

BONANZA CREEK ENERGY INC.

WELD COUNTY, COLORADO (NAD 83)

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

PRONGHORN 21-24-22HNB

ORIGINAL WELLBORE

25 March, 2014

Plan: PROPOSAL #1





Project: WELD COUNTY, COLORADO (NAD 83)
Site: NW NW SEC. 22 T5N R61W 6th P.M.
Well: PRONGHORN 21-24-22HNB
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

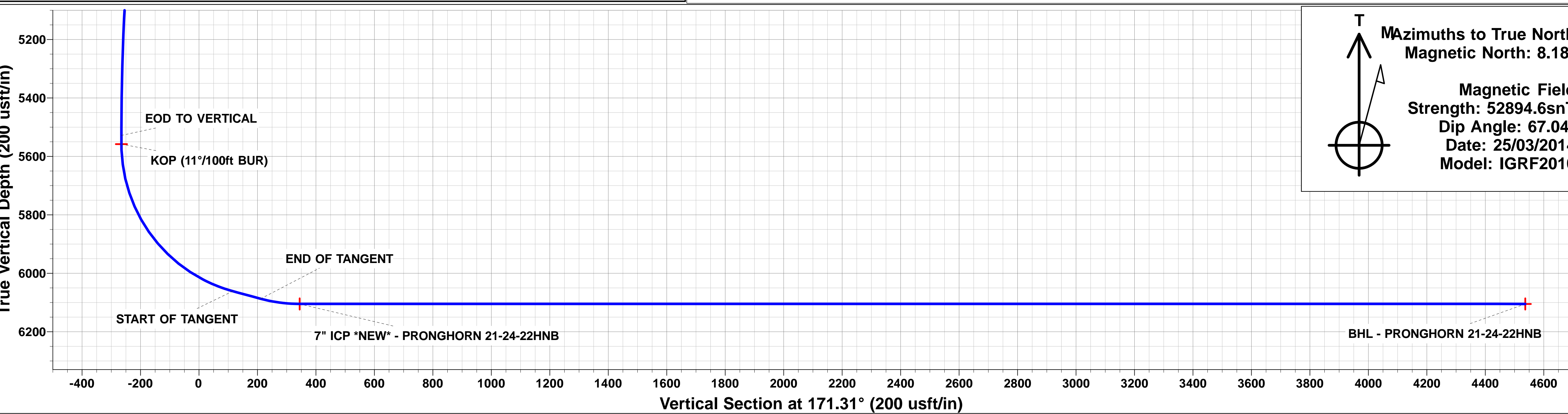
