

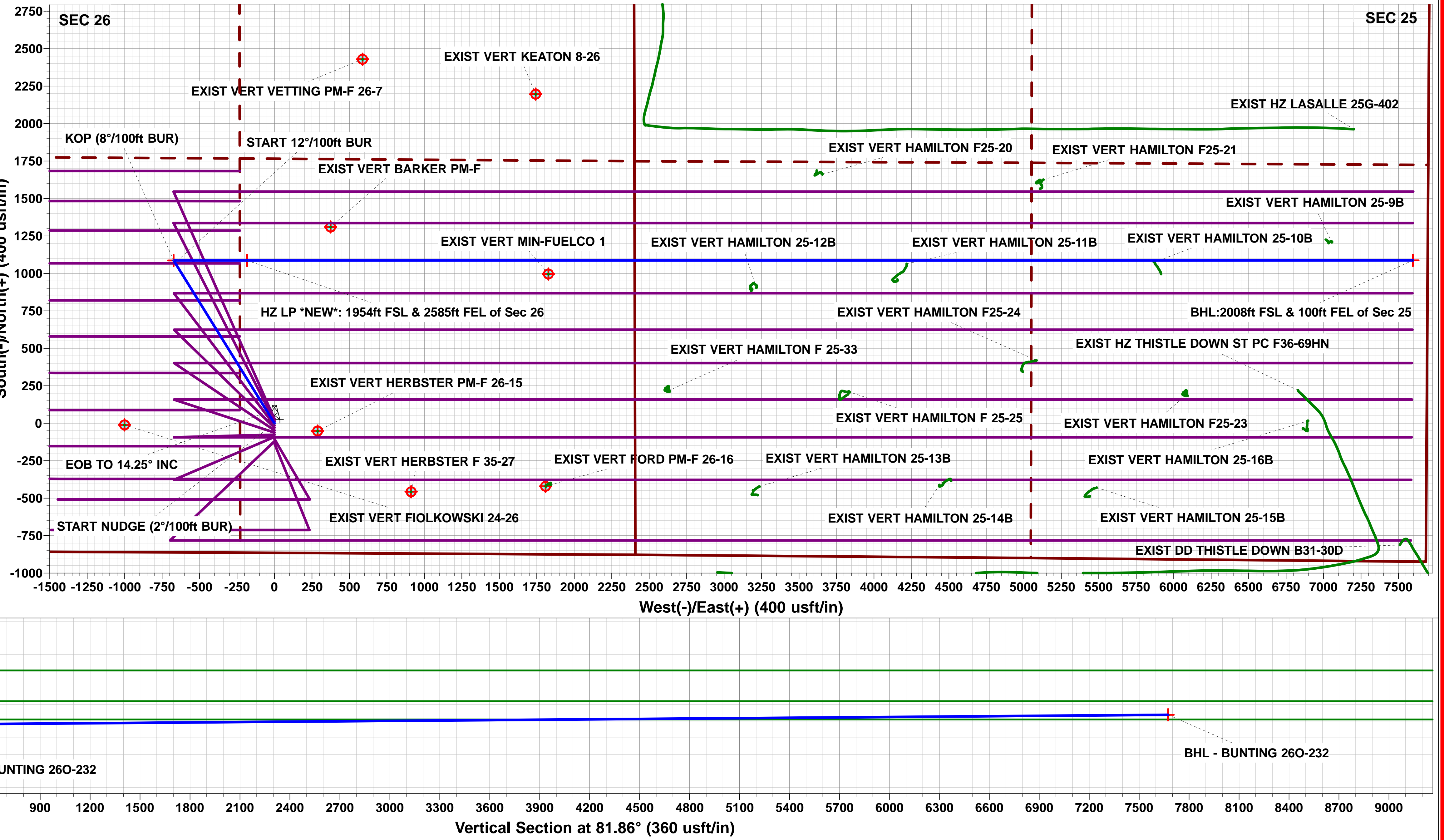
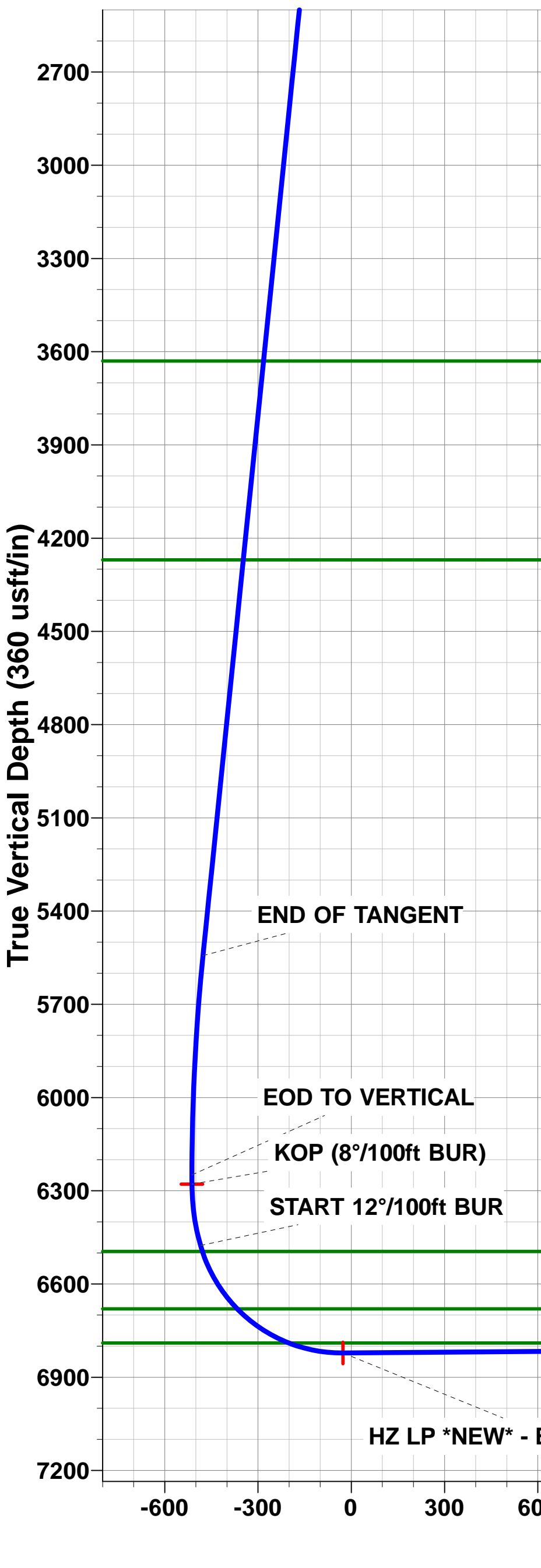
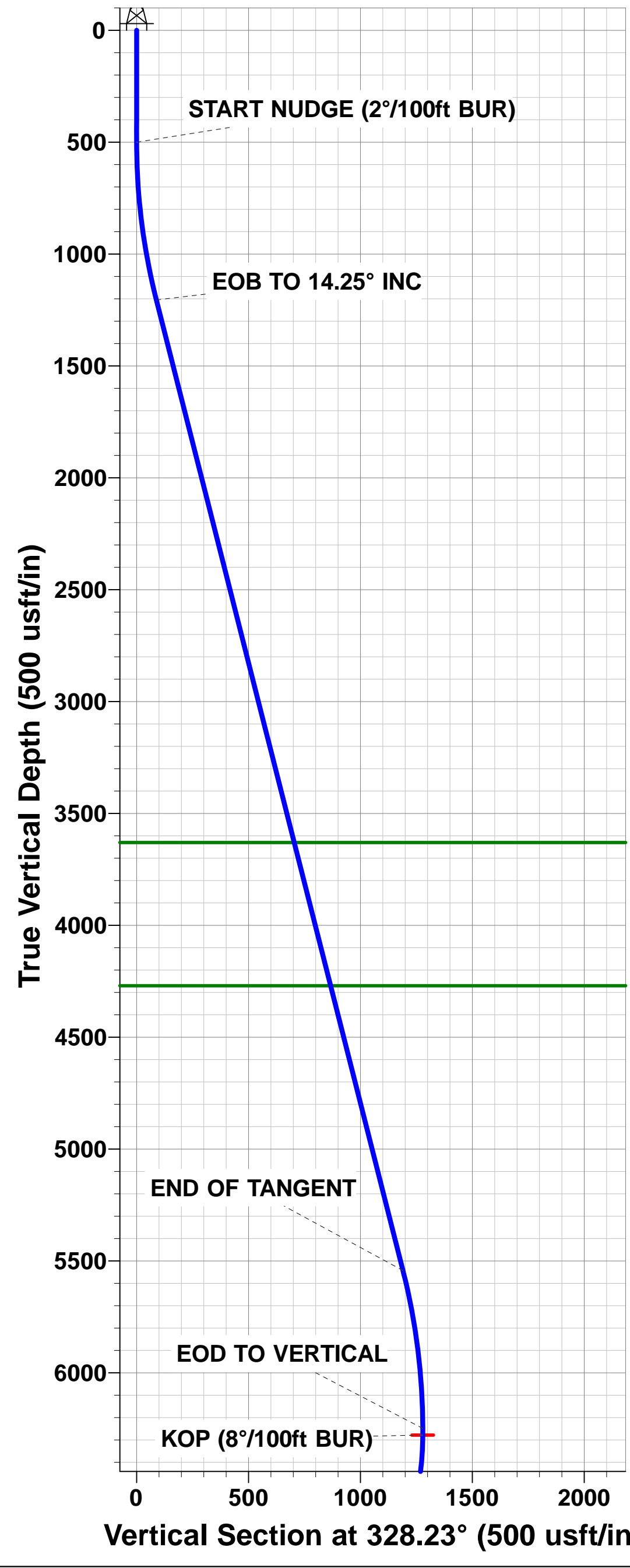
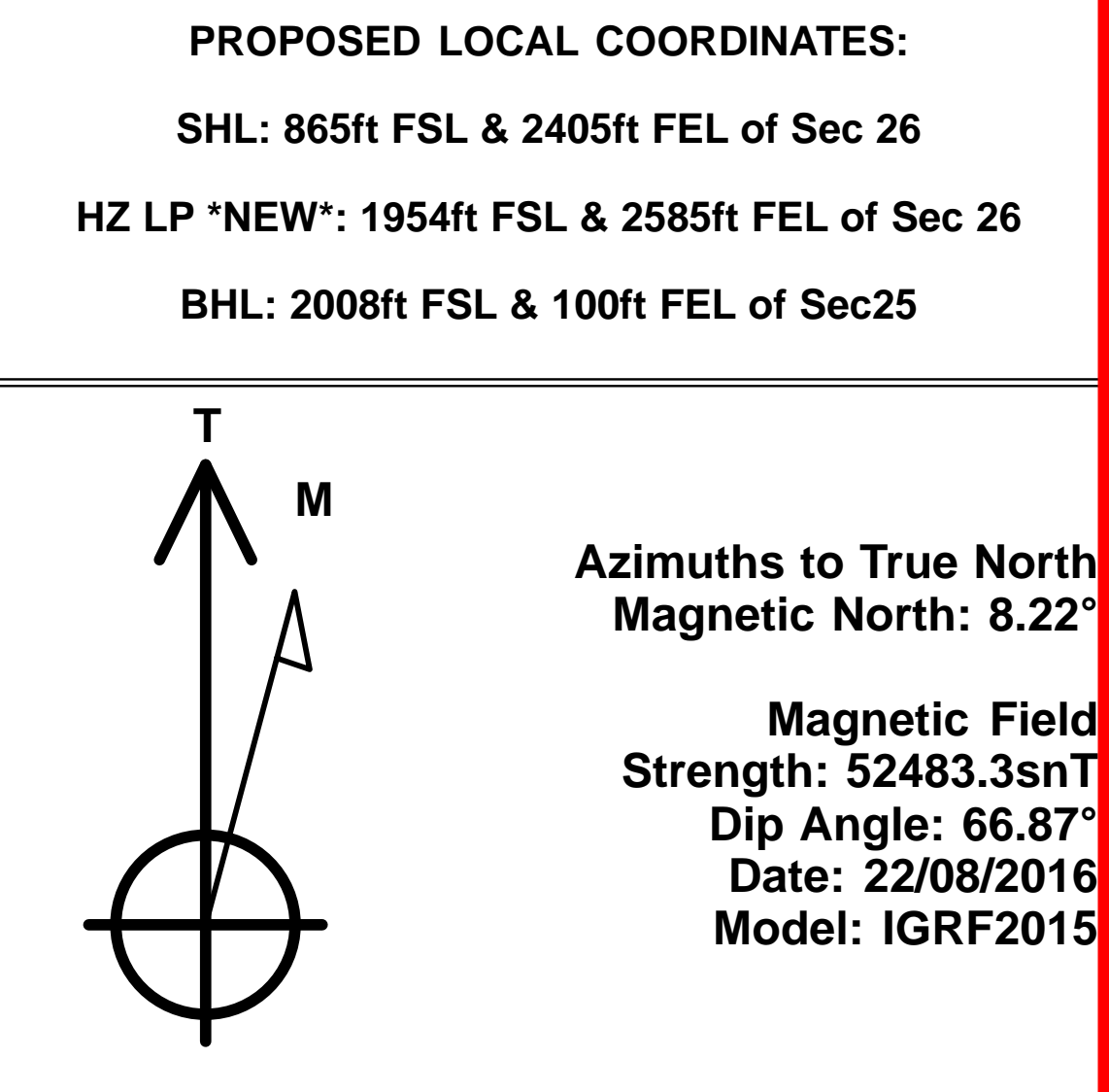
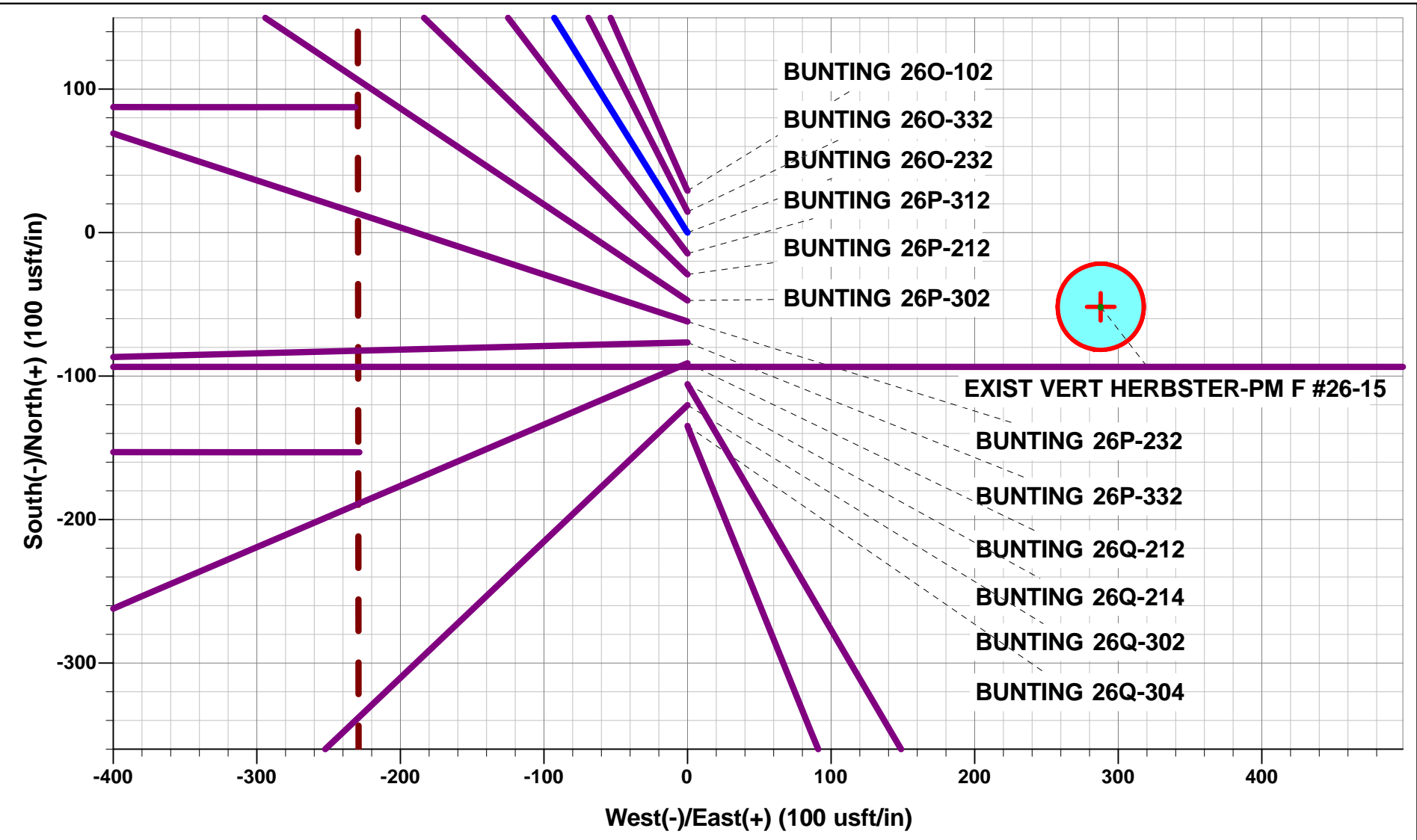


Project: WELD COUNTY, COLORADO
Site: SW SE SEC. 26 T5N R65W 6th P.M.
Well: BUNTING 26O-232
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1



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: 865ft FSL & 2405ft FEL of Sec 26	
500.0	500.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)	
1205.3	1212.7	14.25	328.23	75.0	-46.4	-35.3	88.2	EOB TO 14.25° INC	
5543.4	5688.5	14.25	328.23	1011.8	-626.7	-477.0	1190.2	END OF TANGENT	
6248.7	6401.1	0.00	0.00	1086.8	-673.1	-512.4	1278.4	EOD TO VERTICAL	
6278.7	6431.1	0.00	0.00	1086.8	-673.1	-512.4	1278.4	KOP (8°/100ft BUR)	
6476.1	6631.1	16.00	90.00	1086.8	-645.4	-484.9	1306.1	START 12°/100ft BUR	
6822.0	7251.5	90.44	90.00	1086.8	-182.7	-27.0	1768.7	HZ LP *NEW*: 1954ft FSL & 2585ft FEL of Sec 26	
6762.0	15030.5	90.44	90.00	1086.8	7596.0	7673.4	9547.5	BHL:2008ft FSL & 100ft FEL of Sec 25	

WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - BUNTING 26O-232	6278.7	1086.8	-673.1	40.368373	-104.632036
BHL - BUNTING 26O-232	6762.0	1086.8	7596.0	40.368370	-104.602360
HZ LP *NEW* - BUNTING 26O-232	6822.0	1086.8	-182.7	40.368373	-104.630276



