



Project: WELD COUNTY, COLORADO
 Site: SW SE SEC. 26 T5N R65W 6th P.M.
 Well: BUNTING 26P-312
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1

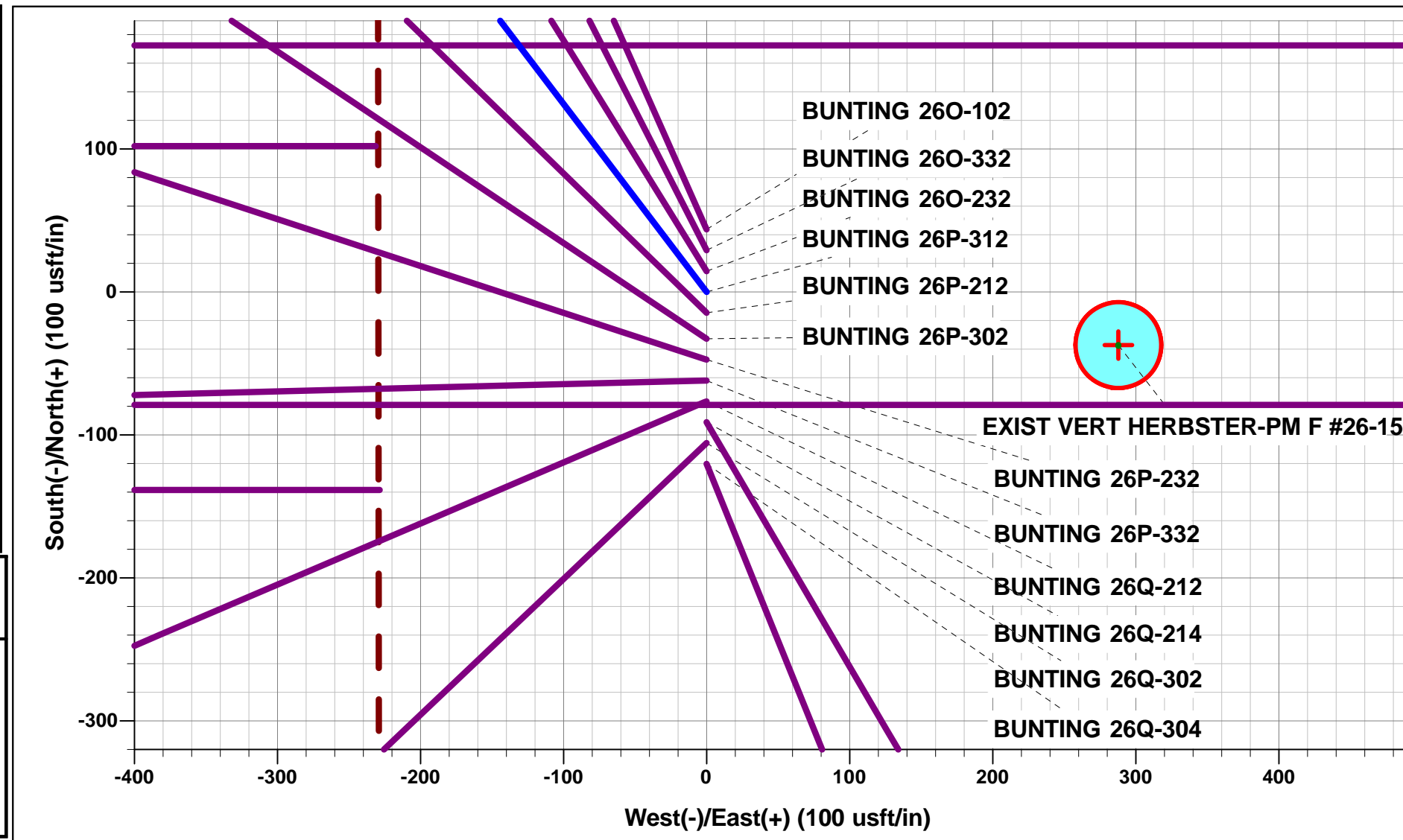


ANNOTATIONS

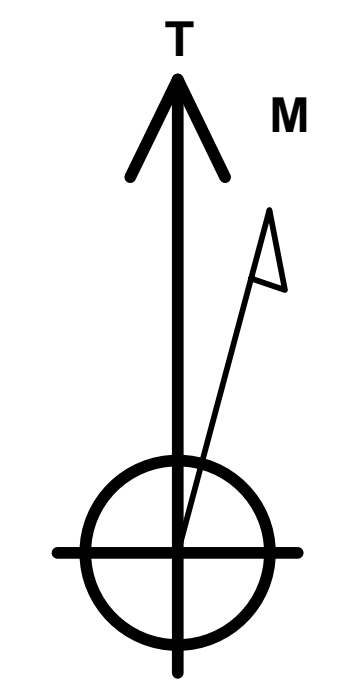
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Dep	Annotation
0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 850ft FSL & 2405ft FEL of Sec 26
600.0	600.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDDGE (2°/100ft BUR)
1205.8	1210.4	12.21	322.75	51.6	-39.2	-33.0	64.8	EOB TO 12.21° INC
5733.0	5842.4	12.21	322.75	831.2	-632.0	-531.8	1044.2	END OF TANGENT
6338.8	6452.7	0.00	0.00	882.8	-671.2	-564.8	1109.0	EOD TO VERTICAL
6368.8	6482.7	0.00	0.00	882.8	-671.2	-564.8	1109.0	KOP (8°/100ft BUR)
6566.2	6682.7	16.00	90.00	882.8	-643.5	-537.2	1136.7	START 12°/100ft BUR
6912.0	7304.0	90.55	90.00	882.8	-179.9	-76.8	1600.3	HZ LP *NEW*: 1736.5ft FSL & 2585ft FEL of Sec 26
6837.0	15077.6	90.56	90.00	882.8	7593.3	7644.5	9373.5	BHL: 1790ft FSL & 100ft FEL of Sec 25