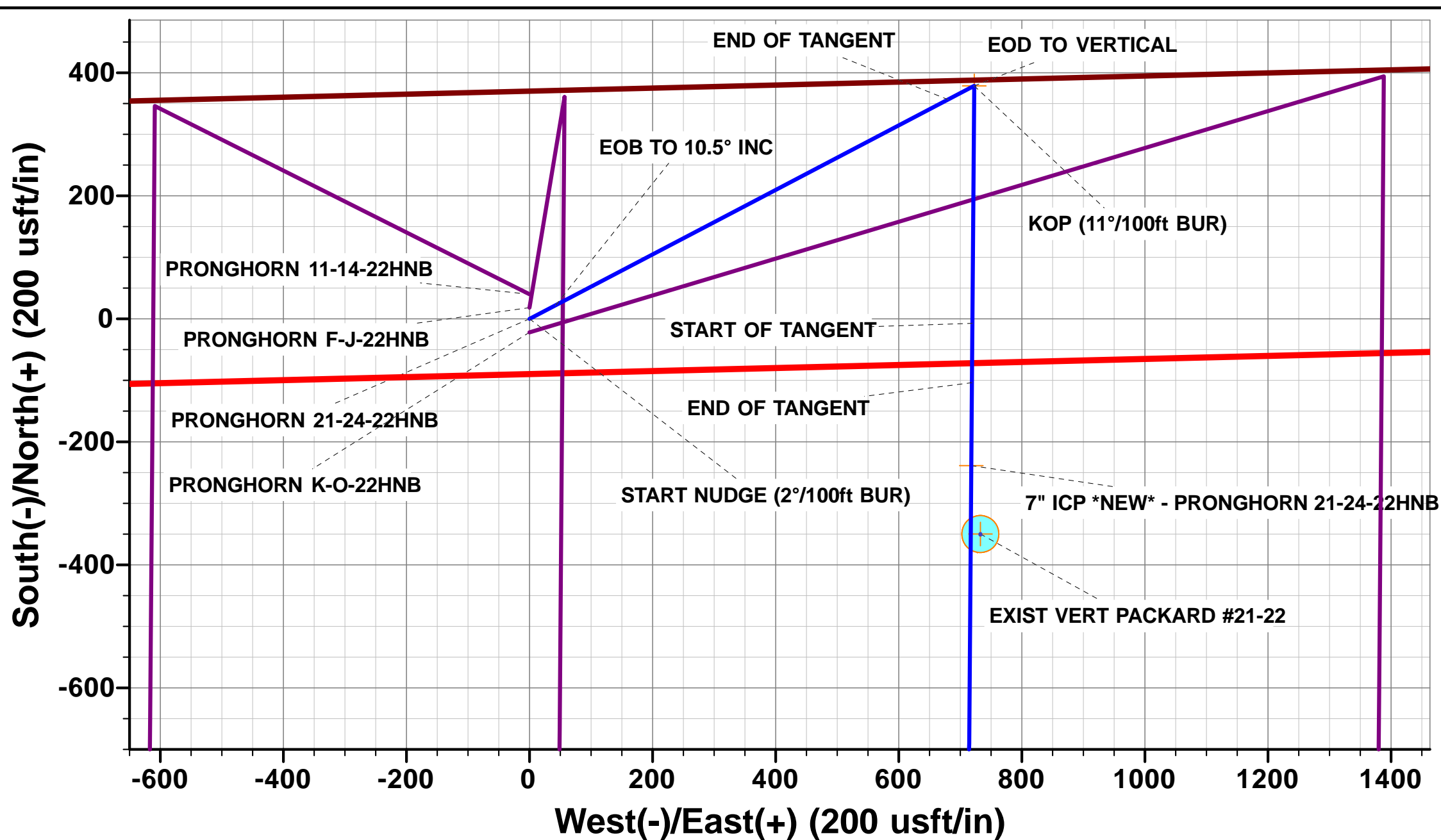
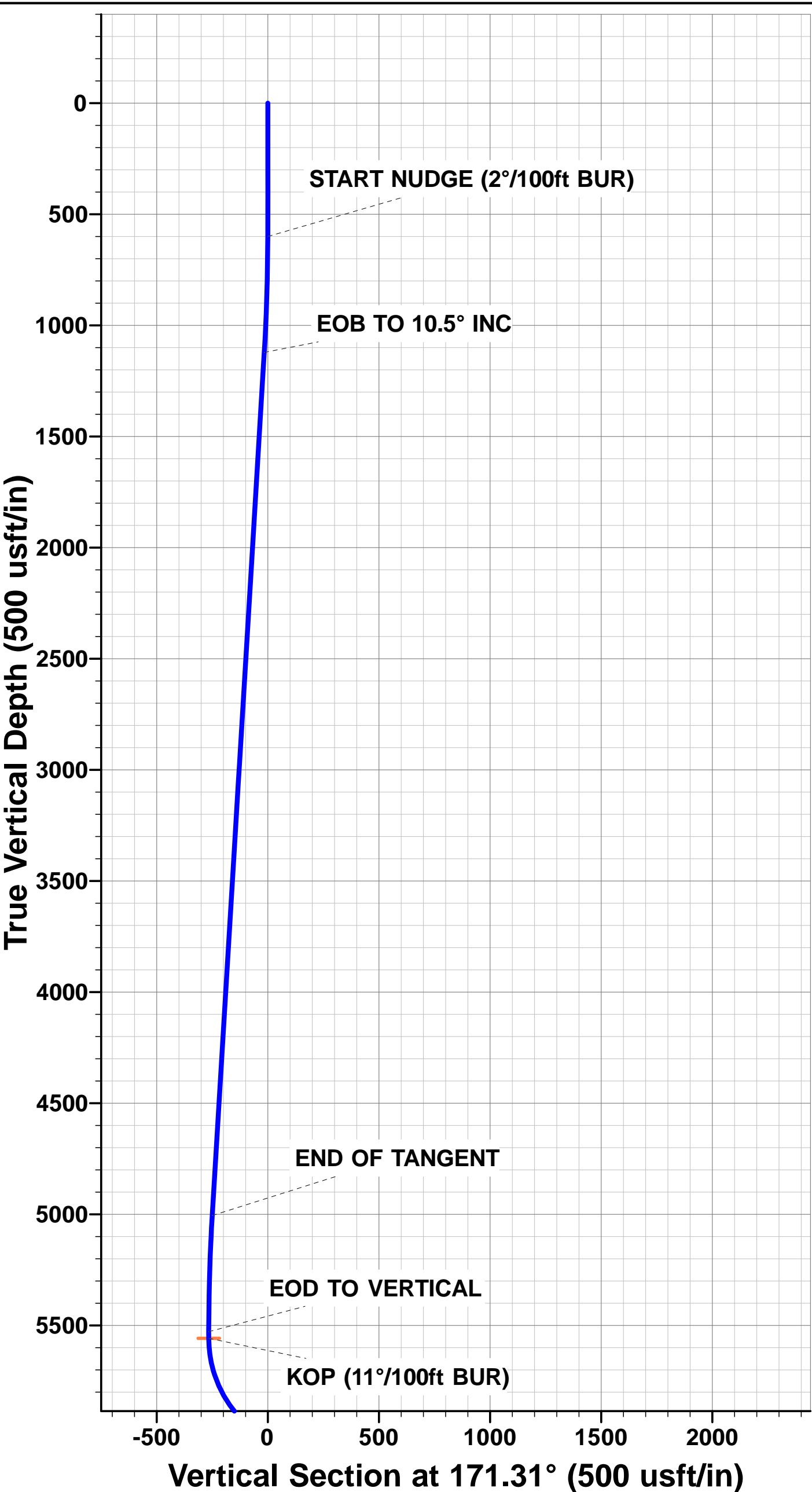
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSec	Dep	Annotation
600.0	600.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)
1122.2	1125.1	10.50	62.33	22.3	42.5	-15.6	48.0	EOB TO 10.5° INC
5006.0	5075.1	10.50	62.33	356.6	680.2	-249.8	768.0	END OF TANGENT
5528.2	5600.2	0.00	0.00	378.9	722.7	-265.4	816.0	EOD TO VERTICAL
5558.2	5630.2	0.00	0.00	378.9	722.7	-265.4	816.0	KOP (11°/100ft BUR)
6061.3	6312.1	75.00	180.44	-7.1	719.7	115.8	1202.1	START OF TANGENT
6087.2	6412.1	75.00	180.44	-103.7	719.0	211.2	1298.7	END OF TANGENT
6105.0	6548.4	90.00	180.44	-238.5	718.0	344.3	1433.5	ICP *NEW* - PRONGHORN 21-24-22HNB
6105.0	10794.7	90.00	180.44	-4484.6	685.4	4536.7	5679.7	BHL - PRONGHORN 21-24-22HNB

