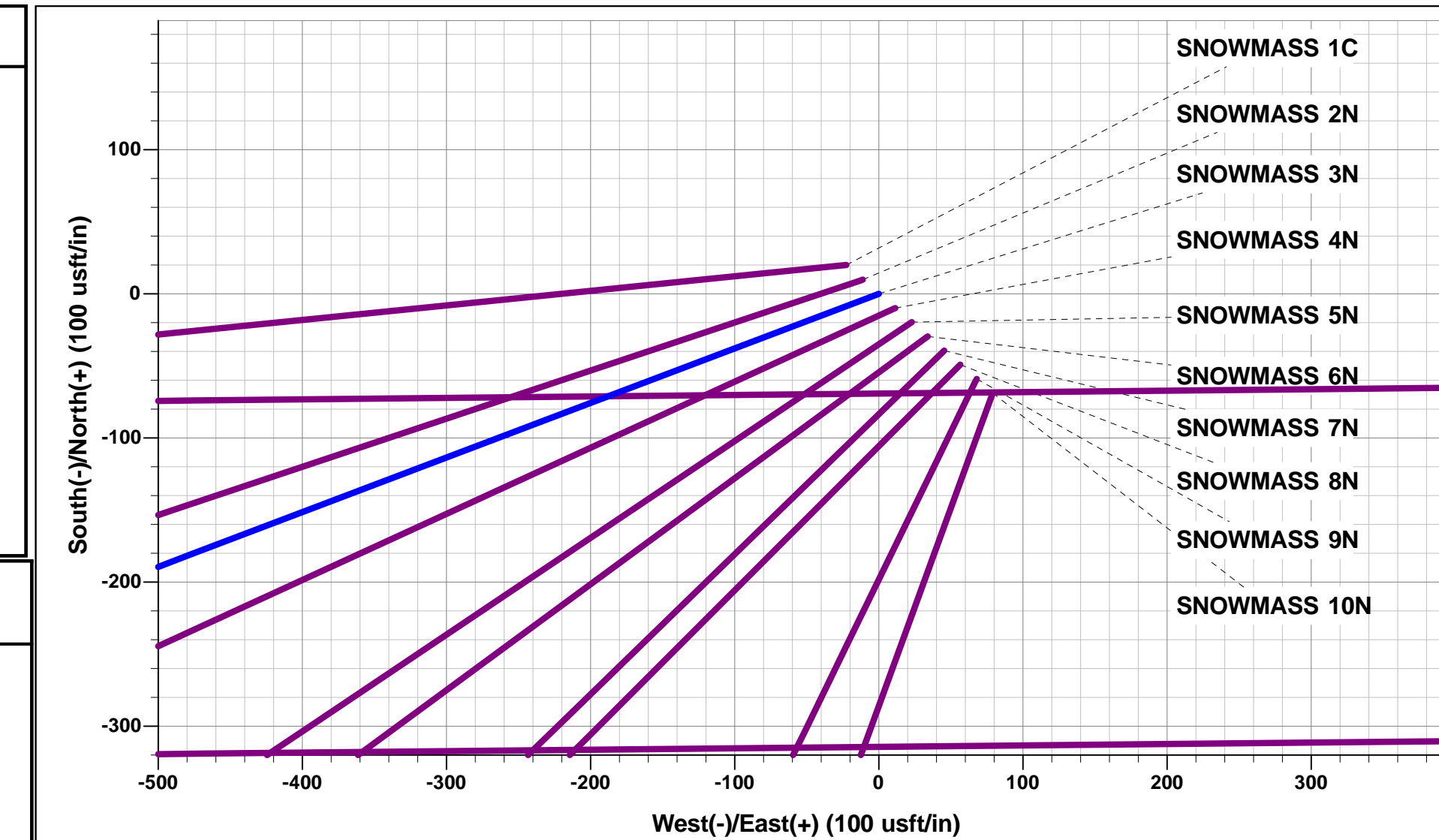




Project: WELD COUNTY, COLORADO
Site: NW NE SEC. 5 T5N R64W 6th P.M.
Well: SNOWMASS 3N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