PDC ENERGY

**WELD COUNTY, COLORADO
SW SE SEC. 26 T5N R65W 6th P.M.
BUNTING 26O-232**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

23 August, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well BUNTING 260-232
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 260-232	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	15,030.5	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name	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	3,522.3	2,700.0	7,169.5	7,154.8	489.290	CC, ES
ABDN VERT SITZMAN F27-13 - Wellbore #1 - Wellbore	6,400.0	2,700.0	7,757.3	7,729.9	283.294	SF
BOULTER FARMS 27G-202 - ORIGINAL WELLBORE -	7,156.0	14,498.7	596.3	360.9	2.533	CC
BOULTER FARMS 27G-202 - ORIGINAL WELLBORE -	7,200.0	14,542.2	596.4	359.4	2.517	ES
BOULTER FARMS 27G-202 - ORIGINAL WELLBORE -	7,225.0	14,544.9	596.8	359.6	2.516	SF
BOULTER FARMS 27G-232 - ORIGINAL WELLBORE -	7,202.9	14,563.1	199.2	-37.3	0.842	Level 1, CC, ES, SF
BOULTER FARMS 27G-332 - ORIGINAL WELLBORE -	7,207.6	14,613.0	400.0	165.8	1.708	CC, ES, SF
BOULTER FARMS 27H-202 - ORIGINAL WELLBORE -	7,076.7	14,407.0	751.6	518.7	3.228	CC
BOULTER FARMS 27H-202 - ORIGINAL WELLBORE -	7,200.0	14,526.4	752.2	515.6	3.180	ES
BOULTER FARMS 27H-202 - ORIGINAL WELLBORE -	7,225.0	14,529.8	752.6	515.8	3.178	SF