LOCAL COORDINATES:

SHL: 372ft FNL & 1279ft FWL Sec 22
7" ICP *NEW*: ft 627.4ft FNL & 2000ft FWL Sec 22
BHL: 470ft FSL & 2000ft FWL Sec 22

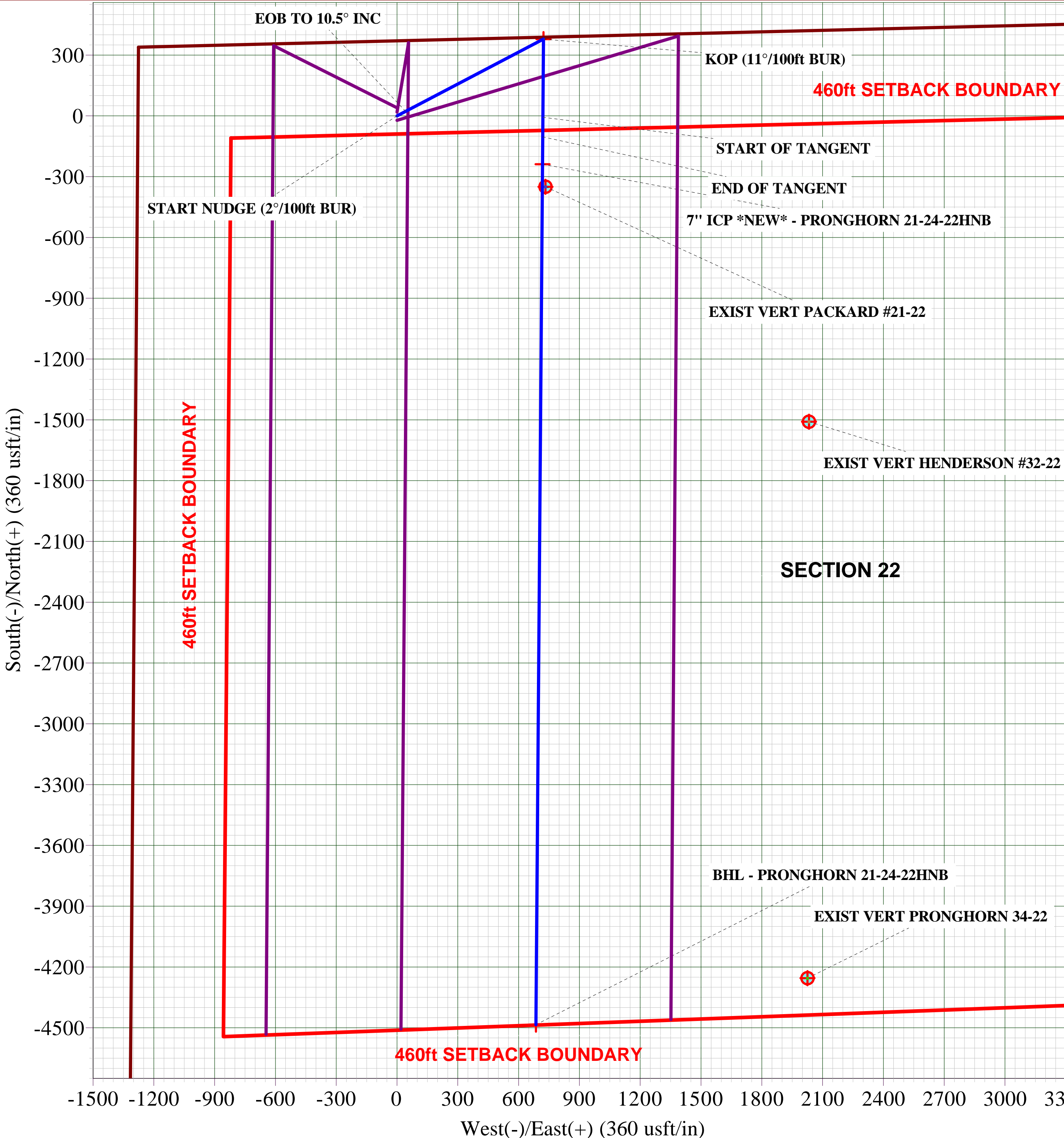
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - PRONGHORN 21-24-22HNB	5558.2	378.9	722.7	40.393690	-104.197255
BHL - PRONGHORN 21-24-22HNB	6105.0	-4484.6	685.4	40.380340	-104.197390
7" ICP *NEW* - PRONGHORN 21-24-22HNB	6105.0	-238.5	718.0	40.391995	-104.197272



Mazimuths to True North
Magnetic North: 8.18°

Magnetic Field
Strength: 52894.6snT
Dip Angle: 67.04°
Date: 25/03/2014
Model: IGRF2010



Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRONGHORN 21-24-22HNB
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4678.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4678.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T5N R61W 6th P.M.	North Reference:	True
Well:	PRONGHORN 21-24-22HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL #1		

Project	WELD COUNTY, COLORADO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site	NW NW SEC. 22 T5N R61W 6th P.M.				
Site Position:		Northing:	1,388,515.79 usft	Latitude:	40.392590
From:	Lat/Long	Easting:	3,362,131.84 usft	Longitude:	-104.199850
Position Uncertainty:	0.0 usft	Slot Radius:	1.10000ft	Grid Convergence:	0.84 °

Well	PRONGHORN 21-24-22HNB					
Well Position	+N-S	21.9 usft	Northing:	1,388,537.64 usft	Latitude:	40.392650
	+E-W	0.0 usft	Easting:	3,362,131.52 usft	Longitude:	-104.199850
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	4,661.0 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	25/03/2014	8.18	67.04	52,895

Design	PROPOSAL #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	6,105.0	0.0	0.0	171.31