WELLBORE TARGET DETAILS (LAT/LONG)

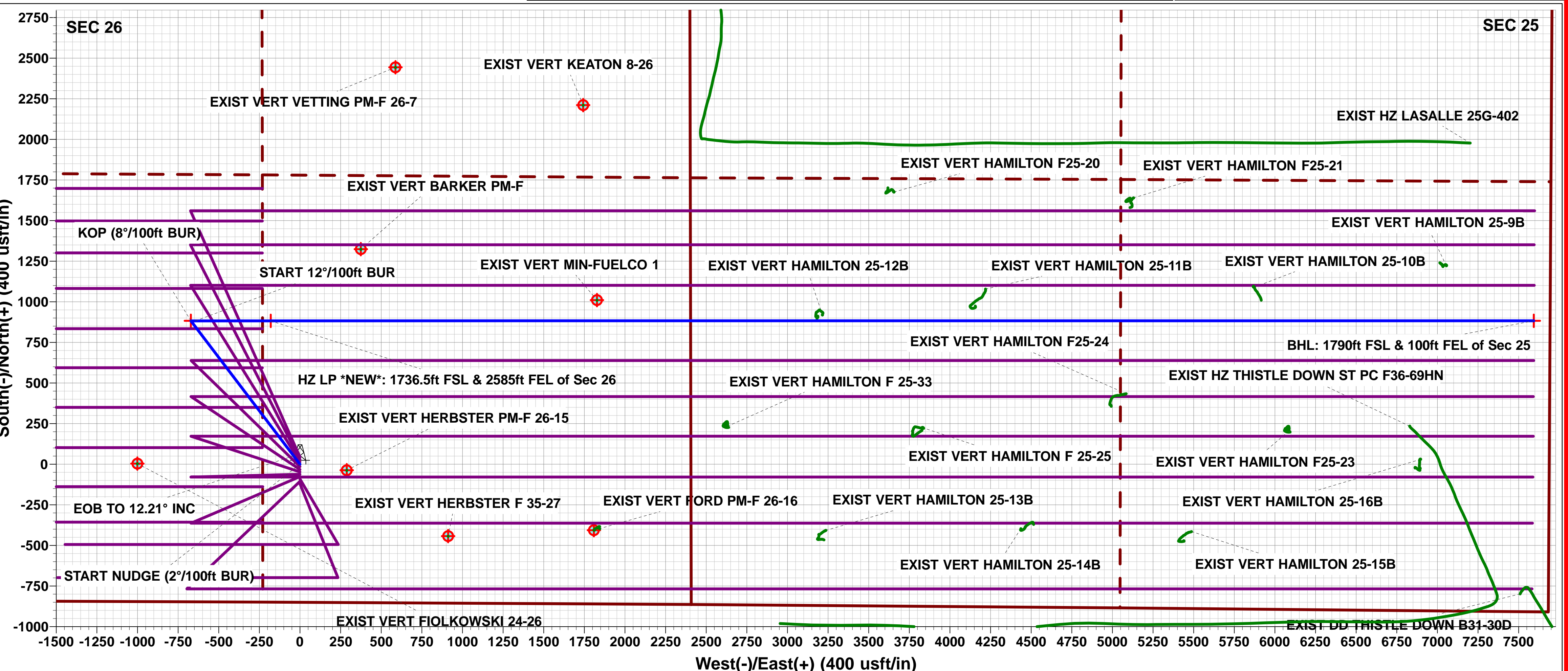
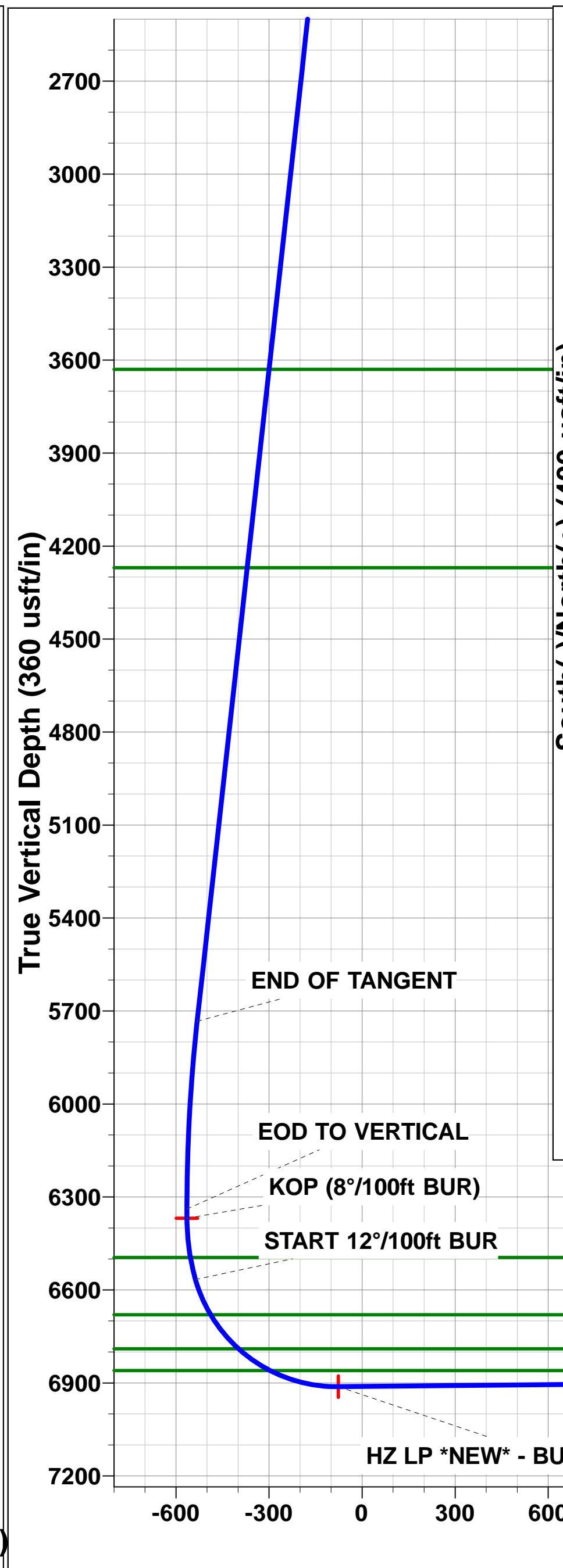
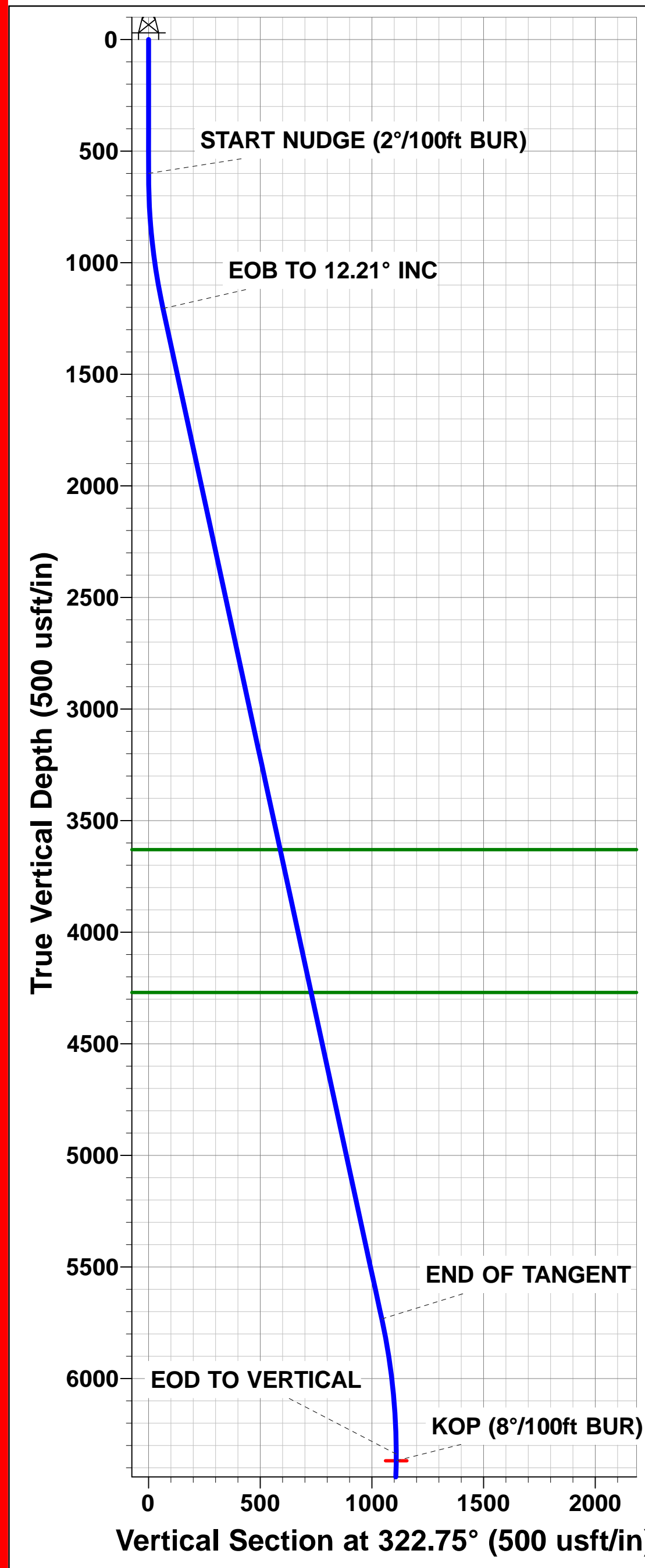
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - BUNTING 26P-312	6368.8	882.8	-671.2	40.367773	-104.632029
BHL - BUNTING 26P-312	6837.0	882.8	7593.3	40.367770	-104.602370
HZ LP *NEW* - BUNTING 26P-312	6912.0	882.8	-179.9	40.367773	-104.630266