BOULTER FARMS 27H-212 - ORIGINAL WELLBORE -	7,203.0	14,543.0	267.1	29.6	1.125	Level 2, CC, ES, SF
BOULTER FARMS 27H-232 - ORIGINAL WELLBORE -	7,207.9	14,587.2	1,240.1	1,003.3	5.236	CC, ES
BOULTER FARMS 27H-232 - ORIGINAL WELLBORE -	7,251.5	14,587.2	1,240.9	1,003.8	5.233	SF
BOULTER FARMS 27H-302 - ORIGINAL WELLBORE -	7,207.1	14,584.2	510.1	273.5	2.156	CC, ES, SF
BOULTER FARMS 27H-312 - ORIGINAL WELLBORE -	7,207.6	14,589.5	60.1	-41.7	0.590	Level 1, CC, ES, SF
BOULTER FARMS 27H-332 - ORIGINAL WELLBORE -	7,205.2	14,619.8	999.7	762.9	4.222	CC, ES
BOULTER FARMS 27H-332 - ORIGINAL WELLBORE -	7,225.0	14,619.8	999.9	763.0	4.221	SF
BOULTER FARMS 27I-312 - ORIGINAL WELLBORE - P	7,211.4	14,694.5	1,460.4	1,223.7	6.171	CC
BOULTER FARMS 27I-312 - ORIGINAL WELLBORE - P	7,225.0	14,694.5	1,460.4	1,223.7	6.169	ES
BOULTER FARMS 27I-312 - ORIGINAL WELLBORE - P	7,300.0	14,694.5	1,463.3	1,226.0	6.165	SF
EXIST VERT BARKER -PM F #26-10 - Wellbore #1 - De	7,808.7	6,796.7	222.9	57.4	1.347	Level 3, CC, ES, SF
EXIST VERT BUNTING 1 - Wellbore #1 - Wellbore #1	6,150.8	5,936.8	3,092.8	3,064.1	107.859	CC
EXIST VERT BUNTING 1 - Wellbore #1 - Wellbore #1	6,200.0	5,985.0	3,092.8	3,064.1	107.475	ES
EXIST VERT BUNTING 1 - Wellbore #1 - Wellbore #1	13,800.0	6,657.4	9,960.8	9,769.3	52.018	SF
EXIST VERT BUNTING 27-43 - Wellbore #1 - Wellbore #	6,433.4	6,272.6	4,309.2	4,280.3	149.595	CC, ES