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: 108ft FNL & 1809ft FEL of Sec 5		
500.0	500.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2°/100ft BUR)		
1470.4	1490.0	19.80	249.26	-60.0	-158.4	-153.9	169.4	EOB TO 19.8° INC		
5011.4	5253.5	19.80	249.26	-511.4	-1350.6	-1312.0	1444.2	END OF TANGENT		
5981.8	6243.5	0.00	0.00	-571.4	-1509.0	-1465.8	1613.6	EOD TO VERTICAL		
6011.8	6273.5	0.00	0.00	-571.4	-1509.0	-1465.8	1613.6	KOP (8°/100ft BUR)		
6728.0	7403.0	90.36	89.48	-564.9	-788.3	-747.3	2334.3	HZ LP *NEW*: 675ft FNL & 2598.2ft FWL of Sec 5		
6678.0	15299.7	90.37	89.48	-493.0	7107.9	7125.0	10230.8	BHL: 675ft FNL & 0ft FEL of Sec 4		

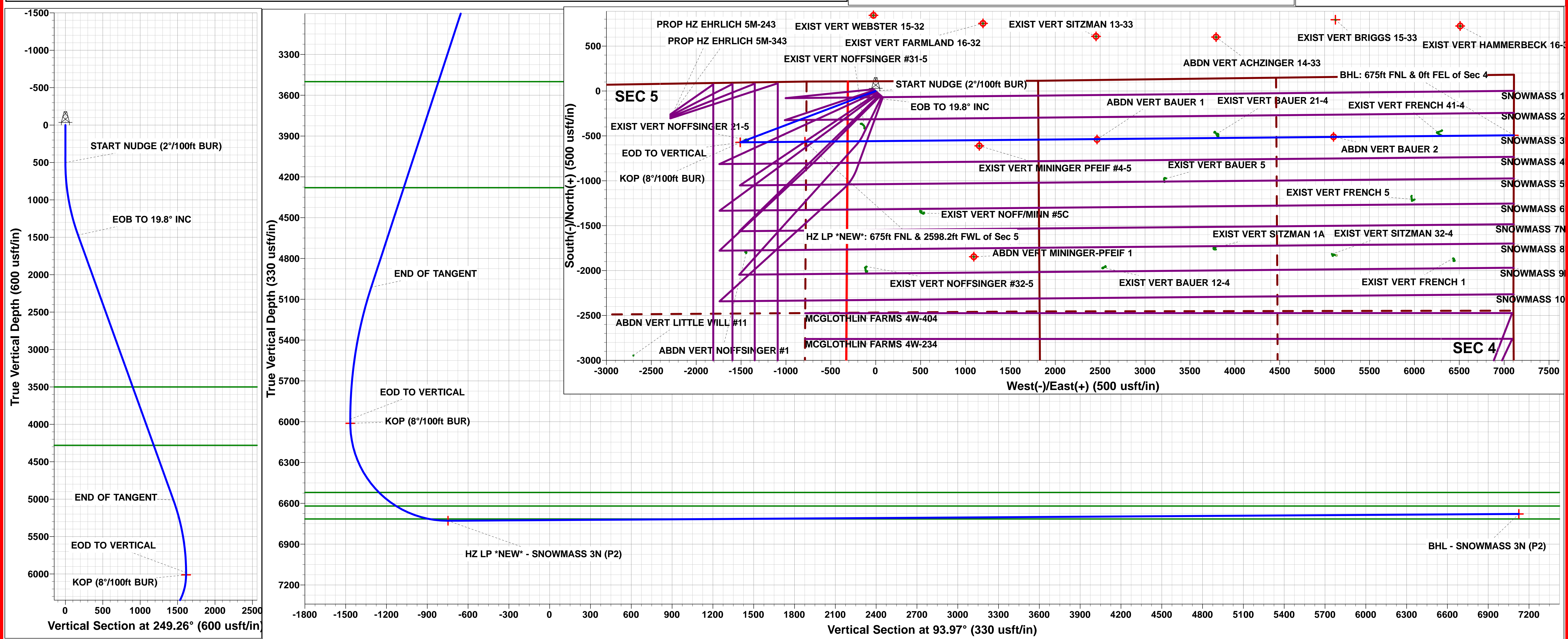
WELLBORE TARGET DETAILS (LAT/LONG)					
Name	TVD	+N/-S	+E/-W	Latitude	Longitude
KOP - SNOWMASS 3N (P2)	6011.8	-571.4	-1509.0	40.433416	-104.576706
BHL - SNOWMASS 3N (P2)	6678.0	-493.0	7107.9	40.433629	-104.545752
HZ LP *NEW* - SNOWMASS 3N (P2)	6728.0	-564.9	-788.3	40.433434	-104.574117