Plan Sections											
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	-4,678.0	0.0	0.0	0.00	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	-4,078.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,125.1	10.50	62.33	1,122.2	-3,555.8	22.3	42.5	2.00	2.00	0.00	62.33	
5,075.1	10.50	62.33	5,006.0	328.0	356.6	680.2	0.00	0.00	0.00	0.00	
5,600.2	0.00	0.00	5,528.2	850.2	378.9	722.7	2.00	-2.00	0.00	180.00	
5,630.2	0.00	0.00	5,558.2	880.2	378.9	722.7	0.00	0.00	0.00	0.00	KOP - PRONGHOF
6,312.1	75.00	180.44	6,061.3	1,383.3	-7.1	719.7	11.00	11.00	0.00	180.44	
6,412.1	75.00	180.44	6,087.2	1,409.2	-103.7	719.0	0.00	0.00	0.00	0.00	
6,548.4	90.00	180.44	6,105.0	1,427.0	-238.5	718.0	11.00	11.00	0.00	0.00	
10,794.7	90.00	180.44	6,105.0	1,427.0	-4,484.6	685.4	0.00	0.00	0.00	0.00	BHL - PRONGHOR

Planning Report



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Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4678.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T5N R61W 6th P.M.	North Reference:	True
Well:	PRONGHORN 21-24-22HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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	4,678.00	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	4,578.00	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	4,478.00	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	4,378.00	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	4,278.00	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	4,178.00	0.0	0.0	0.0	0.00	0.00	0.00
START NUDGE (2°/100ft BUR)										
600.0	0.00	0.00	600.0	4,078.00	0.0	0.0	0.0	0.00	0.00	0.00
700.0	2.00	62.33	700.0	3,978.02	0.8	1.5	-0.6	2.00	2.00	0.00
800.0	4.00	62.33	799.8	3,878.16	3.2	6.2	-2.3	2.00	2.00	0.00
900.0	6.00	62.33	899.5	3,778.55	7.3	13.9	-5.1	2.00	2.00	0.00
1,000.0	8.00	62.33	998.7	3,679.30	12.9	24.7	-9.1	2.00	2.00	0.00
1,100.0	10.00	62.33	1,097.5	3,580.53	20.2	38.5	-14.2	2.00	2.00	0.00
EOB TO 10.5° INC										
1,125.1	10.50	62.33	1,122.2	3,555.80	22.3	42.5	-15.6	2.00	2.00	0.00
1,200.0	10.50	62.33	1,195.8	3,482.19	28.6	54.6	-20.0	0.00	0.00	0.00
1,300.0	10.50	62.33	1,294.1	3,383.87	37.1	70.7	-26.0	0.00	0.00	0.00
1,400.0	10.50	62.33	1,392.5	3,285.54	45.6	86.9	-31.9	0.00	0.00	0.00
1,500.0	10.50	62.33	1,490.8	3,187.22	54.0	103.0	-37.8	0.00	0.00	0.00
1,600.0	10.50	62.33	1,589.1	3,088.89	62.5	119.2	-43.8	0.00	0.00	0.00