EXIST VERT BUNTING 27-43 - Wellbore #1 - Wellbore #	12,500.0	6,745.8	9,903.9	9,747.6	63.358	SF
EXIST VERT FOLKOWSKI 1 - Wellbore #1 - Wellbore #	5,377.8	5,247.9	1,967.9	1,942.1	76.251	CC
EXIST VERT FOLKOWSKI 1 - Wellbore #1 - Wellbore #	5,500.0	5,365.2	1,968.1	1,941.6	74.367	ES
EXIST VERT FOLKOWSKI 1 - Wellbore #1 - Wellbore #	15,030.5	6,600.0	9,902.7	9,678.7	44.211	SF
EXIST VERT FOLKOWSKI 24-26 - Wellbore #1 - Desigr	2,956.3	2,880.3	856.2	787.4	12.444	CC
EXIST VERT FOLKOWSKI 24-26 - Wellbore #1 - Desigr	3,300.0	3,213.4	860.4	783.2	11.140	ES
EXIST VERT FOLKOWSKI 24-26 - Wellbore #1 - Desigr	6,631.1	6,461.1	1,153.7	1,001.6	7.583	SF
EXIST VERT FORD PM-F #26-16 - Wellbore #1 - Wellbc	9,278.5	6,788.9	1,498.7	1,430.8	22.082	CC
EXIST VERT FORD PM-F #26-16 - Wellbore #1 - Wellbc	9,300.0	6,789.0	1,498.9	1,430.4	21.898	ES
EXIST VERT FORD PM-F #26-16 - Wellbore #1 - Wellbc	10,200.0	6,792.9	1,759.3	1,666.4	18.935	SF
EXIST VERT HERBSTER F #35-27 - Wellbore #1 - Desi	500.0	491.0	1,020.0	1,010.1	102.825	CC
EXIST VERT HERBSTER F #35-27 - Wellbore #1 - Desi	600.0	591.0	1,021.5	1,009.3	84.010	ES

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 26O-232
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 26O-232	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 HERBSTER F #35-27 - Wellbore #1 - Desi	8,700.0	6,801.8	1,584.0	1,397.2	8.476	SF