PROPOSED LOCAL COORDINATES:
 SHL: 850ft FSL & 2405ft FEL of Sec 26
 HZ LP *NEW*: 1736.5ft FSL & 2585ft FEL of Sec 26
 BHL: 1790ft FSL & 100ft FEL of Sec 25



Azimuths to True North
 Magnetic North: 8.22°
 Magnetic Field
 Strength: 52483.2snT
 Dip Angle: 66.87°
 Date: 22/08/2016
 Model: IGRF2015



BHL - BUNTING 26P-312

PDC ENERGY

**WELD COUNTY, COLORADO
SW SE SEC. 26 T5N R65W 6th P.M.
BUNTING 26P-312**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

23 August, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well BUNTING 26P-312
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4672.0usft (Original Well Elev)
Reference Site:	SW SE SEC. 26 T5N R65W 6th P.M.	MD Reference:	KB-EST @ 4672.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	BUNTING 26P-312	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 us	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	23/08/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	15,077.6	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NW SW SEC. 27 T5N R65W 6th P.M.						
ABDN VERT SITZMAN F27-13 - Wellbore #1 - Wellbore	3,546.5	2,700.0	7,165.8	7,152.9	554.676	CC
ABDN VERT SITZMAN F27-13 - Wellbore #1 - Wellbore	3,600.0	2,700.0	7,166.0	7,152.9	545.409	ES
ABDN VERT SITZMAN F27-13 - Wellbore #1 - Wellbore	6,500.0	2,700.0	7,784.7	7,760.4	320.569	SF
BOULTER FARMS 27G-202 - ORIGINAL WELLBORE -	6,987.4	14,301.6	815.0	585.8	3.556	CC
BOULTER FARMS 27G-202 - ORIGINAL WELLBORE -	7,250.0	14,542.1	820.7	585.1	3.483	ES
BOULTER FARMS 27G-202 - ORIGINAL WELLBORE -	7,275.0	14,544.9	821.2	585.4	3.482	SF
BOULTER FARMS 27G-232 - ORIGINAL WELLBORE -	7,006.0	14,334.7	417.9	188.1	1.819	CC
BOULTER FARMS 27G-232 - ORIGINAL WELLBORE -	7,025.0	14,350.3	418.0	187.8	1.815	ES
BOULTER FARMS 27G-232 - ORIGINAL WELLBORE -	7,050.0	14,371.5	418.6	187.8	1.814	SF
BOULTER FARMS 27G-332 - ORIGINAL WELLBORE -	7,119.4	14,484.2	614.6	382.0	2.643	CC
BOULTER FARMS 27G-332 - ORIGINAL WELLBORE -	7,250.0	14,610.4	615.4	378.7	2.600	ES
BOULTER FARMS 27G-332 - ORIGINAL WELLBORE -	7,275.0	14,613.0	615.9	379.0	2.600	SF
BOULTER FARMS 27H-202 - ORIGINAL WELLBORE -	6,955.7	14,261.6	533.0	304.6	2.333	CC
BOULTER FARMS 27H-202 - ORIGINAL WELLBORE -	6,975.0	14,276.3	533.1	304.5	2.332	ES, SF
BOULTER FARMS 27H-212 - ORIGINAL WELLBORE -	7,005.7	14,314.2	48.5	-181.5	0.211	Level 1, CC, ES, SF
BOULTER FARMS 27H-232 - ORIGINAL WELLBORE -	7,047.1	14,390.2	1,021.2	791.0	4.436	CC
BOULTER FARMS 27H-232 - ORIGINAL WELLBORE -	7,275.0	14,587.2	1,023.4	787.3	4.335	ES
BOULTER FARMS 27H-232 - ORIGINAL WELLBORE -	7,300.0	14,587.2	1,024.3	788.0	4.334	SF
BOULTER FARMS 27H-302 - ORIGINAL WELLBORE -	7,102.7	14,439.6	288.9	56.7	1.244	Level 2, CC
BOULTER FARMS 27H-302 - ORIGINAL WELLBORE -	7,125.0	14,460.2	289.1	56.4	1.243	Level 2, ES
BOULTER FARMS 27H-302 - ORIGINAL WELLBORE -	7,150.0	14,483.7	289.4	56.4	1.242	Level 2, SF
BOULTER FARMS 27H-312 - ORIGINAL WELLBORE -	7,118.8	14,460.1	199.2	-33.6	0.856	Level 1, CC
BOULTER FARMS 27H-312 - ORIGINAL WELLBORE -	7,150.0	14,489.3	199.5	-34.2	0.854	Level 1, ES, SF
BOULTER FARMS 27H-332 - ORIGINAL WELLBORE -	7,051.3	14,429.2	780.7	550.4	3.389	CC
BOULTER FARMS 27H-332 - ORIGINAL WELLBORE -	7,250.0	14,616.1	783.3	547.9	3.327	ES
BOULTER FARMS 27H-332 - ORIGINAL WELLBORE -	7,275.0	14,619.8	783.8	548.0	3.325	SF
