

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
NE SW SEC. 7 T4N R64W 6th P.M.  
HONEBEIN 7K-403**

**ORIGINAL WELLBORE  
PROPOSAL #2**

## **Anticollision Report**

**09 July, 2015**



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #2		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 98.4usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 us	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b> 09/07/2015			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	14,219.1	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
NE SW SEC. 7 T4N R64W 6th P.M.						
ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1	14,091.7	7,000.0	630.3	494.6	4.646	CC
ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1	14,100.0	7,000.0	630.3	494.5	4.641	ES
ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1	14,173.2	7,000.0	635.5	498.3	4.632	SF
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,203.8	7,184.6	30.6	-83.8	0.268	Level 1, CC, SF
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,204.7	7,184.6	30.7	-83.8	0.268	Level 1, ES
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,203.1	7,515.9	1,388.4	1,269.3	11.656	CC
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,204.7	7,515.9	1,388.4	1,269.2	11.653	ES
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,500.0	7,505.9	1,419.8	1,295.0	11.381	SF
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,264.0	7,682.9	1,369.6	1,222.2	9.292	CC
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,287.4	7,683.1	1,369.8	1,222.0	9.265	ES
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,500.0	7,684.9	1,389.8	1,237.9	9.150	SF
EXIST VERT FARR #18-12 - Wellbore #1 - Design #1	12,782.6	7,075.7	674.6	422.5	2.677	CC
EXIST VERT FARR #18-12 - Wellbore #1 - Design #1	12,795.2	7,075.7	674.7	422.4	2.675	ES
EXIST VERT FARR #18-12 - Wellbore #1 - Design #1	12,800.0	7,075.7	674.8	422.4	2.674	SF
EXIST VERT FARR #18-14 - Wellbore #1 - Design #1	14,219.1	7,097.5	589.4	309.8	2.108	CC, ES, SF
EXIST VERT FARR #2 - Wellbore #1 - Design #1	12,690.7	7,090.9	549.4	299.0	2.194	CC
EXIST VERT FARR #2 - Wellbore #1 - Design #1	12,700.0	7,090.9	549.5	298.9	2.193	ES, SF
EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1	13,403.0	7,086.3	33.3	-230.6	0.126	Level 1, CC, ES, SF
FRY 18-1 - Wellbore #1 - Wellbore #1	11,336.9	5,400.0	1,814.7	1,764.9	36.473	CC, ES
FRY 18-1 - Wellbore #1 - Wellbore #1	12,000.0	5,400.0	1,932.1	1,875.7	34.259	SF
FRY 21-18 - Wellbore #1 - Wellbore #1	10,041.2	7,060.0	534.9	475.0	8.926	CC, ES
FRY 21-18 - Wellbore #1 - Wellbore #1	10,137.8	7,060.0	543.6	481.9	8.808	SF
FRY 21-6I - Wellbore #1 - Wellbore #1	10,794.9	7,199.3	1,100.6	1,007.8	11.863	CC
FRY 21-6I - Wellbore #1 - Wellbore #1	10,826.7	7,199.6	1,101.0	1,007.7	11.792	ES
FRY 21-6I - Wellbore #1 - Wellbore #1	11,023.6	7,201.9	1,124.1	1,027.0	11.579	SF
FRY 22-18 - Wellbore #1 - Wellbore #1	11,338.9	7,085.0	481.6	397.3	5.709	CC, ES
FRY 22-18 - Wellbore #1 - Wellbore #1	11,400.0	7,085.0	485.5	400.0	5.677	SF
FRY 5 - Wellbore #1 - Wellbore #1	10,695.2	7,000.0	125.9	65.6	2.087	CC, ES
FRY 5 - Wellbore #1 - Wellbore #1	10,700.0	7,000.0	125.9	65.6	2.086	SF
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,036.6	7,000.0	540.1	479.9	8.975	CC
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,039.3	7,000.0	540.1	479.8	8.967	ES
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,137.8	7,000.0	549.5	487.4	8.858	SF
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	7,281.9	7,073.8	814.8	784.9	27.186	CC
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	7,283.4	7,074.3	814.8	784.8	27.178	ES
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	7,480.3	7,117.5	838.0	806.5	26.639	SF
HONEBEIN 7G-203 - ORIGINAL WELLBORE - PROPOSAL	1,000.0	997.0	89.2	85.0	21.076	CC, ES
HONEBEIN 7G-203 - ORIGINAL WELLBORE - PROPOSAL	14,219.1	14,170.4	1,231.8	954.3	4.438	SF

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
NE SW SEC. 7 T4N R64W 6th P.M.						
HONEBEIN 7G-323 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,098.0	58.6	53.9	12.497	CC, ES
HONEBEIN 7G-323 - ORIGINAL WELLBORE - PROPOS	14,219.1	14,210.5	968.7	694.1	3.527	SF
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOS	1,193.3	1,194.3	30.7	25.6	6.000	CC
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOS	1,200.0	1,201.0	30.7	25.5	5.965	ES
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOS	14,219.1	14,074.4	326.6	96.6	1.420	Level 3, SF
HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOS	1,200.0	1,199.0	30.7	25.5	5.971	CC, ES
HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOS	14,219.1	14,075.1	420.8	164.6	1.643	SF
HONEBEIN 7K-323 - ORIGINAL WELLBORE - PROPOS	1,088.5	1,090.5	61.3	56.7	13.213	CC
HONEBEIN 7K-323 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,102.0	61.3	56.6	13.068	ES
HONEBEIN 7K-323 - ORIGINAL WELLBORE - PROPOS	14,219.1	14,156.6	641.7	366.6	2.332	SF
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	988.5	991.5	89.2	85.0	21.268	CC
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	1,000.0	1,002.9	89.2	85.0	21.012	ES
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	14,219.1	14,135.3	918.3	646.6	3.381	SF
HOW SAD C 18-31 - Wellbore #1 - Design #1	10,636.2	7,060.5	1,513.3	1,302.0	7.161	CC, ES
HOW SAD C 18-31 - Wellbore #1 - Design #1	10,826.7	7,060.1	1,525.3	1,310.4	7.098	SF
LATHAM 7-1 - Wellbore #1 - Wellbore #1	7,780.1	7,000.0	213.4	190.9	9.508	CC, ES
LATHAM 7-1 - Wellbore #1 - Wellbore #1	7,800.0	7,000.0	214.3	191.7	9.469	SF
LATHAM 7-2 - Wellbore #1 - Wellbore #1	7,663.6	7,000.0	564.9	543.7	26.596	CC, ES
LATHAM 7-2 - Wellbore #1 - Wellbore #1	7,800.0	7,000.0	581.2	558.5	25.634	SF
LATHAM 7-3 - Wellbore #1 - Wellbore #1	8,711.3	7,000.0	620.4	584.0	17.079	CC, ES
LATHAM 7-3 - Wellbore #1 - Wellbore #1	8,900.0	7,000.0	648.4	608.9	16.390	SF
LATHAM 7-4 - Wellbore #1 - Wellbore #1	8,783.6	7,100.0	429.2	391.7	11.432	CC, ES
LATHAM 7-4 - Wellbore #1 - Wellbore #1	8,858.2	7,100.0	435.6	396.8	11.215	SF
SE SE SEC. 18 T4N R64W 6th P.M.						
COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOS	9,949.7	11,613.7	1,292.7	1,148.2	8.946	CC, ES
COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOS	14,219.1	7,382.6	1,307.8	1,152.8	8.435	SF
NEI C17-33D - Wellbore #1 - Wellbore #1	13,228.3	6,204.9	3,364.5	3,228.9	24.818	CC
NEI C17-33D - Wellbore #1 - Wellbore #1	13,287.4	6,210.2	3,365.0	3,228.3	24.617	ES
NEI C17-33D - Wellbore #1 - Wellbore #1	14,219.1	6,298.2	3,505.9	3,351.3	22.663	SF
NEI C18-21D - Wellbore #1 - Wellbore #1	11,946.2	7,153.8	1,399.8	1,289.6	12.704	CC, ES
NEI C18-21D - Wellbore #1 - Wellbore #1	12,300.0	7,157.7	1,443.8	1,326.9	12.351	SF
NEI C18-22D - Wellbore #1 - Wellbore #1	11,978.5	7,345.2	2,488.0	2,374.4	21.910	CC
NEI C18-22D - Wellbore #1 - Wellbore #1	12,007.8	7,345.0	2,488.1	2,374.0	21.804	ES
NEI C18-22D - Wellbore #1 - Wellbore #1	13,000.0	7,340.1	2,689.5	2,556.5	20.230	SF
NEI C18-23D - Wellbore #1 - Wellbore #1	13,453.4	7,579.8	2,536.2	2,383.3	16.581	CC
NEI C18-23D - Wellbore #1 - Wellbore #1	13,500.0	7,578.0	2,536.7	2,382.8	16.487	ES
NEI C18-23D - Wellbore #1 - Wellbore #1	14,219.1	7,549.3	2,649.2	2,481.6	15.807	SF
NEI C18-24D - Wellbore #1 - Wellbore #1	13,278.5	7,248.6	1,395.7	1,252.1	9.725	CC
NEI C18-24D - Wellbore #1 - Wellbore #1	13,300.0	7,248.8	1,395.8	1,251.9	9.699	ES
NEI C18-24D - Wellbore #1 - Wellbore #1	13,500.0	7,250.3	1,413.1	1,265.4	9.566	SF
OSTER C19-27D - Wellbore #1 - Wellbore #1	14,219.1	7,365.8	2,542.2	2,358.7	13.852	CC, ES, SF

Offset Design										NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - 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										
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	-174.42	-6,940.0	-677.7	6,973.0								
98.4	98.4	105.5	105.5	0.1	0.1	-174.42	-6,939.9	-677.5	6,972.9	6,972.8	0.15	N/A					
100.0	100.0	107.2	107.2	0.1	0.1	-174.42	-6,939.9	-677.5	6,972.9	6,972.8	0.16	N/A					

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
196.8	196.8	207.1	207.1	0.3	0.2	-174.43	-6,939.7	-677.2	6,972.7	6,972.1	0.53	N/A	
200.0	200.0	209.9	209.9	0.3	0.2	-174.43	-6,939.7	-677.2	6,972.7	6,972.1	0.54	N/A	
295.3	295.3	300.0	300.0	0.5	0.3	-174.43	-6,939.5	-677.1	6,972.4	6,971.6	0.84	8,329.858	
300.0	300.0	300.0	300.0	0.5	0.3	-174.43	-6,939.5	-677.1	6,972.4	6,971.6	0.85	8,225.486	
393.7	393.7	388.8	388.8	0.8	0.3	-174.43	-6,939.4	-676.9	6,972.3	6,971.2	1.10	6,328.272	
400.0	400.0	394.7	394.7	0.8	0.4	-174.43	-6,939.4	-676.9	6,972.3	6,971.2	1.12	6,231.832	
427.8	427.8	418.3	418.3	0.8	0.4	-174.43	-6,939.4	-676.8	6,972.3	6,971.1	1.19	5,841.414	
492.1	492.1	471.4	471.4	1.0	0.4	-174.43	-6,939.5	-676.6	6,972.4	6,971.0	1.37	5,102.951	
500.0	500.0	477.9	477.9	1.0	0.4	-174.43	-6,939.5	-676.6	6,972.4	6,971.0	1.39	5,025.182	
590.5	590.5	559.2	559.2	1.2	0.4	-174.44	-6,939.7	-676.2	6,972.6	6,971.0	1.63	4,273.380	
600.0	600.0	568.0	568.0	1.2	0.4	-174.44	-6,939.8	-676.1	6,972.7	6,971.0	1.66	4,207.569	
689.0	689.0	648.6	648.6	1.4	0.5	-174.44	-6,940.1	-675.7	6,973.0	6,971.1	1.89	3,684.427	
700.0	700.0	658.5	658.4	1.4	0.5	-174.44	-6,940.1	-675.7	6,973.0	6,971.1	1.92	3,629.237	
787.4	787.4	737.3	737.3	1.6	0.5	-174.44	-6,940.6	-675.5	6,973.5	6,971.3	2.15	3,243.551	
800.0	800.0	748.8	748.8	1.7	0.5	-174.44	-6,940.7	-675.5	6,973.6	6,971.4	2.18	3,194.300	
885.8	885.8	828.6	828.6	1.9	0.6	-174.44	-6,941.2	-675.2	6,974.1	6,971.7	2.41	2,895.650	
900.0	900.0	842.3	842.3	1.9	0.6	-174.44	-6,941.3	-675.2	6,974.2	6,971.8	2.45	2,851.647	
984.2	984.2	921.9	921.9	2.1	0.6	-174.45	-6,941.9	-675.0	6,974.8	6,972.2	2.67	2,616.272	
1,000.0	1,000.0	936.0	936.0	2.1	0.6	-174.45	-6,942.0	-675.0	6,974.9	6,972.2	2.71	2,576.799	
1,082.7	1,082.7	1,010.1	1,010.1	2.3	0.6	-174.45	-6,942.6	-674.9	6,975.6	6,972.7	2.92	2,387.927	
1,100.0	1,100.0	1,025.3	1,025.3	2.3	0.6	-174.45	-6,942.8	-674.9	6,975.8	6,972.8	2.97	2,351.966	
1,181.1	1,181.1	1,100.0	1,100.0	2.5	0.7	-174.45	-6,943.5	-674.8	6,976.6	6,973.4	3.18	2,196.306	
1,200.0	1,200.0	1,116.4	1,116.4	2.6	0.7	-174.45	-6,943.7	-674.8	6,976.8	6,973.6	3.23	2,163.298	
1,279.5	1,279.5	1,202.0	1,201.9	2.7	0.7	-174.45	-6,944.6	-674.8	6,977.6	6,974.2	3.44	2,030.995	
1,300.0	1,300.0	1,223.7	1,223.6	2.8	0.7	-174.45	-6,944.8	-674.8	6,977.8	6,974.3	3.49	1,999.613	
1,377.9	1,377.9	1,306.3	1,306.2	3.0	0.8	-170.16	-6,945.6	-675.0	6,979.6	6,975.9	3.70	1,885.338	
1,400.0	1,400.0	1,329.6	1,329.6	3.0	0.8	-170.16	-6,945.8	-675.0	6,980.5	6,976.7	3.76	1,855.772	
1,476.4	1,476.3	1,413.1	1,413.0	3.2	0.8	-170.15	-6,946.4	-675.3	6,984.7	6,980.8	3.97	1,759.349	
1,500.0	1,499.8	1,444.0	1,444.0	3.2	0.8	-170.14	-6,946.6	-675.4	6,986.4	6,982.4	4.04	1,731.367	
1,574.8	1,574.4	1,542.1	1,542.1	3.4	0.8	-170.13	-6,947.1	-676.0	6,992.9	6,988.7	4.24	1,648.505	
1,600.0	1,599.5	1,575.2	1,575.2	3.5	0.8	-170.12	-6,947.1	-676.2	6,995.5	6,991.1	4.31	1,622.787	
1,673.2	1,672.2	1,671.2	1,671.2	3.6	0.8	-170.11	-6,947.2	-676.5	7,003.9	6,999.4	4.50	1,558.018	
1,700.0	1,698.7	1,705.3	1,705.2	3.7	0.8	-170.10	-6,947.1	-676.5	7,007.4	7,002.9	4.56	1,536.178	
1,771.6	1,769.5	1,783.9	1,783.9	3.9	0.9	-170.08	-6,946.9	-676.4	7,017.9	7,013.2	4.75	1,477.290	
1,800.0	1,797.5	1,816.6	1,816.5	4.0	0.9	-170.08	-6,946.8	-676.3	7,022.6	7,017.7	4.83	1,455.274	
1,870.1	1,866.3	1,900.0	1,900.0	4.2	0.9	-170.06	-6,946.4	-676.1	7,035.0	7,030.0	5.02	1,402.442	
1,900.1	1,895.8	1,929.9	1,929.8	4.3	0.9	-170.04	-6,946.2	-676.0	7,040.8	7,035.7	5.10	1,381.299	
1,968.5	1,962.6	1,995.5	1,995.4	4.5	0.9	-170.07	-6,945.8	-675.8	7,054.4	7,049.2	5.27	1,337.524	
2,000.0	1,993.4	2,023.2	2,023.2	4.6	0.9	-170.07	-6,945.6	-675.7	7,060.7	7,055.4	5.36	1,318.429	
2,066.9	2,058.9	2,081.2	2,081.2	4.8	0.9	-170.09	-6,945.4	-675.5	7,074.1	7,068.6	5.53	1,278.325	
2,100.0	2,091.3	2,110.5	2,110.4	4.9	0.9	-170.10	-6,945.3	-675.3	7,080.8	7,075.1	5.62	1,260.347	
2,165.3	2,155.2	2,170.7	2,170.7	5.1	0.9	-170.12	-6,945.1	-674.9	7,093.9	7,088.1	5.79	1,224.766	
2,200.0	2,189.1	2,202.8	2,202.8	5.3	1.0	-170.14	-6,945.0	-674.7	7,100.9	7,095.0	5.89	1,206.032	
2,263.8	2,251.4	2,266.3	2,266.2	5.5	1.0	-170.16	-6,944.8	-674.3	7,113.8	7,107.7	6.06	1,173.534	
2,300.0	2,286.9	2,300.0	2,299.9	5.6	1.0	-170.17	-6,944.7	-674.1	7,121.1	7,114.9	6.16	1,155.866	
2,362.2	2,347.7	2,350.8	2,350.8	5.9	1.0	-170.19	-6,944.6	-673.8	7,133.7	7,127.3	6.33	1,126.953	
2,400.0	2,384.7	2,380.6	2,380.6	6.0	1.0	-170.20	-6,944.6	-673.6	7,141.4	7,134.9	6.43	1,110.128	
2,460.6	2,444.0	2,429.7	2,429.6	6.3	1.0	-170.21	-6,944.6	-673.4	7,153.8	7,147.2	6.60	1,084.012	
2,500.0	2,482.5	2,462.1	2,462.1	6.4	1.0	-170.22	-6,944.7	-673.2	7,161.9	7,155.2	6.71	1,067.779	
2,559.0	2,540.3	2,512.6	2,512.5	6.6	1.0	-170.24	-6,944.8	-673.1	7,174.2	7,167.3	6.87	1,043.992	
2,600.0	2,580.3	2,552.1	2,552.0	6.8	1.0	-170.25	-6,944.9	-673.0	7,182.7	7,175.7	6.99	1,027.941	
2,617.6	2,597.5	2,569.0	2,569.0	6.9	1.1	-170.26	-6,944.9	-672.9	7,186.3	7,179.3	7.04	1,021.182	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,657.5	2,636.6	2,607.1	2,607.0	7.0	1.1	-170.30	-6,945.1	-672.8	7,194.3	7,187.2	7.13	1,008.993	
2,700.0	2,678.4	2,645.7	2,645.7	7.2	1.1	-170.33	-6,945.2	-672.7	7,202.3	7,195.1	7.23	996.449	
2,755.9	2,733.5	2,700.0	2,699.9	7.3	1.1	-170.38	-6,945.4	-672.6	7,211.9	7,204.5	7.34	982.631	
2,800.0	2,777.0	2,736.2	2,736.1	7.4	1.1	-170.41	-6,945.5	-672.6	7,218.7	7,211.3	7.43	972.027	
2,854.3	2,830.9	2,784.7	2,784.7	7.6	1.1	-170.44	-6,945.8	-672.5	7,226.2	7,218.7	7.53	959.315	
2,900.0	2,876.2	2,825.9	2,825.9	7.7	1.1	-170.47	-6,946.0	-672.5	7,231.8	7,224.2	7.62	948.836	
2,952.7	2,928.7	2,873.8	2,873.7	7.8	1.1	-170.50	-6,946.3	-672.5	7,237.4	7,229.7	7.72	937.198	
3,000.0	2,975.8	2,916.5	2,916.4	7.9	1.1	-170.51	-6,946.5	-672.6	7,241.6	7,233.8	7.81	926.964	
3,051.2	3,026.8	2,962.3	2,962.2	8.0	1.2	-170.53	-6,946.9	-672.6	7,245.4	7,237.5	7.91	916.317	
3,100.0	3,075.6	3,006.4	3,006.3	8.1	1.2	-170.54	-6,947.2	-672.6	7,248.2	7,240.2	8.00	906.309	
3,149.6	3,125.2	3,053.6	3,053.5	8.2	1.2	-170.55	-6,947.6	-672.7	7,250.2	7,242.1	8.09	896.462	
3,200.0	3,175.6	3,101.8	3,101.7	8.3	1.2	-170.56	-6,948.0	-672.7	7,251.4	7,243.2	8.18	886.585	
3,217.7	3,193.3	3,120.8	3,120.8	8.3	1.2	-174.84	-6,948.2	-672.7	7,251.6	7,243.4	8.21	883.298	
3,248.0	3,223.6	3,153.4	3,153.3	8.4	1.2	-174.84	-6,948.5	-672.8	7,251.8	7,243.6	8.28	876.164	
3,300.0	3,275.6	3,207.8	3,207.7	8.5	1.2	-174.84	-6,948.9	-673.0	7,252.3	7,243.9	8.39	864.221	
3,346.4	3,322.0	3,250.0	3,249.9	8.6	1.2	-174.84	-6,949.2	-673.1	7,252.6	7,244.1	8.50	853.092	
3,400.0	3,375.6	3,300.0	3,299.9	8.7	1.2	-174.84	-6,949.7	-673.4	7,253.1	7,244.5	8.63	840.582	
3,444.9	3,420.4	3,344.9	3,344.9	8.7	1.2	-174.83	-6,950.1	-673.7	7,253.5	7,244.8	8.74	830.286	
3,500.0	3,475.6	3,400.0	3,399.9	8.8	1.3	-174.83	-6,950.5	-674.0	7,254.0	7,245.2	8.87	817.982	
3,543.3	3,518.9	3,438.0	3,438.0	8.9	1.3	-174.83	-6,950.9	-674.3	7,254.4	7,245.5	8.97	808.674	
3,600.0	3,575.6	3,485.7	3,485.6	9.0	1.3	-174.83	-6,951.3	-674.7	7,255.0	7,245.9	9.10	796.858	
3,641.7	3,617.3	3,526.7	3,526.6	9.1	1.3	-174.82	-6,951.8	-675.1	7,255.5	7,246.3	9.20	788.261	
3,700.0	3,675.6	3,589.9	3,589.8	9.2	1.3	-174.82	-6,952.4	-675.8	7,256.1	7,246.8	9.35	776.461	
3,740.1	3,715.7	3,625.0	3,624.9	9.3	1.3	-174.81	-6,952.7	-676.3	7,256.6	7,247.1	9.44	768.713	
3,800.0	3,775.6	3,673.4	3,673.3	9.4	1.3	-174.81	-6,953.2	-677.2	7,257.3	7,247.7	9.58	757.541	
3,838.6	3,814.1	3,709.9	3,709.8	9.5	1.3	-174.80	-6,953.6	-678.0	7,257.8	7,248.1	9.67	750.420	
3,900.0	3,875.6	3,810.5	3,810.3	9.6	1.3	-174.78	-6,954.4	-680.3	7,258.4	7,248.6	9.83	738.721	
3,937.0	3,912.6	3,849.7	3,849.5	9.7	1.3	-174.78	-6,954.7	-681.2	7,258.7	7,248.8	9.91	732.197	
4,000.0	3,975.6	3,919.7	3,919.6	9.8	1.3	-174.77	-6,955.0	-682.7	7,259.1	7,249.1	10.06	721.314	
4,035.4	4,011.0	3,964.8	3,964.6	9.9	1.4	-174.76	-6,955.2	-683.7	7,259.3	7,249.2	10.15	715.264	
4,100.0	4,075.6	4,050.5	4,050.3	10.0	1.4	-174.75	-6,955.3	-685.3	7,259.6	7,249.3	10.30	704.498	
4,133.8	4,109.4	4,096.8	4,096.6	10.0	1.4	-174.74	-6,955.4	-686.0	7,259.6	7,249.2	10.39	698.976	
4,200.0	4,175.6	4,163.8	4,163.6	10.2	1.4	-174.73	-6,955.3	-686.7	7,259.6	7,249.1	10.54	688.728	
4,232.3	4,207.8	4,196.0	4,195.8	10.2	1.4	-174.73	-6,955.3	-687.0	7,259.7	7,249.0	10.62	683.837	
4,300.0	4,275.6	4,262.2	4,262.0	10.4	1.4	-174.73	-6,955.3	-687.6	7,259.7	7,248.9	10.77	673.800	
4,330.7	4,306.3	4,292.2	4,292.0	10.4	1.4	-174.73	-6,955.3	-687.9	7,259.7	7,248.9	10.85	669.347	
4,400.0	4,375.6	4,340.1	4,339.8	10.6	1.4	-174.72	-6,955.3	-688.2	7,259.8	7,248.8	11.00	659.736	
4,429.1	4,404.7	4,359.1	4,358.9	10.6	1.4	-174.72	-6,955.4	-688.3	7,260.0	7,248.9	11.07	655.796	
4,500.0	4,475.6	4,400.0	4,399.8	10.8	1.4	-174.72	-6,955.6	-688.4	7,260.4	7,249.2	11.23	646.450	
4,527.5	4,503.1	4,425.9	4,425.7	10.8	1.4	-174.72	-6,955.9	-688.5	7,260.7	7,249.4	11.30	642.632	
4,600.0	4,575.6	4,478.3	4,478.1	11.0	1.4	-174.72	-6,956.4	-688.5	7,261.5	7,250.0	11.47	633.049	
4,626.0	4,601.5	4,500.0	4,499.8	11.0	1.4	-174.72	-6,956.7	-688.6	7,261.8	7,250.3	11.53	629.641	
4,700.0	4,675.6	4,549.0	4,548.7	11.2	1.5	-174.72	-6,957.4	-688.6	7,262.9	7,251.2	11.71	620.318	
4,724.4	4,700.0	4,566.0	4,565.8	11.2	1.5	-174.72	-6,957.7	-688.6	7,263.3	7,251.5	11.77	617.294	
4,800.0	4,775.6	4,617.6	4,617.4	11.4	1.5	-174.72	-6,958.7	-688.5	7,264.7	7,252.7	11.95	608.148	
4,822.8	4,798.4	4,632.4	4,632.2	11.4	1.5	-174.72	-6,959.0	-688.4	7,265.2	7,253.2	12.00	605.456	
4,900.0	4,875.6	4,700.0	4,699.7	11.6	1.5	-174.73	-6,960.7	-687.8	7,267.0	7,254.8	12.19	596.319	
4,921.2	4,896.8	4,700.0	4,699.7	11.6	1.5	-174.73	-6,960.7	-687.8	7,267.5	7,255.3	12.23	594.089	
5,000.0	4,975.6	4,761.8	4,761.5	11.8	1.5	-174.74	-6,962.5	-686.9	7,269.7	7,257.3	12.42	585.219	
5,019.7	4,995.2	4,778.4	4,778.1	11.8	1.5	-174.74	-6,963.0	-686.7	7,270.2	7,257.8	12.47	583.033	
5,100.0	5,075.6	4,841.4	4,841.1	12.0	1.5	-174.75	-6,964.9	-685.9	7,272.6	7,260.0	12.66	574.335	