EXIST VERT HERBSTER PM F #26-15 - Wellbore #1 - I	500.0	483.0	292.5	282.6	29.739	CC
EXIST VERT HERBSTER PM F #26-15 - Wellbore #1 - I	600.0	583.0	293.6	281.6	24.315	ES
EXIST VERT HERBSTER PM F #26-15 - Wellbore #1 - I	7,900.0	6,800.0	1,152.4	984.9	6.881	SF
EXIST VERT KEATON #8-26 - Wellbore #1 - Design #1	9,177.4	6,788.2	1,109.7	910.4	5.569	CC
EXIST VERT KEATON #8-26 - Wellbore #1 - Design #1	9,200.0	6,788.0	1,109.9	910.0	5.553	ES
EXIST VERT KEATON #8-26 - Wellbore #1 - Design #1	9,300.0	6,787.2	1,116.4	913.9	5.512	SF
EXIST VERT MINERAL-FUELCO #1 - Wellbore #1 - Des	9,261.9	6,791.5	90.7	-110.9	0.450	Level 1, CC, ES, SF
EXIST VERT SITZMAN F27-14 - Wellbore #1 - Wellbore	6,333.4	6,118.2	5,719.8	5,691.9	204.918	CC, ES
EXIST VERT SITZMAN F27-14 - Wellbore #1 - Wellbore	11,000.0	6,803.9	9,912.1	9,796.8	86.002	SF
EXIST VERT VETTING PM F-#26-7 - Wellbore #1 - Desi	8,021.9	6,796.0	1,342.4	1,172.3	7.889	CC, ES
EXIST VERT VETTING PM F-#26-7 - Wellbore #1 - Desi	8,300.0	6,793.9	1,370.9	1,194.2	7.757	SF

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well BUNTING 260-232
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 260-232	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
SW SE SEC. 26 T5N R65W 6th P.M.						