PROPOSED LOCAL COORDINATES:
SHL: 108ft FNL & 1809ft FEL of Sec 5
HZ LP *NEW*: 675ft FNL & 2598.2ft FWL of Sec 5
BHL: 675ft FNL & 0ft FEL of Sec 4

Azimuths to True North
Magnetic North: 8.16°

Magnetic Field
Strength: 52480.7snT
Dip Angle: 66.92°
Date: 13/01/2017
Model: IGRF2015



PDC ENERGY

**WELD COUNTY, COLORADO
NW NE SEC. 5 T5N R64W 6th P.M.
SNOWMASS 3N**

**ORIGINAL WELLBORE
PROPOSAL #2**

Anticollision Report

08 March, 2017



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well SNOWMASS 3N
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4657.0usft (Original Well Elev)
Reference Site:	NW NE SEC. 5 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4657.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	SNOWMASS 3N	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 #2	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #2		
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	08/03/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	15,299.7	PROPOSAL #2 (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
Offset Well - Wellbore - Design						
NW NE SEC. 5 T5N R64W 6th P.M.						
ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design	11,993.2	6,679.0	1,124.6	850.1	4.097	CC
ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design	12,000.0	6,679.0	1,124.6	849.9	4.094	ES
ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design	12,100.0	6,678.3	1,129.6	852.2	4.072	SF
ABDN VERT BAUER 1 - Wellbore #1 - Design #1	10,656.8	6,728.5	4.1	-234.7	0.017	Level 1, CC, ES, SF
ABDN VERT BAUER 2 - Wellbore #1 - Design #1	13,283.7	6,670.8	8.1	-301.6	0.026	Level 1, CC, SF
ABDN VERT BAUER 2 - Wellbore #1 - Design #1	13,300.0	6,670.7	8.5	-301.6	0.028	Level 1, ES
EXIST HZ LUCCI STATE B3-69HNL - Wellbore #1 - Wel	15,299.7	17,000.0	804.9	277.1	1.525	CC, ES, SF
EXIST VERT BAUER 21-4 - Wellbore #1 - Wellbore #1	11,965.2	6,500.0	182.2	115.8	2.743	CC, ES, SF
EXIST VERT BAUER 5 - Wellbore #1 - Wellbore #1	11,423.2	6,667.4	444.9	318.0	3.506	CC, ES
EXIST VERT BAUER 5 - Wellbore #1 - Wellbore #1	11,500.0	6,667.2	451.4	322.4	3.500	SF
EXIST VERT BRIGGS 15-33 - Wellbore #1 - Design #1	13,324.4	6,675.6	1,305.4	994.4	4.197	CC, ES
EXIST VERT BRIGGS 15-33 - Wellbore #1 - Design #1	13,500.0	6,674.5	1,317.2	1,001.3	4.170	SF