5,118.1	5,093.7	4,855.2	4,854.8	12.0	1.5	-174.75	-6,965.4	-685.8	7,273.2	7,260.5	12.71	572.416	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

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						
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
5,200.0	5,175.6	4,937.2	4,936.8	12.2	1.6	-174.75	-6,968.1	-685.4	7,275.8	7,262.9	12.91	563.655	
5,216.5	5,192.1	4,964.2	4,963.8	12.2	1.6	-174.76	-6,968.9	-685.3	7,276.4	7,263.4	12.95	561.788	
5,300.0	5,275.6	5,081.2	5,080.8	12.4	1.6	-174.76	-6,972.2	-685.0	7,278.6	7,265.5	13.17	552.755	
5,314.9	5,290.5	5,100.9	5,100.4	12.4	1.6	-174.76	-6,972.7	-685.0	7,279.0	7,265.8	13.21	551.180	
5,400.0	5,375.6	5,205.5	5,205.0	12.6	1.6	-174.76	-6,975.1	-684.9	7,281.0	7,267.6	13.42	542.441	
5,413.4	5,388.9	5,220.9	5,220.4	12.6	1.6	-174.76	-6,975.5	-684.9	7,281.3	7,267.8	13.46	541.100	
5,500.0	5,475.6	5,326.8	5,326.3	12.8	1.7	-174.76	-6,977.7	-685.1	7,283.1	7,269.4	13.68	532.517	
5,511.8	5,487.4	5,344.5	5,343.9	12.8	1.7	-174.76	-6,978.0	-685.1	7,283.3	7,269.6	13.71	531.341	
5,600.0	5,575.6	5,448.6	5,448.0	13.0	1.7	-174.76	-6,979.7	-686.1	7,284.8	7,270.9	13.93	522.973	
5,610.2	5,585.8	5,458.3	5,457.8	13.0	1.7	-174.76	-6,979.8	-686.2	7,285.0	7,271.0	13.95	522.045	
5,700.0	5,675.6	5,617.4	5,616.9	13.2	1.7	-174.75	-6,981.6	-687.6	7,286.1	7,271.9	14.19	513.343	
5,708.6	5,684.2	5,625.5	5,624.9	13.2	1.7	-174.75	-6,981.7	-687.7	7,286.2	7,272.0	14.21	512.587	
5,800.0	5,775.6	5,713.4	5,712.8	13.4	1.8	-174.74	-6,982.3	-688.3	7,286.8	7,272.4	14.44	504.718	
5,807.1	5,782.6	5,721.8	5,721.2	13.4	1.8	-174.74	-6,982.3	-688.4	7,286.9	7,272.4	14.46	504.108	
5,900.0	5,875.6	5,828.1	5,827.6	13.6	1.8	-174.73	-6,982.9	-689.2	7,287.4	7,272.8	14.68	496.258	
5,905.5	5,881.1	5,833.9	5,833.3	13.6	1.8	-174.73	-6,982.9	-689.3	7,287.5	7,272.8	14.70	495.806	
6,000.0	5,975.6	5,926.9	5,926.4	13.8	1.8	-174.73	-6,983.3	-689.8	7,288.0	7,273.0	14.93	488.177	
6,003.9	5,979.5	5,930.4	5,929.8	13.8	1.8	-174.73	-6,983.4	-689.8	7,288.0	7,273.0	14.94	487.867	
6,100.0	6,075.6	6,021.8	6,021.2	14.0	1.8	-174.73	-6,983.9	-690.4	7,288.6	7,273.4	15.17	480.371	
6,102.3	6,077.9	6,025.0	6,024.4	14.0	1.8	-174.73	-6,983.9	-690.4	7,288.6	7,273.4	15.18	480.187	
6,200.0	6,175.6	6,141.4	6,140.8	14.2	1.9	-174.72	-6,984.3	-691.2	7,289.0	7,273.6	15.42	472.718	
6,200.8	6,176.3	6,142.2	6,141.6	14.2	1.9	-174.72	-6,984.3	-691.2	7,289.0	7,273.6	15.42	472.660	
6,299.2	6,274.8	6,284.5	6,283.9	14.4	1.9	-174.72	-6,984.6	-691.4	7,289.2	7,273.6	15.65	465.655	
6,300.0	6,275.6	6,286.2	6,285.6	14.4	1.9	-174.72	-6,984.6	-691.4	7,289.2	7,273.6	15.66	465.601	
6,397.6	6,373.2	6,466.5	6,465.9	14.7	1.9	-174.74	-6,983.3	-688.2	7,288.3	7,272.5	15.88	458.995	
6,400.0	6,375.6	6,470.3	6,469.7	14.7	1.9	-174.74	-6,983.2	-688.1	7,288.3	7,272.4	15.88	458.837	
6,436.2	6,411.8	6,529.6	6,529.0	14.7	1.9	-174.76	-6,982.4	-686.4	7,287.7	7,271.8	15.97	456.432	
6,450.0	6,425.6	6,552.5	6,551.9	14.8	1.9	5.03	-6,982.1	-685.7	7,287.4	7,271.4	15.99	455.866	
6,496.0	6,471.5	6,623.6	6,622.9	14.8	1.9	5.04	-6,980.9	-683.2	7,284.1	7,268.0	16.07	453.309	
6,500.0	6,475.5	6,628.9	6,628.2	14.8	1.9	5.04	-6,980.8	-683.0	7,283.6	7,267.6	16.08	453.012	
6,550.0	6,525.1	6,695.9	6,695.1	14.9	1.9	5.08	-6,979.4	-680.5	7,276.3	7,260.1	16.23	448.451	
6,594.5	6,568.7	6,743.2	6,742.4	14.9	1.9	5.14	-6,978.4	-678.7	7,266.9	7,250.5	16.38	443.567	
6,600.0	6,574.1	6,748.9	6,748.1	14.9	1.9	5.15	-6,978.3	-678.5	7,265.5	7,249.1	16.40	442.927	
6,650.0	6,622.4	6,915.6	6,914.6	14.9	1.9	5.24	-6,973.5	-671.7	7,251.2	7,234.5	16.65	435.564	
6,692.9	6,663.0	6,951.8	6,950.7	14.9	1.9	5.36	-6,972.2	-670.2	7,235.7	7,218.9	16.81	430.393	
6,700.0	6,669.6	6,957.7	6,956.6	14.9	1.9	5.38	-6,971.9	-669.9	7,232.9	7,216.1	16.84	429.577	
6,750.0	6,715.6	7,000.0	6,998.8	14.9	1.9	5.57	-6,970.4	-668.4	7,211.5	7,194.5	17.00	424.123	
6,791.3	6,752.5	7,000.0	6,998.8	14.9	1.9	5.74	-6,970.4	-668.4	7,191.6	7,174.5	17.09	420.863	
6,800.0	6,760.1	7,000.0	6,998.8	14.9	1.9	5.79	-6,970.4	-668.4	7,187.2	7,170.1	17.10	420.259	
6,850.0	6,802.9	7,000.0	6,998.8	14.9	1.9	6.05	-6,970.4	-668.4	7,160.1	7,143.0	17.16	417.347	
6,889.7	6,835.6	7,000.0	6,998.8	14.9	1.9	6.30	-6,970.4	-668.4	7,136.7	7,119.6	17.17	415.688	
6,900.0	6,843.8	7,000.0	6,998.8	14.9	1.9	6.37	-6,970.4	-668.4	7,130.4	7,113.3	17.17	415.349	
6,950.0	6,882.6	7,000.0	6,998.8	14.9	1.9	6.76	-6,970.4	-668.4	7,098.2	7,081.1	17.14	414.182	
6,988.2	6,910.7	7,000.0	6,998.8	15.0	1.9	7.10	-6,970.4	-668.4	7,072.1	7,055.0	17.09	413.768	
7,000.0	6,919.1	7,000.0	6,998.8	15.0	1.9	7.22	-6,970.4	-668.4	7,063.7	7,046.6	17.07	413.719	
7,050.0	6,953.1	7,000.0	6,998.8	15.0	1.9	7.79	-6,970.4	-668.4	7,026.8	7,009.9	16.98	413.784	
7,086.6	6,976.4	7,000.0	6,998.8	15.1	1.9	8.29	-6,970.4	-668.4	6,998.6	6,981.6	16.90	414.017	
7,100.0	6,984.5	7,000.0	6,998.8	15.1	1.9	8.50	-6,970.4	-668.4	6,987.9	6,971.0	16.87	414.137	
7,150.0	7,013.1	7,000.0	6,998.8	15.3	1.9	9.38	-6,970.4	-668.4	6,947.0	6,930.3	16.76	414.451	
7,185.0	7,031.4	7,000.0	6,998.8	15.4	1.9	10.14	-6,970.4	-668.4	6,917.3	6,900.6	16.69	414.394	
7,200.0	7,038.8	7,000.0	6,998.8	15.4	1.9	10.51	-6,970.4	-668.4	6,904.4	6,887.7	16.67	414.285	
7,250.0	7,061.4	7,000.0	6,998.8	15.6	1.9	12.00	-6,970.4	-668.4	6,860.1	6,843.5	16.61	413.036	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,283.4	7,074.8	7,000.0	6,998.8	15.8	1.9	13.27	-6,970.4	-668.4	6,829.7	6,813.1	16.61	411.149	
7,300.0	7,080.9	7,000.0	6,998.8	15.9	1.9	14.02	-6,970.4	-668.4	6,814.4	6,797.8	16.63	409.865	
7,350.0	7,097.1	7,000.0	6,998.8	16.2	1.9	16.91	-6,970.4	-668.4	6,767.5	6,750.8	16.77	403.560	
7,381.9	7,105.7	7,000.0	6,998.8	16.4	1.9	19.48	-6,970.4	-668.4	6,737.1	6,720.1	16.97	397.042	
7,400.0	7,109.9	7,000.0	6,998.8	16.6	1.9	21.31	-6,970.4	-668.4	6,719.6	6,702.5	17.13	392.269	
7,450.0	7,119.4	7,000.0	6,998.8	17.0	1.9	28.65	-6,970.4	-668.4	6,670.9	6,653.0	17.87	373.248	
7,480.3	7,123.4	7,000.0	6,998.8	17.2	1.9	35.85	-6,970.4	-668.4	6,641.1	6,622.5	18.61	356.873	
7,500.0	7,125.4	7,000.0	6,998.8	17.4	1.9	42.44	-6,970.4	-668.4	6,621.6	6,602.4	19.20	344.869	
7,550.0	7,127.9	7,000.0	6,998.8	17.9	1.9	70.32	-6,970.4	-668.4	6,572.0	6,551.8	20.18	325.588	
7,562.9	7,128.0	7,000.0	6,998.8	18.0	1.9	80.42	-6,970.4	-668.4	6,559.2	6,539.2	19.95	328.795	
7,578.7	7,128.0	7,000.0	6,998.8	18.2	1.9	80.42	-6,970.4	-668.4	6,543.4	6,523.3	20.11	325.381	
7,600.0	7,127.9	7,000.0	6,998.8	18.4	1.9	80.42	-6,970.4	-668.4	6,522.2	6,501.9	20.33	320.886	
7,677.1	7,127.7	7,000.0	6,998.8	19.2	1.9	80.42	-6,970.4	-668.4	6,445.4	6,424.2	21.18	304.336	
7,700.0	7,127.7	7,000.0	6,998.8	19.5	1.9	80.42	-6,970.4	-668.4	6,422.7	6,401.2	21.43	299.687	
7,775.6	7,127.5	7,000.0	6,998.8	20.3	1.9	80.42	-6,970.4	-668.4	6,347.5	6,325.2	22.22	285.651	
7,800.0	7,127.5	7,000.0	6,998.8	20.5	1.9	80.42	-6,970.4	-668.4	6,323.2	6,300.7	22.48	281.326	
7,874.0	7,127.3	7,000.0	6,998.8	21.4	1.9	80.42	-6,970.4	-668.4	6,249.5	6,226.2	23.32	267.937	
7,900.0	7,127.2	7,000.0	6,998.8	21.7	1.9	80.42	-6,970.4	-668.4	6,223.7	6,200.0	23.62	263.461	
7,972.4	7,127.1	7,000.0	6,998.8	22.7	1.9	80.42	-6,970.4	-668.4	6,151.6	6,127.0	24.63	249.810	
8,000.0	7,127.0	7,000.0	6,998.8	23.1	1.9	80.42	-6,970.4	-668.4	6,124.2	6,099.2	25.01	244.899	
8,070.8	7,126.8	7,000.0	6,998.8	24.2	1.9	80.42	-6,970.4	-668.4	6,053.7	6,027.7	26.04	232.507	
8,100.0	7,126.8	7,000.0	6,998.8	24.6	1.9	80.42	-6,970.4	-668.4	6,024.7	5,998.3	26.46	227.688	
8,169.3	7,126.6	7,000.0	6,998.8	25.6	1.9	80.42	-6,970.4	-668.4	5,955.8	5,928.3	27.51	216.519	
8,200.0	7,126.6	7,000.0	6,998.8	26.1	1.9	80.42	-6,970.4	-668.4	5,925.3	5,897.3	27.97	211.833	
8,267.7	7,126.4	7,000.0	6,998.8	27.2	1.9	80.42	-6,970.4	-668.4	5,858.0	5,828.9	29.03	201.811	
8,300.0	7,126.3	7,000.0	6,998.8	27.7	1.9	80.42	-6,970.4	-668.4	5,825.9	5,796.3	29.53	197.283	
8,366.1	7,126.2	7,000.0	6,998.8	28.8	1.9	80.42	-6,970.4	-668.4	5,760.1	5,729.5	30.59	188.313	
8,400.0	7,126.1	7,000.0	6,998.8	29.3	1.9	80.42	-6,970.4	-668.4	5,726.5	5,695.3	31.13	183.954	
8,464.5	7,126.0	7,000.0	6,998.8	30.4	1.9	80.42	-6,970.4	-668.4	5,662.3	5,630.1	32.18	175.935	
8,500.0	7,125.9	7,000.0	6,998.8	31.0	1.9	80.42	-6,970.4	-668.4	5,627.1	5,594.3	32.76	171.750	
8,563.0	7,125.7	7,000.0	6,998.8	32.0	1.9	80.42	-6,970.4	-668.4	5,564.5	5,530.7	33.81	164.582	
8,600.0	7,125.6	7,000.0	6,998.8	32.6	1.9	80.42	-6,970.4	-668.4	5,527.7	5,493.3	34.43	160.572	
8,661.4	7,125.5	7,000.0	6,998.8	33.7	1.9	80.42	-6,970.4	-668.4	5,466.7	5,431.3	35.46	154.162	
8,700.0	7,125.4	7,000.0	6,998.8	34.4	1.9	80.42	-6,970.4	-668.4	5,428.4	5,392.3	36.11	150.321	
8,759.8	7,125.3	7,000.0	6,998.8	35.4	1.9	80.42	-6,970.4	-668.4	5,369.0	5,331.8	37.13	144.585	
8,800.0	7,125.2	7,000.0	6,998.8	36.1	1.9	80.42	-6,970.4	-668.4	5,329.1	5,291.3	37.82	140.907	
8,858.2	7,125.1	7,000.0	6,998.8	37.1	1.9	80.42	-6,970.4	-668.4	5,271.2	5,232.4	38.83	135.769	
8,900.0	7,125.0	7,000.0	6,998.8	37.8	1.9	80.42	-6,970.4	-668.4	5,229.8	5,190.2	39.55	132.247	
8,956.7	7,124.8	7,000.0	6,998.8	38.8	1.9	80.42	-6,970.4	-668.4	5,173.5	5,133.0	40.53	127.638	
9,000.0	7,124.7	7,000.0	6,998.8	39.6	1.9	80.42	-6,970.4	-668.4	5,130.5	5,089.2	41.29	124.264	
9,055.1	7,124.6	7,000.0	6,998.8	40.6	1.9	80.42	-6,970.4	-668.4	5,075.9	5,033.6	42.25	120.125	
9,100.0	7,124.5	7,000.0	6,998.8	41.4	1.9	80.42	-6,970.4	-668.4	5,031.3	4,988.3	43.04	116.890	
9,153.5	7,124.4	7,000.0	6,998.8	42.3	1.9	80.42	-6,970.4	-668.4	4,978.2	4,934.2	43.99	113.169	
9,200.0	7,124.3	7,000.0	6,998.8	43.2	1.9	80.42	-6,970.4	-668.4	4,932.1	4,887.3	44.81	110.065	
9,251.9	7,124.2	7,000.0	6,998.8	44.1	1.9	80.42	-6,970.4	-668.4	4,880.6	4,834.9	45.73	106.716	
9,300.0	7,124.1	7,000.0	6,998.8	45.0	1.9	80.42	-6,970.4	-668.4	4,832.9	4,786.4	46.59	103.736	
9,350.4	7,123.9	7,000.0	6,998.8	45.9	1.9	80.42	-6,970.4	-668.4	4,783.0	4,735.5	47.49	100.717	
9,400.0	7,123.8	7,000.0	6,998.8	46.8	1.9	80.42	-6,970.4	-668.4	4,733.8	4,685.4	48.38	97.853	
9,448.8	7,123.7	7,000.0	6,998.8	47.7	1.9	80.42	-6,970.4	-668.4	4,685.5	4,636.2	49.25	95.130	
9,500.0	7,123.6	7,000.0	6,998.8	48.6	1.9	80.42	-6,970.4	-668.4	4,634.7	4,584.6	50.17	92.376	
9,547.2	7,123.5	7,000.0	6,998.8	49.4	1.9	80.42	-6,970.4	-668.4	4,587.9	4,536.9	51.02	89.917	
9,600.0	7,123.4	7,000.0	6,998.8	50.4	1.9	80.42	-6,970.4	-668.4	4,535.7	4,483.7	51.98	87.265	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,645.6	7,123.3	7,000.0	6,998.8	51.2	1.9	80.42	-6,970.4	-668.4	4,490.5	4,437.7	52.80	85.043	
9,700.0	7,123.2	7,000.0	6,998.8	52.2	1.9	80.42	-6,970.4	-668.4	4,436.7	4,382.9	53.79	82.487	
9,744.1	7,123.1	7,000.0	6,998.8	53.1	1.9	80.42	-6,970.4	-668.4	4,393.0	4,338.5	54.59	80.478	
9,800.0	7,122.9	7,000.0	6,998.8	54.1	1.9	80.42	-6,970.4	-668.4	4,337.7	4,282.1	55.60	78.013	
9,842.5	7,122.8	7,000.0	6,998.8	54.9	1.9	80.42	-6,970.4	-668.4	4,295.7	4,239.3	56.38	76.196	
9,900.0	7,122.7	7,000.0	6,998.8	55.9	1.9	80.42	-6,970.4	-668.4	4,238.8	4,181.4	57.42	73.816	
9,940.9	7,122.6	7,000.0	6,998.8	56.7	1.9	80.42	-6,970.4	-668.4	4,198.3	4,140.2	58.17	72.171	
10,000.0	7,122.5	7,000.0	6,998.8	57.8	1.9	80.42	-6,970.4	-668.4	4,139.9	4,080.7	59.25	69.872	
10,039.3	7,122.4	7,000.0	6,998.8	58.5	1.9	80.42	-6,970.4	-668.4	4,101.0	4,041.1	59.97	68.384	
10,100.0	7,122.3	7,000.0	6,998.8	59.6	1.9	80.42	-6,970.4	-668.4	4,041.1	3,980.0	61.08	66.160	
10,137.8	7,122.2	7,000.0	6,998.8	60.3	1.9	80.42	-6,970.4	-668.4	4,003.8	3,942.0	61.77	64.813	
10,200.0	7,122.0	7,000.0	6,998.8	61.5	1.9	80.42	-6,970.4	-668.4	3,942.4	3,879.5	62.92	62.661	
10,236.2	7,121.9	7,000.0	6,998.8	62.2	1.9	80.42	-6,970.4	-668.4	3,906.6	3,843.1	63.58	61.443	
10,300.0	7,121.8	7,000.0	6,998.8	63.3	1.9	80.42	-6,970.4	-668.4	3,843.7	3,778.9	64.75	59.358	
10,334.6	7,121.7	7,000.0	6,998.8	64.0	1.9	80.42	-6,970.4	-668.4	3,809.5	3,744.1	65.39	58.256	
10,400.0	7,121.6	7,000.0	6,998.8	65.2	1.9	80.42	-6,970.4	-668.4	3,745.1	3,678.5	66.60	56.235	
10,433.0	7,121.5	7,000.0	6,998.8	65.8	1.9	80.42	-6,970.4	-668.4	3,712.5	3,645.3	67.21	55.240	
10,500.0	7,121.4	7,000.0	6,998.8	67.1	1.9	80.42	-6,970.4	-668.4	3,646.5	3,578.1	68.44	53.280	
10,531.5	7,121.3	7,000.0	6,998.8	67.7	1.9	80.42	-6,970.4	-668.4	3,615.6	3,546.5	69.02	52.381	
10,600.0	7,121.1	7,000.0	6,998.8	69.0	1.9	80.42	-6,970.4	-668.4	3,548.1	3,477.8	70.29	50.478	
10,629.9	7,121.1	7,000.0	6,998.8	69.5	1.9	80.42	-6,970.4	-668.4	3,518.7	3,447.8	70.84	49.669	
10,700.0	7,120.9	7,000.0	6,998.8	70.8	1.9	80.42	-6,970.4	-668.4	3,449.7	3,377.6	72.14	47.820	
10,728.3	7,120.8	7,000.0	6,998.8	71.4	1.9	80.42	-6,970.4	-668.4	3,421.9	3,349.2	72.67	47.091	
10,800.0	7,120.7	7,000.0	6,998.8	72.7	1.9	80.42	-6,970.4	-668.4	3,351.5	3,277.5	73.99	45.294	
10,826.7	7,120.6	7,000.0	6,998.8	73.2	1.9	80.42	-6,970.4	-668.4	3,325.2	3,250.7	74.49	44.640	
10,900.0	7,120.5	7,000.0	6,998.8	74.6	1.9	80.42	-6,970.4	-668.4	3,253.3	3,177.5	75.85	42.892	
10,925.2	7,120.4	7,000.0	6,998.8	75.1	1.9	80.42	-6,970.4	-668.4	3,228.6	3,152.3	76.32	42.306	
11,000.0	7,120.2	7,000.0	6,998.8	76.5	1.9	80.42	-6,970.4	-668.4	3,155.3	3,077.6	77.71	40.605	
11,023.6	7,120.2	7,000.0	6,998.8	76.9	1.9	80.42	-6,970.4	-668.4	3,132.1	3,054.0	78.14	40.082	
11,100.0	7,120.0	7,000.0	6,998.8	78.3	1.9	80.42	-6,970.4	-668.4	3,057.3	2,977.8	79.56	38.426	
11,122.0	7,120.0	7,000.0	6,998.8	78.8	1.9	80.42	-6,970.4	-668.4	3,035.8	2,955.8	79.97	37.960	
11,200.0	7,119.8	7,000.0	6,998.8	80.2	1.9	80.42	-6,970.4	-668.4	2,959.6	2,878.1	81.43	36.347	
11,220.4	7,119.7	7,000.0	6,998.8	80.6	1.9	80.42	-6,970.4	-668.4	2,939.6	2,857.8	81.81	35.933	
11,300.0	7,119.5	7,000.0	6,998.8	82.1	1.9	80.42	-6,970.4	-668.4	2,861.9	2,778.6	83.29	34.362	
11,318.9	7,119.5	7,000.0	6,998.8	82.5	1.9	80.42	-6,970.4	-668.4	2,843.5	2,759.9	83.64	33.997	
11,400.0	7,119.3	7,000.0	6,998.8	84.0	1.9	80.42	-6,970.4	-668.4	2,764.5	2,679.3	85.15	32.465	
11,417.3	7,119.3	7,000.0	6,998.8	84.3	1.9	80.42	-6,970.4	-668.4	2,747.6	2,662.2	85.47	32.146	
11,500.0	7,119.1	7,000.0	6,998.8	85.9	1.9	80.42	-6,970.4	-668.4	2,667.2	2,580.2	87.02	30.651	
11,515.7	7,119.1	7,000.0	6,998.8	86.2	1.9	80.42	-6,970.4	-668.4	2,651.9	2,564.6	87.31	30.373	
11,600.0	7,118.9	7,000.0	6,998.8	87.8	1.9	80.42	-6,970.4	-668.4	2,570.1	2,481.3	88.88	28.916	
11,614.1	7,118.8	7,000.0	6,998.8	88.0	1.9	80.42	-6,970.4	-668.4	2,556.4	2,467.3	89.15	28.676	
11,700.0	7,118.6	7,000.0	6,998.8	89.7	1.9	80.42	-6,970.4	-668.4	2,473.3	2,382.6	90.75	27.253	
11,712.6	7,118.6	7,000.0	6,998.8	89.9	1.9	80.42	-6,970.4	-668.4	2,461.2	2,370.2	90.99	27.049	
11,800.0	7,118.4	7,000.0	6,998.8	91.6	1.9	80.42	-6,970.4	-668.4	2,376.8	2,284.1	92.62	25.661	
11,811.0	7,118.4	7,000.0	6,998.8	91.8	1.9	80.42	-6,970.4	-668.4	2,366.2	2,273.3	92.83	25.490	
11,900.0	7,118.2	7,000.0	6,998.8	93.4	1.9	80.41	-6,970.4	-668.4	2,280.5	2,186.0	94.49	24.134	
11,909.4	7,118.2	7,000.0	6,998.8	93.6	1.9	80.41	-6,970.4	-668.4	2,271.4	2,176.8	94.67	23.994	
12,000.0	7,118.0	7,000.0	6,998.8	95.3	1.9	80.41	-6,970.4	-668.4	2,184.6	2,088.2	96.36	22.670	
12,007.8	7,118.0	7,000.0	6,998.8	95.5	1.9	80.41	-6,970.4	-668.4	2,177.0	2,080.5	96.51	22.558	
12,100.0	7,117.8	7,000.0	6,998.8	97.2	1.9	80.41	-6,970.4	-668.4	2,089.0	1,990.8	98.24	21.265	
12,106.3	7,117.7	7,000.0	6,998.8	97.4	1.9	80.41	-6,970.4	-668.4	2,083.0	1,984.7	98.35	21.179	
12,200.0	7,117.5	7,000.0	6,998.8	99.1	1.9	80.41	-6,970.4	-668.4	1,993.9	1,893.8	100.11	19.917	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,204.7	7,117.5	7,000.0	6,998.8	99.2	1.9	80.41	-6,970.4	-668.4	1,989.4	1,889.2	100.20	19.855	
12,300.0	7,117.3	7,000.0	6,998.8	101.0	1.9	80.41	-6,970.4	-668.4	1,899.3	1,797.3	101.98	18.623	
12,303.1	7,117.3	7,000.0	6,998.8	101.1	1.9	80.41	-6,970.4	-668.4	1,896.3	1,794.3	102.04	18.584	
12,400.0	7,117.1	7,000.0	6,998.8	102.9	1.9	80.41	-6,970.4	-668.4	1,805.3	1,701.4	103.86	17.382	
12,401.5	7,117.1	7,000.0	6,998.8	103.0	1.9	80.41	-6,970.4	-668.4	1,803.8	1,699.9	103.89	17.363	
12,500.0	7,116.9	7,000.0	6,998.8	104.8	1.9	80.41	-6,970.4	-668.4	1,711.9	1,606.2	105.73	16.191	
12,598.4	7,116.6	7,000.0	6,998.8	106.7	1.9	80.41	-6,970.4	-668.4	1,620.8	1,513.2	107.58	15.066	
12,600.0	7,116.6	7,000.0	6,998.8	106.7	1.9	80.41	-6,970.4	-668.4	1,619.4	1,511.7	107.61	15.048	
12,696.8	7,116.4	7,000.0	6,998.8	108.6	1.9	80.41	-6,970.4	-668.4	1,530.6	1,421.2	109.43	13.987	
12,700.0	7,116.4	7,000.0	6,998.8	108.6	1.9	80.41	-6,970.4	-668.4	1,527.7	1,418.2	109.49	13.953	
12,795.2	7,116.2	7,000.0	6,998.8	110.4	1.9	80.41	-6,970.4	-668.4	1,441.5	1,330.2	111.28	12.954	
12,800.0	7,116.2	7,000.0	6,998.8	110.5	1.9	80.41	-6,970.4	-668.4	1,437.2	1,325.9	111.37	12.905	
12,893.7	7,116.0	7,000.0	6,998.8	112.3	1.9	80.41	-6,970.4	-668.4	1,353.7	1,240.5	113.13	11.966	
12,900.0	7,116.0	7,000.0	6,998.8	112.4	1.9	80.41	-6,970.4	-668.4	1,348.1	1,234.8	113.25	11.904	
12,992.1	7,115.7	7,000.0	6,998.8	114.2	1.9	80.41	-6,970.4	-668.4	1,267.4	1,152.4	114.98	11.023	
13,000.0	7,115.7	7,000.0	6,998.8	114.3	1.9	80.41	-6,970.4	-668.4	1,260.5	1,145.4	115.12	10.949	
13,090.5	7,115.5	7,000.0	6,998.8	116.1	1.9	80.41	-6,970.4	-668.4	1,183.0	1,066.2	116.83	10.126	
13,100.0	7,115.5	7,000.0	6,998.8	116.2	1.9	80.41	-6,970.4	-668.4	1,175.0	1,058.0	117.00	10.042	
13,188.9	7,115.3	7,000.0	6,998.8	117.9	1.9	80.41	-6,970.4	-668.4	1,101.0	982.3	118.68	9.277	
13,200.0	7,115.3	7,000.0	6,998.8	118.1	1.9	80.41	-6,970.4	-668.4	1,091.9	973.0	118.88	9.185	
13,287.4	7,115.1	7,000.0	6,998.8	119.8	1.9	80.41	-6,970.4	-668.4	1,021.8	901.3	120.53	8.478	
13,300.0	7,115.1	7,000.0	6,998.8	120.0	1.9	80.41	-6,970.4	-668.4	1,011.9	891.2	120.77	8.379	
13,385.8	7,114.9	7,000.0	6,998.8	121.7	1.9	80.41	-6,970.4	-668.4	946.3	823.9	122.38	7.733	
13,400.0	7,114.8	7,000.0	6,998.8	121.9	1.9	80.41	-6,970.4	-668.4	935.8	813.1	122.65	7.630	
13,484.2	7,114.6	7,000.0	6,998.8	123.6	1.9	80.41	-6,970.4	-668.4	875.3	751.1	124.23	7.046	
13,500.0	7,114.6	7,000.0	6,998.8	123.9	1.9	80.41	-6,970.4	-668.4	864.5	739.9	124.53	6.942	