BOULTER FARMS 27I-312 - ORIGINAL WELLBORE - P	7,171.5	14,611.8	1,239.8	1,006.1	5.306	CC
BOULTER FARMS 27I-312 - ORIGINAL WELLBORE - P	7,275.0	14,694.5	1,240.1	1,003.5	5.242	ES
BOULTER FARMS 27I-312 - ORIGINAL WELLBORE - P	7,304.0	14,694.5	1,240.9	1,004.1	5.240	SF
EXIST VERT BARKER -PM F #26-10 - Wellbore #1 - De	7,858.4	6,885.7	441.5	274.4	2.643	CC, ES
EXIST VERT BARKER -PM F #26-10 - Wellbore #1 - De	7,900.0	6,885.3	443.4	275.5	2.641	SF
EXIST VERT BUNTING 1 - Wellbore #1 - Wellbore #1	6,378.0	6,219.4	3,017.2	2,991.4	116.899	CC
EXIST VERT BUNTING 1 - Wellbore #1 - Wellbore #1	6,400.0	6,242.6	3,017.3	2,991.4	116.755	ES
EXIST VERT BUNTING 1 - Wellbore #1 - Wellbore #1	13,900.0	6,700.0	9,987.1	9,796.8	52.473	SF
EXIST VERT BUNTING 27-43 - Wellbore #1 - Wellbore #	6,482.9	6,348.5	4,242.3	4,223.3	223.246	CC
EXIST VERT BUNTING 27-43 - Wellbore #1 - Wellbore #	6,500.0	6,362.6	4,242.5	4,216.8	165.187	ES
EXIST VERT BUNTING 27-43 - Wellbore #1 - Wellbore #	12,600.0	6,823.2	9,924.1	9,766.8	63.093	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well BUNTING 26P-312
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4672.0usft (Original Well Elev)
Reference Site:	SW SE SEC. 26 T5N R65W 6th P.M.	MD Reference:	KB-EST @ 4672.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	BUNTING 26P-312	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NW SW SEC. 27 T5N R65W 6th P.M.						
EXIST VERT FIOBKOWSKI 1 - Wellbore #1 - Wellbore #	6,128.4	5,986.3	1,852.6	1,826.5	70.964	CC, ES
EXIST VERT FIOBKOWSKI 1 - Wellbore #1 - Wellbore #	15,077.6	6,666.9	9,876.0	9,654.7	44.631	SF
EXIST VERT FIOBKOWSKI 24-26 - Wellbore #1 - Desigr	3,781.3	3,703.6	794.1	706.3	9.042	CC
EXIST VERT FIOBKOWSKI 24-26 - Wellbore #1 - Desigr	4,200.0	4,112.8	799.1	701.2	8.161	ES
EXIST VERT FIOBKOWSKI 24-26 - Wellbore #1 - Desigr	6,650.0	6,519.5	945.7	792.9	6.189	SF
EXIST VERT FORD PM-F #26-16 - Wellbore #1 - Wellbc	9,329.3	6,878.3	1,280.8	1,213.1	18.911	CC, ES
EXIST VERT FORD PM-F #26-16 - Wellbore #1 - Wellbc	10,000.0	6,879.4	1,445.8	1,359.9	16.828	SF
EXIST VERT HERBSTER F #35-27 - Wellbore #1 - Desi	600.0	591.0	1,013.6	1,001.4	83.309	CC
EXIST VERT HERBSTER F #35-27 - Wellbore #1 - Desi	700.0	691.0	1,015.1	1,000.7	70.495	ES
EXIST VERT HERBSTER F #35-27 - Wellbore #1 - Desi	8,600.0	6,890.6	1,341.1	1,156.5	7.265	SF
EXIST VERT HERBSTER PM F #26-15 - Wellbore #1 - L	600.0	583.0	290.2	278.2	24.023	CC
EXIST VERT HERBSTER PM F #26-15 - Wellbore #1 - L	700.0	683.0	291.5	277.2	20.357	ES
EXIST VERT HERBSTER PM F #26-15 - Wellbore #1 - L	7,900.0	6,889.3	928.8	760.9	5.531	SF
EXIST VERT KEATON #8-26 - Wellbore #1 - Design #1	9,227.2	6,874.6	1,328.3	1,127.4	6.614	CC, ES
EXIST VERT KEATON #8-26 - Wellbore #1 - Design #1	9,500.0	6,871.9	1,356.0	1,147.9	6.516	SF
EXIST VERT MINERAL-FUELCO #1 - Wellbore #1 - Des	9,311.7	6,877.7	127.9	-75.2	0.630	Level 1, CC, ES, SF
EXIST VERT SITZMAN F27-14 - Wellbore #1 - Wellbore	6,484.7	6,371.0	5,683.8	5,659.0	228.744	CC, ES
EXIST VERT SITZMAN F27-14 - Wellbore #1 - Wellbore	11,100.0	6,883.2	9,939.6	9,823.4	85.500	SF
EXIST VERT VETTING PM F-#26-7 - Wellbore #1 - Desi	8,071.6	6,884.7	1,561.0	1,389.3	9.092	CC
EXIST VERT VETTING PM F-#26-7 - Wellbore #1 - Desi	8,100.0	6,884.4	1,561.3	1,388.9	9.060	ES
EXIST VERT VETTING PM F-#26-7 - Wellbore #1 - Desi	8,400.0	6,881.5	1,595.2	1,415.7	8.887	SF