BUNTING 260-102 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	29.2	28.1	27.191	CC
BUNTING 260-102 - ORIGINAL WELLBORE - PROPOS	15,030.5	15,033.8	470.7	27.9	1.063	Level 2, ES, SF
BUNTING 260-332 - ORIGINAL WELLBORE - PROPOS	400.0	400.0	14.6	13.1	9.577	CC
BUNTING 260-332 - ORIGINAL WELLBORE - PROPOS	15,030.5	15,168.4	262.1	-167.8	0.610	Level 1, ES, SF
BUNTING 26P-212 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	29.1	27.2	14.785	CC
BUNTING 26P-212 - ORIGINAL WELLBORE - PROPOS	15,030.5	14,966.4	462.7	11.3	1.025	Level 2, ES, SF
BUNTING 26P-232 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	61.9	60.0	31.419	CC, ES
BUNTING 26P-232 - ORIGINAL WELLBORE - PROPOS	15,030.5	14,940.4	929.0	477.4	2.057	SF
BUNTING 26P-302 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	47.4	45.4	24.026	CC, ES
BUNTING 26P-302 - ORIGINAL WELLBORE - PROPOS	15,030.5	15,020.6	688.0	238.0	1.529	SF
BUNTING 26P-312 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	14.6	12.6	7.393	CC
BUNTING 26P-312 - ORIGINAL WELLBORE - PROPOS	15,030.5	15,077.6	231.1	-199.3	0.537	Level 1, ES, SF
BUNTING 26P-332 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	76.5	74.5	38.811	CC, ES
BUNTING 26P-332 - ORIGINAL WELLBORE - PROPOS	15,030.5	14,993.5	1,181.7	730.3	2.618	SF
BUNTING 26Q-212 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	91.1	89.1	46.204	CC, ES
BUNTING 26Q-212 - ORIGINAL WELLBORE - PROPOS	15,030.5	14,927.5	1,464.7	1,013.7	3.248	SF
BUNTING 26Q-214 - ORIGINAL WELLBORE - PROPOS	500.0	500.0	105.6	103.7	53.597	CC, ES
BUNTING 26Q-214 - ORIGINAL WELLBORE - PROPOS	9,400.0	6,522.0	2,385.3	2,303.4	29.123	SF
BUNTING 26Q-302 - ORIGINAL WELLBORE - PROPOS	400.0	400.0	120.2	118.7	79.007	CC, ES
BUNTING 26Q-302 - ORIGINAL WELLBORE - PROPOS	15,030.5	15,054.6	1,869.7	1,418.6	4.145	SF
BUNTING 26Q-304 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	134.8	133.7	125.725	CC, ES
BUNTING 26Q-304 - ORIGINAL WELLBORE - PROPOS	10,200.0	6,550.0	3,128.3	3,024.2	30.043	SF
EXIST DD CONAGRA B30-32D - Wellbore #1 - Wellbore	15,030.5	6,907.3	636.6	393.4	2.618	CC, ES, SF
EXIST DD CONAGRA B30-33D - Wellbore #1 - Wellbore	15,030.5	6,857.4	826.5	598.5	3.624	CC, ES, SF
EXIST DD THISTLE DOWN B31-30D - Wellbore #1 - We	14,956.2	6,868.2	1,881.8	1,656.0	8.334	CC
EXIST DD THISTLE DOWN B31-30D - Wellbore #1 - We	15,000.0	6,866.4	1,882.3	1,655.3	8.292	ES
EXIST DD THISTLE DOWN B31-30D - Wellbore #1 - We	15,030.5	6,865.2	1,883.3	1,655.4	8.265	SF
EXIST HZ LASALLE 25G-402 - Wellbore #1 - Wellbore #	11,231.5	8,029.6	882.7	729.7	5.768	CC
EXIST HZ LASALLE 25G-402 - Wellbore #1 - Wellbore #	14,635.3	11,435.0	892.7	555.1	2.644	ES
EXIST HZ LASALLE 25G-402 - Wellbore #1 - Wellbore #	14,700.0	11,435.0	895.1	555.6	2.637	SF
EXIST HZ THISTLE DOWN STATE PC F36-69HN - Well	14,696.9	6,674.0	2,020.0	1,789.6	8.765	CC
EXIST HZ THISTLE DOWN STATE PC F36-69HN - Well	14,800.0	6,652.1	2,022.4	1,789.4	8.681	ES
EXIST HZ THISTLE DOWN STATE PC F36-69HN - Well	15,030.5	6,607.9	2,044.9	1,806.4	8.572	SF
EXIST VERT HAMILTON 25-10B - Wellbore #1 - Wellboi	13,352.8	6,500.0	320.3	245.4	4.276	CC, ES, SF
EXIST VERT HAMILTON 25-11B - Wellbore #1 - Wellboi	11,590.9	6,798.9	128.7	-3.3	0.975	Level 1, CC, ES, SF
EXIST VERT HAMILTON 25-12B - Wellbore #1 - Wellboi	10,618.3	6,786.5	201.2	96.8	1.927	CC, ES, SF
EXIST VERT HAMILTON 25-13B - Wellbore #1 - Wellboi	10,648.3	6,815.2	1,563.7	1,458.2	14.823	CC
EXIST VERT HAMILTON 25-13B - Wellbore #1 - Wellboi	10,700.0	6,817.3	1,564.6	1,457.7	14.633	ES
EXIST VERT HAMILTON 25-13B - Wellbore #1 - Wellboi	11,300.0	6,839.4	1,693.9	1,570.3	13.709	SF
EXIST VERT HAMILTON 25-14B - Wellbore #1 - Wellboi	11,947.6	6,779.0	1,466.1	1,325.0	10.389	CC
EXIST VERT HAMILTON 25-14B - Wellbore #1 - Wellboi	12,000.0	6,778.7	1,467.0	1,324.5	10.289	ES
EXIST VERT HAMILTON 25-14B - Wellbore #1 - Wellboi	12,400.0	6,776.1	1,534.3	1,380.6	9.982	SF
EXIST VERT HAMILTON 25-15B - Wellbore #1 - Wellboi	12,873.2	6,813.3	1,573.1	1,405.8	9.404	CC
EXIST VERT HAMILTON 25-15B - Wellbore #1 - Wellboi	12,900.0	6,813.2	1,573.3	1,405.3	9.363	ES
EXIST VERT HAMILTON 25-15B - Wellbore #1 - Wellboi	13,300.0	6,811.9	1,630.0	1,450.8	9.096	SF
EXIST VERT HAMILTON 25-16B - Wellbore #1 - Wellboi	14,296.7	6,816.5	1,121.8	914.8	5.418	CC
EXIST VERT HAMILTON 25-16B - Wellbore #1 - Wellboi	14,300.0	6,816.5	1,121.8	914.7	5.416	ES
EXIST VERT HAMILTON 25-16B - Wellbore #1 - Wellboi	14,500.0	6,815.5	1,140.1	927.4	5.359	SF
EXIST VERT HAMILTON 25-9B - Wellbore #1 - Wellbore	14,466.8	6,793.1	118.2	-93.4	0.559	Level 1, CC, ES, SF
EXIST VERT HAMILTON F 25-23 - Wellbore #1 - Wellbo	13,506.7	6,800.8	893.1	708.4	4.835	CC, ES
EXIST VERT HAMILTON F 25-23 - Wellbore #1 - Wellbo	13,600.0	6,800.5	898.0	710.7	4.794	SF
EXIST VERT HAMILTON F 25-25 - Wellbore #1 - Wellbo	11,259.1	6,880.8	897.8	775.5	7.341	CC
EXIST VERT HAMILTON F 25-25 - Wellbore #1 - Wellbo	11,300.0	6,885.5	898.8	775.3	7.283	ES

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 260-232
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 260-232	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 F 25-25 - Wellbore #1 - Wellbo	11,400.0	6,896.8	908.7	782.6	7.205	SF
EXIST VERT HAMILTON F 25-33 - Wellbore #1 - Wellbo	10,051.0	6,781.8	864.2	775.3	9.727	CC, ES
EXIST VERT HAMILTON F 25-33 - Wellbore #1 - Wellbo	10,300.0	6,781.3	899.3	803.7	9.401	SF
EXIST VERT HAMILTON F25-20 - Wellbore #1 - Wellbor	11,053.5	6,752.1	597.1	480.6	5.122	CC, ES
EXIST VERT HAMILTON F25-20 - Wellbore #1 - Wellbor	11,100.0	6,751.7	598.9	481.1	5.081	SF
EXIST VERT HAMILTON F25-21 - Wellbore #1 - Wellbor	12,544.5	6,799.1	479.5	321.3	3.032	CC, ES
EXIST VERT HAMILTON F25-21 - Wellbore #1 - Wellbor	12,600.0	6,797.8	482.7	323.0	3.022	SF
EXIST VERT HAMILTON F25-24 - Wellbore #1 - Wellbor	12,427.1	6,800.0	744.0	589.1	4.805	CC, ES
EXIST VERT HAMILTON F25-24 - Wellbore #1 - Wellbor	12,500.0	6,800.0	747.5	590.7	4.766	SF

Offset Design NW SW SEC. 27 T5N R65W 6th P.M. - ABDN VERT SITZMAN F27-13 - Wellbore #1 - Wellbore #1												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)	Offset Wellbore Centre +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	-93.00	-388.7	-7,415.4	7,425.5				
100.0	100.0	78.4	78.4	0.1	0.0	-93.00	-388.8	-7,415.4	7,425.6	7,425.5	0.11	N/A	
200.0	200.0	196.0	196.0	0.3	0.2	-93.01	-389.4	-7,415.6	7,425.8	7,425.3	0.51	N/A	
300.0	300.0	300.0	300.0	0.5	0.2	-93.01	-389.6	-7,415.5	7,425.7	7,425.0	0.75	9,914.780	
337.4	337.4	331.4	331.4	0.6	0.2	-93.01	-389.5	-7,415.5	7,425.7	7,424.9	0.83	8,913.523	
400.0	400.0	382.2	382.2	0.8	0.2	-93.01	-389.6	-7,415.5	7,425.8	7,424.8	0.97	7,625.864	
500.0	500.0	500.0	500.0	1.0	0.2	-93.01	-389.9	-7,415.5	7,425.7	7,424.5	1.22	6,074.032	
600.0	600.0	587.5	587.5	1.2	0.3	-61.26	-389.9	-7,415.4	7,424.8	7,423.4	1.46	5,098.890	
700.0	699.8	700.0	700.0	1.4	0.3	-61.35	-390.1	-7,415.4	7,422.3	7,420.5	1.73	4,290.935	
800.0	799.5	782.9	782.9	1.7	0.3	-61.47	-390.2	-7,415.3	7,418.0	7,416.0	1.98	3,739.532	
900.0	898.7	911.9	911.9	1.9	0.3	-61.68	-390.0	-7,415.3	7,412.2	7,409.9	2.27	3,266.280	
1,000.0	997.5	1,000.0	1,000.0	2.2	0.4	-61.91	-389.8	-7,415.2	7,404.6	7,402.0	2.61	2,834.883	
1,100.0	1,095.6	1,090.2	1,090.2	2.6	0.4	-62.19	-389.6	-7,415.2	7,395.5	7,392.6	2.95	2,508.453	
1,200.0	1,193.1	1,182.7	1,182.7	3.0	0.4	-62.52	-389.6	-7,415.2	7,384.9	7,381.5	3.33	2,215.598	
1,212.7	1,205.3	1,194.2	1,194.2	3.0	0.4	-62.57	-389.5	-7,415.2	7,383.4	7,380.0	3.39	2,180.848	
1,300.0	1,290.0	1,289.2	1,289.2	3.4	0.4	-62.72	-389.1	-7,415.3	7,373.3	7,369.5	3.78	1,949.507	
1,400.0	1,386.9	1,410.0	1,410.0	3.9	0.5	-62.93	-388.6	-7,415.0	7,361.5	7,357.3	4.26	1,729.266	
1,500.0	1,483.8	1,500.0	1,500.0	4.4	0.5	-63.08	-388.4	-7,414.7	7,349.8	7,345.0	4.73	1,553.706	
1,600.0	1,580.7	1,590.6	1,590.6	4.9	0.5	-63.24	-388.2	-7,414.6	7,338.1	7,332.9	5.21	1,408.821	
1,700.0	1,677.7	1,696.0	1,696.0	5.3	0.6	-63.42	-388.2	-7,414.3	7,326.5	7,320.9	5.68	1,289.050	
1,800.0	1,774.6	1,776.6	1,776.5	5.8	0.6	-63.56	-388.6	-7,414.1	7,315.0	7,308.9	6.17	1,186.111	
1,900.0	1,871.5	1,883.1	1,883.0	6.3	0.6	-63.75	-389.4	-7,413.9	7,303.7	7,297.1	6.67	1,095.632	
2,000.0	1,968.4	1,976.1	1,976.1	6.8	0.7	-63.92	-390.5	-7,413.5	7,292.3	7,285.2	7.16	1,017.904	
2,100.0	2,065.4	2,068.5	2,068.5	7.3	0.7	-64.10	-391.8	-7,413.3	7,281.1	7,273.5	7.66	950.158	
2,200.0	2,162.3	2,147.0	2,147.0	7.9	0.7	-64.24	-393.0	-7,413.2	7,270.1	7,261.9	8.16	891.264	
2,300.0	2,259.2	2,236.0	2,235.9	8.4	0.8	-64.41	-394.4	-7,413.3	7,259.4	7,250.8	8.66	838.597	
2,400.0	2,356.1	2,353.7	2,353.6	8.9	0.8	-64.63	-396.2	-7,413.1	7,248.6	7,239.4	9.17	790.568	
2,500.0	2,453.0	2,448.4	2,448.3	9.4	0.8	-64.81	-397.5	-7,413.0	7,237.8	7,228.1	9.68	748.027	
2,600.0	2,550.0	2,548.7	2,548.6	9.9	0.9	-65.00	-399.0	-7,412.8	7,227.0	7,216.9	10.18	709.588	
2,700.0	2,646.9	2,648.9	2,648.8	10.4	0.9	-65.19	-400.3	-7,412.5	7,216.3	7,205.6	10.70	674.721	
2,800.0	2,743.8	2,700.0	2,699.9	10.9	0.9	-65.29	-401.0	-7,412.4	7,205.8	7,194.6	11.19	643.941	
2,900.0	2,840.7	2,700.0	2,699.9	11.4	0.9	-65.29	-401.0	-7,412.4	7,196.4	7,184.8	11.67	616.754	
3,000.0	2,937.7	2,700.0	2,699.9	11.9	0.9	-65.29	-401.0	-7,412.4	7,188.5	7,176.3	12.15	591.797	
3,100.0	3,034.6	2,700.0	2,699.9	12.5	0.9	-65.29	-401.0	-7,412.4	7,181.9	7,169.3	12.63	568.823	

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