13,582.6	7,114.4	7,000.0	6,998.8	125.4	1.9	80.41	-6,970.4	-668.4	810.2	684.1	126.08	6.425	
13,600.0	7,114.4	7,000.0	6,998.8	125.8	1.9	80.41	-6,970.4	-668.4	799.4	673.0	126.41	6.324	
13,681.1	7,114.2	7,000.0	6,998.8	127.3	1.9	80.41	-6,970.4	-668.4	752.2	624.3	127.94	5.880	
13,700.0	7,114.2	7,000.0	6,998.8	127.7	1.9	80.41	-6,970.4	-668.4	742.1	613.8	128.29	5.784	
13,779.5	7,114.0	7,000.0	6,998.8	129.2	1.9	80.41	-6,970.4	-668.4	703.3	573.6	129.79	5.419	
13,800.0	7,113.9	7,000.0	6,998.8	129.6	1.9	80.41	-6,970.4	-668.4	694.5	564.3	130.18	5.335	
13,877.9	7,113.8	7,000.0	6,998.8	131.1	1.9	80.41	-6,970.4	-668.4	665.5	533.9	131.64	5.056	
13,900.0	7,113.7	7,000.0	6,998.8	131.5	1.9	80.41	-6,970.4	-668.4	658.8	526.7	132.06	4.988	
13,976.3	7,113.5	7,000.0	6,998.8	132.9	1.9	80.41	-6,970.4	-668.4	640.7	507.2	133.50	4.800	
14,000.0	7,113.5	7,000.0	6,998.8	133.4	1.9	80.41	-6,970.4	-668.4	636.9	503.0	133.94	4.755	
14,074.8	7,113.3	7,000.0	6,998.8	134.8	1.9	80.41	-6,970.4	-668.4	630.5	495.2	135.35	4.658	
14,091.7	7,113.3	7,000.0	6,998.8	135.1	1.9	80.41	-6,970.4	-668.4	630.3	494.6	135.67	4.646 CC	
14,100.0	7,113.3	7,000.0	6,998.8	135.3	1.9	80.41	-6,970.4	-668.4	630.3	494.5	135.83	4.641 ES	
14,173.2	7,113.1	7,000.0	6,998.8	136.7	1.9	80.41	-6,970.4	-668.4	635.5	498.3	137.21	4.632 SF	
14,200.0	7,113.0	7,000.0	6,998.8	137.2	1.9	80.41	-6,970.4	-668.4	639.5	501.8	137.71	4.644	
14,219.1	7,113.0	7,000.0	6,998.8	137.6	1.9	80.41	-6,970.4	-668.4	643.0	505.0	138.07	4.657	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	172.09	-5,118.5	711.2	5,167.7				
98.4	98.4	105.2	105.2	0.1	0.1	172.09	-5,118.3	711.2	5,167.5	5,167.3	0.19	N/A	
100.0	100.0	107.2	107.2	0.1	0.1	172.09	-5,118.3	711.2	5,167.5	5,167.3	0.20	N/A	
196.8	196.8	230.0	230.0	0.3	0.2	172.09	-5,117.4	711.3	5,166.8	5,166.3	0.53	9,701.281	
200.0	200.0	234.0	234.0	0.3	0.2	172.09	-5,117.3	711.3	5,166.8	5,166.2	0.54	9,507.341	
295.3	295.3	1,027.9	1,024.4	0.5	2.2	172.18	-5,060.4	694.6	5,161.9	5,159.4	2.51	2,056.660	
300.0	300.0	1,031.3	1,027.9	0.5	2.2	172.19	-5,060.0	694.3	5,161.2	5,158.7	2.53	2,040.665	
393.7	393.7	1,116.0	1,111.2	0.8	2.5	172.28	-5,049.4	684.1	5,148.0	5,145.0	2.95	1,743.931	
400.0	400.0	1,116.0	1,111.2	0.8	2.5	172.28	-5,049.4	684.1	5,147.1	5,144.1	2.97	1,735.305	
492.1	492.1	1,152.8	1,147.4	1.0	2.6	172.34	-5,045.1	678.9	5,134.6	5,131.3	3.28	1,567.166	
500.0	500.0	1,156.6	1,151.1	1.0	2.6	172.34	-5,044.7	678.4	5,133.6	5,130.3	3.30	1,553.440	
590.5	590.5	1,200.0	1,193.8	1.2	2.7	172.41	-5,040.2	671.7	5,122.2	5,118.6	3.63	1,411.159	
600.0	600.0	1,204.5	1,198.2	1.2	2.8	172.42	-5,039.7	671.0	5,121.1	5,117.4	3.66	1,397.785	
689.0	689.0	1,244.0	1,237.0	1.4	2.9	172.48	-5,036.0	664.4	5,110.8	5,106.9	3.97	1,285.938	
700.0	700.0	1,244.0	1,237.0	1.4	2.9	172.48	-5,036.0	664.4	5,109.6	5,105.6	4.00	1,277.669	
787.4	787.4	1,290.4	1,282.5	1.6	3.1	172.57	-5,032.2	656.2	5,100.4	5,096.1	4.34	1,174.601	
800.0	800.0	1,295.9	1,287.9	1.7	3.1	172.58	-5,031.8	655.2	5,099.2	5,094.8	4.39	1,162.013	
885.8	885.8	1,333.9	1,325.2	1.9	3.2	172.65	-5,029.1	648.3	5,091.1	5,086.4	4.70	1,082.904	
900.0	900.0	1,373.0	1,363.5	1.9	3.3	172.73	-5,026.8	641.1	5,090.1	5,085.2	4.86	1,047.979	
984.2	984.2	1,373.0	1,363.5	2.1	3.3	172.73	-5,026.8	641.1	5,082.9	5,077.8	5.05	1,007.220	
1,000.0	1,000.0	1,373.0	1,363.5	2.1	3.3	172.73	-5,026.8	641.1	5,081.7	5,076.6	5.08	999.968	
1,082.7	1,082.7	1,426.3	1,415.7	2.3	3.5	172.84	-5,024.2	630.9	5,075.6	5,070.2	5.46	930.028	
1,100.0	1,100.0	1,434.8	1,424.0	2.3	3.6	172.86	-5,023.8	629.2	5,074.4	5,068.9	5.53	918.162	
1,181.1	1,181.1	1,501.0	1,488.9	2.5	3.8	173.01	-5,021.5	615.9	5,069.5	5,063.5	5.95	852.632	
1,200.0	1,200.0	1,501.0	1,488.9	2.6	3.8	173.01	-5,021.5	615.9	5,068.3	5,062.3	5.99	846.388	
1,279.5	1,279.5	1,501.0	1,488.9	2.7	3.8	173.01	-5,021.5	615.9	5,064.2	5,058.0	6.17	821.182	
1,300.0	1,300.0	1,501.0	1,488.9	2.8	3.8	173.01	-5,021.5	615.9	5,063.3	5,057.1	6.21	814.960	
1,377.9	1,377.9	1,568.8	1,555.2	3.0	4.0	177.45	-5,020.2	601.8	5,060.9	5,054.3	6.59	767.487	
1,400.0	1,400.0	1,579.2	1,565.4	3.0	4.1	177.48	-5,020.1	599.6	5,060.7	5,054.1	6.68	757.144	
1,401.9	1,401.9	1,580.1	1,566.3	3.0	4.1	177.48	-5,020.1	599.4	5,060.7	5,054.0	6.69	756.245	
1,476.4	1,476.3	1,629.0	1,614.0	3.2	4.3	177.59	-5,019.9	589.0	5,062.0	5,055.0	7.05	718.359	
1,500.0	1,499.8	1,629.0	1,614.0	3.2	4.3	177.59	-5,019.9	589.0	5,062.9	5,055.8	7.10	713.247	
1,574.8	1,574.4	1,629.0	1,614.0	3.4	4.3	177.59	-5,019.9	589.0	5,067.8	5,060.5	7.26	697.911	
1,600.0	1,599.5	1,668.9	1,653.1	3.5	4.4	177.68	-5,020.1	580.7	5,069.7	5,062.2	7.47	679.100	
1,673.2	1,672.2	1,699.6	1,683.2	3.6	4.5	177.75	-5,020.5	574.4	5,077.6	5,069.9	7.74	656.383	
1,700.0	1,698.7	1,710.9	1,694.1	3.7	4.5	177.77	-5,020.7	572.2	5,081.1	5,073.3	7.83	648.669	
1,771.6	1,769.5	1,758.0	1,740.4	3.9	4.7	177.87	-5,022.0	563.0	5,092.1	5,084.0	8.16	624.210	
1,800.0	1,797.5	1,758.0	1,740.4	4.0	4.7	177.87	-5,022.0	563.0	5,097.1	5,088.9	8.21	620.480	
1,870.1	1,866.3	1,870.5	1,850.6	4.2	5.1	178.12	-5,025.0	540.9	5,110.5	5,101.7	8.77	582.680	
1,900.1	1,895.8	1,886.0	1,865.8	4.3	5.1	178.16	-5,025.3	537.7	5,116.6	5,107.7	8.89	575.804	
1,968.5	1,962.6	1,947.1	1,925.7	4.5	5.4	178.30	-5,026.7	525.4	5,130.9	5,121.7	9.27	553.234	
2,000.0	1,993.4	1,968.4	1,946.5	4.6	5.4	178.35	-5,027.2	521.2	5,137.6	5,128.2	9.43	544.961	
2,066.9	2,058.9	2,015.0	1,992.2	4.8	5.6	178.46	-5,028.5	512.2	5,152.1	5,142.3	9.76	527.660	
2,100.0	2,091.3	2,040.0	2,016.8	4.9	5.7	178.52	-5,029.3	507.5	5,159.3	5,149.4	9.93	519.614	
2,165.3	2,155.2	2,092.7	2,068.5	5.1	5.9	178.63	-5,030.9	497.7	5,173.7	5,163.4	10.27	503.647	
2,200.0	2,189.1	2,120.7	2,096.0	5.3	5.9	178.69	-5,031.8	492.5	5,181.4	5,170.9	10.46	495.442	
2,263.8	2,251.4	2,271.0	2,243.6	5.5	6.5	179.02	-5,035.7	464.4	5,195.3	5,184.2	11.16	465.472	
2,300.0	2,286.9	2,304.7	2,276.6	5.6	6.6	179.09	-5,036.3	457.8	5,202.8	5,191.4	11.38	457.239	
2,362.2	2,347.7	2,361.9	2,332.8	5.9	6.8	179.22	-5,037.2	446.7	5,215.7	5,204.0	11.75	443.876	
2,400.0	2,384.7	2,396.8	2,366.9	6.0	6.9	179.30	-5,037.8	440.0	5,223.6	5,211.6	11.98	436.149	
2,460.6	2,444.0	2,439.3	2,408.7	6.3	7.1	179.39	-5,038.6	431.7	5,236.3	5,224.0	12.30	425.881	
2,500.0	2,482.5	2,466.4	2,435.3	6.4	7.2	179.45	-5,039.2	426.5	5,244.7	5,232.2	12.50	419.560	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	
2,559.0	2,540.3	2,507.0	2,475.1	6.6	7.4	179.54	-5,040.2	418.6	5,257.4	5,244.6	12.81	410.457	
2,600.0	2,580.3	2,542.3	2,509.7	6.8	7.5	179.62	-5,041.1	411.8	5,266.3	5,253.3	13.05	403.536	
2,617.6	2,597.5	2,566.6	2,533.5	6.9	7.6	179.67	-5,041.7	407.0	5,270.2	5,257.0	13.19	399.553	
2,657.5	2,636.6	2,621.8	2,587.7	7.0	7.8	179.79	-5,043.0	396.3	5,278.5	5,265.0	13.52	390.427	
2,700.0	2,678.4	2,671.9	2,636.8	7.2	8.0	179.90	-5,044.0	386.5	5,286.7	5,272.8	13.84	382.010	
2,755.9	2,733.5	2,720.4	2,684.2	7.3	8.2	-179.99	-5,045.0	376.6	5,296.5	5,282.3	14.18	373.581	
2,800.0	2,777.0	2,758.6	2,721.5	7.4	8.4	-179.90	-5,045.9	368.5	5,303.5	5,289.1	14.44	367.231	
2,854.3	2,830.9	2,825.1	2,786.3	7.6	8.7	-179.73	-5,047.4	353.6	5,311.3	5,296.4	14.86	357.306	
2,900.0	2,876.2	2,902.1	2,861.1	7.7	9.0	-179.54	-5,048.9	335.3	5,316.8	5,301.5	15.33	346.870	
2,952.7	2,928.7	2,913.0	2,871.7	7.8	9.1	-179.51	-5,049.0	332.7	5,322.4	5,306.9	15.49	343.578	
3,000.0	2,975.8	2,955.6	2,912.9	7.9	9.3	-179.40	-5,049.9	322.2	5,326.6	5,310.8	15.80	337.148	
3,051.2	3,026.8	2,978.8	2,935.5	8.0	9.4	-179.34	-5,050.5	316.4	5,330.6	5,314.6	16.01	332.899	
3,100.0	3,075.6	3,001.1	2,957.0	8.1	9.5	-179.28	-5,051.2	310.9	5,333.8	5,317.6	16.21	329.000	
3,149.6	3,125.2	3,042.0	2,996.6	8.2	9.7	-179.17	-5,052.8	300.6	5,336.6	5,320.1	16.50	323.417	
3,200.0	3,175.6	3,103.6	3,056.2	8.3	10.0	-179.00	-5,055.2	285.3	5,338.6	5,321.7	16.88	316.332	
3,217.7	3,193.3	3,170.0	3,120.6	8.3	10.3	176.89	-5,057.0	269.3	5,338.9	5,321.6	17.22	310.075	
3,248.0	3,223.6	3,195.4	3,145.3	8.4	10.4	176.95	-5,057.6	263.3	5,339.2	5,321.8	17.39	306.963	
3,300.0	3,275.6	3,230.7	3,179.6	8.5	10.6	177.04	-5,058.5	255.0	5,339.9	5,322.2	17.66	302.420	
3,346.4	3,322.0	3,262.4	3,210.4	8.6	10.7	177.12	-5,059.3	247.6	5,340.6	5,322.7	17.90	298.332	
3,400.0	3,375.6	3,299.0	3,246.0	8.7	10.9	177.21	-5,060.5	239.1	5,341.7	5,323.5	18.18	293.751	
3,444.9	3,420.4	3,299.0	3,246.0	8.7	10.9	177.21	-5,060.5	239.1	5,342.8	5,324.6	18.28	292.266	
3,500.0	3,475.6	3,355.1	3,300.5	8.8	11.1	177.35	-5,062.5	226.2	5,344.3	5,325.6	18.66	286.366	
3,543.3	3,518.9	3,379.4	3,324.2	8.9	11.2	177.41	-5,063.5	220.6	5,345.6	5,326.8	18.87	283.290	
3,600.0	3,575.6	3,427.0	3,370.5	9.0	11.4	177.53	-5,065.7	209.8	5,347.7	5,328.5	19.21	278.312	
3,641.7	3,617.3	3,457.7	3,400.3	9.1	11.6	177.61	-5,067.2	202.8	5,349.3	5,329.9	19.45	275.036	
3,700.0	3,675.6	3,575.9	3,515.2	9.2	12.1	177.90	-5,071.9	175.1	5,351.2	5,331.0	20.13	265.832	
3,740.1	3,715.7	3,635.3	3,572.9	9.3	12.4	178.05	-5,073.9	161.2	5,352.2	5,331.7	20.49	261.210	
3,800.0	3,775.6	3,714.9	3,650.3	9.4	12.8	178.25	-5,076.2	142.8	5,353.5	5,332.5	20.99	255.048	
3,838.6	3,814.1	3,758.9	3,693.0	9.5	13.0	178.36	-5,077.3	132.3	5,354.3	5,333.0	21.28	251.575	
3,900.0	3,875.6	3,812.0	3,744.5	9.6	13.2	178.50	-5,078.7	119.4	5,355.5	5,333.8	21.67	247.158	
3,937.0	3,912.6	3,812.0	3,744.5	9.7	13.2	178.50	-5,078.7	119.4	5,356.4	5,334.6	21.75	246.288	
4,000.0	3,975.6	3,862.6	3,793.5	9.8	13.5	178.64	-5,080.2	106.8	5,358.0	5,335.9	22.15	241.949	
4,035.4	4,011.0	3,878.2	3,808.6	9.9	13.5	178.68	-5,080.8	102.8	5,359.2	5,336.9	22.30	240.296	
4,100.0	4,075.6	3,941.0	3,869.2	10.0	13.9	178.85	-5,083.7	86.9	5,361.9	5,339.1	22.76	235.533	
4,133.8	4,109.4	3,941.0	3,869.2	10.0	13.9	178.85	-5,083.7	86.9	5,363.2	5,340.4	22.84	234.831	
4,200.0	4,175.6	3,958.8	3,886.4	10.2	14.0	178.90	-5,084.7	82.3	5,366.4	5,343.3	23.07	232.603	
4,232.3	4,207.8	3,985.3	3,912.0	10.2	14.1	178.97	-5,086.1	75.6	5,368.0	5,344.8	23.27	230.659	
4,300.0	4,275.6	4,041.2	3,966.0	10.4	14.4	179.12	-5,089.3	61.9	5,371.6	5,347.9	23.70	226.687	
4,330.7	4,306.3	4,069.0	3,993.0	10.4	14.5	179.19	-5,090.9	55.3	5,373.3	5,349.4	23.90	224.817	
4,400.0	4,375.6	4,156.8	4,078.6	10.6	14.9	179.39	-5,095.7	36.5	5,377.1	5,352.7	24.42	220.230	
4,429.1	4,404.7	4,195.9	4,117.0	10.6	15.0	179.47	-5,097.8	29.4	5,378.6	5,354.0	24.64	218.278	
4,500.0	4,475.6	4,323.4	4,243.0	10.8	15.4	179.67	-5,103.7	10.2	5,381.8	5,356.6	25.22	213.422	
4,527.5	4,503.1	4,372.2	4,291.3	10.8	15.6	179.74	-5,105.6	4.1	5,382.9	5,357.5	25.42	211.769	
4,600.0	4,575.6	4,768.3	4,685.5	11.0	16.5	-179.88	-5,106.5	-31.4	5,381.7	5,355.1	26.53	202.856	
4,626.0	4,601.5	4,781.2	4,698.5	11.0	16.5	-179.88	-5,106.2	-31.6	5,381.1	5,354.5	26.61	202.255	
4,700.0	4,675.6	4,839.0	4,756.2	11.2	16.6	-179.88	-5,105.3	-31.9	5,379.9	5,353.0	26.85	200.347	
4,724.4	4,700.0	4,839.0	4,756.2	11.2	16.6	-179.88	-5,105.3	-31.9	5,379.5	5,352.6	26.91	199.934	
4,800.0	4,775.6	4,880.8	4,798.1	11.4	16.7	-179.88	-5,105.0	-31.5	5,378.8	5,351.7	27.12	198.355	
4,822.8	4,798.4	4,897.2	4,814.4	11.4	16.7	-179.88	-5,104.8	-31.3	5,378.6	5,351.5	27.18	197.856	
4,900.0	4,875.6	4,968.0	4,885.2	11.6	16.8	-179.89	-5,104.6	-30.6	5,378.4	5,351.0	27.43	196.077	
4,921.2	4,896.8	4,968.0	4,885.2	11.6	16.8	-179.89	-5,104.6	-30.6	5,378.3	5,350.8	27.48	195.742	
5,000.0	4,975.6	5,049.9	4,967.1	11.8	16.9	-179.90	-5,104.5	-29.8	5,378.2	5,350.5	27.74	193.866	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	
5,019.7	4,995.2	5,070.4	4,987.6	11.8	16.9	-179.90	-5,104.5	-29.7	5,378.2	5,350.4	27.81	193.402	
5,100.0	5,075.6	5,157.5	5,074.7	12.0	17.0	-179.91	-5,104.3	-28.9	5,378.1	5,350.0	28.08	191.516	
5,118.1	5,093.7	5,177.4	5,094.7	12.0	17.0	-179.91	-5,104.3	-28.6	5,378.0	5,349.9	28.14	191.094	
5,200.0	5,175.6	5,268.0	5,185.2	12.2	17.1	-179.93	-5,103.9	-27.1	5,377.7	5,349.3	28.42	189.195	
5,216.5	5,192.1	5,286.3	5,203.5	12.2	17.1	-179.93	-5,103.8	-26.9	5,377.6	5,349.1	28.48	188.813	
5,300.0	5,275.6	5,372.7	5,289.9	12.4	17.2	-179.94	-5,103.3	-26.1	5,377.1	5,348.4	28.77	186.929	
5,314.9	5,290.5	5,385.2	5,302.4	12.4	17.2	-179.94	-5,103.3	-26.1	5,377.1	5,348.2	28.82	186.606	
5,400.0	5,375.6	5,456.7	5,373.9	12.6	17.3	-179.94	-5,103.0	-26.0	5,376.7	5,347.6	29.10	184.795	
5,413.4	5,388.9	5,467.9	5,385.1	12.6	17.3	-179.94	-5,103.0	-26.0	5,376.7	5,347.6	29.14	184.514	
5,500.0	5,475.6	5,546.7	5,463.9	12.8	17.5	-179.94	-5,102.9	-26.3	5,376.6	5,347.1	29.44	182.632	
5,511.8	5,487.4	5,557.6	5,474.8	12.8	17.5	-179.94	-5,102.9	-26.3	5,376.6	5,347.1	29.48	182.376	
5,551.6	5,527.1	5,594.4	5,511.6	12.9	17.5	-179.94	-5,102.9	-26.5	5,376.6	5,346.9	29.62	181.518	
5,600.0	5,575.6	5,610.0	5,527.2	13.0	17.5	-179.94	-5,102.9	-26.6	5,376.7	5,346.9	29.75	180.734	
5,603.9	5,579.5	5,633.2	5,550.4	13.0	17.6	-179.93	-5,102.9	-26.7	5,376.6	5,346.8	29.79	180.469	
5,610.2	5,585.8	5,637.3	5,554.5	13.0	17.6	-179.93	-5,102.9	-26.7	5,376.6	5,346.8	29.81	180.348	
5,700.0	5,675.6	5,696.0	5,613.2	13.2	17.7	-179.93	-5,103.2	-27.3	5,377.2	5,347.1	30.10	178.652	
5,708.6	5,684.2	5,701.7	5,618.9	13.2	17.7	-179.93	-5,103.3	-27.3	5,377.2	5,347.1	30.13	178.491	
5,800.0	5,775.6	5,952.8	5,870.0	13.4	18.0	-179.92	-5,101.5	-27.9	5,376.3	5,345.6	30.68	175.241	
5,807.1	5,782.6	5,960.1	5,877.2	13.4	18.0	-179.92	-5,101.3	-27.9	5,376.2	5,345.5	30.70	175.092	
5,900.0	5,875.6	6,038.8	5,956.0	13.6	18.1	-179.93	-5,099.8	-27.5	5,374.3	5,343.3	31.01	173.292	
5,905.5	5,881.1	6,042.9	5,960.1	13.6	18.1	-179.93	-5,099.7	-27.5	5,374.2	5,343.2	31.03	173.191	
6,000.0	5,975.6	6,123.0	6,040.1	13.8	18.2	-179.94	-5,098.5	-26.6	5,372.8	5,341.5	31.34	171.420	
6,003.9	5,979.5	6,123.0	6,040.1	13.8	18.2	-179.94	-5,098.5	-26.6	5,372.7	5,341.4	31.35	171.370	
6,100.0	6,075.6	6,240.0	6,157.1	14.0	18.4	-179.95	-5,096.7	-25.1	5,371.3	5,339.6	31.71	169.374	
6,102.3	6,077.9	6,243.1	6,160.2	14.0	18.4	-179.95	-5,096.7	-25.1	5,371.3	5,339.5	31.72	169.323	
6,200.0	6,175.6	6,321.7	6,238.8	14.2	18.5	-179.96	-5,095.3	-24.3	5,369.6	5,337.6	32.04	167.591	
6,200.8	6,176.3	6,322.3	6,239.4	14.2	18.5	-179.96	-5,095.3	-24.3	5,369.6	5,337.6	32.04	167.578	
6,299.2	6,274.8	6,402.3	6,319.4	14.4	18.6	-179.97	-5,094.3	-23.2	5,368.4	5,336.0	32.36	165.876	
6,300.0	6,275.6	6,403.1	6,320.2	14.4	18.6	-179.97	-5,094.3	-23.2	5,368.4	5,336.0	32.37	165.862	
6,397.6	6,373.2	6,497.6	6,414.7	14.7	18.7	-179.99	-5,093.3	-21.8	5,367.3	5,334.6	32.70	164.127	
6,400.0	6,375.6	6,499.9	6,417.0	14.7	18.7	-179.99	-5,093.3	-21.8	5,367.3	5,334.6	32.71	164.086	
6,436.2	6,411.8	6,555.5	6,472.5	14.7	18.8	-180.00	-5,092.6	-20.9	5,366.8	5,334.0	32.86	163.327	
6,450.0	6,425.6	6,579.3	6,496.3	14.8	18.8	-0.21	-5,092.2	-20.4	5,366.5	5,333.6	32.90	163.112	
6,496.0	6,471.5	6,647.5	6,564.6	14.8	18.9	-0.23	-5,091.0	-19.0	5,363.3	5,330.3	32.93	162.844	
6,500.0	6,475.5	6,650.8	6,567.8	14.8	18.9	-0.23	-5,090.9	-19.0	5,362.8	5,329.9	32.93	162.858	
6,550.0	6,525.1	6,692.4	6,609.4	14.9	19.0	-0.24	-5,090.1	-18.2	5,355.7	5,322.9	32.79	163.348	
6,594.5	6,568.7	6,729.0	6,645.9	14.9	19.0	-0.25	-5,089.4	-17.6	5,346.5	5,314.0	32.55	164.271	
6,600.0	6,574.1	6,733.5	6,650.5	14.9	19.0	-0.25	-5,089.4	-17.5	5,345.2	5,312.7	32.51	164.417	
6,650.0	6,622.4	6,765.0	6,682.0	14.9	19.1	-0.26	-5,088.8	-17.0	5,331.4	5,299.3	32.09	166.139	
6,692.9	6,663.0	6,802.7	6,719.7	14.9	19.1	-0.27	-5,088.3	-16.5	5,317.0	5,285.3	31.64	168.029	
6,700.0	6,669.6	6,807.6	6,724.6	14.9	19.1	-0.28	-5,088.2	-16.4	5,314.4	5,282.8	31.56	168.395	
6,750.0	6,715.6	6,841.5	6,758.4	14.9	19.2	-0.29	-5,087.8	-15.8	5,294.2	5,263.3	30.90	171.353	
6,791.3	6,752.5	6,875.8	6,792.7	14.9	19.2	-0.31	-5,087.5	-15.2	5,275.2	5,244.9	30.27	174.265	
6,800.0	6,760.1	6,875.8	6,792.7	14.9	19.2	-0.31	-5,087.5	-15.2	5,271.0	5,240.9	30.12	174.989	
6,850.0	6,802.9	6,910.5	6,827.4	14.9	19.3	-0.34	-5,087.2	-14.4	5,244.8	5,215.6	29.24	179.351	
6,889.7	6,835.6	6,944.1	6,861.1	14.9	19.3	-0.36	-5,086.9	-13.8	5,221.9	5,193.5	28.49	183.309	
6,900.0	6,843.8	6,952.6	6,869.5	14.9	19.3	-0.37	-5,086.9	-13.6	5,215.8	5,187.5	28.28	184.412	
6,950.0	6,882.6	6,992.5	6,909.4	14.9	19.4	-0.40	-5,086.5	-12.8	5,183.9	5,156.7	27.24	190.299	
6,988.2	6,910.7	7,021.4	6,938.3	15.0	19.4	-0.43	-5,086.3	-12.3	5,157.8	5,131.4	26.40	195.377	
7,000.0	6,919.1	7,029.1	6,946.0	15.0	19.4	-0.44	-5,086.2	-12.2	5,149.5	5,123.3	26.13	197.065	
7,050.0	6,953.1	7,060.1	6,977.0	15.0	19.5	-0.49	-5,086.0	-11.6	5,112.6	5,087.6	24.97	204.766	
7,086.6	6,976.4	7,081.3	6,998.2	15.1	19.5	-0.53	-5,085.8	-11.3	5,084.1	5,060.0	24.10	210.979	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	6,984.5	7,088.7	7,005.6	15.1	19.5	-0.55	-5,085.8	-11.1	5,073.4	5,049.7	23.78	213.381	
7,150.0	7,013.1	7,114.8	7,031.7	15.3	19.5	-0.62	-5,085.6	-10.7	5,032.2	5,009.7	22.58	222.860	
7,185.0	7,031.4	7,131.5	7,048.3	15.4	19.5	-0.69	-5,085.5	-10.4	5,002.3	4,980.5	21.76	229.935	
7,200.0	7,038.8	7,138.2	7,055.1	15.4	19.6	-0.72	-5,085.4	-10.3	4,989.2	4,967.8	21.41	233.063	
7,250.0	7,061.4	7,163.5	7,080.4	15.6	19.6	-0.85	-5,085.3	-9.8	4,944.4	4,924.2	20.30	243.619	
7,283.4	7,074.8	7,183.0	7,099.9	15.8	19.6	-0.97	-5,085.1	-9.5	4,913.7	4,894.1	19.61	250.588	
7,300.0	7,080.9	7,191.8	7,108.7	15.9	19.6	-1.03	-5,085.0	-9.3	4,898.2	4,879.0	19.28	253.994	
7,350.0	7,097.1	7,215.1	7,132.0	16.2	19.7	-1.31	-5,084.8	-9.0	4,850.8	4,832.4	18.40	263.622	
7,381.9	7,105.7	7,227.2	7,144.1	16.4	19.7	-1.57	-5,084.7	-8.8	4,820.0	4,802.1	17.92	268.932	
7,400.0	7,109.9	7,233.2	7,150.1	16.6	19.7	-1.77	-5,084.6	-8.7	4,802.4	4,784.7	17.68	271.581	
7,450.0	7,119.4	7,246.2	7,163.0	17.0	19.7	-2.68	-5,084.5	-8.5	4,753.2	4,736.0	17.17	276.804	
7,480.3	7,123.4	7,251.5	7,168.4	17.2	19.7	-3.84	-5,084.4	-8.4	4,723.1	4,706.1	16.99	278.060	
7,500.0	7,125.4	7,254.0	7,170.9	17.4	19.7	-5.32	-5,084.4	-8.4	4,703.5	4,686.5	16.94	277.664	
7,550.0	7,127.9	7,256.7	7,173.6	17.9	19.7	-69.49	-5,084.3	-8.4	4,653.5	4,622.3	31.24	148.969	
7,562.9	7,128.0	7,256.6	7,173.5	18.0	19.7	-156.04	-5,084.3	-8.4	4,640.6	4,619.1	21.57	215.124	
7,578.7	7,128.0	7,256.2	7,173.1	18.2	19.7	-155.93	-5,084.3	-8.4	4,624.8	4,603.1	21.69	213.264	