1,700.0	10.50	62.33	1,687.4	2,990.57	70.9	135.3	-49.7	0.00	0.00	0.00
1,800.0	10.50	62.33	1,785.8	2,892.24	79.4	151.5	-55.6	0.00	0.00	0.00
1,900.0	10.50	62.33	1,884.1	2,793.92	87.9	167.6	-61.5	0.00	0.00	0.00
2,000.0	10.50	62.33	1,982.4	2,695.59	96.3	183.7	-67.5	0.00	0.00	0.00
2,100.0	10.50	62.33	2,080.7	2,597.27	104.8	199.9	-73.4	0.00	0.00	0.00
2,200.0	10.50	62.33	2,179.1	2,498.94	113.3	216.0	-79.3	0.00	0.00	0.00
2,300.0	10.50	62.33	2,277.4	2,400.62	121.7	232.2	-85.3	0.00	0.00	0.00
2,400.0	10.50	62.33	2,375.7	2,302.29	130.2	248.3	-91.2	0.00	0.00	0.00
2,500.0	10.50	62.33	2,474.0	2,203.97	138.7	264.5	-97.1	0.00	0.00	0.00
2,600.0	10.50	62.33	2,572.4	2,105.65	147.1	280.6	-103.0	0.00	0.00	0.00
2,700.0	10.50	62.33	2,670.7	2,007.32	155.6	296.8	-109.0	0.00	0.00	0.00
2,800.0	10.50	62.33	2,769.0	1,909.00	164.0	312.9	-114.9	0.00	0.00	0.00
2,900.0	10.50	62.33	2,867.3	1,810.67	172.5	329.0	-120.8	0.00	0.00	0.00
3,000.0	10.50	62.33	2,965.7	1,712.35	181.0	345.2	-126.8	0.00	0.00	0.00
3,100.0	10.50	62.33	3,064.0	1,614.02	189.4	361.3	-132.7	0.00	0.00	0.00
3,200.0	10.50	62.33	3,162.3	1,515.70	197.9	377.5	-138.6	0.00	0.00	0.00
3,300.0	10.50	62.33	3,260.6	1,417.37	206.4	393.6	-144.5	0.00	0.00	0.00
3,400.0	10.50	62.33	3,359.0	1,319.05	214.8	409.8	-150.5	0.00	0.00	0.00
3,500.0	10.50	62.33	3,457.3	1,220.72	223.3	425.9	-156.4	0.00	0.00	0.00
3,600.0	10.50	62.33	3,555.6	1,122.40	231.8	442.0	-162.3	0.00	0.00	0.00
3,700.0	10.50	62.33	3,653.9	1,024.07	240.2	458.2	-168.2	0.00	0.00	0.00
3,800.0	10.50	62.33	3,752.3	925.75	248.7	474.3	-174.2	0.00	0.00	0.00
3,900.0	10.50	62.33	3,850.6	827.43	257.2	490.5	-180.1	0.00	0.00	0.00
4,000.0	10.50	62.33	3,948.9	729.10	265.6	506.6	-186.0	0.00	0.00	0.00
4,100.0	10.50	62.33	4,047.2	630.78	274.1	522.8	-192.0	0.00	0.00	0.00
4,200.0	10.50	62.33	4,145.5	532.45	282.5	538.9	-197.9	0.00	0.00	0.00
4,300.0	10.50	62.33	4,243.9	434.13	291.0	555.1	-203.8	0.00	0.00	0.00
4,400.0	10.50	62.33	4,342.2	335.80	299.5	571.2	-209.7	0.00	0.00	0.00
4,500.0	10.50	62.33	4,440.5	237.48	307.9	587.3	-215.7	0.00	0.00	0.00
4,600.0	10.50	62.33	4,538.8	139.15	316.4	603.5	-221.6	0.00	0.00	0.00
4,700.0	10.50	62.33	4,637.2	40.83	324.9	619.6	-227.5	0.00	0.00	0.00
4,800.0	10.50	62.33	4,735.5	-57.50	333.3	635.8	-233.5	0.00	0.00	0.00
4,900.0	10.50	62.33	4,833.8	-155.82	341.8	651.9	-239.4	0.00	0.00	0.00
5,000.0	10.50	62.33	4,932.1	-254.15	350.3	668.1	-245.3	0.00	0.00	0.00