Anticollision Report



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Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW SE SEC. 26 T5N R65W 6th P.M.						
BUNTING 26O-102 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	43.7	42.7	40.783	CC, ES
BUNTING 26O-102 - ORIGINAL WELLBORE - PROPOS	15,077.6	15,030.5	700.8	261.7	1.596	SF
BUNTING 26O-232 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	14.6	12.6	7.393	CC
BUNTING 26O-232 - ORIGINAL WELLBORE - PROPOS	15,077.6	15,027.2	231.1	-199.3	0.537	Level 1, ES, SF
BUNTING 26O-332 - ORIGINAL WELLBORE - PROPOS	400.0	400.0	29.1	27.6	19.153	CC
BUNTING 26O-332 - ORIGINAL WELLBORE - PROPOS	15,077.6	15,165.8	468.2	17.0	1.038	Level 2, ES, SF
BUNTING 26P-212 - ORIGINAL WELLBORE - PROPOS	600.0	600.0	14.6	12.2	6.020	CC
BUNTING 26P-212 - ORIGINAL WELLBORE - PROPOS	15,077.6	14,965.8	255.3	-176.2	0.592	Level 1, ES, SF
BUNTING 26P-232 - ORIGINAL WELLBORE - PROPOS	600.0	600.0	47.4	44.9	19.564	CC, ES
BUNTING 26P-232 - ORIGINAL WELLBORE - PROPOS	15,077.6	14,940.4	715.5	267.4	1.597	SF
BUNTING 26P-302 - ORIGINAL WELLBORE - PROPOS	600.0	600.0	32.8	30.4	13.545	CC
BUNTING 26P-302 - ORIGINAL WELLBORE - PROPOS	15,077.6	15,020.6	466.4	15.3	1.034	Level 2, ES, SF
BUNTING 26P-332 - ORIGINAL WELLBORE - PROPOS	600.0	600.0	61.9	59.5	25.584	CC, ES
BUNTING 26P-332 - ORIGINAL WELLBORE - PROPOS	15,077.6	14,993.5	962.0	510.8	2.132	SF
BUNTING 26Q-212 - ORIGINAL WELLBORE - PROPOS	600.0	600.0	76.5	74.1	31.604	CC, ES
BUNTING 26Q-212 - ORIGINAL WELLBORE - PROPOS	15,077.6	14,927.5	1,249.6	800.1	2.780	SF
BUNTING 26Q-214 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	91.1	89.1	46.204	CC, ES
BUNTING 26Q-214 - ORIGINAL WELLBORE - PROPOS	9,000.0	6,588.4	1,932.0	1,862.7	27.870	SF
BUNTING 26Q-302 - ORIGINAL WELLBORE - PROPOS	400.0	400.0	105.6	104.1	69.430	CC, ES
BUNTING 26Q-302 - ORIGINAL WELLBORE - PROPOS	15,077.6	15,054.6	1,650.5	1,199.5	3.660	SF
BUNTING 26Q-304 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	120.2	119.1	112.133	CC, ES
BUNTING 26Q-304 - ORIGINAL WELLBORE - PROPOS	9,600.0	6,600.0	2,496.2	2,410.4	29.091	SF
EXIST DD CONAGRA B30-32D - Wellbore #1 - Wellbore	15,077.6	6,992.3	843.8	600.7	3.472	CC, ES, SF
EXIST DD CONAGRA B30-33D - Wellbore #1 - Wellbore	15,077.6	6,938.3	626.2	398.3	2.748	CC, ES, SF
EXIST DD THISTLE DOWN B31-30D - Wellbore #1 - We	15,003.4	6,949.4	1,666.4	1,440.8	7.387	CC
EXIST DD THISTLE DOWN B31-30D - Wellbore #1 - We	15,077.6	6,946.2	1,668.1	1,440.4	7.328	ES, SF
EXIST HZ LASALLE 25G-402 - Wellbore #1 - Wellbore #	11,281.1	8,028.6	1,086.5	931.1	6.990	CC
EXIST HZ LASALLE 25G-402 - Wellbore #1 - Wellbore #	14,700.0	11,435.0	1,098.9	756.1	3.206	ES
EXIST HZ LASALLE 25G-402 - Wellbore #1 - Wellbore #	14,800.0	11,435.0	1,104.7	759.2	3.197	SF
EXIST HZ THISTLE DOWN STATE PC F36-69HN - Well	14,691.4	6,780.6	1,817.7	1,589.3	7.959	CC
EXIST HZ THISTLE DOWN STATE PC F36-69HN - Well	14,700.0	6,776.6	1,817.7	1,589.2	7.953	ES