7,600.0	7,127.9	7,255.8	7,172.6	18.4	19.7	-155.80	-5,084.3	-8.4	4,603.5	4,581.7	21.84	210.792	
7,677.1	7,127.7	7,254.1	7,170.9	19.2	19.7	-155.28	-5,084.4	-8.4	4,526.4	4,503.9	22.44	201.718	
7,700.0	7,127.7	7,253.6	7,170.4	19.5	19.7	-155.13	-5,084.4	-8.4	4,503.5	4,480.9	22.62	199.098	
7,775.6	7,127.5	7,251.9	7,168.8	20.3	19.7	-154.61	-5,084.4	-8.4	4,428.0	4,404.7	23.23	190.618	
7,800.0	7,127.5	7,251.4	7,168.3	20.5	19.7	-154.44	-5,084.4	-8.4	4,403.5	4,380.1	23.43	187.955	
7,874.0	7,127.3	7,249.8	7,166.7	21.4	19.7	-153.92	-5,084.4	-8.5	4,329.5	4,305.5	24.08	179.787	
7,900.0	7,127.2	7,249.3	7,166.2	21.7	19.7	-153.73	-5,084.4	-8.5	4,303.5	4,279.2	24.31	176.999	
7,972.4	7,127.1	7,247.8	7,164.6	22.7	19.7	-153.20	-5,084.4	-8.5	4,231.1	4,206.1	25.04	168.963	
8,000.0	7,127.0	7,247.2	7,164.1	23.1	19.7	-153.00	-5,084.4	-8.5	4,203.6	4,178.2	25.32	165.996	
8,070.8	7,126.8	7,245.7	7,162.6	24.2	19.7	-152.46	-5,084.5	-8.5	4,132.7	4,106.6	26.09	158.426	
8,100.0	7,126.8	7,245.2	7,162.0	24.6	19.7	-152.24	-5,084.5	-8.5	4,103.6	4,077.2	26.40	155.410	
8,169.3	7,126.6	7,243.8	7,160.6	25.6	19.7	-151.69	-5,084.5	-8.5	4,034.3	4,007.1	27.20	148.328	
8,200.0	7,126.6	7,243.1	7,160.0	26.1	19.7	-151.45	-5,084.5	-8.5	4,003.6	3,976.0	27.56	145.287	
8,267.7	7,126.4	7,241.8	7,158.7	27.2	19.7	-150.90	-5,084.5	-8.6	3,935.9	3,907.5	28.38	138.698	
8,300.0	7,126.3	7,241.2	7,158.0	27.7	19.7	-150.63	-5,084.5	-8.6	3,903.6	3,874.8	28.78	135.656	
8,366.1	7,126.2	7,239.9	7,156.8	28.8	19.7	-150.07	-5,084.5	-8.6	3,837.5	3,807.9	29.62	129.551	
8,400.0	7,126.1	7,239.2	7,156.1	29.3	19.7	-149.79	-5,084.5	-8.6	3,803.6	3,773.6	30.06	126.526	
8,464.5	7,126.0	7,238.0	7,154.9	30.4	19.7	-149.22	-5,084.6	-8.6	3,739.1	3,708.1	30.93	120.890	
8,500.0	7,125.9	7,237.3	7,154.2	31.0	19.7	-148.91	-5,084.6	-8.6	3,703.6	3,672.2	31.41	117.898	
8,563.0	7,125.7	7,236.2	7,153.0	32.0	19.7	-148.34	-5,084.6	-8.6	3,640.7	3,608.4	32.30	112.709	
8,600.0	7,125.6	7,235.5	7,152.3	32.6	19.7	-148.00	-5,084.6	-8.7	3,603.6	3,570.8	32.83	109.760	
8,661.4	7,125.5	7,234.3	7,151.2	33.7	19.7	-147.42	-5,084.6	-8.7	3,542.3	3,508.5	33.74	104.996	
8,700.0	7,125.4	7,233.6	7,150.5	34.4	19.7	-147.06	-5,084.6	-8.7	3,503.7	3,469.3	34.32	102.100	
8,759.8	7,125.3	7,232.5	7,149.4	35.4	19.7	-146.48	-5,084.6	-8.7	3,443.8	3,408.6	35.24	97.734	
8,800.0	7,125.2	7,231.8	7,148.7	36.1	19.7	-146.08	-5,084.6	-8.7	3,403.7	3,367.8	35.87	94.900	
8,858.2	7,125.1	7,230.8	7,147.7	37.1	19.7	-145.49	-5,084.6	-8.7	3,345.4	3,308.6	36.80	90.905	
8,900.0	7,125.0	7,230.0	7,146.9	37.8	19.7	-145.07	-5,084.7	-8.7	3,303.7	3,266.2	37.48	88.138	
8,956.7	7,124.8	7,229.1	7,145.9	38.8	19.7	-144.48	-5,084.7	-8.7	3,247.0	3,208.6	38.43	84.489	
9,000.0	7,124.7	7,228.3	7,145.2	39.6	19.7	-144.02	-5,084.7	-8.8	3,203.7	3,164.5	39.17	81.794	
9,055.1	7,124.6	7,227.4	7,144.2	40.6	19.7	-143.42	-5,084.7	-8.8	3,148.6	3,108.5	40.13	78.466	
9,100.0	7,124.5	7,226.6	7,143.5	41.4	19.7	-142.93	-5,084.7	-8.8	3,103.7	3,062.8	40.92	75.846	
9,153.5	7,124.4	7,225.7	7,142.6	42.3	19.7	-142.33	-5,084.7	-8.8	3,050.2	3,008.3	41.89	72.815	
9,200.0	7,124.3	7,224.9	7,141.8	43.2	19.7	-141.80	-5,084.7	-8.8	3,003.7	2,961.0	42.74	70.272	
9,251.9	7,124.2	7,224.0	7,140.9	44.1	19.7	-141.20	-5,084.7	-8.8	2,951.8	2,908.1	43.72	67.517	
9,300.0	7,124.1	7,223.2	7,140.1	45.0	19.7	-140.63	-5,084.7	-8.8	2,903.7	2,859.1	44.64	65.053	
9,350.4	7,123.9	7,222.4	7,139.3	45.9	19.7	-140.02	-5,084.7	-8.8	2,853.4	2,807.8	45.62	62.550	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	
9,400.0	7,123.8	7,221.6	7,138.5	46.8	19.7	-139.42	-5,084.7	-8.9	2,803.8	2,757.2	46.60	60.167	
9,448.8	7,123.7	7,220.8	7,137.7	47.7	19.7	-138.81	-5,084.8	-8.9	2,755.0	2,707.4	47.58	57.897	
9,500.0	7,123.6	7,220.0	7,136.9	48.6	19.7	-138.16	-5,084.8	-8.9	2,703.8	2,655.1	48.63	55.595	
9,547.2	7,123.5	7,219.2	7,136.1	49.4	19.7	-137.55	-5,084.8	-8.9	2,656.6	2,606.9	49.62	53.539	
9,600.0	7,123.4	7,218.4	7,135.3	50.4	19.7	-136.86	-5,084.8	-8.9	2,603.8	2,553.0	50.74	51.319	
9,645.6	7,123.3	7,217.7	7,134.6	51.2	19.7	-136.25	-5,084.8	-8.9	2,558.1	2,506.4	51.72	49.460	
9,700.0	7,123.2	7,216.9	7,133.7	52.2	19.7	-135.51	-5,084.8	-8.9	2,503.8	2,450.9	52.91	47.321	
9,744.1	7,123.1	7,216.2	7,133.1	53.1	19.7	-134.90	-5,084.8	-8.9	2,459.7	2,405.8	53.89	45.642	
9,800.0	7,122.9	7,215.3	7,132.2	54.1	19.7	-134.12	-5,084.8	-9.0	2,403.8	2,348.7	55.15	43.583	
9,842.5	7,122.8	7,214.7	7,131.6	54.9	19.7	-133.51	-5,084.8	-9.0	2,361.3	2,305.2	56.13	42.069	
9,900.0	7,122.7	7,213.8	7,130.7	55.9	19.7	-132.67	-5,084.8	-9.0	2,303.8	2,246.4	57.47	40.090	
9,940.9	7,122.6	7,213.2	7,130.1	56.7	19.7	-132.07	-5,084.8	-9.0	2,262.9	2,204.5	58.43	38.728	
10,000.0	7,122.5	7,212.3	7,129.2	57.8	19.7	-131.18	-5,084.8	-9.0	2,203.9	2,144.0	59.84	36.828	
10,039.3	7,122.4	7,211.8	7,128.6	58.5	19.7	-130.58	-5,084.8	-9.0	2,164.5	2,103.7	60.80	35.603	
10,100.0	7,122.3	7,210.9	7,127.8	59.6	19.7	-129.64	-5,084.9	-9.0	2,103.9	2,041.6	62.28	33.780	
10,137.8	7,122.2	7,210.3	7,127.2	60.3	19.7	-129.05	-5,084.9	-9.0	2,066.1	2,002.9	63.22	32.682	
10,200.0	7,122.0	7,209.4	7,126.3	61.5	19.7	-128.05	-5,084.9	-9.0	2,003.9	1,939.1	64.78	30.934	
10,236.2	7,121.9	7,208.9	7,125.8	62.2	19.7	-127.46	-5,084.9	-9.1	1,967.7	1,902.0	65.70	29.951	
10,300.0	7,121.8	7,208.0	7,124.9	63.3	19.7	-126.41	-5,084.9	-9.1	1,903.9	1,836.6	67.33	28.277	
10,334.6	7,121.7	7,207.5	7,124.4	64.0	19.7	-125.83	-5,084.9	-9.1	1,869.3	1,801.1	68.23	27.399	
10,400.0	7,121.6	7,206.6	7,123.5	65.2	19.7	-124.73	-5,084.9	-9.1	1,803.9	1,734.0	69.93	25.796	
10,433.0	7,121.5	7,206.2	7,123.0	65.8	19.7	-124.16	-5,084.9	-9.1	1,770.9	1,700.1	70.80	25.013	
10,500.0	7,121.4	7,205.2	7,122.1	67.1	19.6	-122.99	-5,084.9	-9.1	1,704.0	1,631.4	72.57	23.479	
10,531.5	7,121.3	7,204.8	7,121.7	67.7	19.6	-122.44	-5,084.9	-9.1	1,672.5	1,599.1	73.41	22.782	
10,600.0	7,121.1	7,203.9	7,120.8	69.0	19.6	-121.21	-5,084.9	-9.1	1,604.0	1,528.7	75.25	21.315	
10,629.9	7,121.1	7,203.5	7,120.4	69.5	19.6	-120.67	-5,084.9	-9.1	1,574.1	1,498.0	76.06	20.696	
10,700.0	7,120.9	7,202.6	7,119.4	70.8	19.6	-119.39	-5,084.9	-9.2	1,504.0	1,426.1	77.95	19.294	
10,728.3	7,120.8	7,202.2	7,119.1	71.4	19.6	-118.86	-5,084.9	-9.2	1,475.7	1,397.0	78.72	18.745	
10,800.0	7,120.7	7,201.2	7,118.1	72.7	19.6	-117.52	-5,085.0	-9.2	1,404.0	1,323.4	80.67	17.404	
10,826.7	7,120.6	7,200.9	7,117.8	73.2	19.6	-117.02	-5,085.0	-9.2	1,377.3	1,295.9	81.40	16.920	
10,900.0	7,120.5	7,199.9	7,116.8	74.6	19.6	-115.62	-5,085.0	-9.2	1,304.1	1,220.7	83.40	15.636	
10,925.2	7,120.4	7,199.6	7,116.5	75.1	19.6	-115.13	-5,085.0	-9.2	1,278.9	1,194.8	84.09	15.210	
11,000.0	7,120.2	7,198.7	7,115.6	76.5	19.6	-113.67	-5,085.0	-9.2	1,204.1	1,118.0	86.12	13.981	
11,023.6	7,120.2	7,198.4	7,115.3	76.9	19.6	-113.21	-5,085.0	-9.2	1,180.5	1,093.7	86.76	13.606	
11,100.0	7,120.0	7,197.4	7,114.3	78.3	19.6	-111.70	-5,085.0	-9.2	1,104.1	1,015.3	88.83	12.430	
11,122.0	7,120.0	7,197.1	7,114.0	78.8	19.6	-111.26	-5,085.0	-9.2	1,082.1	992.7	89.42	12.102	
11,200.0	7,119.8	7,196.2	7,113.1	80.2	19.6	-109.69	-5,085.0	-9.3	1,004.2	912.7	91.51	10.974	
11,220.4	7,119.7	7,195.9	7,112.8	80.6	19.6	-109.28	-5,085.0	-9.3	983.8	891.7	92.05	10.687	
11,300.0	7,119.5	7,194.9	7,111.8	82.1	19.6	-107.66	-5,085.0	-9.3	904.3	810.1	94.15	9.605	
11,318.9	7,119.5	7,194.7	7,111.6	82.5	19.6	-107.28	-5,085.0	-9.3	885.4	790.7	94.64	9.355	
11,400.0	7,119.3	7,193.7	7,110.6	84.0	19.6	-105.61	-5,085.0	-9.3	804.3	707.6	96.74	8.315	
11,417.3	7,119.3	7,193.5	7,110.4	84.3	19.6	-105.26	-5,085.0	-9.3	787.0	689.9	97.18	8.099	
11,500.0	7,119.1	7,192.6	7,109.4	85.9	19.6	-103.55	-5,085.0	-9.3	704.4	605.1	99.26	7.096	
11,515.7	7,119.1	7,192.4	7,109.2	86.2	19.6	-103.22	-5,085.0	-9.3	688.7	589.0	99.65	6.911	
11,600.0	7,118.9	7,191.4	7,108.3	87.8	19.6	-101.47	-5,085.0	-9.3	604.5	502.8	101.72	5.943	
11,614.1	7,118.8	7,191.2	7,108.1	88.0	19.6	-101.18	-5,085.0	-9.3	590.4	488.3	102.06	5.785	
11,700.0	7,118.6	7,190.2	7,107.1	89.7	19.6	-99.39	-5,085.1	-9.3	504.7	400.6	104.09	4.849	
11,712.6	7,118.6	7,190.1	7,107.0	89.9	19.6	-99.13	-5,085.1	-9.4	492.1	387.8	104.38	4.715	
11,800.0	7,118.4	7,189.1	7,106.0	91.6	19.6	-97.32	-5,085.1	-9.4	404.9	298.6	106.37	3.807	
11,811.0	7,118.4	7,189.0	7,105.8	91.8	19.6	-97.09	-5,085.1	-9.4	394.0	287.3	106.61	3.695	
11,900.0	7,118.2	7,188.0	7,104.8	93.4	19.6	-95.25	-5,085.1	-9.4	305.3	196.8	108.54	2.813	
11,909.4	7,118.2	7,187.8	7,104.7	93.6	19.6	-95.05	-5,085.1	-9.4	295.9	187.2	108.74	2.721	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	
12,000.0	7,118.0	7,186.8	7,103.7	95.3	19.6	-93.19	-5,085.1	-9.4	206.1	95.5	110.62	1.863	
12,007.8	7,118.0	7,186.8	7,103.6	95.5	19.6	-93.03	-5,085.1	-9.4	198.3	87.5	110.78	1.790	
12,100.0	7,117.8	7,185.7	7,102.6	97.2	19.6	-91.14	-5,085.1	-9.4	108.2	-4.4	112.58	0.961 Level 1	
12,106.3	7,117.7	7,185.7	7,102.6	97.4	19.6	-91.02	-5,085.1	-9.4	102.2	-10.5	112.70	0.907 Level 1	
12,200.0	7,117.5	7,184.7	7,101.5	99.1	19.6	-89.12	-5,085.1	-9.4	30.9	-83.5	114.43	0.270 Level 1	
12,203.8	7,117.5	7,184.6	7,101.5	99.2	19.6	-89.05	-5,085.1	-9.4	30.6	-83.8	114.50	0.268 Level 1, CC, SF	
12,204.7	7,117.5	7,184.6	7,101.5	99.2	19.6	-89.03	-5,085.1	-9.4	30.7	-83.8	114.51	0.268 Level 1, ES	
12,300.0	7,117.3	7,183.6	7,100.5	101.0	19.6	-87.13	-5,085.1	-9.5	101.0	-15.2	116.16	0.869 Level 1	
12,303.1	7,117.3	7,183.6	7,100.4	101.1	19.6	-87.07	-5,085.1	-9.5	104.0	-12.3	116.21	0.894 Level 1	
12,400.0	7,117.1	7,182.5	7,099.4	102.9	19.6	-85.17	-5,085.1	-9.5	198.6	80.8	117.78	1.686	
12,401.5	7,117.1	7,182.5	7,099.4	103.0	19.6	-85.14	-5,085.1	-9.5	200.1	82.3	117.80	1.699	
12,500.0	7,116.9	7,181.5	7,098.4	104.8	19.6	-83.24	-5,085.1	-9.5	297.8	178.5	119.28	2.496	
12,598.4	7,116.6	7,180.5	7,097.4	106.7	19.6	-81.38	-5,085.1	-9.5	395.8	275.1	120.65	3.280	
12,600.0	7,116.6	7,180.5	7,097.4	106.7	19.6	-81.35	-5,085.1	-9.5	397.4	276.7	120.67	3.293	
12,696.8	7,116.4	7,179.5	7,096.4	108.6	19.6	-79.55	-5,085.1	-9.5	494.0	372.0	121.91	4.052	
12,700.0	7,116.4	7,179.5	7,096.4	108.6	19.6	-79.50	-5,085.1	-9.5	497.1	375.2	121.95	4.076	
12,795.2	7,116.2	7,178.5	7,095.4	110.4	19.6	-77.77	-5,085.2	-9.5	592.2	469.1	123.08	4.812	
12,800.0	7,116.2	7,178.5	7,095.4	110.5	19.6	-77.69	-5,085.2	-9.5	597.0	473.8	123.13	4.848	
12,893.7	7,116.0	7,177.5	7,094.4	112.3	19.6	-76.04	-5,085.2	-9.6	690.5	566.4	124.14	5.562	
12,900.0	7,116.0	7,177.5	7,094.4	112.4	19.6	-75.93	-5,085.2	-9.6	696.8	572.6	124.21	5.610	
12,992.1	7,115.7	7,176.6	7,093.5	114.2	19.6	-74.35	-5,085.2	-9.6	788.9	663.7	125.12	6.305	
13,000.0	7,115.7	7,176.5	7,093.4	114.3	19.6	-74.21	-5,085.2	-9.6	796.8	671.6	125.19	6.364	
13,090.5	7,115.5	7,175.6	7,092.5	116.1	19.6	-72.70	-5,085.2	-9.6	887.2	761.2	126.01	7.041	
13,100.0	7,115.5	7,175.5	7,092.4	116.2	19.6	-72.55	-5,085.2	-9.6	896.7	770.6	126.09	7.112	
13,188.9	7,115.3	7,174.7	7,091.6	117.9	19.6	-71.10	-5,085.2	-9.6	985.6	858.8	126.82	7.772	
13,200.0	7,115.3	7,174.6	7,091.5	118.1	19.6	-70.93	-5,085.2	-9.6	996.6	869.7	126.90	7.853	
13,287.4	7,115.1	7,173.8	7,090.7	119.8	19.6	-69.55	-5,085.2	-9.6	1,084.0	956.4	127.55	8.498	
13,300.0	7,115.1	7,173.7	7,090.5	120.0	19.6	-69.36	-5,085.2	-9.6	1,096.6	968.9	127.64	8.591	
13,385.8	7,114.9	7,172.9	7,089.7	121.7	19.6	-68.05	-5,085.2	-9.6	1,182.3	1,054.1	128.22	9.221	
13,400.0	7,114.8	7,172.7	7,089.6	121.9	19.6	-67.84	-5,085.2	-9.6	1,196.5	1,068.2	128.32	9.325	
13,484.2	7,114.6	7,172.0	7,088.8	123.6	19.6	-66.60	-5,085.2	-9.7	1,280.7	1,151.9	128.83	9.941	
13,500.0	7,114.6	7,171.8	7,088.7	123.9	19.6	-66.37	-5,085.2	-9.7	1,296.5	1,167.6	128.93	10.056	
13,582.6	7,114.4	7,171.1	7,087.9	125.4	19.6	-65.19	-5,085.2	-9.7	1,379.1	1,249.7	129.39	10.659	
13,600.0	7,114.4	7,170.9	7,087.8	125.8	19.6	-64.94	-5,085.2	-9.7	1,396.5	1,267.0	129.48	10.785	
13,681.1	7,114.2	7,170.2	7,087.1	127.3	19.6	-63.82	-5,085.2	-9.7	1,477.5	1,347.6	129.89	11.375	
13,700.0	7,114.2	7,170.0	7,086.9	127.7	19.6	-63.57	-5,085.2	-9.7	1,496.4	1,366.5	129.98	11.513	
13,779.5	7,114.0	7,169.3	7,086.2	129.2	19.6	-62.51	-5,085.2	-9.7	1,575.9	1,445.6	130.35	12.090	
13,800.0	7,113.9	7,169.1	7,086.0	129.6	19.6	-62.24	-5,085.2	-9.7	1,596.4	1,466.0	130.44	12.238	
13,877.9	7,113.8	7,168.5	7,085.3	131.1	19.6	-61.24	-5,085.2	-9.7	1,674.3	1,543.6	130.77	12.803	
13,900.0	7,113.7	7,168.3	7,085.1	131.5	19.6	-60.96	-5,085.2	-9.7	1,696.4	1,565.5	130.86	12.963	
13,976.3	7,113.5	7,167.6	7,084.5	132.9	19.6	-60.01	-5,085.2	-9.7	1,772.7	1,641.6	131.16	13.516	
14,000.0	7,113.5	7,167.4	7,084.3	133.4	19.6	-59.72	-5,085.2	-9.7	1,796.4	1,665.1	131.25	13.687	
14,074.8	7,113.3	7,166.8	7,083.6	134.8	19.6	-58.82	-5,085.2	-9.7	1,871.1	1,739.6	131.52	14.227	
14,100.0	7,113.3	7,166.5	7,083.4	135.3	19.6	-58.53	-5,085.2	-9.8	1,896.4	1,764.8	131.61	14.409	
14,173.2	7,113.1	7,165.9	7,082.8	136.7	19.6	-57.68	-5,085.2	-9.8	1,969.6	1,837.7	131.85	14.938	
14,200.0	7,113.0	7,165.7	7,082.6	137.2	19.6	-57.37	-5,085.2	-9.8	1,996.3	1,864.4	131.94	15.131	
14,219.1	7,113.0	7,165.5	7,082.4	137.6	19.6	-57.16	-5,085.3	-9.8	2,015.5	1,883.5	132.00	15.268	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	172.37	-5,118.5	686.1	5,164.3				
98.4	98.4	84.8	84.8	0.1	0.1	172.37	-5,118.5	686.0	5,164.3	5,164.1	0.17	N/A	
100.0	100.0	86.3	86.3	0.1	0.1	172.37	-5,118.5	686.0	5,164.3	5,164.1	0.18	N/A	
196.8	196.8	184.2	184.2	0.3	0.2	172.37	-5,118.5	686.0	5,164.2	5,163.7	0.49	N/A	
200.0	200.0	187.3	187.3	0.3	0.2	172.37	-5,118.5	686.0	5,164.2	5,163.7	0.50	N/A	
295.3	295.3	283.6	283.6	0.5	0.3	172.37	-5,118.4	685.8	5,164.2	5,163.4	0.80	6,439.770	
300.0	300.0	288.3	288.3	0.5	0.3	172.37	-5,118.4	685.8	5,164.2	5,163.4	0.82	6,320.802	
393.7	393.7	383.1	383.1	0.8	0.5	172.37	-5,118.4	685.9	5,164.1	5,162.9	1.22	4,237.415	
400.0	400.0	389.5	389.5	0.8	0.5	172.37	-5,118.4	685.8	5,164.1	5,162.9	1.25	4,144.414	
492.1	492.1	491.6	491.6	1.0	0.7	172.38	-5,118.5	684.3	5,164.0	5,162.4	1.67	3,099.373	
500.0	500.0	516.6	516.6	1.0	0.7	172.39	-5,118.5	683.6	5,164.0	5,162.3	1.74	2,967.215	
590.5	590.5	635.0	634.8	1.2	1.0	172.45	-5,117.7	678.1	5,162.8	5,160.6	2.21	2,334.350	
600.0	600.0	635.0	634.8	1.2	1.0	172.45	-5,117.7	678.1	5,162.7	5,160.5	2.23	2,312.100	
689.0	689.0	801.8	801.1	1.4	1.4	172.59	-5,116.1	665.1	5,160.8	5,157.9	2.84	1,815.740	
700.0	700.0	810.0	809.3	1.4	1.4	172.60	-5,116.0	664.3	5,160.5	5,157.6	2.89	1,787.095	
787.4	787.4	890.6	889.3	1.6	1.7	172.70	-5,115.3	655.3	5,158.4	5,155.1	3.32	1,555.766	
800.0	800.0	901.6	900.2	1.7	1.7	172.72	-5,115.2	653.9	5,158.1	5,154.8	3.38	1,528.067	
885.8	885.8	1,045.6	1,042.6	1.9	2.2	172.96	-5,114.3	632.0	5,156.0	5,152.0	4.03	1,279.621	
900.0	900.0	1,067.0	1,063.7	1.9	2.2	172.99	-5,114.0	628.4	5,155.5	5,151.4	4.13	1,247.683	
984.2	984.2	1,118.8	1,114.6	2.1	2.4	173.10	-5,113.5	619.1	5,152.9	5,148.3	4.52	1,139.649	
1,000.0	1,000.0	1,127.9	1,123.5	2.1	2.5	173.12	-5,113.5	617.4	5,152.4	5,147.8	4.59	1,122.087	
1,082.7	1,082.7	1,195.0	1,189.2	2.3	2.7	173.27	-5,113.7	603.4	5,150.6	5,145.5	5.04	1,022.578	
1,100.0	1,100.0	1,195.0	1,189.2	2.3	2.7	173.27	-5,113.7	603.4	5,150.2	5,145.1	5.08	1,014.658	
1,181.1	1,181.1	1,284.0	1,275.8	2.5	3.1	173.50	-5,114.4	582.6	5,148.7	5,143.0	5.67	908.119	
1,200.0	1,200.0	1,310.3	1,301.2	2.6	3.3	173.57	-5,114.6	576.1	5,148.3	5,142.4	5.83	882.577	
1,279.5	1,279.5	1,418.8	1,405.7	2.7	3.8	173.90	-5,115.2	546.8	5,146.3	5,139.7	6.59	781.398	
1,300.0	1,300.0	1,446.4	1,432.1	2.8	4.0	173.99	-5,115.3	538.7	5,145.7	5,138.9	6.78	758.896	
1,369.9	1,369.9	1,497.7	1,480.9	3.0	4.3	178.44	-5,115.6	523.2	5,144.7	5,137.4	7.24	710.448	
1,377.9	1,377.9	1,503.2	1,486.2	3.0	4.3	178.46	-5,115.7	521.5	5,144.7	5,137.4	7.29	705.392	
1,400.0	1,400.0	1,518.4	1,500.7	3.0	4.4	178.52	-5,115.8	516.7	5,144.9	5,137.4	7.44	691.934	
1,476.4	1,476.3	1,580.0	1,558.9	3.2	4.8	178.74	-5,116.7	496.8	5,147.1	5,139.1	7.98	644.968	
1,500.0	1,499.8	1,580.0	1,558.9	3.2	4.8	178.74	-5,116.7	496.8	5,148.2	5,140.2	8.03	641.117	
1,574.8	1,574.4	1,649.3	1,624.2	3.4	5.3	179.00	-5,117.9	473.6	5,153.3	5,144.7	8.65	595.808	
1,600.0	1,599.5	1,669.9	1,643.6	3.5	5.4	179.07	-5,118.3	466.7	5,155.6	5,146.7	8.84	583.392	
1,673.2	1,672.2	1,837.0	1,799.9	3.6	6.6	179.73	-5,120.5	407.8	5,162.9	5,152.8	10.15	508.770	
1,700.0	1,698.7	1,837.0	1,799.9	3.7	6.6	179.73	-5,120.5	407.8	5,165.9	5,155.7	10.20	506.553	
1,771.6	1,769.5	1,899.2	1,857.4	3.9	7.1	180.00	-5,120.8	384.0	5,175.0	5,164.1	10.81	478.546	
1,800.0	1,797.5	1,913.5	1,870.6	4.0	7.2	-179.94	-5,121.0	378.4	5,179.2	5,168.2	10.97	471.929	
1,870.1	1,866.3	1,966.0	1,918.7	4.2	7.6	-179.71	-5,122.0	357.4	5,191.4	5,179.9	11.50	451.353	
1,900.1	1,895.8	1,966.0	1,918.7	4.3	7.6	-179.71	-5,122.0	357.4	5,197.2	5,185.6	11.55	449.925	
1,968.5	1,962.6	2,259.1	2,182.8	4.5	10.2	-178.30	-5,120.9	230.6	5,208.2	5,194.0	14.23	366.090	
2,000.0	1,993.4	2,277.7	2,199.3	4.6	10.3	-178.20	-5,120.6	222.0	5,213.4	5,198.9	14.48	360.101	
2,066.9	2,058.9	2,317.1	2,234.1	4.8	10.7	-178.00	-5,120.0	203.6	5,224.7	5,209.7	15.02	347.951	
2,100.0	2,091.3	2,351.0	2,264.1	4.9	11.1	-177.83	-5,119.6	187.7	5,230.5	5,215.1	15.41	339.321	
2,165.3	2,155.2	2,443.3	2,345.6	5.1	11.9	-177.36	-5,118.2	144.4	5,241.9	5,225.5	16.41	319.393	
2,200.0	2,189.1	2,479.0	2,377.1	5.3	12.2	-177.18	-5,117.3	127.7	5,247.7	5,230.9	16.82	311.923	
2,263.8	2,251.4	2,514.4	2,408.5	5.5	12.6	-177.00	-5,116.6	111.3	5,258.6	5,241.4	17.28	304.275	
2,300.0	2,286.9	2,529.9	2,422.3	5.6	12.7	-176.92	-5,116.3	104.2	5,265.1	5,247.6	17.50	300.784	
2,362.2	2,347.7	2,556.6	2,445.9	5.9	12.9	-176.79	-5,116.0	92.0	5,276.5	5,258.6	17.89	294.999	
2,400.0	2,384.7	2,572.8	2,460.4	6.0	13.1	-176.71	-5,115.8	84.6	5,283.6	5,265.5	18.12	291.605	
2,460.6	2,444.0	2,608.0	2,491.8	6.3	13.4	-176.54	-5,115.7	68.7	5,295.4	5,276.8	18.57	285.135	
2,500.0	2,482.5	2,761.0	2,627.4	6.4	14.8	-175.78	-5,113.3	-2.1	5,302.6	5,282.5	20.08	264.015	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	