Planning Report



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Well:	PRONGHORN 21-24-22HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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)
END OF TANGENT										
5,075.1	10.50	62.33	5,006.0	-328.00	356.6	680.2	-249.8	0.00	0.00	0.00
5,100.0	10.00	62.33	5,030.5	-352.49	358.7	684.1	-251.2	2.00	-2.00	0.00
5,200.0	8.00	62.33	5,129.3	-451.25	365.9	698.0	-256.3	2.00	-2.00	0.00
5,300.0	6.00	62.33	5,228.5	-550.50	371.6	708.8	-260.3	2.00	-2.00	0.00
5,400.0	4.00	62.33	5,328.1	-650.11	375.7	716.5	-263.1	2.00	-2.00	0.00
5,500.0	2.00	62.33	5,428.0	-749.97	378.1	721.1	-264.8	2.00	-2.00	0.00
5,600.0	0.00	62.33	5,528.0	-849.95	378.9	722.7	-265.4	2.00	-2.00	0.00
EOD TO VERTICAL										
5,600.2	0.00	0.00	5,528.2	-850.20	378.9	722.7	-265.4	2.00	-2.00	0.00
KOP (11°/100ft BUR)										
5,630.2	0.00	0.00	5,558.2	-880.20	378.9	722.7	-265.4	0.00	0.00	0.00
5,700.0	7.67	180.44	5,627.7	-949.74	374.2	722.7	-260.8	11.00	11.00	0.00
5,800.0	18.67	180.44	5,725.0	-1,046.96	351.5	722.5	-238.3	11.00	11.00	0.00
5,900.0	29.67	180.44	5,816.1	-1,138.05	310.6	722.2	-197.9	11.00	11.00	0.00
6,000.0	40.67	180.44	5,897.7	-1,219.67	253.1	721.7	-141.1	11.00	11.00	0.00
6,100.0	51.67	180.44	5,966.8	-1,288.81	181.1	721.2	-70.0	11.00	11.00	0.00
6,200.0	62.67	180.44	6,020.9	-1,342.94	97.2	720.5	12.8	11.00	11.00	0.00
6,300.0	73.67	180.44	6,058.1	-1,380.06	4.5	719.8	104.3	11.00	11.00	0.00
START OF TANGENT										
6,312.1	75.00	180.44	6,061.3	-1,383.32	-7.1	719.7	115.8	11.00	11.00	0.00
6,400.0	75.00	180.44	6,084.1	-1,406.08	-92.1	719.1	199.7	0.00	0.00	0.00
END OF TANGENT										
6,412.1	75.00	180.44	6,087.2	-1,409.20	-103.7	719.0	211.2	0.00	0.00	0.00
6,500.0	84.67	180.44	6,102.7	-1,424.70	-190.2	718.3	296.5	11.00	11.00	0.00
ICP *NEW* - PRONGHORN 21-24-22HNB										
6,548.4	90.00	180.44	6,105.0	-1,426.95	-238.5	718.0	344.3	11.00	11.00	0.00
6,600.0	90.00	180.44	6,105.0	-1,426.95	-290.1	717.6	395.2	0.00	0.00	0.00
6,700.0	90.00	180.44	6,105.0	-1,426.95	-390.1	716.8	493.9	0.00	0.00	0.00
6,800.0	90.00	180.44	6,105.0	-1,426.95	-490.1	716.0	592.7	0.00	0.00	0.00
6,900.0	90.00	180.44	6,105.0	-1,426.95	-590.1	715.3	691.4	0.00	0.00	0.00
7,000.0	90.00	180.44	6,105.0	-1,426.95	-690.1	714.5	790.1	0.00	0.00	0.00
7,100.0	90.00	180.44	6,105.0	-1,426.95	-790.1	713.7	888.9	0.00	0.00	0.00
7,200.0	90.00	180.44	6,105.0	-1,426.95	-890.1	713.0	987.6	0.00	0.00	0.00
7,300.0	90.00	180.44	6,105.0	-1,426.95	-990.1	712.2	1,086.3	0.00	0.00	0.00
7,400.0	90.00	180.44	6,105.0	-1,426.95	-1,090.1	711.4	1,185.1	0.00	0.00	0.00
7,500.0	90.00	180.44	6,105.0	-1,426.95	-1,190.1	710.7	1,283.8	0.00	0.00	0.00
7,600.0	90.00	180.44	6,105.0	-1,426.95	-1,290.1	709.9	1,382.5	0.00	0.00	0.00
7,700.0	90.00	180.44	6,105.0	-1,426.95	-1,390.1	709.1	1,481.3	0.00	0.00	0.00
7,800.0	90.00	180.44	6,105.0	-1,426.95	-1,490.1	708.3	1,580.0	0.00	0.00	0.00
7,900.0	90.00	180.44	6,105.0	-1,426.95	-1,590.1	707.6	1,678.7	0.00	0.00	0.00
8,000.0	90.00	180.44	6,105.0	-1,426.95	-1,690.1	706.8	1,777.5	0.00	0.00	0.00
8,100.0	90.00	180.44	6,105.0	-1,426.95	-1,790.1	706.0	1,876.2	0.00	0.00	0.00
8,200.0	90.00	180.44	6,105.0	-1,426.95	-1,890.1	705.3	1,974.9	0.00	0.00	0.00
8,300.0	90.00	180.44	6,105.0	-1,426.95	-1,990.1	704.5	2,073.7	0.00	0.00	0.00
8,400.0	90.00	180.44	6,105.0	-1,426.95	-2,090.1	703.7	2,172.4	0.00	0.00	0.00
8,500.0	90.00	180.44	6,105.0	-1,426.95	-2,190.1	703.0	2,271.1	0.00	0.00	0.00
8,600.0	90.00	180.44	6,105.0	-1,426.95	-2,290.1	702.2	2,369.9	0.00	0.00	0.00
8,700.0	90.00	180.44	6,105.0	-1,426.95	-2,390.1	701.4	2,468.6	0.00	0.00	0.00
8,800.0	90.00	180.44	6,105.0	-1,426.95	-2,490.0	700.7	2,567.3	0.00	0.00	0.00
8,900.0	90.00	180.44	6,105.0	-1,426.95	-2,590.0	699.9	2,666.1	0.00	0.00	0.00
9,000.0	90.00	180.44	6,105.0	-1,426.95	-2,690.0	699.1	2,764.8	0.00	0.00	0.00
9,100.0	90.00	180.44	6,105.0	-1,426.95	-2,790.0	698.4	2,863.5	0.00	0.00	0.00