EXIST VERT FARMLAND 16-32 - Wellbore #1 - Design #	9,398.3	6,704.4	1,300.2	1,094.5	6.320	CC
EXIST VERT FARMLAND 16-32 - Wellbore #1 - Design #	9,400.0	6,704.4	1,300.2	1,094.4	6.318	ES
EXIST VERT FARMLAND 16-32 - Wellbore #1 - Design #	9,600.0	6,703.2	1,315.8	1,104.9	6.240	SF
EXIST VERT FRENCH 41-4 - Wellbore #1 - Wellbore #1	14,495.7	6,400.0	257.3	176.1	3.171	CC
EXIST VERT FRENCH 41-4 - Wellbore #1 - Wellbore #1	14,500.0	6,400.0	257.3	176.1	3.169	ES, SF
EXIST VERT FRENCH 5 - Wellbore #1 - Wellbore #1	14,156.1	6,654.3	663.6	461.4	3.282	CC, ES
EXIST VERT FRENCH 5 - Wellbore #1 - Wellbore #1	14,200.0	6,654.2	665.0	461.6	3.269	SF
EXIST VERT GRANADOS #4-3 - Wellbore #1 - Design #	15,299.7	6,653.0	673.7	308.4	1.844	CC, ES, SF
EXIST VERT HAMMERBECK 16-33 - Wellbore #1 - Des	14,713.4	6,666.7	1,223.1	873.8	3.501	CC, ES
EXIST VERT HAMMERBECK 16-33 - Wellbore #1 - Des	14,800.0	6,666.2	1,226.2	874.4	3.486	SF
EXIST VERT MININGER PFEIF #4-5 - Wellbore #1 - Des	9,344.8	6,698.8	63.0	-141.4	0.308	Level 1, CC, ES, SF
EXIST VERT NOFFSINGER/MINN #5C - Wellbore #1 - V	8,695.3	6,684.6	786.2	729.8	13.943	CC
EXIST VERT NOFFSINGER/MINN #5C - Wellbore #1 - V	8,700.0	6,684.6	786.2	729.7	13.917	ES
EXIST VERT NOFFSINGER/MINN #5C - Wellbore #1 - V	9,000.0	6,685.7	843.2	779.6	13.264	SF
EXIST VERT SITZMAN 13-33 - Wellbore #1 - Design #1	10,656.3	6,687.5	1,144.2	905.8	4.800	CC
EXIST VERT SITZMAN 13-33 - Wellbore #1 - Design #1	10,700.0	6,687.2	1,145.1	905.5	4.780	ES
EXIST VERT SITZMAN 13-33 - Wellbore #1 - Design #1	10,800.0	6,686.6	1,153.2	911.0	4.761	SF
EXIST VERT WEBSTER 15-32 - Wellbore #1 - Design #	500.0	486.0	843.4	833.4	84.239	CC
EXIST VERT WEBSTER 15-32 - Wellbore #1 - Design #	700.0	685.8	845.7	831.2	58.488	ES
EXIST VERT WEBSTER 15-32 - Wellbore #1 - Design #	8,400.0	6,707.7	1,418.2	1,235.9	7.781	SF
SNOWMASS 10N - ORIGINAL WELLBORE - PROPOSAL	300.0	300.0	104.8	103.8	97.786	CC, ES
SNOWMASS 10N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	16,156.5	1,771.0	1,301.1	3.769	SF
SNOWMASS 1C - ORIGINAL WELLBORE - PROPOSAL	300.0	300.0	30.2	29.1	28.133	CC, ES
SNOWMASS 1C - ORIGINAL WELLBORE - PROPOSAL	15,299.7	14,782.3	520.3	89.5	1.208	Level 2, SF
SNOWMASS 2N - ORIGINAL WELLBORE - PROPOSAL	400.0	400.0	14.9	13.3	9.764	CC