2,559.0	2,540.3	2,798.6	2,660.4	6.6	15.2	-175.59	-5,112.4	-20.1	5,313.2	5,292.6	20.61	257.760	
2,600.0	2,580.3	2,824.5	2,683.1	6.8	15.5	-175.46	-5,111.9	-32.6	5,320.8	5,299.8	20.98	253.634	
2,617.6	2,597.5	2,835.5	2,692.7	6.9	15.6	-175.40	-5,111.6	-38.0	5,324.1	5,302.9	21.13	251.909	
2,657.5	2,636.6	2,864.0	2,717.6	7.0	15.9	-175.26	-5,111.1	-51.9	5,331.3	5,309.7	21.56	247.258	
2,700.0	2,678.4	2,864.0	2,717.6	7.2	15.9	-175.27	-5,111.1	-51.9	5,338.6	5,316.9	21.71	245.948	
2,755.9	2,733.5	2,901.3	2,750.0	7.3	16.3	-175.09	-5,110.6	-70.3	5,347.6	5,325.3	22.27	240.083	
2,800.0	2,777.0	2,918.8	2,765.2	7.4	16.5	-175.01	-5,110.4	-79.1	5,354.2	5,331.6	22.59	237.013	
2,854.3	2,830.9	2,940.4	2,783.8	7.6	16.7	-174.91	-5,110.3	-89.9	5,361.7	5,338.7	22.97	233.406	
2,900.0	2,876.2	2,993.0	2,829.1	7.7	17.3	-174.64	-5,110.6	-116.7	5,367.7	5,344.0	23.66	226.873	
2,952.7	2,928.7	2,993.0	2,829.1	7.8	17.3	-174.65	-5,110.6	-116.7	5,373.6	5,349.8	23.79	225.883	
3,000.0	2,975.8	2,993.0	2,829.1	7.9	17.3	-174.66	-5,110.6	-116.7	5,378.5	5,354.6	23.90	225.052	
3,051.2	3,026.8	3,025.7	2,857.1	8.0	17.6	-174.49	-5,111.0	-133.6	5,383.3	5,358.9	24.38	220.823	
3,100.0	3,075.6	3,051.0	2,878.6	8.1	17.9	-174.36	-5,111.3	-146.7	5,387.2	5,362.4	24.76	217.567	
3,149.6	3,125.2	3,076.5	2,900.4	8.2	18.2	-174.22	-5,111.8	-160.1	5,390.6	5,365.5	25.14	214.422	
3,200.0	3,175.6	3,121.0	2,938.3	8.3	18.7	-173.98	-5,112.8	-183.5	5,393.5	5,367.8	25.73	209.642	
3,217.7	3,193.3	3,121.0	2,938.3	8.3	18.7	-178.27	-5,112.8	-183.5	5,394.3	5,368.6	25.76	209.443	
3,248.0	3,223.6	3,163.0	2,974.1	8.4	19.2	-178.03	-5,113.7	-205.5	5,395.7	5,369.5	26.26	205.454	
3,300.0	3,275.6	3,378.0	3,159.3	8.5	21.4	-176.88	-5,114.5	-314.5	5,397.1	5,368.6	28.58	188.841	
3,346.4	3,322.0	3,378.0	3,159.3	8.6	21.4	-176.88	-5,114.5	-314.5	5,398.2	5,369.5	28.68	188.226	
3,400.0	3,375.6	3,430.9	3,205.3	8.7	21.9	-176.60	-5,114.0	-340.6	5,399.4	5,370.1	29.30	184.270	
3,444.9	3,420.4	3,450.4	3,222.4	8.7	22.1	-176.50	-5,114.0	-350.0	5,400.8	5,371.3	29.59	182.553	
3,500.0	3,475.6	3,506.0	3,271.6	8.8	22.6	-176.23	-5,114.3	-376.0	5,403.1	5,372.8	30.24	178.697	
3,543.3	3,518.9	3,506.0	3,271.6	8.9	22.6	-176.23	-5,114.3	-376.0	5,404.8	5,374.4	30.33	178.206	
3,600.0	3,575.6	3,529.3	3,292.3	9.0	22.8	-176.11	-5,114.6	-386.6	5,407.4	5,376.8	30.66	176.388	
3,641.7	3,617.3	3,562.4	3,321.8	9.1	23.1	-175.95	-5,115.1	-401.6	5,409.6	5,378.5	31.04	174.287	
3,700.0	3,675.6	3,608.7	3,363.1	9.2	23.6	-175.73	-5,115.8	-422.6	5,412.7	5,381.1	31.57	171.438	
3,740.1	3,715.7	3,651.3	3,401.1	9.3	23.9	-175.53	-5,116.5	-441.7	5,414.9	5,382.9	32.03	169.045	
3,800.0	3,775.6	3,763.0	3,501.2	9.4	24.9	-175.01	-5,117.5	-491.3	5,417.9	5,384.8	33.14	163.504	
3,838.6	3,814.1	3,797.7	3,532.4	9.5	25.2	-174.85	-5,117.6	-506.5	5,419.8	5,386.3	33.52	161.698	
3,900.0	3,875.6	3,841.1	3,571.4	9.6	25.6	-174.65	-5,117.9	-525.5	5,422.9	5,388.9	34.02	159.391	
3,937.0	3,912.6	3,867.3	3,595.0	9.7	25.8	-174.53	-5,118.1	-536.8	5,424.9	5,390.6	34.33	158.036	
4,000.0	3,975.6	3,925.4	3,647.4	9.8	26.4	-174.26	-5,118.7	-562.1	5,428.6	5,393.6	34.98	155.202	
4,035.4	4,011.0	3,967.2	3,684.8	9.9	26.7	-174.07	-5,119.0	-580.5	5,430.6	5,395.2	35.43	153.274	
4,100.0	4,075.6	4,051.7	3,760.0	10.0	27.6	-173.67	-5,119.1	-619.1	5,434.3	5,397.9	36.36	149.437	
4,133.8	4,109.4	4,106.5	3,808.3	10.0	28.1	-173.39	-5,118.8	-645.1	5,436.1	5,399.1	36.99	146.967	
4,200.0	4,175.6	4,148.0	3,844.5	10.2	28.6	-173.18	-5,118.3	-665.4	5,439.6	5,402.1	37.55	144.872	
4,232.3	4,207.8	4,181.2	3,873.4	10.2	28.9	-173.01	-5,117.9	-681.9	5,441.4	5,403.5	37.96	143.335	
4,300.0	4,275.6	4,212.3	3,900.4	10.4	29.2	-172.84	-5,117.7	-697.3	5,445.7	5,407.2	38.43	141.694	
4,330.7	4,306.3	4,226.4	3,912.6	10.4	29.4	-172.77	-5,117.6	-704.3	5,447.7	5,409.1	38.65	140.968	
4,400.0	4,375.6	4,277.0	3,956.4	10.6	29.9	-172.51	-5,117.7	-729.5	5,452.9	5,413.6	39.32	138.684	
4,429.1	4,404.7	4,277.0	3,956.4	10.6	29.9	-172.51	-5,117.7	-729.5	5,455.1	5,415.7	39.38	138.517	
4,500.0	4,475.6	4,344.9	4,015.2	10.8	30.7	-172.15	-5,118.0	-763.4	5,460.9	5,420.7	40.24	135.709	
4,527.5	4,503.1	4,376.4	4,042.5	10.8	31.0	-171.99	-5,118.1	-779.3	5,463.2	5,422.5	40.63	134.472	
4,600.0	4,575.6	4,464.2	4,118.6	11.0	31.9	-171.53	-5,118.0	-823.0	5,469.1	5,427.4	41.66	131.286	
4,626.0	4,601.5	4,497.1	4,147.4	11.0	32.2	-171.37	-5,118.0	-838.9	5,471.1	5,429.1	42.04	130.155	
4,700.0	4,675.6	4,562.0	4,204.7	11.2	32.9	-171.05	-5,118.0	-869.3	5,477.1	5,434.3	42.80	127.957	
4,724.4	4,700.0	4,577.1	4,218.1	11.2	33.0	-170.98	-5,118.0	-876.3	5,479.2	5,436.2	42.99	127.447	
4,800.0	4,775.6	4,919.0	4,523.9	11.4	36.1	-169.40	-5,113.4	-1,029.0	5,485.8	5,439.6	46.14	118.887	
4,822.8	4,798.4	4,940.3	4,543.0	11.4	36.3	-169.30	-5,112.4	-1,038.4	5,486.8	5,440.4	46.38	118.309	
4,900.0	4,875.6	4,991.9	4,589.4	11.6	36.8	-169.06	-5,110.4	-1,060.9	5,490.4	5,443.4	46.98	116.857	
4,921.2	4,896.8	5,006.2	4,602.3	11.6	36.9	-169.00	-5,109.8	-1,067.0	5,491.4	5,444.3	47.15	116.468	
5,000.0	4,975.6	5,209.5	4,787.6	11.8	38.6	-168.13	-5,101.0	-1,150.3	5,494.9	5,446.0	48.92	112.326	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 289-MWD													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		
5,019.7	4,995.2	5,224.4	4,801.3	11.8	38.7	-168.07	-5,100.2	-1,156.0	5,495.5	5,446.5	49.07	111.996		
5,100.0	5,075.6	5,285.8	4,858.2	12.0	39.2	-167.83	-5,097.4	-1,178.9	5,498.3	5,448.6	49.69	110.661		
5,118.1	5,093.7	5,304.0	4,875.1	12.0	39.3	-167.76	-5,096.6	-1,185.4	5,499.0	5,449.1	49.86	110.295		
5,200.0	5,175.6	5,349.3	4,917.5	12.2	39.6	-167.60	-5,094.9	-1,201.3	5,502.4	5,452.0	50.32	109.357		
5,216.5	5,192.1	5,359.2	4,926.8	12.2	39.7	-167.56	-5,094.6	-1,204.7	5,503.1	5,452.7	50.41	109.160		
5,300.0	5,275.6	5,432.0	4,995.7	12.4	40.2	-167.32	-5,093.0	-1,228.1	5,507.2	5,456.2	51.05	107.888		
5,314.9	5,290.5	5,432.0	4,995.7	12.4	40.2	-167.32	-5,093.0	-1,228.1	5,508.0	5,456.9	51.08	107.833		
5,400.0	5,375.6	5,484.1	5,045.3	12.6	40.5	-167.15	-5,092.2	-1,244.1	5,512.7	5,461.1	51.56	106.920		
5,413.4	5,388.9	5,495.1	5,055.8	12.6	40.5	-167.12	-5,092.0	-1,247.5	5,513.4	5,461.8	51.65	106.747		
5,500.0	5,475.6	5,570.8	5,127.8	12.8	41.0	-166.88	-5,091.1	-1,270.7	5,518.6	5,466.3	52.26	105.597		
5,511.8	5,487.4	5,588.6	5,144.8	12.8	41.1	-166.83	-5,090.9	-1,276.1	5,519.3	5,466.9	52.38	105.370		
5,600.0	5,575.6	5,717.5	5,268.5	13.0	41.8	-166.46	-5,089.4	-1,312.2	5,524.2	5,471.0	53.23	103.785		
5,610.2	5,585.8	5,730.5	5,281.0	13.0	41.9	-166.42	-5,089.3	-1,315.6	5,524.8	5,471.5	53.31	103.639		
5,700.0	5,675.6	5,837.1	5,384.6	13.2	42.4	-166.17	-5,088.5	-1,341.0	5,529.3	5,475.4	53.96	102.463		
5,708.6	5,684.2	5,844.8	5,392.1	13.2	42.4	-166.15	-5,088.5	-1,342.7	5,529.8	5,475.7	54.01	102.382		
5,800.0	5,775.6	5,926.6	5,472.2	13.4	42.7	-165.98	-5,088.6	-1,359.4	5,534.4	5,479.9	54.51	101.530		
5,807.1	5,782.6	5,933.0	5,478.4	13.4	42.8	-165.97	-5,088.6	-1,360.6	5,534.8	5,480.3	54.55	101.465		
5,900.0	5,875.6	6,109.3	5,652.7	13.6	43.3	-165.71	-5,090.2	-1,387.2	5,539.2	5,484.0	55.23	100.290		
5,905.5	5,881.1	6,129.5	5,672.8	13.6	43.3	-165.68	-5,090.4	-1,389.5	5,539.4	5,484.1	55.29	100.194		
6,000.0	5,975.6	6,354.8	5,897.2	13.8	43.7	-165.50	-5,090.5	-1,407.6	5,541.1	5,485.2	55.88	99.166		
6,003.9	5,979.5	6,357.3	5,899.8	13.8	43.8	-165.50	-5,090.5	-1,407.7	5,541.1	5,485.2	55.89	99.146		
6,100.0	6,075.6	6,419.3	5,961.7	14.0	43.8	-165.48	-5,090.9	-1,410.2	5,542.5	5,486.4	56.17	98.679		
6,102.3	6,077.9	6,420.8	5,963.2	14.0	43.8	-165.48	-5,090.9	-1,410.3	5,542.6	5,486.4	56.17	98.668		
6,200.0	6,175.6	6,506.5	6,048.9	14.2	43.9	-165.46	-5,092.1	-1,412.7	5,544.6	5,488.1	56.47	98.192		
6,200.8	6,176.3	6,507.5	6,049.8	14.2	43.9	-165.46	-5,092.1	-1,412.7	5,544.6	5,488.1	56.47	98.188		
6,299.2	6,274.8	6,753.8	6,296.2	14.4	44.1	-165.46	-5,094.3	-1,413.0	5,545.8	5,489.0	56.85	97.557		
6,300.0	6,275.6	6,755.5	6,297.9	14.4	44.1	-165.46	-5,094.3	-1,413.0	5,545.8	5,489.0	56.85	97.552		
6,397.6	6,373.2	6,898.9	6,441.2	14.7	44.2	-165.44	-5,092.0	-1,414.6	5,544.5	5,487.3	57.17	96.976		
6,400.0	6,375.6	6,901.2	6,443.5	14.7	44.2	-165.44	-5,092.0	-1,414.6	5,544.5	5,487.3	57.18	96.963		
6,436.2	6,411.8	6,936.2	6,478.5	14.7	44.2	-165.43	-5,091.4	-1,415.0	5,543.9	5,486.6	57.29	96.769		
6,450.0	6,425.6	6,949.5	6,491.8	14.8	44.2	14.37	-5,091.1	-1,415.1	5,543.6	5,486.3	57.29	96.763		
6,496.0	6,471.5	7,023.2	6,565.5	14.8	44.3	14.45	-5,089.8	-1,415.7	5,540.6	5,483.3	57.26	96.761		
6,500.0	6,475.5	7,032.3	6,574.6	14.8	44.3	14.46	-5,089.6	-1,415.8	5,540.2	5,482.9	57.25	96.771		
6,550.0	6,525.1	7,102.0	6,644.3	14.9	44.3	14.64	-5,087.6	-1,416.7	5,533.0	5,476.0	56.94	97.175		
6,594.5	6,568.7	7,138.1	6,680.4	14.9	44.4	14.86	-5,086.5	-1,417.3	5,523.8	5,467.3	56.43	97.887		
6,600.0	6,574.1	7,141.2	6,683.5	14.9	44.4	14.89	-5,086.4	-1,417.4	5,522.4	5,466.1	56.35	98.000		
6,650.0	6,622.4	7,168.8	6,711.1	14.9	44.4	15.21	-5,085.7	-1,417.9	5,508.8	5,453.3	55.51	99.245		
6,692.9	6,663.0	7,192.1	6,734.3	14.9	44.4	15.56	-5,085.1	-1,418.4	5,494.8	5,440.2	54.59	100.649		
6,700.0	6,669.6	7,195.9	6,738.1	14.9	44.4	15.62	-5,085.0	-1,418.5	5,492.2	5,437.8	54.43	100.912		
6,750.0	6,715.6	7,230.0	6,772.2	14.9	44.5	16.14	-5,084.4	-1,419.3	5,472.6	5,419.5	53.13	103.014		
6,791.3	6,752.5	7,252.0	6,794.2	14.9	44.5	16.65	-5,084.0	-1,419.8	5,454.2	5,402.3	51.89	105.115		
6,800.0	6,760.1	7,259.1	6,801.3	14.9	44.5	16.77	-5,083.9	-1,420.0	5,450.1	5,398.5	51.61	105.594		
6,850.0	6,802.9	7,299.3	6,841.5	14.9	44.5	17.55	-5,083.2	-1,421.0	5,424.7	5,374.8	49.92	108.658		
6,889.7	6,835.6	7,330.0	6,872.1	14.9	44.6	18.29	-5,082.7	-1,421.8	5,402.5	5,354.1	48.46	111.477		
6,900.0	6,843.8	7,337.7	6,879.8	14.9	44.6	18.50	-5,082.5	-1,422.0	5,396.5	5,348.5	48.07	112.260		
6,950.0	6,882.6	7,376.1	6,918.2	14.9	44.6	19.65	-5,081.9	-1,423.0	5,365.7	5,319.6	46.09	116.412		
6,988.2	6,910.7	7,405.6	6,947.7	15.0	44.7	20.69	-5,081.4	-1,423.9	5,340.5	5,295.9	44.52	119.946		
7,000.0	6,919.1	7,414.4	6,956.5	15.0	44.7	21.04	-5,081.2	-1,424.2	5,332.4	5,288.3	44.03	121.106		
7,050.0	6,953.1	7,449.9	6,992.0	15.0	44.7	22.73	-5,080.5	-1,425.4	5,296.7	5,254.7	41.94	126.297		
7,086.6	6,976.4	7,474.1	7,016.1	15.1	44.7	24.20	-5,080.0	-1,426.2	5,269.2	5,228.7	40.43	130.324		
7,100.0	6,984.5	7,482.5	7,024.5	15.1	44.7	24.79	-5,079.8	-1,426.5	5,258.8	5,218.9	39.89	131.830		
7,150.0	7,013.1	7,540.2	7,082.2	15.3	44.8	27.54	-5,078.5	-1,428.5	5,218.9	5,180.9	38.03	137.224		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 289-MWD													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		
7,185.0	7,031.4	7,579.8	7,121.8	15.4	44.8	29.90	-5,077.5	-1,429.4	5,189.8	5,152.9	36.90	140.630		
7,200.0	7,038.8	7,595.7	7,137.6	15.4	44.9	31.03	-5,077.1	-1,429.7	5,177.1	5,140.6	36.48	141.925		
7,250.0	7,061.4	7,628.7	7,170.6	15.6	44.9	35.24	-5,076.2	-1,430.1	5,133.7	5,098.3	35.35	145.207		
7,283.4	7,074.8	7,642.1	7,184.0	15.8	44.9	38.59	-5,075.8	-1,430.3	5,103.8	5,068.9	34.93	146.099		
7,300.0	7,080.9	7,648.1	7,190.1	15.9	44.9	40.46	-5,075.6	-1,430.3	5,088.9	5,054.0	34.84	146.060		
7,350.0	7,097.1	7,664.1	7,206.0	16.2	44.9	47.13	-5,075.2	-1,430.4	5,043.0	5,007.9	35.09	143.700		
7,381.9	7,105.7	7,672.5	7,214.4	16.4	44.9	52.32	-5,075.0	-1,430.5	5,013.3	4,977.7	35.65	140.617		
7,400.0	7,109.9	7,676.5	7,218.5	16.6	44.9	55.63	-5,074.8	-1,430.5	4,996.3	4,960.2	36.07	138.520		
7,450.0	7,119.4	7,685.3	7,227.2	17.0	44.9	66.19	-5,074.6	-1,430.5	4,949.0	4,911.6	37.36	132.457		
7,480.3	7,123.4	7,688.8	7,230.7	17.2	44.9	73.53	-5,074.5	-1,430.5	4,920.1	4,882.1	37.97	129.573		
7,500.0	7,125.4	7,690.4	7,232.3	17.4	44.9	78.60	-5,074.5	-1,430.5	4,901.2	4,863.1	38.16	128.433		
7,550.0	7,127.9	7,691.7	7,233.6	17.9	44.9	91.94	-5,074.4	-1,430.5	4,853.3	4,815.7	37.65	128.903		
7,562.9	7,128.0	7,691.4	7,233.3	18.0	44.9	95.35	-5,074.5	-1,430.5	4,841.0	4,803.7	37.28	129.872		
7,578.7	7,128.0	7,690.9	7,232.8	18.2	44.9	95.33	-5,074.5	-1,430.5	4,825.8	4,788.4	37.44	128.895		
7,600.0	7,127.9	7,690.2	7,232.2	18.4	44.9	95.31	-5,074.5	-1,430.5	4,805.4	4,767.8	37.66	127.599		
7,677.1	7,127.7	7,687.8	7,229.8	19.2	44.9	95.21	-5,074.5	-1,430.5	4,731.7	4,693.1	38.53	122.795		
7,700.0	7,127.7	7,687.1	7,229.0	19.5	44.9	95.18	-5,074.6	-1,430.5	4,709.9	4,671.1	38.79	121.414		
7,775.6	7,127.5	7,684.8	7,226.7	20.3	44.9	95.08	-5,074.6	-1,430.5	4,637.7	4,598.1	39.60	117.114		
7,800.0	7,127.5	7,684.0	7,225.9	20.5	44.9	95.05	-5,074.7	-1,430.5	4,614.4	4,574.6	39.86	115.762		
7,874.0	7,127.3	7,681.7	7,223.6	21.4	44.9	94.96	-5,074.7	-1,430.5	4,544.0	4,503.2	40.73	111.566		
7,900.0	7,127.2	7,680.8	7,222.8	21.7	44.9	94.92	-5,074.7	-1,430.5	4,519.2	4,478.2	41.03	110.134		
7,972.4	7,127.1	7,678.5	7,220.5	22.7	44.9	94.83	-5,074.8	-1,430.5	4,450.4	4,408.3	42.06	105.816		
8,000.0	7,127.0	7,677.7	7,219.6	23.1	44.9	94.79	-5,074.8	-1,430.5	4,424.2	4,381.8	42.45	104.228		
8,070.8	7,126.8	7,675.4	7,217.3	24.2	44.9	94.70	-5,074.9	-1,430.5	4,357.0	4,313.5	43.50	100.164		
8,100.0	7,126.8	7,674.5	7,216.4	24.6	44.9	94.66	-5,074.9	-1,430.5	4,329.4	4,285.5	43.93	98.550		
8,169.3	7,126.6	7,672.3	7,214.2	25.6	44.9	94.57	-5,075.0	-1,430.5	4,263.9	4,218.9	45.00	94.754		
8,200.0	7,126.6	7,671.3	7,213.2	26.1	44.9	94.53	-5,075.0	-1,430.5	4,234.9	4,189.4	45.47	93.128		
8,267.7	7,126.4	7,669.1	7,211.0	27.2	44.9	94.44	-5,075.1	-1,430.5	4,171.0	4,124.5	46.55	89.601		
8,300.0	7,126.3	7,668.0	7,210.0	27.7	44.9	94.40	-5,075.1	-1,430.5	4,140.6	4,093.5	47.07	87.976		
8,366.1	7,126.2	7,665.9	7,207.8	28.8	44.9	94.31	-5,075.1	-1,430.4	4,078.4	4,030.3	48.14	84.711		
8,400.0	7,126.1	7,664.8	7,206.7	29.3	44.9	94.27	-5,075.2	-1,430.4	4,046.6	3,997.9	48.70	83.096		
8,464.5	7,126.0	7,662.7	7,204.6	30.4	44.9	94.18	-5,075.2	-1,430.4	3,986.0	3,936.3	49.77	80.083		
8,500.0	7,125.9	7,661.5	7,203.4	31.0	44.9	94.13	-5,075.3	-1,430.4	3,952.9	3,902.5	50.36	78.484		
8,563.0	7,125.7	7,659.4	7,201.4	32.0	44.9	94.05	-5,075.3	-1,430.4	3,894.0	3,842.6	51.43	75.709		
8,600.0	7,125.6	7,658.2	7,200.1	32.6	44.9	94.00	-5,075.3	-1,430.4	3,859.4	3,807.4	52.06	74.132		
8,661.4	7,125.5	7,656.2	7,198.1	33.7	44.9	93.91	-5,075.4	-1,430.4	3,802.2	3,749.1	53.12	71.580		
8,700.0	7,125.4	7,654.9	7,196.8	34.4	44.9	93.86	-5,075.4	-1,430.4	3,766.4	3,712.6	53.78	70.028		
8,759.8	7,125.3	7,652.9	7,194.8	35.4	44.9	93.78	-5,075.5	-1,430.4	3,710.8	3,656.0	54.83	67.684		
8,800.0	7,125.2	7,651.6	7,193.5	36.1	44.9	93.72	-5,075.5	-1,430.4	3,673.6	3,618.1	55.53	66.160		
8,858.2	7,125.1	7,649.6	7,191.5	37.1	44.9	93.64	-5,075.6	-1,430.3	3,619.8	3,563.3	56.55	64.007		
8,900.0	7,125.0	7,648.2	7,190.1	37.8	44.9	93.59	-5,075.6	-1,430.3	3,581.3	3,524.0	57.29	62.513		
8,956.7	7,124.8	7,646.3	7,188.2	38.8	44.9	93.51	-5,075.7	-1,430.3	3,529.2	3,470.9	58.30	60.538		
9,000.0	7,124.7	7,644.8	7,186.8	39.6	44.9	93.45	-5,075.7	-1,430.3	3,489.4	3,430.3	59.07	59.075		
9,055.1	7,124.6	7,643.0	7,184.9	40.6	44.9	93.37	-5,075.8	-1,430.3	3,438.9	3,378.9	60.05	57.263		
9,100.0	7,124.5	7,641.4	7,183.4	41.4	44.9	93.31	-5,075.8	-1,430.3	3,397.9	3,337.1	60.86	55.832		
9,153.5	7,124.4	7,639.6	7,181.5	42.3	44.9	93.23	-5,075.9	-1,430.2	3,349.2	3,287.4	61.83	54.171		
9,200.0	7,124.3	7,638.0	7,180.0	43.2	44.9	93.17	-5,075.9	-1,430.2	3,307.0	3,244.3	62.66	52.772		
9,251.9	7,124.2	7,636.2	7,178.2	44.1	44.9	93.10	-5,076.0	-1,430.2	3,259.9	3,196.3	63.61	51.250		
9,300.0	7,124.1	7,634.6	7,176.5	45.0	44.9	93.03	-5,076.0	-1,430.2	3,216.5	3,152.1	64.48	49.884		
9,350.4	7,123.9	7,632.8	7,174.8	45.9	44.9	92.96	-5,076.0	-1,430.2	3,171.2	3,105.8	65.40	48.489		
9,400.0	7,123.8	7,631.1	7,173.1	46.8	44.9	92.88	-5,076.1	-1,430.2	3,126.7	3,060.4	66.31	47.155		
9,448.8	7,123.7	7,629.4	7,171.4	47.7	44.9	92.81	-5,076.1	-1,430.1	3,083.1	3,015.9	67.20	45.878		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												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	
9,500.0	7,123.6	7,627.6	7,169.6	48.6	44.9	92.74	-5,076.2	-1,430.1	3,037.5	2,969.3	68.14	44.576	
9,547.2	7,123.5	7,626.0	7,167.9	49.4	44.9	92.67	-5,076.2	-1,430.1	2,995.6	2,926.6	69.01	43.407	
9,600.0	7,123.4	7,624.1	7,166.1	50.4	44.9	92.60	-5,076.3	-1,430.1	2,948.9	2,879.0	69.98	42.138	
9,645.6	7,123.3	7,622.5	7,164.5	51.2	44.9	92.53	-5,076.3	-1,430.1	2,908.8	2,837.9	70.83	41.069	
9,700.0	7,123.2	7,620.6	7,162.5	52.2	44.9	92.45	-5,076.4	-1,430.0	2,861.2	2,789.3	71.83	39.831	
9,744.1	7,123.1	7,619.0	7,161.0	53.1	44.9	92.39	-5,076.4	-1,430.0	2,822.7	2,750.1	72.65	38.854	
9,800.0	7,122.9	7,617.0	7,159.0	54.1	44.9	92.31	-5,076.5	-1,430.0	2,774.2	2,700.5	73.69	37.649	
9,842.5	7,122.8	7,615.5	7,157.5	54.9	44.9	92.24	-5,076.5	-1,430.0	2,737.5	2,663.0	74.48	36.756	
9,900.0	7,122.7	7,612.8	7,154.7	55.9	44.9	92.13	-5,076.6	-1,429.9	2,688.1	2,612.6	75.55	35.581	
9,940.9	7,122.6	7,610.7	7,152.6	56.7	44.9	92.04	-5,076.7	-1,429.9	2,653.2	2,576.9	76.32	34.766	
10,000.0	7,122.5	7,607.7	7,149.6	57.8	44.9	91.92	-5,076.8	-1,429.9	2,603.1	2,525.7	77.42	33.622	
10,039.3	7,122.4	7,605.7	7,147.7	58.5	44.9	91.84	-5,076.8	-1,429.8	2,569.9	2,491.7	78.16	32.880	
10,100.0	7,122.3	7,602.7	7,144.7	59.6	44.9	91.72	-5,076.9	-1,429.8	2,519.1	2,439.8	79.30	31.768	
10,137.8	7,122.2	7,600.8	7,142.8	60.3	44.9	91.64	-5,077.0	-1,429.8	2,487.7	2,407.7	80.01	31.093	
10,200.0	7,122.0	7,597.8	7,139.8	61.5	44.9	91.51	-5,077.0	-1,429.7	2,436.3	2,355.2	81.18	30.013	
10,236.2	7,121.9	7,596.1	7,138.0	62.2	44.9	91.44	-5,077.1	-1,429.7	2,406.7	2,324.8	81.86	29.401	
10,300.0	7,121.8	7,593.0	7,135.0	63.3	44.9	91.32	-5,077.2	-1,429.6	2,354.9	2,271.8	83.06	28.353	
10,334.6	7,121.7	7,591.4	7,133.3	64.0	44.9	91.25	-5,077.2	-1,429.6	2,327.0	2,243.3	83.71	27.799	
10,400.0	7,121.6	7,588.3	7,130.2	65.2	44.9	91.12	-5,077.3	-1,429.6	2,274.9	2,190.0	84.94	26.782	
10,433.0	7,121.5	7,586.7	7,128.7	65.8	44.9	91.06	-5,077.3	-1,429.5	2,248.9	2,163.3	85.57	26.283	
10,500.0	7,121.4	7,583.6	7,125.6	67.1	44.9	90.93	-5,077.4	-1,429.5	2,196.6	2,109.8	86.83	25.299	