EXIST HZ THISTLE DOWN STATE PC F36-69HN - Well	15,077.6	6,650.8	1,849.3	1,612.9	7.823	SF
EXIST VERT HAMILTON 25-10B - Wellbore #1 - Wellbor	13,403.9	6,500.0	405.6	324.1	4.978	CC, ES, SF
EXIST VERT HAMILTON 25-11B - Wellbore #1 - Wellbor	11,640.3	6,876.9	91.2	-40.5	0.693	Level 1, CC, ES, SF
EXIST VERT HAMILTON 25-12B - Wellbore #1 - Wellbor	10,666.2	6,874.4	15.8	-88.4	0.152	Level 1, CC, ES, SF
EXIST VERT HAMILTON 25-13B - Wellbore #1 - Wellbor	10,701.8	6,892.3	1,345.8	1,240.4	12.765	CC, ES
EXIST VERT HAMILTON 25-13B - Wellbore #1 - Wellbor	11,200.0	6,906.4	1,435.0	1,315.7	12.035	SF
EXIST VERT HAMILTON 25-14B - Wellbore #1 - Wellbor	11,997.7	6,874.5	1,249.5	1,108.5	8.860	CC
EXIST VERT HAMILTON 25-14B - Wellbore #1 - Wellbor	12,000.0	6,874.5	1,249.5	1,108.4	8.856	ES
EXIST VERT HAMILTON 25-14B - Wellbore #1 - Wellbor	12,300.0	6,873.4	1,285.6	1,136.1	8.602	SF
EXIST VERT HAMILTON 25-15B - Wellbore #1 - Wellbor	12,923.5	6,891.8	1,354.9	1,187.7	8.105	CC, ES
EXIST VERT HAMILTON 25-15B - Wellbore #1 - Wellbor	13,200.0	6,891.5	1,382.8	1,207.9	7.907	SF
EXIST VERT HAMILTON 25-16B - Wellbore #1 - Wellbor	14,346.8	6,894.8	904.0	697.1	4.368	CC, ES
EXIST VERT HAMILTON 25-16B - Wellbore #1 - Wellbor	14,500.0	6,893.6	916.9	705.7	4.341	SF
EXIST VERT HAMILTON 25-9B - Wellbore #1 - Wellbore	14,517.9	6,875.7	334.6	123.1	1.582	CC, ES, SF
EXIST VERT HAMILTON F 25-23 - Wellbore #1 - Wellbo	13,557.1	6,850.0	677.1	492.9	3.676	CC, ES
EXIST VERT HAMILTON F 25-23 - Wellbore #1 - Wellbo	13,600.0	6,850.0	678.4	493.1	3.660	SF
EXIST VERT HAMILTON F 25-25 - Wellbore #1 - Wellbo	11,311.7	6,900.0	675.4	553.1	5.524	CC, ES
EXIST VERT HAMILTON F 25-25 - Wellbore #1 - Wellbo	11,400.0	6,900.0	681.1	556.4	5.462	SF
EXIST VERT HAMILTON F 25-33 - Wellbore #1 - Wellbo	10,101.4	6,850.0	647.8	559.2	7.315	CC, ES
EXIST VERT HAMILTON F 25-33 - Wellbore #1 - Wellbo	10,200.0	6,850.0	655.3	564.0	7.180	SF
EXIST VERT HAMILTON F25-20 - Wellbore #1 - Wellbor	11,103.0	6,832.0	817.6	701.2	7.023	CC, ES
EXIST VERT HAMILTON F25-20 - Wellbore #1 - Wellbor	11,300.0	6,828.6	841.0	719.1	6.901	SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well BUNTING 26P-312
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4672.0usft (Original Well Elev)
Reference Site:	SW SE SEC. 26 T5N R65W 6th P.M.	MD Reference:	KB-EST @ 4672.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	BUNTING 26P-312	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SW SE SEC. 26 T5N R65W 6th P.M.						
EXIST VERT HAMILTON F25-21 - Wellbore #1 - Wellbor	12,592.8	6,881.3	697.6	539.6	4.416	CC
EXIST VERT HAMILTON F25-21 - Wellbore #1 - Wellbor	12,600.0	6,881.1	697.6	539.5	4.411	ES
EXIST VERT HAMILTON F25-21 - Wellbore #1 - Wellbor	12,700.0	6,878.1	705.8	544.8	4.384	SF
EXIST VERT HAMILTON F25-24 - Wellbore #1 - Wellbor	12,477.2	6,880.0	526.3	371.6	3.402	CC
EXIST VERT HAMILTON F25-24 - Wellbore #1 - Wellbor	12,500.0	6,879.9	526.8	371.5	3.392	ES, SF