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well PRONGHORN 21-24-22HNB
Company:	BONANZA CREEK ENERGY INC.	TVD Reference:	KB-EST @ 4678.0usft (Original Well Elev)
Project:	WELD COUNTY, COLORADO (NAD 83)	MD Reference:	KB-EST @ 4678.0usft (Original Well Elev)
Site:	NW NW SEC. 22 T5N R61W 6th P.M.	North Reference:	True
Well:	PRONGHORN 21-24-22HNB	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	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	180.44	6,105.0	-1,426.95	-2,890.0	697.6	2,962.3	0.00	0.00	0.00
9,300.0	90.00	180.44	6,105.0	-1,426.95	-2,990.0	696.8	3,061.0	0.00	0.00	0.00
9,400.0	90.00	180.44	6,105.0	-1,426.95	-3,090.0	696.1	3,159.7	0.00	0.00	0.00
9,500.0	90.00	180.44	6,105.0	-1,426.95	-3,190.0	695.3	3,258.5	0.00	0.00	0.00
9,600.0	90.00	180.44	6,105.0	-1,426.95	-3,290.0	694.5	3,357.2	0.00	0.00	0.00
9,700.0	90.00	180.44	6,105.0	-1,426.95	-3,390.0	693.8	3,455.9	0.00	0.00	0.00
9,800.0	90.00	180.44	6,105.0	-1,426.95	-3,490.0	693.0	3,554.7	0.00	0.00	0.00
9,900.0	90.00	180.44	6,105.0	-1,426.95	-3,590.0	692.2	3,653.4	0.00	0.00	0.00
10,000.0	90.00	180.44	6,105.0	-1,426.95	-3,690.0	691.5	3,752.1	0.00	0.00	0.00
10,100.0	90.00	180.44	6,105.0	-1,426.95	-3,790.0	690.7	3,850.9	0.00	0.00	0.00
10,200.0	90.00	180.44	6,105.0	-1,426.95	-3,890.0	689.9	3,949.6	0.00	0.00	0.00
10,300.0	90.00	180.44	6,105.0	-1,426.95	-3,990.0	689.1	4,048.3	0.00	0.00	0.00
10,400.0	90.00	180.44	6,105.0	-1,426.95	-4,090.0	688.4	4,147.1	0.00	0.00	0.00
10,500.0	90.00	180.44	6,105.0	-1,426.95	-4,190.0	687.6	4,245.8	0.00	0.00	0.00
10,600.0	90.00	180.44	6,105.0	-1,426.95	-4,290.0	686.8	4,344.5	0.00	0.00	0.00
10,700.0	90.00	180.44	6,105.0	-1,426.95	-4,390.0	686.1	4,443.3	0.00	0.00	0.00
BHL - PRONGHORN 21-24-22HNB										
10,794.7	90.00	180.44	6,105.0	-1,427.00	-4,484.6	685.4	4,536.7	0.00	0.00	0.00

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 (2°/100ft BUR)
1,125.1	1,122.2	22.3	42.5	EOB TO 10.5° INC
5,075.1	5,006.0	356.6	680.2	END OF TANGENT
5,600.2	5,528.2	378.9	722.7	EOD TO VERTICAL
5,630.2	5,558.2	378.9	722.7	KOP (11°/100ft BUR)
6,312.1	6,061.3	-7.1	719.7	START OF TANGENT
6,412.1	6,087.2	-103.7	719.0	END OF TANGENT
6,548.4	6,105.0	-238.5	718.0	ICP *NEW* - PRONGHORN 21-24-22HNB
10,794.7	6,105.0	-4,484.6	685.4	BHL - PRONGHORN 21-24-22HNB