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 SNOWMASS 3N
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4657.0usft (Original Well Elev)
Reference Site:	NW NE SEC. 5 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4657.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	SNOWMASS 3N	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 #2	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 NE SEC. 5 T5N R64W 6th P.M.						
SNOWMASS 2N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	14,727.8	258.0	-180.1	0.589	Level 1, ES, SF
SNOWMASS 4N - ORIGINAL WELLBORE - PROPOSAL	500.0	500.0	15.1	13.1	7.644	CC
SNOWMASS 4N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	15,736.3	248.5	-207.6	0.545	Level 1, ES, SF
SNOWMASS 5N - ORIGINAL WELLBORE - PROPOSAL	500.0	500.0	30.1	28.2	15.287	CC
SNOWMASS 5N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	15,407.0	480.2	15.4	1.033	Level 2, ES, SF
SNOWMASS 6N - ORIGINAL WELLBORE - PROPOSAL	500.0	500.0	45.0	43.0	22.824	CC, ES
SNOWMASS 6N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	15,878.1	762.7	293.4	1.625	SF
SNOWMASS 7N - ORIGINAL WELLBORE - PROPOSAL	500.0	500.0	60.1	58.1	30.468	CC, ES
SNOWMASS 7N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	15,556.6	990.4	525.4	2.130	SF
SNOWMASS 8N - ORIGINAL WELLBORE - PROPOSAL	500.0	500.0	74.9	72.9	38.005	CC, ES
SNOWMASS 8N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	16,001.5	1,206.3	735.4	2.562	SF
SNOWMASS 9N - ORIGINAL WELLBORE - PROPOSAL	400.0	400.0	90.0	88.5	59.134	CC, ES
SNOWMASS 9N - ORIGINAL WELLBORE - PROPOSAL	15,299.7	15,692.3	1,475.2	1,011.5	3.181	SF
NW NW SEC. 5 T5N R64W 6th P.M.						
ABDN VERT LITTLE WILL #11 - Wellbore #1 - Design #1	6,273.5	5,970.8	2,655.0	2,507.2	17.963	CC, ES
ABDN VERT LITTLE WILL #11 - Wellbore #1 - Design #1	6,500.0	6,193.6	2,671.5	2,522.4	17.923	SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	6,300.0	6,017.5	1,221.2	1,186.5	35.185	SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	6,550.0	6,259.1	1,218.1	1,184.1	35.831	ES
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	6,576.8	6,282.6	1,218.0	1,184.2	35.981	CC
EHRlich 5J-223 - ORIGINAL WELLBORE - PROPOSAL	6,400.0	6,869.5	586.3	534.2	11.263	SF
EHRlich 5J-223 - ORIGINAL WELLBORE - PROPOSAL	6,794.2	7,127.7	359.6	329.6	11.986	CC, ES
EHRlich 5J-323 - ORIGINAL WELLBORE - PROPOSAL	6,300.0	6,102.2	712.5	661.0	13.852	SF
EHRlich 5J-323 - ORIGINAL WELLBORE - PROPOSAL	6,745.5	7,142.3	573.7	542.6	18.463	CC, ES
EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSAL	7,116.2	7,343.5	61.6	37.5	2.558	CC, ES, SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	6,900.0	7,276.5	264.8	235.8	9.121	SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	6,950.0	7,282.1	255.1	227.9	9.380	ES
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	6,962.5	7,283.3	254.7	228.0	9.515	CC
EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellbore	5,595.4	5,321.7	11.7	-22.9	0.338	Level 1, CC, ES, SF
EXIST VERT NOFFSINGER #31-5 - Wellbore #1 - Wellbore	8,070.5	6,500.0	247.4	215.9	7.858	CC, ES
EXIST VERT NOFFSINGER #31-5 - Wellbore #1 - Wellbore	8,100.0	6,500.0	249.1	217.3	7.829	SF
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	8,075.0	6,706.1	1,397.2	1,353.6	32.061	CC
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	8,100.0	6,705.6	1,397.4	1,353.4	31.738	ES
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	9,300.0	6,680.1	1,858.0	1,786.8	26.115	SF
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	6,550.0	6,321.2	2,589.6	2,556.1	77.289	ES
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	6,566.6	6,336.2	2,589.6	2,556.2	77.445	CC
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	15,299.7	6,737.8	9,108.4	8,874.4	38.915	SF
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	6,175.7	5,833.2	3,764.6	3,730.1	109.104	CC, ES
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	15,299.7	6,542.6	9,343.0	9,109.1	39.957	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 SNOWMASS 3N
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4657.0usft (Original Well Elev)
Reference Site:	NW NE SEC. 5 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4657.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	SNOWMASS 3N	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 #2	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						
SE SE SEC. 4 T5N R64W 6th P.M.						
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	9,361.6	6,710.3	2,539.0	2,466.7	35.108	CC
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	9,400.0	6,709.5	2,539.3	2,466.0	34.649	ES
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	11,900.0	6,639.0	3,589.8	3,450.0	25.666	SF
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	9,272.3	6,701.2	1,297.4	1,096.8	6.469	CC
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	9,300.0	6,701.0	1,297.7	1,096.5	6.449	ES
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	9,500.0	6,699.8	1,317.2	1,111.0	6.386	SF
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	15,299.7	6,668.0	2,596.4	2,350.5	10.557	CC, ES, SF
EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1	10,403.5	6,663.9	2,560.1	2,460.7	25.751	CC
EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1	10,500.0	6,662.7	2,561.9	2,459.9	25.120	ES
EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1	12,200.0	6,635.5	3,127.5	2,979.4	21.119	SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	10,738.4	6,689.0	1,424.7	1,183.9	5.917	CC
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	10,800.0	6,688.6	1,426.0	1,183.6	5.882	ES
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,000.0	6,687.3	1,448.5	1,200.7	5.846	SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Wellbore #1	10,708.0	6,528.0	1,440.7	1,333.5	13.433	CC, ES
EXIST VERT BAUER 12-4 - Wellbore #1 - Wellbore #1	11,200.0	6,528.0	1,522.4	1,402.0	12.641	SF
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	15,299.7	6,647.0	1,465.8	1,100.2	4.009	CC, ES, SF
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	14,615.3	6,652.3	1,391.2	1,176.2	6.472	CC, ES
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	14,900.0	6,651.3	1,420.1	1,197.2	6.371	SF
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	13,243.1	6,666.3	2,652.9	2,476.0	14.998	CC
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	13,300.0	6,666.3	2,653.5	2,475.1	14.869	ES
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	14,300.0	6,666.9	2,855.7	2,649.5	13.852	SF
EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1	14,607.1	6,621.6	2,791.6	2,577.0	13.006	CC
EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1	14,700.0	6,622.0	2,793.2	2,576.0	12.859	ES
EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1	15,299.7	6,624.2	2,876.3	2,642.4	12.297	SF
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	11,967.9	6,674.6	1,241.6	1,099.6	8.748	CC
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	12,000.0	6,676.2	1,242.0	1,099.2	8.697	ES
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	12,300.0	6,691.1	1,285.1	1,134.1	8.510	SF
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	12,142.9	6,600.0	2,645.8	2,499.1	18.042	CC
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	12,200.0	6,600.0	2,646.4	2,498.2	17.856	ES
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	13,500.0	6,600.0	2,973.5	2,789.5	16.157	SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	13,313.9	6,667.6	1,314.7	1,003.9	4.230	CC, ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	13,500.0	6,666.5	1,327.8	1,011.9	4.203	SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Wellbore #1	13,261.9	6,475.0	1,317.5	1,141.5	7.485	CC
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Wellbore #1	13,300.0	6,475.0	1,318.0	1,141.0	7.444	ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Wellbore #1	13,500.0	6,475.0	1,338.8	1,156.3	7.334	SF
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	7,384.0	14,507.5	2,197.1	1,949.6	8.876	CC
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	7,400.0	14,507.5	2,197.2	1,949.5	8.873	ES
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	7,403.0	14,507.5	2,197.2	1,949.5	8.872	SF
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	7,390.1	14,720.3	1,913.0	1,665.8	7.739	CC
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	7,400.0	14,720.3	1,913.0	1,665.7	7.737	ES
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	7,403.0	14,720.2	1,913.0	1,665.7	7.736	SF

Offset Design NW NE SEC. 5 T5N R64W 6th P.M. - ABDN VERT ACHZINGER 14-33 - Wellbore #1 - Design #1											Offset Site Error:		0.0 usft
Survey Program: 0-INC											Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis		Distance							
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	Warning
0.0	0.0	0.0	0.0	0.0	0.0	80.99	601.4	3,791.4	3,838.9				
100.0	100.0	80.0	80.0	0.1	0.7	80.99	601.4	3,791.4	3,838.8	3,838.1	0.76	5,067.467	
200.0	200.0	180.0	180.0	0.3	2.7	80.99	601.4	3,791.4	3,838.8	3,835.8	3.05	1,257.937	
300.0	300.0	280.0	280.0	0.5	4.9	80.99	601.4	3,791.4	3,838.8	3,833.4	5.42	708.600	

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