Offset Design												Offset Site Error:	0.0 usft	
Survey Program: 100-GYD_CT												Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance					Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-92.89	-374.1	-7,415.4	7,424.8					
100.0	100.0	78.4	78.4	0.1	0.0	-92.89	-374.3	-7,415.4	7,424.9	7,424.8	0.11	N/A		
200.0	200.0	196.1	196.1	0.3	0.2	-92.89	-374.8	-7,415.6	7,425.0	7,424.5	0.51	N/A		
300.0	300.0	300.0	300.0	0.5	0.2	-92.89	-375.0	-7,415.5	7,425.0	7,424.2	0.75	9,909.776		
337.4	337.4	331.4	331.4	0.6	0.2	-92.89	-375.0	-7,415.5	7,425.0	7,424.1	0.83	8,909.540		
400.0	400.0	382.3	382.3	0.8	0.2	-92.90	-375.0	-7,415.5	7,425.0	7,424.0	0.97	7,622.718		
500.0	500.0	500.0	500.0	1.0	0.2	-92.90	-375.3	-7,415.5	7,425.0	7,423.8	1.22	6,070.676		
581.5	581.5	573.6	573.6	1.2	0.2	-92.90	-375.3	-7,415.4	7,424.9	7,423.5	1.42	5,244.124		
600.0	600.0	587.5	587.5	1.2	0.3	-92.90	-375.3	-7,415.4	7,424.9	7,423.4	1.46	5,087.815		
700.0	700.0	700.0	700.0	1.4	0.3	-55.68	-375.5	-7,415.4	7,423.9	7,422.1	1.72	4,307.118		
800.0	799.8	783.1	783.1	1.7	0.3	-55.76	-375.7	-7,415.3	7,420.9	7,418.9	1.96	3,778.754		
900.0	899.5	912.4	912.4	1.9	0.3	-55.91	-375.5	-7,415.3	7,416.0	7,413.7	2.23	3,329.981		
1,000.0	998.7	1,000.0	1,000.0	2.2	0.4	-56.09	-375.2	-7,415.2	7,409.0	7,406.4	2.54	2,921.930		
1,100.0	1,097.5	1,092.1	1,092.1	2.4	0.4	-56.33	-375.0	-7,415.2	7,400.2	7,397.4	2.83	2,619.166		
1,200.0	1,195.6	1,185.0	1,185.0	2.8	0.4	-56.63	-375.0	-7,415.2	7,389.6	7,386.4	3.15	2,344.294		
1,210.4	1,205.8	1,194.5	1,194.5	2.8	0.4	-56.66	-375.0	-7,415.2	7,388.3	7,385.2	3.19	2,317.301		
1,300.0	1,293.4	1,292.8	1,292.8	3.2	0.4	-56.79	-374.5	-7,415.3	7,377.8	7,374.3	3.53	2,088.400		
1,400.0	1,391.1	1,413.5	1,413.5	3.6	0.5	-56.96	-374.0	-7,415.0	7,365.8	7,361.8	3.94	1,871.355		
1,500.0	1,488.8	1,500.0	1,500.0	4.0	0.5	-57.08	-373.8	-7,414.7	7,353.8	7,349.5	4.34	1,695.804		
1,600.0	1,586.6	1,596.4	1,596.4	4.4	0.5	-57.21	-373.6	-7,414.6	7,341.9	7,337.2	4.75	1,547.286		
1,700.0	1,684.3	1,700.0	1,700.0	4.8	0.6	-57.35	-373.6	-7,414.3	7,330.0	7,324.9	5.15	1,424.177		
1,800.0	1,782.1	1,783.0	1,783.0	5.3	0.6	-57.47	-374.0	-7,414.1	7,318.2	7,312.7	5.56	1,316.190		
1,900.0	1,879.8	1,894.0	1,894.0	5.7	0.6	-57.64	-374.9	-7,413.8	7,306.6	7,300.6	5.99	1,220.004		
2,000.0	1,977.5	1,985.4	1,985.4	6.1	0.7	-57.77	-376.0	-7,413.5	7,294.8	7,288.4	6.41	1,137.226		
2,100.0	2,075.3	2,079.2	2,079.2	6.6	0.7	-57.92	-377.4	-7,413.3	7,283.2	7,276.4	6.84	1,064.466		
2,200.0	2,173.0	2,155.8	2,155.7	7.0	0.7	-58.04	-378.6	-7,413.2	7,271.8	7,264.6	7.26	1,001.130		
2,300.0	2,270.8	2,254.9	2,254.9	7.5	0.8	-58.19	-380.1	-7,413.3	7,260.7	7,253.0	7.69	943.580		
2,400.0	2,368.5	2,367.4	2,367.3	7.9	0.8	-58.36	-381.8	-7,413.1	7,249.4	7,241.3	8.13	891.292		
2,500.0	2,466.2	2,462.3	2,462.2	8.4	0.8	-58.51	-383.1	-7,412.9	7,238.1	7,229.5	8.57	844.735		
2,600.0	2,564.0	2,566.2	2,566.1	8.8	0.9	-58.67	-384.6	-7,412.8	7,226.8	7,217.8	9.01	802.383		
2,700.0	2,661.7	2,664.2	2,664.1	9.3	0.9	-58.82	-385.9	-7,412.5	7,215.6	7,206.1	9.44	764.008		
2,800.0	2,759.4	2,700.0	2,699.9	9.7	0.9	-58.88	-386.4	-7,412.4	7,204.6	7,194.7	9.86	730.459		
2,900.0	2,857.2	2,700.0	2,699.9	10.2	0.9	-58.88	-386.4	-7,412.4	7,194.9	7,184.7	10.27	700.509		
3,000.0	2,954.9	2,700.0	2,699.9	10.6	0.9	-58.88	-386.4	-7,412.4	7,186.6	7,176.0	10.68	672.941		
3,100.0	3,052.7	2,700.0	2,699.9	11.1	0.9	-58.88	-386.4	-7,412.4	7,179.7	7,168.6	11.09	647.499		
3,200.0	3,150.4	2,700.0	2,699.9	11.5	0.9	-58.88	-386.4	-7,412.4	7,174.2	7,162.7	11.50	623.964		
3,300.0	3,248.1	2,700.0	2,699.9	12.0	0.9	-58.88	-386.4	-7,412.4	7,170.1	7,158.2	11.91	602.144		
3,400.0	3,345.9	2,700.0	2,699.9	12.4	0.9	-58.88	-386.4	-7,412.4	7,167.3	7,155.0	12.32	581.873		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation