>6,527.0</b>	<b>75.00</b>	<b>180.33</b>	<b>6,000.3</b>	<b>-1,410.78</b>	<b>138.4</b>	<b>1,395.9</b>	<b>299.0</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>
6,600.0	83.77	180.33	6,013.7	-1,424.22	66.7	1,395.5	367.1	12.00	12.00	0.00
<b>7" ICP *NEW*: 589ft FNL &amp; 10ft FEL of Sec 22</b>										
<b>6,652.0</b>	<b>90.00</b>	<b>180.33</b>	<b>6,016.5</b>	<b>-1,427.05</b>	<b>14.9</b>	<b>1,395.2</b>	<b>416.3</b>	<b>12.00</b>	<b>12.00</b>	<b>0.00</b>
6,700.0	90.00	180.33	6,016.5	-1,427.05	-33.2	1,394.9	462.0	0.00	0.00	0.00
6,800.0	90.00	180.33	6,016.5	-1,427.05	-133.2	1,394.3	556.9	0.00	0.00	0.00
6,900.0	90.00	180.33	6,016.5	-1,427.05	-233.2	1,393.8	651.8	0.00	0.00	0.00
7,000.0	90.00	180.33	6,016.5	-1,427.05	-333.2	1,393.2	746.8	0.00	0.00	0.00
7,100.0	90.00	180.33	6,016.5	-1,427.05	-433.2	1,392.6	841.7	0.00	0.00	0.00
7,200.0	90.00	180.33	6,016.5	-1,427.05	-533.2	1,392.0	936.7	0.00	0.00	0.00
7,300.0	90.00	180.33	6,016.5	-1,427.05	-633.2	1,391.5	1,031.6	0.00	0.00	0.00
7,400.0	90.00	180.33	6,016.5	-1,427.05	-733.2	1,390.9	1,126.5	0.00	0.00	0.00
7,500.0	90.00	180.33	6,016.5	-1,427.04	-833.2	1,390.3	1,221.5	0.00	0.00	0.00
7,600.0	90.00	180.33	6,016.5	-1,427.04	-933.2	1,389.7	1,316.4	0.00	0.00	0.00
7,700.0	90.00	180.33	6,016.5	-1,427.04	-1,033.2	1,389.2	1,411.4	0.00	0.00	0.00
7,800.0	90.00	180.33	6,016.5	-1,427.04	-1,133.2	1,388.6	1,506.3	0.00	0.00	0.00
7,900.0	90.00	180.33	6,016.5	-1,427.04	-1,233.2	1,388.0	1,601.3	0.00	0.00	0.00
8,000.0	90.00	180.33	6,016.5	-1,427.04	-1,333.2	1,387.4	1,696.2	0.00	0.00	0.00
8,100.0	90.00	180.33	6,016.5	-1,427.04	-1,433.2	1,386.8	1,791.1	0.00	0.00	0.00
8,200.0	90.00	180.33	6,016.5	-1,427.04	-1,533.2	1,386.3	1,886.1	0.00	0.00	0.00
8,300.0	90.00	180.33	6,016.5	-1,427.04	-1,633.2	1,385.7	1,981.0	0.00	0.00	0.00
8,400.0	90.00	180.33	6,016.5	-1,427.04	-1,733.2	1,385.1	2,076.0	0.00	0.00	0.00
8,500.0	90.00	180.33	6,016.5	-1,427.04	-1,833.2	1,384.5	2,170.9	0.00	0.00	0.00
8,600.0	90.00	180.33	6,016.5	-1,427.04	-1,933.2	1,384.0	2,265.8	0.00	0.00	0.00
8,700.0	90.00	180.33	6,016.5	-1,427.04	-2,033.2	1,383.4	2,360.8	0.00	0.00	0.00
8,800.0	90.00	180.33	6,016.5	-1,427.03	-2,133.2	1,382.8	2,455.7	0.00	0.00	0.00
8,900.0	90.00	180.33	6,016.5	-1,427.03	-2,233.2	1,382.2	2,550.7	0.00	0.00	0.00
9,000.0	90.00	180.33	6,016.5	-1,427.03	-2,333.2	1,381.7	2,645.6	0.00	0.00	0.00
9,100.0	90.00	180.33	6,016.5	-1,427.03	-2,433.2	1,381.1	2,740.6	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 U-Y-22HNB
<b>Company:</b>	BONANZA CREEK ENERGY INC.	<b>TVD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Project:</b>	WELD COUNTY, COLORADO (NAD 83)	<b>MD Reference:</b>	KB-EST @ 4589.5usft (Original Well Elev)
<b>Site:</b>	NW NE SEC. 22 T5N R61W 6th P.M.	<b>North Reference:</b>	True
<b>Well:</b>	PRONGHORN U-Y-22HNB	<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	180.33	6,016.5	-1,427.03	-2,533.2	1,380.5	2,835.5	0.00	0.00	0.00
9,300.0	90.00	180.33	6,016.5	-1,427.03	-2,633.2	1,379.9	2,930.4	0.00	0.00	0.00
9,400.0	90.00	180.33	6,016.5	-1,427.03	-2,733.2	1,379.3	3,025.4	0.00	0.00	0.00
9,500.0	90.00	180.33	6,016.5	-1,427.03	-2,833.1	1,378.8	3,120.3	0.00	0.00	0.00
9,600.0	90.00	180.33	6,016.5	-1,427.02	-2,933.1	1,378.2	3,215.3	0.00	0.00	0.00
9,700.0	90.00	180.33	6,016.5	-1,427.02	-3,033.1	1,377.6	3,310.2	0.00	0.00	0.00
9,800.0	90.00	180.33	6,016.5	-1,427.02	-3,133.1	1,377.0	3,405.1	0.00	0.00	0.00
9,900.0	90.00	180.33	6,016.5	-1,427.02	-3,233.1	1,376.5	3,500.1	0.00	0.00	0.00
10,000.0	90.00	180.33	6,016.5	-1,427.02	-3,333.1	1,375.9	3,595.0	0.00	0.00	0.00
10,100.0	90.00	180.33	6,016.5	-1,427.02	-3,433.1	1,375.3	3,690.0	0.00	0.00	0.00
10,200.0	90.00	180.33	6,016.5	-1,427.01	-3,533.1	1,374.7	3,784.9	0.00	0.00	0.00
10,300.0	90.00	180.33	6,016.5	-1,427.01	-3,633.1	1,374.1	3,879.9	0.00	0.00	0.00
10,400.0	90.00	180.33	6,016.5	-1,427.01	-3,733.1	1,373.6	3,974.8	0.00	0.00	0.00
10,500.0	90.00	180.33	6,016.5	-1,427.01	-3,833.1	1,373.0	4,069.7	0.00	0.00	0.00
10,600.0	90.00	180.33	6,016.5	-1,427.01	-3,933.1	1,372.4	4,164.7	0.00	0.00	0.00
10,700.0	90.00	180.33	6,016.5	-1,427.00	-4,033.1	1,371.8	4,259.6	0.00	0.00	0.00
10,800.0	90.00	180.33	6,016.5	-1,427.00	-4,133.1	1,371.3	4,354.6	0.00	0.00	0.00
<b>BHL: 470ft FSL &amp; 10ft FEL of Sec 22</b>										
<b>10,892.8</b>	<b>90.00</b>	<b>180.33</b>	<b>6,016.5</b>	<b>-1,427.00</b>	<b>-4,226.0</b>	<b>1,370.7</b>	<b>4,442.7</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)	
600.0	600.0	0.0	0.0	START NUDGE (1.5°/100ft BUR)
2,325.2	2,267.2	148.7	353.0	EOB TO 25.88° INC
4,046.7	3,816.0	440.2	1,045.5	END OF TANGENT
5,772.0	5,483.2	588.9	1,398.5	EOD TO VERTICAL
5,802.0	5,513.2	588.9	1,398.5	KOP (12°/100ft BUR)
6,427.0	5,974.4	235.0	1,396.5	START OF TANGENT
6,527.0	6,000.3	138.4	1,395.9	END OF TANGENT
6,652.0	6,016.5	14.9	1,395.2	7" ICP *NEW*: 589ft FNL & 10ft FEL of Sec 22
10,892.8	6,016.5	-4,226.0	1,370.7	BHL: 470ft FSL & 10ft FEL of Sec 22