10,531.5	7,121.3	7,582.2	7,124.2	67.7	44.9	90.87	-5,077.5	-1,429.4	2,172.3	2,084.9	87.42	24.849	
10,600.0	7,121.1	7,579.1	7,121.1	69.0	44.8	90.74	-5,077.5	-1,429.4	2,120.1	2,031.4	88.72	23.898	
10,629.9	7,121.1	7,577.7	7,119.7	69.5	44.8	90.69	-5,077.6	-1,429.4	2,097.6	2,008.3	89.28	23.495	
10,700.0	7,120.9	7,574.6	7,116.6	70.8	44.8	90.56	-5,077.7	-1,429.3	2,045.6	1,955.0	90.61	22.577	
10,728.3	7,120.8	7,573.4	7,115.3	71.4	44.8	90.51	-5,077.7	-1,429.3	2,024.9	1,933.8	91.14	22.217	
10,800.0	7,120.7	7,570.2	7,112.2	72.7	44.8	90.38	-5,077.8	-1,429.2	1,973.4	1,880.9	92.50	21.335	
10,826.7	7,120.6	7,569.1	7,111.0	73.2	44.8	90.33	-5,077.8	-1,429.2	1,954.5	1,861.5	93.00	21.015	
10,900.0	7,120.5	7,565.9	7,107.9	74.6	44.8	90.20	-5,077.9	-1,429.1	1,903.7	1,809.3	94.39	20.168	
10,925.2	7,120.4	7,564.8	7,106.8	75.1	44.8	90.16	-5,077.9	-1,429.1	1,886.5	1,791.7	94.87	19.886	
11,000.0	7,120.2	7,561.7	7,103.7	76.5	44.8	90.03	-5,078.0	-1,429.0	1,836.7	1,740.4	96.28	19.076	
11,023.6	7,120.2	7,560.7	7,102.7	76.9	44.8	89.99	-5,078.0	-1,429.0	1,821.4	1,724.6	96.73	18.829	
11,100.0	7,120.0	7,557.5	7,099.5	78.3	44.8	89.85	-5,078.1	-1,428.9	1,772.9	1,674.7	98.18	18.058	
11,122.0	7,120.0	7,556.6	7,098.6	78.8	44.8	89.82	-5,078.1	-1,428.9	1,759.3	1,660.7	98.60	17.844	
11,200.0	7,119.8	7,553.4	7,095.4	80.2	44.8	89.69	-5,078.2	-1,428.8	1,712.5	1,612.5	100.07	17.113	
11,220.4	7,119.7	7,552.6	7,094.6	80.6	44.8	89.65	-5,078.2	-1,428.8	1,700.7	1,600.2	100.46	16.928	
11,300.0	7,119.5	7,549.4	7,091.4	82.1	44.8	89.52	-5,078.3	-1,428.7	1,656.0	1,554.0	101.97	16.240	
11,318.9	7,119.5	7,548.6	7,090.6	82.5	44.8	89.49	-5,078.3	-1,428.7	1,645.8	1,543.5	102.33	16.084	
11,400.0	7,119.3	7,545.4	7,087.4	84.0	44.8	89.36	-5,078.4	-1,428.6	1,603.7	1,499.9	103.87	15.440	
11,417.3	7,119.3	7,544.8	7,086.7	84.3	44.8	89.33	-5,078.4	-1,428.6	1,595.1	1,490.9	104.19	15.309	
11,500.0	7,119.1	7,541.5	7,083.5	85.9	44.8	89.20	-5,078.5	-1,428.5	1,556.1	1,450.3	105.76	14.713	
11,515.7	7,119.1	7,540.9	7,082.9	86.2	44.8	89.17	-5,078.5	-1,428.5	1,549.1	1,443.0	106.06	14.605	
11,600.0	7,118.9	7,537.7	7,079.7	87.8	44.8	89.04	-5,078.6	-1,428.4	1,513.6	1,405.9	107.66	14.059	
11,614.1	7,118.8	7,537.2	7,079.2	88.0	44.8	89.02	-5,078.6	-1,428.4	1,508.0	1,400.1	107.93	13.972	
11,700.0	7,118.6	7,534.0	7,075.9	89.7	44.8	88.88	-5,078.7	-1,428.3	1,476.6	1,367.1	109.56	13.478	
11,712.6	7,118.6	7,533.5	7,075.5	89.9	44.8	88.86	-5,078.7	-1,428.3	1,472.4	1,362.6	109.80	13.410	
11,800.0	7,118.4	7,530.2	7,072.2	91.6	44.8	88.73	-5,078.8	-1,428.2	1,445.7	1,334.2	111.46	12.970	
11,811.0	7,118.4	7,529.8	7,071.8	91.8	44.8	88.71	-5,078.8	-1,428.2	1,442.6	1,331.0	111.67	12.919	
11,900.0	7,118.2	7,526.6	7,068.6	93.4	44.8	88.58	-5,078.9	-1,428.1	1,421.0	1,307.7	113.36	12.536	
11,909.4	7,118.2	7,526.3	7,068.3	93.6	44.8	88.57	-5,078.9	-1,428.0	1,419.1	1,305.5	113.53	12.499	
12,000.0	7,118.0	7,523.0	7,065.0	95.3	44.8	88.43	-5,078.9	-1,427.9	1,403.1	1,287.9	115.25	12.174	
12,007.8	7,118.0	7,522.7	7,064.7	95.5	44.8	88.42	-5,079.0	-1,427.9	1,402.0	1,286.6	115.40	12.149	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Reference Depth (usft)	Offset Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,100.0	7,117.8	7,519.5	7,061.5	97.2	44.8	88.29	-5,079.0	-1,427.8	1,392.2	1,275.0	117.15	11.884	
12,106.3	7,117.7	7,519.3	7,061.3	97.4	44.8	88.28	-5,079.0	-1,427.8	1,391.7	1,274.5	117.27	11.868	
12,200.0	7,117.5	7,516.0	7,058.0	99.1	44.8	88.14	-5,079.1	-1,427.7	1,388.4	1,269.3	119.05	11.662	
12,203.1	7,117.5	7,515.9	7,057.9	99.2	44.8	88.14	-5,079.1	-1,427.7	1,388.4	1,269.3	119.11	11.656 CC	
12,204.7	7,117.5	7,515.9	7,057.9	99.2	44.8	88.14	-5,079.1	-1,427.7	1,388.4	1,269.2	119.14	11.653 ES	
12,300.0	7,117.3	7,512.6	7,054.6	101.0	44.8	88.00	-5,079.2	-1,427.6	1,391.8	1,270.8	120.95	11.507	
12,303.1	7,117.3	7,512.5	7,054.5	101.1	44.8	88.00	-5,079.2	-1,427.6	1,392.0	1,271.0	121.01	11.503	
12,400.0	7,117.1	7,509.2	7,051.2	102.9	44.8	87.86	-5,079.3	-1,427.5	1,402.3	1,279.4	122.85	11.415	
12,401.5	7,117.1	7,509.2	7,051.2	103.0	44.8	87.86	-5,079.3	-1,427.5	1,402.5	1,279.6	122.88	11.414	
12,500.0	7,116.9	7,505.9	7,047.9	104.8	44.8	87.73	-5,079.3	-1,427.4	1,419.8	1,295.0	124.75	11.381 SF	
12,598.4	7,116.6	7,502.7	7,044.7	106.7	44.8	87.59	-5,079.4	-1,427.3	1,443.5	1,316.9	126.62	11.401	
12,600.0	7,116.6	7,502.7	7,044.7	106.7	44.8	87.59	-5,079.4	-1,427.3	1,444.0	1,317.3	126.65	11.402	
12,696.8	7,116.4	7,499.5	7,041.6	108.6	44.8	87.46	-5,079.5	-1,427.2	1,473.5	1,345.0	128.48	11.468	
12,700.0	7,116.4	7,499.4	7,041.5	108.6	44.8	87.46	-5,079.5	-1,427.2	1,474.6	1,346.0	128.54	11.471	
12,795.2	7,116.2	7,496.4	7,038.4	110.4	44.8	87.33	-5,079.5	-1,427.1	1,509.3	1,379.0	130.35	11.579	
12,800.0	7,116.2	7,496.3	7,038.3	110.5	44.8	87.33	-5,079.5	-1,427.0	1,511.2	1,380.7	130.44	11.585	
12,893.7	7,116.0	7,493.3	7,035.4	112.3	44.8	87.21	-5,079.6	-1,426.9	1,550.5	1,418.3	132.22	11.727	
12,900.0	7,116.0	7,493.2	7,035.2	112.4	44.8	87.20	-5,079.6	-1,426.9	1,553.4	1,421.0	132.34	11.738	
12,992.1	7,115.7	7,490.3	7,032.3	114.2	44.8	87.08	-5,079.7	-1,426.8	1,596.8	1,462.7	134.09	11.909	
13,000.0	7,115.7	7,490.1	7,032.1	114.3	44.8	87.07	-5,079.7	-1,426.8	1,600.7	1,466.5	134.24	11.924	
13,090.5	7,115.5	7,487.3	7,029.4	116.1	44.7	86.96	-5,079.7	-1,426.7	1,647.6	1,511.6	135.95	12.119	
13,100.0	7,115.5	7,487.1	7,029.1	116.2	44.7	86.95	-5,079.7	-1,426.7	1,652.7	1,516.6	136.13	12.140	
13,188.9	7,115.3	7,487.0	7,029.0	117.9	44.7	86.95	-5,079.7	-1,426.7	1,702.6	1,564.8	137.82	12.353	
13,200.0	7,115.3	7,487.0	7,029.0	118.1	44.7	86.95	-5,079.7	-1,426.7	1,709.0	1,571.0	138.03	12.381	
13,287.4	7,115.1	7,487.0	7,029.0	119.8	44.7	86.95	-5,079.7	-1,426.7	1,761.4	1,621.7	139.70	12.609	
13,300.0	7,115.1	7,487.0	7,029.0	120.0	44.7	86.95	-5,079.7	-1,426.7	1,769.2	1,629.2	139.94	12.643	
13,385.8	7,114.9	7,487.0	7,029.0	121.7	44.7	86.95	-5,079.7	-1,426.7	1,823.6	1,682.0	141.57	12.881	
13,400.0	7,114.8	7,487.0	7,029.0	121.9	44.7	86.95	-5,079.7	-1,426.7	1,832.8	1,691.0	141.84	12.922	
13,484.2	7,114.6	7,487.0	7,029.0	123.6	44.7	86.95	-5,079.7	-1,426.7	1,888.9	1,745.4	143.44	13.168	
13,500.0	7,114.6	7,487.0	7,029.0	123.9	44.7	86.95	-5,079.7	-1,426.7	1,899.6	1,755.9	143.74	13.215	
13,582.6	7,114.4	7,477.4	7,019.4	125.4	44.7	86.55	-5,080.0	-1,426.3	1,956.9	1,811.6	145.29	13.468	
13,600.0	7,114.4	7,477.0	7,019.1	125.8	44.7	86.54	-5,080.0	-1,426.3	1,969.2	1,823.5	145.62	13.522	
13,681.1	7,114.2	7,475.5	7,017.5	127.3	44.7	86.47	-5,080.0	-1,426.3	2,027.4	1,880.3	147.16	13.777	
13,700.0	7,114.2	7,475.1	7,017.1	127.7	44.7	86.45	-5,080.0	-1,426.3	2,041.3	1,893.8	147.52	13.837	
13,779.5	7,114.0	7,473.5	7,015.6	129.2	44.7	86.39	-5,080.0	-1,426.2	2,100.2	1,951.2	149.03	14.093	
13,800.0	7,113.9	7,473.1	7,015.2	129.6	44.7	86.37	-5,080.0	-1,426.2	2,115.7	1,966.2	149.42	14.159	
13,877.9	7,113.8	7,471.6	7,013.7	131.1	44.7	86.31	-5,080.1	-1,426.1	2,175.0	2,024.1	150.90	14.414	
13,900.0	7,113.7	7,471.2	7,013.2	131.5	44.7	86.29	-5,080.1	-1,426.1	2,192.1	2,040.8	151.32	14.487	
13,976.3	7,113.5	7,469.7	7,011.8	132.9	44.7	86.23	-5,080.1	-1,426.1	2,251.7	2,098.9	152.77	14.739	
14,000.0	7,113.5	7,469.3	7,011.3	133.4	44.7	86.22	-5,080.1	-1,426.0	2,270.3	2,117.1	153.22	14.818	
14,074.8	7,113.3	7,467.8	7,009.9	134.8	44.7	86.16	-5,080.2	-1,426.0	2,329.9	2,175.3	154.63	15.067	
14,100.0	7,113.3	7,467.4	7,009.4	135.3	44.7	86.14	-5,080.2	-1,426.0	2,350.2	2,195.1	155.11	15.152	
14,173.2	7,113.1	7,466.0	7,008.0	136.7	44.7	86.08	-5,080.2	-1,425.9	2,409.6	2,253.1	156.50	15.397	
14,200.0	7,113.0	7,465.5	7,007.5	137.2	44.7	86.06	-5,080.2	-1,425.9	2,431.6	2,274.6	157.01	15.487	
14,219.1	7,113.0	7,465.1	7,007.1	137.6	44.7	86.04	-5,080.2	-1,425.9	2,447.3	2,289.9	157.37	15.551	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												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	171.85	-5,118.5	733.5	5,170.8				
98.4	98.4	85.3	85.3	0.1	0.1	171.85	-5,118.5	733.4	5,170.8	5,170.6	0.18	N/A	
100.0	100.0	86.9	86.9	0.1	0.1	171.85	-5,118.5	733.4	5,170.8	5,170.6	0.18	N/A	
196.8	196.8	186.6	186.6	0.3	0.2	171.85	-5,118.5	733.0	5,170.7	5,170.2	0.50	N/A	
200.0	200.0	189.8	189.8	0.3	0.2	171.85	-5,118.5	733.0	5,170.7	5,170.2	0.51	N/A	
295.3	295.3	287.9	287.9	0.5	0.3	171.86	-5,118.4	732.4	5,170.6	5,169.7	0.82	6,326.945	
300.0	300.0	292.7	292.7	0.5	0.3	171.86	-5,118.4	732.4	5,170.5	5,169.7	0.83	6,210.158	
366.5	366.5	351.0	351.0	0.7	0.3	171.86	-5,118.4	731.9	5,170.4	5,169.4	1.04	4,976.570	
393.7	393.7	351.0	351.0	0.8	0.3	171.86	-5,118.4	731.9	5,170.5	5,169.4	1.10	4,700.072	
400.0	400.0	351.0	351.0	0.8	0.3	171.86	-5,118.4	731.9	5,170.5	5,169.4	1.11	4,640.376	
492.1	492.1	430.0	430.0	1.0	0.5	171.88	-5,118.8	730.8	5,170.9	5,169.4	1.50	3,450.938	
500.0	500.0	434.6	434.6	1.0	0.5	171.88	-5,118.9	730.7	5,171.0	5,169.5	1.53	3,387.707	
590.5	590.5	479.0	479.0	1.2	0.6	171.89	-5,119.6	729.6	5,172.2	5,170.4	1.83	2,827.304	
600.0	600.0	479.0	479.0	1.2	0.6	171.89	-5,119.6	729.6	5,172.4	5,170.6	1.85	2,794.953	
689.0	689.0	536.7	536.6	1.4	0.8	171.92	-5,121.1	727.4	5,174.4	5,172.2	2.19	2,364.637	
700.0	700.0	542.4	542.3	1.4	0.8	171.92	-5,121.3	727.1	5,174.7	5,172.4	2.23	2,324.184	
787.4	787.4	607.0	606.7	1.6	0.9	171.96	-5,124.0	723.4	5,177.5	5,174.9	2.58	2,009.133	
800.0	800.0	607.0	606.7	1.7	0.9	171.96	-5,124.0	723.4	5,177.9	5,175.3	2.61	1,987.453	
885.8	885.8	628.1	627.8	1.9	1.0	171.98	-5,125.2	721.9	5,181.4	5,178.6	2.85	1,816.362	
900.0	900.0	633.2	632.8	1.9	1.0	171.99	-5,125.5	721.6	5,182.1	5,179.2	2.90	1,788.450	
984.2	984.2	649.0	648.6	2.1	1.0	172.00	-5,126.4	720.5	5,186.7	5,183.6	3.13	1,658.370	
1,000.0	1,000.0	649.0	648.6	2.1	1.0	172.00	-5,126.4	720.5	5,187.7	5,184.5	3.16	1,640.125	
1,082.7	1,082.7	707.3	706.5	2.3	1.2	172.05	-5,130.7	716.1	5,192.9	5,189.4	3.50	1,483.939	
1,100.0	1,100.0	731.0	730.1	2.3	1.3	172.08	-5,132.7	714.2	5,194.2	5,190.6	3.60	1,442.901	
1,181.1	1,181.1	731.0	730.1	2.5	1.3	172.08	-5,132.7	714.2	5,200.4	5,196.6	3.78	1,374.988	
1,200.0	1,200.0	731.0	730.1	2.6	1.3	172.08	-5,132.7	714.2	5,202.0	5,198.2	3.82	1,360.138	
1,279.5	1,279.5	797.6	796.1	2.7	1.5	172.15	-5,139.0	708.3	5,208.7	5,204.5	4.19	1,242.508	
1,300.0	1,300.0	807.3	805.7	2.8	1.5	172.16	-5,140.0	707.4	5,210.5	5,206.3	4.27	1,221.533	
1,377.9	1,377.9	859.0	856.8	3.0	1.7	176.50	-5,145.8	702.2	5,219.1	5,214.5	4.60	1,133.390	
1,400.0	1,400.0	859.0	856.8	3.0	1.7	176.50	-5,145.8	702.2	5,221.9	5,217.3	4.66	1,121.562	
1,476.4	1,476.3	859.0	856.8	3.2	1.7	176.49	-5,145.8	702.2	5,233.9	5,229.0	4.83	1,082.831	
1,500.0	1,499.8	896.6	893.9	3.2	1.8	176.53	-5,150.4	698.0	5,237.9	5,232.8	5.01	1,045.266	
1,574.8	1,574.4	927.4	924.2	3.4	1.9	176.56	-5,154.5	694.3	5,252.7	5,247.4	5.28	994.136	
1,600.0	1,599.5	937.7	934.3	3.5	2.0	176.57	-5,155.9	693.0	5,258.3	5,252.9	5.37	978.395	
1,673.2	1,672.2	987.0	982.6	3.6	2.2	176.64	-5,163.2	686.5	5,276.1	5,270.4	5.70	925.496	
1,700.0	1,698.7	987.0	982.6	3.7	2.2	176.63	-5,163.2	686.5	5,283.1	5,277.4	5.76	917.134	
1,771.6	1,769.5	987.0	982.6	3.9	2.2	176.61	-5,163.2	686.5	5,303.7	5,297.8	5.92	895.696	
1,800.0	1,797.5	1,025.2	1,019.9	4.0	2.3	176.67	-5,169.2	681.0	5,312.3	5,306.2	6.12	867.751	
1,870.1	1,866.3	1,059.0	1,052.9	4.2	2.5	176.71	-5,174.8	675.9	5,335.2	5,328.8	6.40	833.752	
1,900.1	1,895.8	1,073.3	1,066.8	4.3	2.5	176.73	-5,177.3	673.7	5,345.7	5,339.2	6.52	820.438	
1,968.5	1,962.6	1,116.0	1,108.3	4.5	2.7	176.83	-5,184.8	666.7	5,370.1	5,363.3	6.83	786.050	
2,000.0	1,993.4	1,116.0	1,108.3	4.6	2.7	176.83	-5,184.8	666.7	5,381.5	5,374.6	6.91	779.211	
2,066.9	2,058.9	1,116.0	1,108.3	4.8	2.7	176.83	-5,184.8	666.7	5,406.1	5,399.1	7.07	764.569	
2,100.0	2,091.3	1,162.4	1,153.2	4.9	3.0	176.93	-5,193.4	658.8	5,418.2	5,410.8	7.33	738.918	
2,165.3	2,155.2	1,189.9	1,179.7	5.1	3.1	177.00	-5,198.7	654.0	5,442.6	5,435.0	7.60	716.175	
2,200.0	2,189.1	1,204.3	1,193.6	5.3	3.2	177.04	-5,201.5	651.4	5,455.7	5,448.0	7.74	704.469	
2,263.8	2,251.4	1,244.0	1,231.8	5.5	3.4	177.13	-5,209.6	644.0	5,480.2	5,472.1	8.06	679.865	
2,300.0	2,286.9	1,244.0	1,231.8	5.6	3.4	177.13	-5,209.6	644.0	5,494.2	5,486.0	8.15	674.094	
2,362.2	2,347.7	1,291.6	1,277.4	5.9	3.7	177.25	-5,219.6	635.0	5,518.4	5,509.9	8.51	648.519	
2,400.0	2,384.7	1,318.6	1,303.2	6.0	3.8	177.32	-5,225.3	629.7	5,533.2	5,524.5	8.72	634.567	
2,460.6	2,444.0	1,373.0	1,355.3	6.3	4.1	177.47	-5,237.0	618.9	5,557.1	5,548.0	9.11	610.219	
2,500.0	2,482.5	1,373.0	1,355.3	6.4	4.1	177.47	-5,237.0	618.9	5,572.6	5,563.4	9.21	605.357	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												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	
2,559.0	2,540.3	1,373.0	1,355.3	6.6	4.1	177.47	-5,237.0	618.9	5,596.5	5,587.1	9.35	598.261	
2,600.0	2,580.3	1,422.7	1,402.6	6.8	4.5	177.60	-5,248.0	608.4	5,612.8	5,603.1	9.69	579.090	
2,617.6	2,597.5	1,429.7	1,409.3	6.9	4.5	177.62	-5,249.6	606.8	5,619.9	5,610.2	9.77	575.183	
2,657.5	2,636.6	1,445.6	1,424.3	7.0	4.6	177.68	-5,253.2	603.3	5,636.0	5,626.0	9.95	566.306	
2,700.0	2,678.4	1,462.5	1,440.2	7.2	4.7	177.74	-5,257.2	599.4	5,652.7	5,642.6	10.15	557.154	
2,755.9	2,733.5	1,501.0	1,476.5	7.3	5.0	177.88	-5,266.5	590.2	5,674.1	5,663.6	10.46	542.342	
2,800.0	2,777.0	1,501.0	1,476.5	7.4	5.0	177.89	-5,266.5	590.2	5,690.4	5,679.8	10.56	538.858	
2,854.3	2,830.9	1,501.0	1,476.5	7.6	5.0	177.90	-5,266.5	590.2	5,709.9	5,699.2	10.68	534.822	
2,900.0	2,876.2	1,501.0	1,476.5	7.7	5.0	177.92	-5,266.5	590.2	5,726.0	5,715.2	10.77	531.591	
2,952.7	2,928.7	1,550.0	1,522.3	7.8	5.3	178.07	-5,278.9	578.1	5,743.5	5,732.3	11.14	515.457	
3,000.0	2,975.8	1,564.9	1,536.2	7.9	5.4	178.13	-5,282.8	574.5	5,758.8	5,747.5	11.32	508.934	
3,051.2	3,026.8	1,581.1	1,551.3	8.0	5.5	178.19	-5,287.1	570.5	5,774.9	5,763.4	11.50	502.232	
3,100.0	3,075.6	1,629.0	1,595.7	8.1	5.8	178.33	-5,300.5	558.5	5,790.0	5,778.2	11.85	488.732	
3,149.6	3,125.2	1,629.0	1,595.7	8.2	5.8	178.34	-5,300.5	558.5	5,804.3	5,792.4	11.93	486.448	
3,200.0	3,175.6	1,629.0	1,595.7	8.3	5.8	178.35	-5,300.5	558.5	5,818.4	5,806.3	12.02	484.256	
3,217.7	3,193.3	1,643.8	1,609.5	8.3	5.9	174.11	-5,304.7	554.8	5,823.2	5,811.1	12.13	480.133	
3,248.0	3,223.6	1,673.1	1,636.5	8.4	6.1	174.19	-5,313.1	547.5	5,831.4	5,819.0	12.34	472.574	
3,300.0	3,275.6	1,723.3	1,683.0	8.5	6.5	174.34	-5,327.4	535.0	5,845.4	5,832.7	12.70	460.207	
3,346.4	3,322.0	1,758.0	1,715.1	8.6	6.7	174.43	-5,337.3	526.3	5,857.9	5,844.9	12.98	451.274	
3,400.0	3,375.6	1,758.0	1,715.1	8.7	6.7	174.43	-5,337.3	526.3	5,872.7	5,859.6	13.10	448.455	
3,444.9	3,420.4	1,800.6	1,754.4	8.7	7.0	174.56	-5,349.7	515.3	5,885.0	5,871.6	13.44	438.004	
3,500.0	3,475.6	1,822.0	1,773.9	8.8	7.2	174.62	-5,356.0	509.6	5,900.7	5,887.0	13.68	431.455	
3,543.3	3,518.9	1,838.6	1,789.1	8.9	7.3	174.67	-5,361.0	505.0	5,913.1	5,899.3	13.86	426.502	
3,600.0	3,575.6	1,886.0	1,832.1	9.0	7.7	174.82	-5,375.7	491.5	5,929.8	5,915.6	14.26	415.965	
3,641.7	3,617.3	1,886.0	1,832.1	9.1	7.7	174.82	-5,375.7	491.5	5,942.1	5,927.8	14.35	414.212	
3,700.0	3,675.6	1,886.0	1,832.1	9.2	7.7	174.82	-5,375.7	491.5	5,959.8	5,945.3	14.47	411.832	
3,740.1	3,715.7	1,886.0	1,832.1	9.3	7.7	174.82	-5,375.7	491.5	5,972.2	5,957.6	14.56	410.231	
3,800.0	3,775.6	1,944.0	1,884.4	9.4	8.2	175.01	-5,394.1	474.5	5,990.6	5,975.5	15.06	397.697	
3,838.6	3,814.1	1,960.9	1,899.6	9.5	8.3	175.06	-5,399.6	469.5	6,002.7	5,987.5	15.26	393.474	
3,900.0	3,875.6	2,015.0	1,948.0	9.6	8.8	175.24	-5,417.5	453.3	6,022.5	6,006.7	15.74	382.692	
3,937.0	3,912.6	2,015.0	1,948.0	9.7	8.8	175.24	-5,417.5	453.3	6,034.3	6,018.5	15.82	381.498	
4,000.0	3,975.6	2,036.9	1,967.6	9.8	9.0	175.31	-5,424.8	446.7	6,054.9	6,038.8	16.10	376.010	
4,035.4	4,011.0	2,057.7	1,986.1	9.9	9.2	175.38	-5,431.9	440.3	6,066.6	6,050.3	16.32	371.691	
4,100.0	4,075.6	2,095.5	2,019.6	10.0	9.5	175.51	-5,444.7	428.4	6,088.1	6,071.4	16.72	364.183	
4,133.8	4,109.4	2,115.1	2,036.9	10.0	9.7	175.58	-5,451.4	422.0	6,099.5	6,082.6	16.92	360.422	
4,200.0	4,175.6	2,156.9	2,073.6	10.2	10.1	175.73	-5,465.7	408.2	6,121.9	6,104.6	17.35	352.766	
4,232.3	4,207.8	2,182.2	2,095.8	10.2	10.3	175.82	-5,474.4	399.8	6,132.9	6,115.3	17.61	348.360	
4,300.0	4,275.6	2,235.2	2,142.4	10.4	10.9	176.01	-5,492.7	382.1	6,156.2	6,138.0	18.13	339.553	
4,330.7	4,306.3	3,417.7	3,159.4	10.4	22.3	-178.93	-5,787.3	-133.3	6,166.7	6,138.9	27.81	221.744	
4,400.0	4,375.6	3,941.0	3,624.2	10.6	26.6	-176.78	-5,848.5	-365.0	6,175.9	6,143.9	32.00	192.976	
4,429.1	4,404.7	3,985.3	3,664.4	10.6	27.0	-176.61	-5,852.0	-383.2	6,179.1	6,146.7	32.40	190.717	
4,500.0	4,475.6	4,015.3	3,691.6	10.8	27.2	-176.50	-5,854.6	-395.7	6,187.7	6,154.9	32.78	188.773	
4,527.5	4,503.1	4,026.9	3,702.1	10.8	27.3	-176.45	-5,855.6	-400.6	6,191.1	6,158.2	32.93	188.036	
4,600.0	4,575.6	4,069.0	3,739.9	11.0	27.7	-176.29	-5,859.5	-418.6	6,200.6	6,167.2	33.40	185.667	
4,626.0	4,601.5	4,069.0	3,739.9	11.0	27.7	-176.29	-5,859.5	-418.6	6,204.1	6,170.6	33.45	185.456	
4,700.0	4,675.6	4,106.0	3,773.0	11.2	28.0	-176.14	-5,863.1	-434.8	6,214.4	6,180.5	33.93	183.171	
4,724.4	4,700.0	4,118.5	3,784.1	11.2	28.1	-176.09	-5,864.3	-440.4	6,217.9	6,183.8	34.08	182.425	
4,800.0	4,775.6	4,156.7	3,817.9	11.4	28.5	-175.93	-5,868.2	-457.7	6,229.1	6,194.5	34.57	180.186	
4,822.8	4,798.4	4,168.2	3,828.0	11.4	28.6	-175.88	-5,869.4	-463.0	6,232.6	6,197.9	34.72	179.531	
4,900.0	4,875.6	4,219.2	3,872.8	11.6	29.1	-175.66	-5,874.8	-486.8	6,244.6	6,209.3	35.32	176.788	
4,921.2	4,896.8	4,243.6	3,894.1	11.6	29.3	-175.56	-5,877.3	-498.4	6,248.0	6,212.4	35.59	175.571	
5,000.0	4,975.6	4,326.0	3,966.0	11.8	30.1	-175.20	-5,885.6	-537.8	6,260.4	6,224.0	36.49	171.561	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												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	
5,019.7	4,995.2	4,326.0	3,966.0	11.8	30.1	-175.20	-5,885.6	-537.8	6,263.6	6,227.1	36.53	171.444	
5,100.0	5,075.6	4,383.9	4,016.5	12.0	30.7	-174.95	-5,891.6	-565.5	6,276.7	6,239.5	37.20	168.744	
5,118.1	5,093.7	4,393.8	4,025.2	12.0	30.8	-174.91	-5,892.6	-570.2	6,279.7	6,242.4	37.32	168.270	
5,200.0	5,175.6	4,454.0	4,078.0	12.2	31.3	-174.65	-5,899.3	-598.3	6,293.7	6,255.7	38.00	165.608	
5,216.5	5,192.1	4,454.0	4,078.0	12.2	31.3	-174.65	-5,899.3	-598.3	6,296.6	6,258.5	38.04	165.525	
5,300.0	5,275.6	4,490.0	4,109.7	12.4	31.7	-174.50	-5,903.5	-615.0	6,311.5	6,273.0	38.50	163.931	
5,314.9	5,290.5	4,497.5	4,116.2	12.4	31.7	-174.47	-5,904.4	-618.4	6,314.2	6,275.6	38.59	163.618	
5,400.0	5,375.6	4,540.1	4,153.7	12.6	32.1	-174.30	-5,909.7	-637.8	6,330.1	6,291.0	39.11	161.872	
5,413.4	5,388.9	4,546.8	4,159.6	12.6	32.2	-174.27	-5,910.5	-640.9	6,332.7	6,293.5	39.19	161.603	
5,500.0	5,475.6	4,597.8	4,204.6	12.8	32.6	-174.07	-5,917.2	-663.9	6,349.6	6,309.8	39.78	159.635	
5,511.8	5,487.4	4,609.8	4,215.2	12.8	32.7	-174.02	-5,918.8	-669.4	6,351.9	6,312.0	39.90	159.200	
5,600.0	5,575.6	4,698.9	4,293.5	13.0	33.6	-173.65	-5,930.3	-710.5	6,369.4	6,328.6	40.81	156.066	
5,610.2	5,585.8	4,709.2	4,302.5	13.0	33.7	-173.61	-5,931.6	-715.3	6,371.5	6,330.5	40.92	155.716	
5,700.0	5,675.6	4,759.1	4,346.0	13.2	34.2	-173.40	-5,937.9	-738.9	6,389.6	6,348.1	41.55	153.790	
5,708.6	5,684.2	4,763.9	4,350.1	13.2	34.3	-173.38	-5,938.5	-741.1	6,391.4	6,349.8	41.61	153.612	
5,800.0	5,775.6	4,813.4	4,393.1	13.4	34.8	-173.17	-5,945.0	-764.9	6,410.6	6,368.3	42.24	151.776	
5,807.1	5,782.6	4,839.0	4,415.3	13.4	35.0	-173.07	-5,948.5	-777.2	6,412.1	6,369.7	42.47	150.970	
5,900.0	5,875.6	4,881.7	4,452.1	13.6	35.5	-172.88	-5,954.2	-798.0	6,432.2	6,389.2	43.06	149.382	
5,905.5	5,881.1	4,886.1	4,456.0	13.6	35.5	-172.86	-5,954.8	-800.2	6,433.4	6,390.3	43.11	149.231	
6,000.0	5,975.6	4,962.4	4,521.6	13.8	36.4	-172.54	-5,965.0	-837.7	6,454.3	6,410.3	44.00	146.704	
6,003.9	5,979.5	4,968.0	4,526.4	13.8	36.4	-172.51	-5,965.7	-840.5	6,455.2	6,411.1	44.05	146.531	
6,100.0	6,075.6	5,124.6	4,661.6	14.0	38.0	-171.85	-5,985.8	-916.8	6,476.1	6,430.6	45.57	142.102	
6,102.3	6,077.9	5,126.7	4,663.5	14.0	38.0	-171.84	-5,986.1	-917.9	6,476.6	6,431.0	45.60	142.045	
6,200.0	6,175.6	5,217.9	4,743.3	14.2	38.9	-171.48	-5,997.8	-960.2	6,497.8	6,451.3	46.51	139.699	
6,200.8	6,176.3	5,218.6	4,744.0	14.2	38.9	-171.48	-5,997.9	-960.6	6,498.0	6,451.5	46.52	139.680	
6,299.2	6,274.8	5,320.5	4,834.1	14.4	39.8	-171.09	-6,011.3	-1,006.2	6,519.5	6,472.0	47.48	137.312	
6,300.0	6,275.6	5,321.4	4,834.8	14.4	39.8	-171.08	-6,011.4	-1,006.6	6,519.7	6,472.2	47.49	137.293	
6,397.6	6,373.2	5,417.7	4,920.6	14.7	40.7	-170.73	-6,024.2	-1,048.7	6,541.1	6,492.7	48.38	135.193	
6,400.0	6,375.6	5,420.0	4,922.6	14.7	40.7	-170.72	-6,024.5	-1,049.7	6,541.6	6,493.2	48.40	135.145	
6,436.2	6,411.8	5,455.0	4,953.9	14.7	41.0	-170.59	-6,029.1	-1,064.7	6,549.6	6,500.8	48.73	134.410	
6,450.0	6,425.6	5,468.4	4,965.8	14.8	41.1	9.21	-6,030.9	-1,070.4	6,552.5	6,503.6	48.81	134.244	
6,496.0	6,471.5	6,187.3	5,633.5	14.8	46.2	11.23	-6,103.7	-1,319.8	6,557.7	6,504.9	52.82	124.158	
6,500.0	6,475.5	6,189.0	5,635.2	14.8	46.2	11.23	-6,103.8	-1,320.2	6,557.9	6,505.1	52.82	124.162	
6,550.0	6,525.1	7,118.2	6,555.9	14.9	48.4	12.25	-6,140.1	-1,416.9	6,555.4	6,501.2	54.25	120.831	
6,594.5	6,568.7	7,184.8	6,622.5	14.9	48.4	12.43	-6,139.4	-1,417.4	6,546.8	6,493.0	53.83	121.630	
6,600.0	6,574.1	7,191.8	6,629.5	14.9	48.4	12.46	-6,139.3	-1,417.4	6,545.5	6,491.8	53.76	121.762	
6,650.0	6,622.4	7,254.5	6,692.2	14.9	48.4	12.73	-6,138.5	-1,417.5	6,532.2	6,479.2	52.99	123.281	
6,692.9	6,663.0	7,279.0	6,716.7	14.9	48.4	13.01	-6,138.2	-1,417.5	6,518.2	6,466.1	52.11	125.096	
6,700.0	6,669.6	7,279.0	6,716.7	14.9	48.4	13.06	-6,138.2	-1,417.5	6,515.7	6,463.7	51.94	125.445	
6,750.0	6,715.6	7,322.2	6,759.9	14.9	48.5	13.49	-6,137.7	-1,417.4	6,496.0	6,445.3	50.65	128.241	
6,791.3	6,752.5	7,343.7	6,781.4	14.9	48.5	13.91	-6,137.5	-1,417.2	6,477.5	6,428.1	49.41	131.089	
6,800.0	6,760.1	7,348.1	6,785.8	14.9	48.5	14.00	-6,137.5	-1,417.2	6,473.4	6,424.2	49.13	131.751	
6,850.0	6,802.9	7,369.3	6,807.0	14.9	48.5	14.61	-6,137.4	-1,417.1	6,447.9	6,400.5	47.40	136.029	
6,889.7	6,835.6	7,392.3	6,830.0	14.9	48.5	15.20	-6,137.4	-1,416.9	6,425.7	6,379.8	45.89	140.025	
6,900.0	6,843.8	7,397.1	6,834.8	14.9	48.5	15.36	-6,137.4	-1,416.8	6,419.7	6,374.3	45.48	141.147	
6,950.0	6,882.6	7,407.0	6,844.7	14.9	48.5	16.23	-6,137.4	-1,416.7	6,389.0	6,345.6	43.41	147.187	
6,988.2	6,910.7	7,439.7	6,877.4	15.0	48.5	17.06	-6,137.6	-1,416.4	6,363.8	6,322.0	41.75	152.431	
7,000.0	6,919.1	7,445.2	6,882.9	15.0	48.5	17.34	-6,137.6	-1,416.3	6,355.7	6,314.4	41.22	154.174	
7,050.0	6,953.1	7,467.6	6,905.3	15.0	48.5	18.66	-6,137.7	-1,416.1	6,320.1	6,281.1	38.99	162.112	
7,086.6	6,976.4	7,483.0	6,920.7	15.1	48.5	19.80	-6,137.9	-1,415.9	6,292.6	6,255.2	37.36	168.421	
7,100.0	6,984.5	7,488.4	6,926.1	15.1	48.5	20.27	-6,137.9	-1,415.9	6,282.3	6,245.5	36.78	170.810	
7,150.0	7,013.1	7,507.5	6,945.1	15.3	48.6	22.26	-6,138.1	-1,415.7	6,242.5	6,207.8	34.73	179.756	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												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	
7,185.0	7,031.4	7,536.0	6,973.7	15.4	48.6	24.03	-6,138.5	-1,415.4	6,213.6	6,180.1	33.49	185.522	
7,200.0	7,038.8	7,536.0	6,973.7	15.4	48.6	24.81	-6,138.5	-1,415.4	6,200.9	6,167.9	33.02	187.766	
7,250.0	7,061.4	7,543.1	6,980.8	15.6	48.6	27.93	-6,138.6	-1,415.3	6,157.7	6,125.8	31.91	192.997	
7,283.4	7,074.8	7,559.4	6,997.1	15.8	48.6	30.62	-6,138.8	-1,415.1	6,127.9	6,096.2	31.69	193.364	
7,300.0	7,080.9	7,566.8	7,004.5	15.9	48.6	32.14	-6,138.9	-1,415.0	6,113.0	6,081.2	31.78	192.365	
7,350.0	7,097.1	7,586.6	7,024.3	16.2	48.6	37.71	-6,139.1	-1,414.8	6,067.1	6,034.1	33.00	183.827	
7,381.9	7,105.7	7,597.2	7,034.8	16.4	48.6	42.22	-6,139.3	-1,414.6	6,037.2	6,002.6	34.61	174.429	
7,400.0	7,109.9	7,602.5	7,040.1	16.6	48.6	45.19	-6,139.3	-1,414.6	6,020.1	5,984.3	35.80	168.155	
7,450.0	7,119.4	7,614.3	7,052.0	17.0	48.6	55.25	-6,139.5	-1,414.4	5,972.4	5,932.5	39.90	149.682	
7,480.3	7,123.4	7,619.5	7,057.1	17.2	48.6	62.85	-6,139.5	-1,414.3	5,943.2	5,900.7	42.57	139.603	
7,500.0	7,125.4	7,622.0	7,059.7	17.4	48.6	68.41	-6,139.6	-1,414.3	5,924.2	5,880.1	44.12	134.274	
7,550.0	7,127.9	7,625.7	7,063.4	17.9	48.6	84.22	-6,139.6	-1,414.2	5,875.6	5,829.4	46.25	127.029	
7,562.9	7,128.0	7,626.0	7,063.7	18.0	48.6	88.50	-6,139.6	-1,414.2	5,863.1	5,816.9	46.20	126.906	
7,578.7	7,128.0	7,626.2	7,063.9	18.2	48.6	88.51	-6,139.6	-1,414.2	5,847.7	5,801.4	46.36	126.130	
7,600.0	7,127.9	7,626.4	7,064.1	18.4	48.6	88.52	-6,139.6	-1,414.2	5,827.0	5,780.5	46.58	125.096	
7,677.1	7,127.7	7,627.3	7,065.0	19.2	48.6	88.55	-6,139.6	-1,414.2	5,752.1	5,704.6	47.44	121.245	
7,700.0	7,127.7	7,627.6	7,065.2	19.5	48.6	88.56	-6,139.6	-1,414.2	5,729.9	5,682.2	47.70	120.131	
7,775.6	7,127.5	7,628.4	7,066.1	20.3	48.6	88.60	-6,139.7	-1,414.2	5,656.5	5,608.0	48.49	116.645	
7,800.0	7,127.5	7,628.7	7,066.4	20.5	48.6	88.61	-6,139.7	-1,414.2	5,632.8	5,584.1	48.75	115.542	
7,874.0	7,127.3	7,629.5	7,067.2	21.4	48.6	88.65	-6,139.7	-1,414.2	5,561.1	5,511.5	49.61	112.102	
7,900.0	7,127.2	7,629.8	7,067.5	21.7	48.6	88.66	-6,139.7	-1,414.2	5,535.9	5,486.0	49.91	110.921	
7,972.4	7,127.1	7,630.6	7,068.3	22.7	48.6	88.69	-6,139.7	-1,414.2	5,465.8	5,414.8	50.92	107.337	
8,000.0	7,127.0	7,630.9	7,068.6	23.1	48.6	88.71	-6,139.7	-1,414.2	5,439.1	5,387.8	51.31	106.010	
8,070.8	7,126.8	7,631.7	7,069.4	24.2	48.6	88.74	-6,139.7	-1,414.1	5,370.5	5,318.2	52.35	102.594	
8,100.0	7,126.8	7,632.1	7,069.7	24.6	48.6	88.75	-6,139.7	-1,414.1	5,342.4	5,289.6	52.78	101.227	
8,169.3	7,126.6	7,632.8	7,070.5	25.6	48.6	88.78	-6,139.7	-1,414.1	5,275.4	5,221.6	53.83	97.995	
8,200.0	7,126.6	7,633.2	7,070.8	26.1	48.6	88.80	-6,139.7	-1,414.1	5,245.8	5,191.5	54.30	96.602	
8,267.7	7,126.4	7,633.9	7,071.6	27.2	48.6	88.83	-6,139.7	-1,414.1	5,180.5	5,125.1	55.37	93.561	
8,300.0	7,126.3	7,634.3	7,071.9	27.7	48.6	88.84	-6,139.7	-1,414.1	5,149.3	5,093.4	55.88	92.152	
8,366.1	7,126.2	7,635.0	7,072.7	28.8	48.6	88.87	-6,139.7	-1,414.1	5,085.6	5,028.7	56.95	89.303	
8,400.0	7,126.1	7,635.4	7,073.0	29.3	48.6	88.89	-6,139.7	-1,414.1	5,053.0	4,995.5	57.50	87.885	
8,464.5	7,126.0	7,636.1	7,073.7	30.4	48.6	88.92	-6,139.7	-1,414.1	4,990.9	4,932.3	58.56	85.226	
8,500.0	7,125.9	7,636.5	7,074.1	31.0	48.6	88.94	-6,139.7	-1,414.1	4,956.8	4,897.7	59.15	83.806	
8,563.0	7,125.7	7,637.2	7,074.8	32.0	48.6	88.96	-6,139.8	-1,414.1	4,896.3	4,836.1	60.20	81.329	
8,600.0	7,125.6	7,637.6	7,075.2	32.6	48.6	88.98	-6,139.8	-1,414.1	4,860.8	4,800.0	60.83	79.913	
8,661.4	7,125.5	7,638.2	7,075.9	33.7	48.6	89.01	-6,139.8	-1,414.1	4,801.9	4,740.0	61.87	77.609	
8,700.0	7,125.4	7,638.7	7,076.3	34.4	48.6	89.03	-6,139.8	-1,414.0	4,764.9	4,702.4	62.53	76.201	
8,759.8	7,125.3	7,639.3	7,077.0	35.4	48.6	89.05	-6,139.8	-1,414.0	4,707.7	4,644.1	63.56	74.062	
8,800.0	7,125.2	7,639.7	7,077.4	36.1	48.6	89.07	-6,139.8	-1,414.0	4,669.2	4,605.0	64.26	72.665	
8,858.2	7,125.1	7,640.4	7,078.0	37.1	48.6	89.10	-6,139.8	-1,414.0	4,613.6	4,548.3	65.27	70.681	
8,900.0	7,125.0	7,640.8	7,078.5	37.8	48.6	89.12	-6,139.8	-1,414.0	4,573.7	4,507.7	66.00	69.297	
8,956.7	7,124.8	7,641.4	7,079.1	38.8	48.6	89.14	-6,139.8	-1,414.0	4,519.7	4,452.7	67.00	67.458	
9,000.0	7,124.7	7,641.9	7,079.6	39.6	48.6	89.16	-6,139.8	-1,414.0	4,478.4	4,410.7	67.76	66.090	
9,055.1	7,124.6	7,642.5	7,080.2	40.6	48.6	89.19	-6,139.8	-1,414.0	4,426.0	4,357.3	68.74	64.387	
9,100.0	7,124.5	7,643.0	7,080.6	41.4	48.6	89.21	-6,139.8	-1,414.0	4,383.3	4,313.8	69.54	63.036	
9,153.5	7,124.4	7,643.5	7,081.2	42.3	48.6	89.23	-6,139.8	-1,414.0	4,332.5	4,262.0	70.49	61.460	
9,200.0	7,124.3	7,644.0	7,081.7	43.2	48.6	89.25	-6,139.8	-1,414.0	4,288.5	4,217.1	71.32	60.126	
9,251.9	7,124.2	7,644.6	7,082.3	44.1	48.6	89.27	-6,139.8	-1,414.0	4,239.3	4,167.0	72.26	58.668	
9,300.0	7,124.1	7,645.1	7,082.8	45.0	48.6	89.30	-6,139.9	-1,414.0	4,193.8	4,120.7	73.12	57.354	
9,350.4	7,123.9	7,645.6	7,083.3	45.9	48.6	89.32	-6,139.9	-1,413.9	4,146.2	4,072.2	74.03	56.006	
9,400.0	7,123.8	7,646.2	7,083.8	46.8	48.6	89.34	-6,139.9	-1,413.9	4,099.4	4,024.5	74.93	54.711	
9,448.8	7,123.7	7,646.7	7,084.3	47.7	48.6	89.36	-6,139.9	-1,413.9	4,053.5	3,977.7	75.81	53.466	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												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	
9,500.0	7,123.6	7,647.2	7,084.9	48.6	48.6	89.38	-6,139.9	-1,413.9	4,005.3	3,928.6	76.74	52.191	
9,547.2	7,123.5	7,647.7	7,085.4	49.4	48.6	89.41	-6,139.9	-1,413.9	3,961.0	3,883.4	77.61	51.040	
9,600.0	7,123.4	7,648.3	7,085.9	50.4	48.6	89.43	-6,139.9	-1,413.9	3,911.5	3,832.9	78.57	49.785	
9,645.6	7,123.3	7,648.8	7,086.4	51.2	48.6	89.45	-6,139.9	-1,413.9	3,868.8	3,789.4	79.40	48.724	
9,700.0	7,123.2	7,649.3	7,087.0	52.2	48.6	89.47	-6,139.9	-1,413.9	3,818.0	3,737.6	80.40	47.489	
9,744.1	7,123.1	7,649.8	7,087.4	53.1	48.6	89.49	-6,139.9	-1,413.9	3,776.9	3,695.7	81.21	46.510	
9,800.0	7,122.9	7,650.4	7,088.0	54.1	48.6	89.52	-6,139.9	-1,413.9	3,724.8	3,642.6	82.23	45.296	
9,842.5	7,122.8	7,650.8	7,088.5	54.9	48.6	89.53	-6,139.9	-1,413.9	3,685.3	3,602.3	83.02	44.393	
9,900.0	7,122.7	7,651.4	7,089.1	55.9	48.6	89.56	-6,139.9	-1,413.9	3,632.0	3,547.9	84.07	43.200	
9,940.9	7,122.6	7,651.8	7,089.5	56.7	48.6	89.58	-6,139.9	-1,413.9	3,594.2	3,509.3	84.83	42.369	
10,000.0	7,122.5	7,652.4	7,090.1	57.8	48.6	89.60	-6,139.9	-1,413.8	3,539.6	3,453.7	85.92	41.196	
10,039.3	7,122.4	7,652.9	7,090.5	58.5	48.6	89.62	-6,139.9	-1,413.8	3,503.4	3,416.7	86.65	40.432	
10,100.0	7,122.3	7,653.5	7,091.1	59.6	48.6	89.65	-6,139.9	-1,413.8	3,447.6	3,359.9	87.77	39.280	
10,137.8	7,122.2	7,653.9	7,091.5	60.3	48.6	89.66	-6,140.0	-1,413.8	3,413.0	3,324.5	88.47	38.577	
10,200.0	7,122.0	7,654.5	7,092.2	61.5	48.6	89.69	-6,140.0	-1,413.8	3,356.1	3,266.5	89.63	37.446	
10,236.2	7,121.9	7,654.9	7,092.5	62.2	48.6	89.70	-6,140.0	-1,413.8	3,323.1	3,232.8	90.30	36.801	
10,300.0	7,121.8	7,655.5	7,093.2	63.3	48.6	89.73	-6,140.0	-1,413.8	3,265.1	3,173.6	91.48	35.690	
10,334.6	7,121.7	7,655.9	7,093.5	64.0	48.6	89.75	-6,140.0	-1,413.8	3,233.7	3,141.5	92.13	35.099	
10,400.0	7,121.6	7,656.5	7,094.2	65.2	48.6	89.77	-6,140.0	-1,413.8	3,174.6	3,081.2	93.35	34.009	
10,433.0	7,121.5	7,656.9	7,094.5	65.8	48.6	89.79	-6,140.0	-1,413.8	3,144.8	3,050.8	93.96	33.468	
10,500.0	7,121.4	7,657.6	7,095.2	67.1	48.6	89.82	-6,140.0	-1,413.8	3,084.6	2,989.4	95.21	32.398	
10,531.5	7,121.3	7,657.9	7,095.5	67.7	48.6	89.83	-6,140.0	-1,413.8	3,056.5	2,960.7	95.80	31.905	
10,600.0	7,121.1	7,658.6	7,096.2	69.0	48.6	89.86	-6,140.0	-1,413.8	2,995.4	2,898.3	97.08	30.855	
10,629.9	7,121.1	7,658.9	7,096.5	69.5	48.6	89.87	-6,140.0	-1,413.7	2,968.8	2,871.2	97.64	30.406	
10,700.0	7,120.9	7,659.6	7,097.2	70.8	48.6	89.90	-6,140.0	-1,413.7	2,906.8	2,807.9	98.95	29.377	
10,728.3	7,120.8	7,659.9	7,097.5	71.4	48.6	89.91	-6,140.0	-1,413.7	2,881.9	2,782.4	99.48	28.969	
10,800.0	7,120.7	7,660.6	7,098.3	72.7	48.6	89.94	-6,140.0	-1,413.7	2,819.0	2,718.2	100.82	27.960	
10,826.7	7,120.6	7,660.9	7,098.5	73.2	48.6	89.95	-6,140.0	-1,413.7	2,795.7	2,694.3	101.32	27.591	
10,900.0	7,120.5	7,661.6	7,099.3	74.6	48.6	89.98	-6,140.0	-1,413.7	2,732.0	2,629.3	102.70	26.603	
10,925.2	7,120.4	7,661.8	7,099.5	75.1	48.6	89.99	-6,140.0	-1,413.7	2,710.3	2,607.1	103.17	26.270	
11,000.0	7,120.2	7,662.6	7,100.3	76.5	48.6	90.03	-6,140.1	-1,413.7	2,646.0	2,541.4	104.57	25.303	
11,023.6	7,120.2	7,662.8	7,100.5	76.9	48.6	90.04	-6,140.1	-1,413.7	2,625.8	2,520.8	105.02	25.004	
11,100.0	7,120.0	7,663.6	7,101.2	78.3	48.6	90.07	-6,140.1	-1,413.7	2,560.9	2,454.5	106.45	24.057	
11,122.0	7,120.0	7,663.8	7,101.5	78.8	48.6	90.08	-6,140.1	-1,413.7	2,542.4	2,435.5	106.87	23.790	
11,200.0	7,119.8	7,664.5	7,102.2	80.2	48.6	90.11	-6,140.1	-1,413.7	2,477.0	2,368.7	108.33	22.865	
11,220.4	7,119.7	7,664.7	7,102.4	80.6	48.6	90.12	-6,140.1	-1,413.7	2,460.0	2,351.3	108.72	22.627	
11,300.0	7,119.5	7,665.5	7,103.1	82.1	48.6	90.15	-6,140.1	-1,413.6	2,394.3	2,284.1	110.22	21.724	
11,318.9	7,119.5	7,665.7	7,103.3	82.5	48.6	90.15	-6,140.1	-1,413.6	2,378.9	2,268.3	110.57	21.515	
11,400.0	7,119.3	7,666.4	7,104.1	84.0	48.6	90.19	-6,140.1	-1,413.6	2,313.0	2,200.9	112.10	20.634	
11,417.3	7,119.3	7,666.6	7,104.2	84.3	48.6	90.19	-6,140.1	-1,413.6	2,299.1	2,186.7	112.43	20.450	
11,500.0	7,119.1	7,667.3	7,105.0	85.9	48.6	90.22	-6,140.1	-1,413.6	2,233.2	2,119.3	113.99	19.592	
11,515.7	7,119.1	7,667.5	7,105.1	86.2	48.6	90.23	-6,140.1	-1,413.6	2,220.8	2,106.6	114.28	19.433	
11,600.0	7,118.9	7,668.3	7,105.9	87.8	48.6	90.26	-6,140.1	-1,413.6	2,155.1	2,039.3	115.87	18.599	
11,614.1	7,118.8	7,668.4	7,106.0	88.0	48.6	90.27	-6,140.1	-1,413.6	2,144.2	2,028.1	116.14	18.463	
11,700.0	7,118.6	7,669.2	7,106.8	89.7	48.6	90.30	-6,140.1	-1,413.6	2,078.9	1,961.1	117.76	17.654	
11,712.6	7,118.6	7,669.3	7,106.9	89.9	48.6	90.31	-6,140.1	-1,413.6	2,069.4	1,951.5	118.00	17.538	
11,800.0	7,118.4	7,670.1	7,107.7	91.6	48.6	90.34	-6,140.1	-1,413.6	2,004.7	1,885.1	119.65	16.755	
11,811.0	7,118.4	7,670.2	7,107.8	91.8	48.6	90.34	-6,140.1	-1,413.6	1,996.7	1,876.9	119.86	16.659	
11,900.0	7,118.2	7,671.0	7,108.7	93.4	48.6	90.38	-6,140.1	-1,413.6	1,932.9	1,811.4	121.54	15.904	
11,909.4	7,118.2	7,671.1	7,108.7	93.6	48.6	90.38	-6,140.1	-1,413.6	1,926.3	1,804.6	121.72	15.826	
12,000.0	7,118.0	7,671.9	7,109.6	95.3	48.6	90.42	-6,140.2	-1,413.5	1,863.7	1,740.3	123.43	15.099	
12,007.8	7,118.0	7,672.0	7,109.6	95.5	48.6	90.42	-6,140.2	-1,413.5	1,858.4	1,734.8	123.58	15.038	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												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
12,100.0	7,117.8	7,672.8	7,110.5	97.2	48.6	90.45	-6,140.2	-1,413.5	1,797.4	1,672.1	125.32	14.342	
12,106.3	7,117.7	7,672.9	7,110.5	97.4	48.6	90.46	-6,140.2	-1,413.5	1,793.3	1,667.9	125.44	14.296	
12,200.0	7,117.5	7,673.7	7,111.4	99.1	48.6	90.49	-6,140.2	-1,413.5	1,734.3	1,607.1	127.22	13.633	
12,204.7	7,117.5	7,673.7	7,111.4	99.2	48.6	90.49	-6,140.2	-1,413.5	1,731.4	1,604.1	127.30	13.601	
12,300.0	7,117.3	7,674.6	7,112.2	101.0	48.6	90.53	-6,140.2	-1,413.5	1,674.8	1,545.7	129.11	12.972	
12,303.1	7,117.3	7,674.6	7,112.3	101.1	48.6	90.53	-6,140.2	-1,413.5	1,673.0	1,543.9	129.17	12.952	
12,400.0	7,117.1	7,675.5	7,113.1	102.9	48.6	90.56	-6,140.2	-1,413.5	1,619.3	1,488.3	131.00	12.361	
12,401.5	7,117.1	7,675.5	7,113.1	103.0	48.6	90.56	-6,140.2	-1,413.5	1,618.5	1,487.5	131.03	12.352	
12,500.0	7,116.9	7,676.4	7,114.0	104.8	48.6	90.60	-6,140.2	-1,413.5	1,568.3	1,435.4	132.90	11.800	
12,598.4	7,116.6	7,677.2	7,114.9	106.7	48.6	90.64	-6,140.2	-1,413.5	1,522.8	1,388.0	134.77	11.299	
12,600.0	7,116.6	7,677.2	7,114.9	106.7	48.6	90.64	-6,140.2	-1,413.5	1,522.1	1,387.3	134.80	11.292	
12,696.8	7,116.4	7,678.1	7,115.7	108.6	48.6	90.67	-6,140.2	-1,413.5	1,482.4	1,345.8	136.63	10.850	
12,700.0	7,116.4	7,678.1	7,115.8	108.6	48.6	90.67	-6,140.2	-1,413.4	1,481.2	1,344.5	136.69	10.836	
12,795.2	7,116.2	7,678.9	7,116.6	110.4	48.6	90.71	-6,140.2	-1,413.4	1,447.6	1,309.1	138.50	10.452	
12,800.0	7,116.2	7,679.0	7,116.6	110.5	48.6	90.71	-6,140.2	-1,413.4	1,446.1	1,307.5	138.59	10.434	
12,893.7	7,116.0	7,679.8	7,117.4	112.3	48.6	90.74	-6,140.2	-1,413.4	1,418.8	1,278.4	140.37	10.108	
12,900.0	7,116.0	7,679.8	7,117.5	112.4	48.6	90.75	-6,140.2	-1,413.4	1,417.1	1,276.7	140.49	10.087	
12,992.1	7,115.7	7,680.6	7,118.3	114.2	48.6	90.78	-6,140.3	-1,413.4	1,396.3	1,254.1	142.24	9.817	
13,000.0	7,115.7	7,680.7	7,118.4	114.3	48.6	90.78	-6,140.3	-1,413.4	1,394.8	1,252.4	142.39	9.796	
13,090.5	7,115.5	7,681.5	7,119.1	116.1	48.6	90.82	-6,140.3	-1,413.4	1,380.5	1,236.4	144.11	9.580	
13,100.0	7,115.5	7,681.6	7,119.2	116.2	48.6	90.82	-6,140.3	-1,413.4	1,379.4	1,235.1	144.29	9.560	
13,188.9	7,115.3	7,682.3	7,120.0	117.9	48.6	90.85	-6,140.3	-1,413.4	1,371.7	1,225.7	145.97	9.397	
13,200.0	7,115.3	7,682.4	7,120.1	118.1	48.6	90.85	-6,140.3	-1,413.4	1,371.1	1,224.9	146.18	9.379	
13,264.0	7,115.1	7,682.9	7,120.6	119.4	48.6	90.88	-6,140.3	-1,413.4	1,369.6	1,222.2	147.40	9.292 CC	
13,287.4	7,115.1	7,683.1	7,120.8	119.8	48.6	90.89	-6,140.3	-1,413.4	1,369.8	1,222.0	147.84	9.265 ES	
13,300.0	7,115.1	7,683.3	7,120.9	120.0	48.6	90.89	-6,140.3	-1,413.4	1,370.1	1,222.0	148.08	9.252	
13,385.8	7,114.9	7,684.0	7,121.6	121.7	48.6	90.92	-6,140.3	-1,413.4	1,375.0	1,225.3	149.72	9.184	
13,400.0	7,114.8	7,684.1	7,121.8	121.9	48.6	90.93	-6,140.3	-1,413.4	1,376.3	1,226.3	149.99	9.176	
13,484.2	7,114.6	7,684.8	7,122.5	123.6	48.6	90.95	-6,140.3	-1,413.3	1,387.2	1,235.6	151.59	9.151	
13,500.0	7,114.6	7,684.9	7,122.6	123.9	48.6	90.96	-6,140.3	-1,413.3	1,389.8	1,237.9	151.89	9.150 SF	
13,582.6	7,114.4	7,685.6	7,123.3	125.4	48.6	90.99	-6,140.3	-1,413.3	1,406.2	1,252.7	153.46	9.163	
13,600.0	7,114.4	7,685.8	7,123.4	125.8	48.6	91.00	-6,140.3	-1,413.3	1,410.2	1,256.4	153.79	9.170	
13,681.1	7,114.2	7,686.4	7,124.1	127.3	48.6	91.02	-6,140.3	-1,413.3	1,431.7	1,276.4	155.33	9.217	
13,700.0	7,114.2	7,686.6	7,124.3	127.7	48.6	91.03	-6,140.3	-1,413.3	1,437.3	1,281.6	155.69	9.232	
13,779.5	7,114.0	7,687.3	7,124.9	129.2	48.6	91.06	-6,140.3	-1,413.3	1,463.4	1,306.2	157.20	9.309	
13,800.0	7,113.9	7,687.4	7,125.1	129.6	48.6	91.06	-6,140.3	-1,413.3	1,470.7	1,313.1	157.59	9.333	
13,877.9	7,113.8	7,688.1	7,125.7	131.1	48.6	91.09	-6,140.3	-1,413.3	1,500.9	1,341.8	159.07	9.435	
13,900.0	7,113.7	7,688.3	7,125.9	131.5	48.6	91.10	-6,140.3	-1,413.3	1,510.1	1,350.6	159.49	9.468	
13,976.3	7,113.5	7,688.9	7,126.5	132.9	48.6	91.13	-6,140.3	-1,413.3	1,543.8	1,382.8	160.95	9.592	
14,000.0	7,113.5	7,689.1	7,126.7	133.4	48.6	91.13	-6,140.3	-1,413.3	1,554.8	1,393.4	161.40	9.634	
14,074.8	7,113.3	7,689.7	7,127.3	134.8	48.6	91.16	-6,140.4	-1,413.3	1,591.6	1,428.8	162.82	9.775	
14,100.0	7,113.3	7,689.9	7,127.6	135.3	48.6	91.17	-6,140.4	-1,413.3	1,604.6	1,441.3	163.30	9.826	
14,173.2	7,113.1	7,690.5	7,128.1	136.7	48.6	91.19	-6,140.4	-1,413.3	1,643.9	1,479.2	164.69	9.982	
14,200.0	7,113.0	7,690.7	7,128.4	137.2	48.6	91.20	-6,140.4	-1,413.3	1,658.9	1,493.7	165.20	10.041	
14,219.1	7,113.0	7,690.9	7,128.5	137.6	48.6	91.21	-6,140.4	-1,413.3	1,669.7	1,504.2	165.57	10.085	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	-172.78	-5,661.3	-716.7	5,706.6				
98.4	98.4	57.9	57.9	0.1	0.6	-172.78	-5,661.3	-716.7	5,706.5	5,705.8	0.70	8,187.594	
100.0	100.0	59.5	59.5	0.1	0.6	-172.78	-5,661.3	-716.7	5,706.5	5,705.8	0.72	7,980.060	
196.8	196.8	156.3	156.3	0.3	2.3	-172.78	-5,661.3	-716.7	5,706.5	5,703.8	2.66	2,141.826	
200.0	200.0	159.5	159.5	0.3	2.4	-172.78	-5,661.3	-716.7	5,706.5	5,703.8	2.74	2,079.114	
295.3	295.3	254.8	254.8	0.5	4.5	-172.78	-5,661.3	-716.7	5,706.5	5,701.5	5.04	1,132.076	
300.0	300.0	259.5	259.5	0.5	4.6	-172.78	-5,661.3	-716.7	5,706.5	5,701.3	5.15	1,108.129	
393.7	393.7	353.2	353.2	0.8	6.5	-172.78	-5,661.3	-716.7	5,706.5	5,699.2	7.29	782.821	
400.0	400.0	359.5	359.5	0.8	6.7	-172.78	-5,661.3	-716.7	5,706.5	5,699.1	7.43	767.776	
492.1	492.1	451.6	451.6	1.0	8.5	-172.78	-5,661.3	-716.7	5,706.5	5,697.0	9.51	599.774	
500.0	500.0	459.5	459.5	1.0	8.7	-172.78	-5,661.3	-716.7	5,706.5	5,696.8	9.69	588.790	
590.5	590.5	550.0	550.0	1.2	10.5	-172.78	-5,661.3	-716.7	5,706.5	5,694.8	11.73	486.502	
600.0	600.0	559.5	559.5	1.2	10.7	-172.78	-5,661.3	-716.7	5,706.5	5,694.6	11.94	477.849	
689.0	689.0	648.5	648.5	1.4	12.5	-172.78	-5,661.3	-716.7	5,706.5	5,692.6	13.94	409.359	
700.0	700.0	659.5	659.5	1.4	12.7	-172.78	-5,661.3	-716.7	5,706.5	5,692.3	14.19	402.220	
787.4	787.4	746.9	746.9	1.6	14.5	-172.78	-5,661.3	-716.7	5,706.5	5,690.4	16.15	353.392	
800.0	800.0	759.5	759.5	1.7	14.8	-172.78	-5,661.3	-716.7	5,706.5	5,690.1	16.43	347.317	
885.8	885.8	845.3	845.3	1.9	16.5	-172.78	-5,661.3	-716.7	5,706.5	5,688.1	18.35	310.918	
900.0	900.0	859.5	859.5	1.9	16.8	-172.78	-5,661.3	-716.7	5,706.5	5,687.8	18.67	305.630	
984.2	984.2	943.7	943.7	2.1	18.5	-172.78	-5,661.3	-716.7	5,706.5	5,685.9	20.56	277.574	
1,000.0	1,000.0	959.5	959.5	2.1	18.8	-172.78	-5,661.3	-716.7	5,706.5	5,685.6	20.91	272.892	
1,082.7	1,082.7	1,042.2	1,042.2	2.3	20.5	-172.78	-5,661.3	-716.7	5,706.5	5,683.7	22.76	250.699	
1,100.0	1,100.0	1,059.5	1,059.5	2.3	20.8	-172.78	-5,661.3	-716.7	5,706.5	5,683.3	23.15	246.499	
1,181.1	1,181.1	1,140.6	1,140.6	2.5	22.4	-172.78	-5,661.3	-716.7	5,706.5	5,681.5	24.97	228.574	
1,200.0	1,200.0	1,159.5	1,159.5	2.6	22.8	-172.78	-5,661.3	-716.7	5,706.5	5,681.1	25.39	224.765	
1,279.5	1,279.5	1,239.0	1,239.0	2.7	24.4	-172.78	-5,661.3	-716.7	5,706.5	5,679.3	27.17	210.041	
1,300.0	1,300.0	1,259.5	1,259.5	2.8	24.8	-172.78	-5,661.3	-716.7	5,706.5	5,678.9	27.63	206.557	
1,377.9	1,377.9	1,337.4	1,337.4	3.0	26.4	-168.50	-5,661.3	-716.7	5,707.5	5,678.2	29.36	194.392	
1,400.0	1,400.0	1,359.5	1,359.5	3.0	26.8	-168.50	-5,661.3	-716.7	5,708.2	5,678.4	29.85	191.247	
1,476.4	1,476.3	1,435.8	1,435.8	3.2	28.4	-168.49	-5,661.3	-716.7	5,711.8	5,680.3	31.52	181.234	
1,500.0	1,499.8	1,459.3	1,459.3	3.2	28.9	-168.49	-5,661.3	-716.7	5,713.3	5,681.3	32.03	178.394	
1,574.8	1,574.4	1,533.9	1,533.9	3.4	30.4	-168.48	-5,661.3	-716.7	5,719.4	5,685.8	33.62	170.098	
1,600.0	1,599.5	1,559.0	1,559.0	3.5	30.9	-168.47	-5,661.3	-716.7	5,721.9	5,687.7	34.15	167.527	
1,673.2	1,672.2	1,631.7	1,631.7	3.6	32.3	-168.45	-5,661.3	-716.7	5,730.3	5,694.6	35.68	160.616	
1,700.0	1,698.7	1,658.2	1,658.2	3.7	32.9	-168.45	-5,661.3	-716.7	5,733.8	5,697.6	36.22	158.286	
1,771.6	1,769.5	1,729.0	1,729.0	3.9	34.3	-168.43	-5,661.3	-716.7	5,744.5	5,706.8	37.67	152.506	
1,800.0	1,797.5	1,757.0	1,757.0	4.0	34.8	-168.42	-5,661.3	-716.7	5,749.2	5,710.9	38.23	150.395	
1,870.1	1,866.3	1,825.8	1,825.8	4.2	36.2	-168.39	-5,661.3	-716.7	5,761.9	5,722.3	39.59	145.548	
1,900.1	1,895.8	1,855.3	1,855.3	4.3	36.8	-168.38	-5,661.3	-716.7	5,767.9	5,727.7	40.16	143.628	
1,968.5	1,962.6	1,922.1	1,922.1	4.5	38.2	-168.41	-5,661.3	-716.7	5,781.8	5,740.2	41.64	138.850	
2,000.0	1,993.4	1,952.9	1,952.9	4.6	38.8	-168.42	-5,661.3	-716.7	5,788.2	5,745.9	42.32	136.762	
2,066.9	2,058.9	2,018.4	2,018.4	4.8	40.1	-168.45	-5,661.3	-716.7	5,801.9	5,758.1	43.78	132.524	
2,100.0	2,091.3	2,050.8	2,050.8	4.9	40.8	-168.46	-5,661.3	-716.7	5,808.6	5,764.1	44.50	130.545	
2,165.3	2,155.2	2,114.7	2,114.7	5.1	42.0	-168.49	-5,661.3	-716.7	5,822.0	5,776.1	45.91	126.799	
2,200.0	2,189.1	2,148.6	2,148.6	5.3	42.7	-168.50	-5,661.3	-716.7	5,829.0	5,782.4	46.67	124.897	
2,263.8	2,251.4	2,210.9	2,210.9	5.5	44.0	-168.53	-5,661.3	-716.7	5,842.0	5,794.0	48.06	121.558	
2,300.0	2,286.9	2,246.4	2,246.4	5.6	44.7	-168.54	-5,661.3	-716.7	5,849.4	5,800.6	48.85	119.745	
2,362.2	2,347.7	2,307.2	2,307.2	5.9	45.9	-168.57	-5,661.3	-716.7	5,862.1	5,811.9	50.21	116.763	
2,400.0	2,384.7	2,344.2	2,344.2	6.0	46.7	-168.58	-5,661.3	-716.7	5,869.8	5,818.8	51.03	115.027	
2,460.6	2,444.0	2,403.5	2,403.5	6.3	47.8	-168.61	-5,661.3	-716.7	5,882.2	5,829.8	52.35	112.356	
2,500.0	2,482.5	2,442.0	2,442.0	6.4	48.6	-168.62	-5,661.3	-716.7	5,890.2	5,837.0	53.21	110.692	
2,559.0	2,540.3	2,499.8	2,499.8	6.6	49.8	-168.65	-5,661.3	-716.7	5,902.3	5,847.8	54.50	108.293	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												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
2,600.0	2,580.3	2,539.8	2,539.8	6.8	50.6	-168.66	-5,661.3	-716.7	5,910.6	5,855.2	55.40	106.695	
2,617.6	2,597.5	2,557.0	2,557.0	6.9	50.9	-168.67	-5,661.3	-716.7	5,914.2	5,858.5	55.78	106.023	
2,657.5	2,636.6	2,596.1	2,596.1	7.0	51.7	-168.72	-5,661.3	-716.7	5,922.1	5,865.3	56.79	104.282	
2,700.0	2,678.4	2,637.9	2,637.9	7.2	52.6	-168.76	-5,661.3	-716.7	5,929.9	5,872.0	57.86	102.490	
2,755.9	2,733.5	2,693.0	2,693.0	7.3	53.7	-168.82	-5,661.3	-716.7	5,939.2	5,880.0	59.24	100.261	
2,800.0	2,777.0	2,736.5	2,736.5	7.4	54.5	-168.85	-5,661.3	-716.7	5,945.9	5,885.5	60.32	98.574	
2,854.3	2,830.9	2,790.4	2,790.4	7.6	55.6	-168.90	-5,661.3	-716.7	5,953.1	5,891.5	61.64	96.583	
2,900.0	2,876.2	2,835.7	2,835.7	7.7	56.5	-168.93	-5,661.3	-716.7	5,958.4	5,895.7	62.74	94.977	
2,952.7	2,928.7	2,888.2	2,888.2	7.8	57.6	-168.96	-5,661.3	-716.7	5,963.7	5,899.7	63.99	93.200	
3,000.0	2,975.8	2,935.3	2,935.3	7.9	58.5	-168.98	-5,661.3	-716.7	5,967.6	5,902.5	65.10	91.672	
3,051.2	3,026.8	2,986.3	2,986.3	8.0	59.6	-169.00	-5,661.3	-716.7	5,971.0	5,904.7	66.28	90.085	
3,100.0	3,075.6	3,035.1	3,035.1	8.1	60.6	-169.01	-5,661.3	-716.7	5,973.3	5,905.9	67.39	88.632	
3,149.6	3,125.2	3,084.7	3,084.7	8.2	61.6	-169.02	-5,661.3	-716.7	5,974.9	5,906.4	68.51	87.218	
3,200.0	3,175.6	3,135.1	3,135.1	8.3	62.6	-169.03	-5,661.3	-716.7	5,975.7	5,906.0	69.62	85.837	
3,217.7	3,193.3	3,152.8	3,152.8	8.3	62.9	-173.31	-5,661.3	-716.7	5,975.7	5,905.7	70.00	85.368	
3,248.0	3,223.6	3,183.1	3,183.1	8.4	63.5	-173.31	-5,661.3	-716.7	5,975.7	5,905.0	70.67	84.561	
3,300.0	3,275.6	3,235.1	3,235.1	8.5	64.6	-173.31	-5,661.3	-716.7	5,975.7	5,903.9	71.81	83.212	
3,346.4	3,322.0	3,281.5	3,281.5	8.6	65.5	-173.31	-5,661.3	-716.7	5,975.7	5,902.9	72.85	82.032	
3,400.0	3,375.6	3,335.1	3,335.1	8.7	66.6	-173.31	-5,661.3	-716.7	5,975.7	5,901.7	74.04	80.713	
3,444.9	3,420.4	3,379.9	3,379.9	8.7	67.5	-173.31	-5,661.3	-716.7	5,975.7	5,900.7	75.04	79.639	
3,500.0	3,475.6	3,435.1	3,435.1	8.8	68.6	-173.31	-5,661.3	-716.7	5,975.7	5,899.4	76.26	78.358	
3,543.3	3,518.9	3,478.4	3,478.4	8.9	69.5	-173.31	-5,661.3	-716.7	5,975.7	5,898.5	77.22	77.381	
3,600.0	3,575.6	3,535.1	3,535.1	9.0	70.6	-173.31	-5,661.3	-716.7	5,975.7	5,897.2	78.49	76.137	
3,641.7	3,617.3	3,576.8	3,576.8	9.1	71.4	-173.31	-5,661.3	-716.7	5,975.7	5,896.3	79.42	75.246	
3,700.0	3,675.6	3,635.1	3,635.1	9.2	72.6	-173.31	-5,661.3	-716.7	5,975.7	5,895.0	80.71	74.037	
3,740.1	3,715.7	3,675.2	3,675.2	9.3	73.4	-173.31	-5,661.3	-716.7	5,975.7	5,894.1	81.61	73.226	
3,800.0	3,775.6	3,735.1	3,735.1	9.4	74.6	-173.31	-5,661.3	-716.7	5,975.7	5,892.8	82.94	72.050	
3,838.6	3,814.1	3,773.6	3,773.6	9.5	75.4	-173.31	-5,661.3	-716.7	5,975.7	5,891.9	83.80	71.311	
3,900.0	3,875.6	3,835.1	3,835.1	9.6	76.6	-173.31	-5,661.3	-716.7	5,975.7	5,890.5	85.17	70.166	
3,937.0	3,912.6	3,872.1	3,872.1	9.7	77.4	-173.31	-5,661.3	-716.7	5,975.7	5,889.7	85.99	69.494	
4,000.0	3,975.6	3,935.1	3,935.1	9.8	78.7	-173.31	-5,661.3	-716.7	5,975.7	5,888.3	87.39	68.378	
4,035.4	4,011.0	3,970.5	3,970.5	9.9	79.4	-173.31	-5,661.3	-716.7	5,975.7	5,887.5	88.18	67.766	
4,100.0	4,075.6	4,035.1	4,035.1	10.0	80.7	-173.31	-5,661.3	-716.7	5,975.7	5,886.1	89.62	66.678	
4,133.8	4,109.4	4,068.9	4,068.9	10.0	81.3	-173.31	-5,661.3	-716.7	5,975.7	5,885.3	90.37	66.122	
4,200.0	4,175.6	4,135.1	4,135.1	10.2	82.7	-173.31	-5,661.3	-716.7	5,975.7	5,883.9	91.85	65.061	
4,232.3	4,207.8	4,167.3	4,167.3	10.2	83.3	-173.31	-5,661.3	-716.7	5,975.7	5,883.1	92.57	64.556	
4,300.0	4,275.6	4,235.1	4,235.1	10.4	84.7	-173.31	-5,661.3	-716.7	5,975.7	5,881.6	94.08	63.520	
4,330.7	4,306.3	4,265.8	4,265.8	10.4	85.3	-173.31	-5,661.3	-716.7	5,975.7	5,880.9	94.76	63.061	
4,400.0	4,375.6	4,335.1	4,335.1	10.6	86.7	-173.31	-5,661.3	-716.7	5,975.7	5,879.4	96.30	62.050	
4,429.1	4,404.7	4,364.2	4,364.2	10.6	87.3	-173.31	-5,661.3	-716.7	5,975.7	5,878.8	96.95	61.635	
4,500.0	4,475.6	4,435.1	4,435.1	10.8	88.7	-173.31	-5,661.3	-716.7	5,975.7	5,877.2	98.53	60.646	
4,527.5	4,503.1	4,462.6	4,462.6	10.8	89.3	-173.31	-5,661.3	-716.7	5,975.7	5,876.6	99.15	60.271	
4,600.0	4,575.6	4,535.1	4,535.1	11.0	90.7	-173.31	-5,661.3	-716.7	5,975.7	5,874.9	100.76	59.305	
4,626.0	4,601.5	4,561.0	4,561.0	11.0	91.2	-173.31	-5,661.3	-716.7	5,975.7	5,874.4	101.34	58.966	
4,700.0	4,675.6	4,635.1	4,635.1	11.2	92.7	-173.31	-5,661.3	-716.7	5,975.7	5,872.7	102.99	58.021	
4,724.4	4,700.0	4,659.5	4,659.5	11.2	93.2	-173.31	-5,661.3	-716.7	5,975.7	5,872.2	103.54	57.716	
4,800.0	4,775.6	4,735.1	4,735.1	11.4	94.7	-173.31	-5,661.3	-716.7	5,975.7	5,870.5	105.22	56.791	
4,822.8	4,798.4	4,757.9	4,757.9	11.4	95.2	-173.31	-5,661.3	-716.7	5,975.7	5,870.0	105.73	56.518	
4,900.0	4,875.6	4,835.1	4,835.1	11.6	96.8	-173.31	-5,661.3	-716.7	5,975.7	5,868.3	107.45	55.613	
4,921.2	4,896.8	4,856.3	4,856.3	11.6	97.2	-173.31	-5,661.3	-716.7	5,975.7	5,867.8	107.93	55.368	
5,000.0	4,975.6	4,935.1	4,935.1	11.8	98.8	-173.31	-5,661.3	-716.7	5,975.7	5,866.0	109.68	54.482	
5,019.7	4,995.2	4,954.7	4,954.7	11.8	99.2	-173.31	-5,661.3	-716.7	5,975.7	5,865.6	110.12	54.265	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
5,100.0	5,075.6	5,035.1	5,035.1	12.0	100.8	-173.31	-5,661.3	-716.7	5,975.7	5,863.8	111.91	53.396	
5,118.1	5,093.7	5,053.2	5,053.2	12.0	101.1	-173.31	-5,661.3	-716.7	5,975.7	5,863.4	112.32	53.204	
5,200.0	5,175.6	5,135.1	5,135.1	12.2	102.8	-173.31	-5,661.3	-716.7	5,975.7	5,861.6	114.14	52.352	
5,216.5	5,192.1	5,151.6	5,151.6	12.2	103.1	-173.31	-5,661.3	-716.7	5,975.7	5,861.2	114.51	52.184	
5,300.0	5,275.6	5,235.1	5,235.1	12.4	104.8	-173.31	-5,661.3	-716.7	5,975.7	5,859.3	116.37	51.349	
5,314.9	5,290.5	5,250.0	5,250.0	12.4	105.1	-173.31	-5,661.3	-716.7	5,975.7	5,859.0	116.71	51.202	
5,400.0	5,375.6	5,335.1	5,335.1	12.6	106.8	-173.31	-5,661.3	-716.7	5,975.7	5,857.1	118.61	50.383	
5,413.4	5,388.9	5,348.4	5,348.4	12.6	107.1	-173.31	-5,661.3	-716.7	5,975.7	5,856.8	118.90	50.256	
5,500.0	5,475.6	5,435.1	5,435.1	12.8	108.8	-173.31	-5,661.3	-716.7	5,975.7	5,854.9	120.84	49.453	
5,511.8	5,487.4	5,446.9	5,446.9	12.8	109.1	-173.31	-5,661.3	-716.7	5,975.7	5,854.6	121.10	49.345	
5,600.0	5,575.6	5,535.1	5,535.1	13.0	110.8	-173.31	-5,661.3	-716.7	5,975.7	5,852.6	123.07	48.556	
5,610.2	5,585.8	5,545.3	5,545.3	13.0	111.0	-173.31	-5,661.3	-716.7	5,975.7	5,852.4	123.30	48.466	
5,700.0	5,675.6	5,635.1	5,635.1	13.2	112.8	-173.31	-5,661.3	-716.7	5,975.7	5,850.4	125.30	47.691	
5,708.6	5,684.2	5,643.7	5,643.7	13.2	113.0	-173.31	-5,661.3	-716.7	5,975.7	5,850.2	125.49	47.618	
5,800.0	5,775.6	5,735.1	5,735.1	13.4	114.9	-173.31	-5,661.3	-716.7	5,975.7	5,848.2	127.53	46.857	
5,807.1	5,782.6	5,742.1	5,742.1	13.4	115.0	-173.31	-5,661.3	-716.7	5,975.7	5,848.0	127.69	46.799	
5,900.0	5,875.6	5,835.1	5,835.1	13.6	116.9	-173.31	-5,661.3	-716.7	5,975.7	5,845.9	129.76	46.051	
5,905.5	5,881.1	5,840.6	5,840.6	13.6	117.0	-173.31	-5,661.3	-716.7	5,975.7	5,845.8	129.89	46.007	
6,000.0	5,975.6	5,935.1	5,935.1	13.8	118.9	-173.31	-5,661.3	-716.7	5,975.7	5,843.7	132.00	45.272	
6,003.9	5,979.5	5,939.0	5,939.0	13.8	119.0	-173.31	-5,661.3	-716.7	5,975.7	5,843.6	132.08	45.242	
6,100.0	6,075.6	6,035.1	6,035.1	14.0	120.9	-173.31	-5,661.3	-716.7	5,975.7	5,841.5	134.23	44.519	
6,102.3	6,077.9	6,037.4	6,037.4	14.0	120.9	-173.31	-5,661.3	-716.7	5,975.7	5,841.4	134.28	44.502	
6,200.0	6,175.6	6,135.1	6,135.1	14.2	122.9	-173.31	-5,661.3	-716.7	5,975.7	5,839.2	136.46	43.791	
6,200.8	6,176.3	6,135.8	6,135.8	14.2	122.9	-173.31	-5,661.3	-716.7	5,975.7	5,839.2	136.48	43.785	
6,299.2	6,274.8	6,234.3	6,234.3	14.4	124.9	-173.31	-5,661.3	-716.7	5,975.7	5,837.0	138.67	43.092	
6,300.0	6,275.6	6,235.1	6,235.1	14.4	124.9	-173.31	-5,661.3	-716.7	5,975.7	5,837.0	138.69	43.086	
6,397.6	6,373.2	6,332.7	6,332.7	14.7	126.9	-173.31	-5,661.3	-716.7	5,975.7	5,834.8	140.87	42.419	
6,400.0	6,375.6	6,335.1	6,335.1	14.7	126.9	-173.31	-5,661.3	-716.7	5,975.7	5,834.8	140.92	42.404	
6,436.2	6,411.8	6,371.3	6,371.3	14.7	127.6	-173.31	-5,661.3	-716.7	5,975.7	5,834.0	141.73	42.161	
6,450.0	6,425.6	6,385.1	6,385.1	14.8	127.9	6.48	-5,661.3	-716.7	5,975.6	5,833.6	142.00	42.081	
6,496.0	6,471.5	6,431.0	6,431.0	14.8	128.8	6.51	-5,661.3	-716.7	5,973.2	5,830.7	142.52	41.912	
6,500.0	6,475.5	6,435.0	6,435.0	14.8	128.9	6.51	-5,661.3	-716.7	5,972.9	5,830.4	142.53	41.905	
6,550.0	6,525.1	6,484.6	6,484.6	14.9	129.9	6.57	-5,661.3	-716.7	5,966.7	5,824.4	142.37	41.909	
6,594.5	6,568.7	6,528.2	6,528.2	14.9	130.8	6.66	-5,661.3	-716.7	5,958.4	5,816.8	141.64	42.066	
6,600.0	6,574.1	6,533.6	6,533.6	14.9	130.9	6.67	-5,661.3	-716.7	5,957.2	5,815.7	141.51	42.096	
6,650.0	6,622.4	6,581.9	6,581.9	14.9	131.9	6.81	-5,661.3	-716.7	5,944.2	5,804.3	139.95	42.475	
6,692.9	6,663.0	6,622.5	6,622.5	14.9	132.7	6.97	-5,661.3	-716.7	5,930.5	5,792.5	138.04	42.963	
6,700.0	6,669.6	6,629.1	6,629.1	14.9	132.8	7.00	-5,661.3	-716.7	5,928.0	5,790.3	137.67	43.059	
6,750.0	6,715.6	6,675.1	6,675.1	14.9	133.8	7.23	-5,661.3	-716.7	5,908.5	5,773.8	134.70	43.865	
6,791.3	6,752.5	6,712.0	6,712.0	14.9	134.5	7.47	-5,661.3	-716.7	5,890.0	5,758.3	131.72	44.715	
6,800.0	6,760.1	6,719.6	6,719.6	14.9	134.7	7.52	-5,661.3	-716.7	5,885.9	5,754.8	131.04	44.916	
6,850.0	6,802.9	6,762.4	6,762.4	14.9	135.5	7.87	-5,661.3	-716.7	5,860.2	5,733.5	126.73	46.243	
6,889.7	6,835.6	6,795.1	6,795.1	14.9	136.2	8.21	-5,661.3	-716.7	5,837.8	5,714.9	122.85	47.520	
6,900.0	6,843.8	6,803.3	6,803.3	14.9	136.3	8.31	-5,661.3	-716.7	5,831.7	5,709.9	121.79	47.883	
6,950.0	6,882.6	6,842.1	6,842.1	14.9	137.1	8.83	-5,661.3	-716.7	5,800.4	5,684.1	116.28	49.881	
6,988.2	6,910.7	6,870.2	6,870.2	15.0	137.7	9.31	-5,661.3	-716.7	5,774.7	5,663.0	111.74	51.679	
7,000.0	6,919.1	6,878.6	6,878.6	15.0	137.9	9.47	-5,661.3	-716.7	5,766.4	5,656.2	110.28	52.288	
7,050.0	6,953.1	6,912.6	6,912.6	15.0	138.5	10.26	-5,661.3	-716.7	5,730.1	5,626.2	103.89	55.153	
7,086.6	6,976.4	6,935.9	6,935.9	15.1	139.0	10.96	-5,661.3	-716.7	5,702.0	5,603.0	99.06	57.561	
7,100.0	6,984.5	6,944.0	6,944.0	15.1	139.2	11.24	-5,661.3	-716.7	5,691.4	5,594.2	97.27	58.509	
7,150.0	7,013.1	6,972.6	6,972.6	15.3	139.7	12.48	-5,661.3	-716.7	5,650.7	5,560.1	90.67	62.321	
7,185.0	7,031.4	6,990.9	6,990.9	15.4	140.1	13.55	-5,661.3	-716.7	5,621.1	5,534.8	86.26	65.163	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
7,200.0	7,038.8	6,998.3	6,998.3	15.4	140.3	14.07	-5,661.3	-716.7	5,608.2	5,523.7	84.49	66.380	
7,250.0	7,061.4	7,020.9	7,020.9	15.6	140.7	16.18	-5,661.3	-716.7	5,563.9	5,484.5	79.40	70.078	
7,283.4	7,074.8	7,034.3	7,034.3	15.8	141.0	17.99	-5,661.3	-716.7	5,533.5	5,456.3	77.15	71.719	
7,300.0	7,080.9	7,040.4	7,040.4	15.9	141.1	19.05	-5,661.3	-716.7	5,518.2	5,441.6	76.56	72.074	
7,350.0	7,097.1	7,056.6	7,056.6	16.2	141.4	23.14	-5,661.3	-716.7	5,471.3	5,393.4	77.87	70.262	
7,381.9	7,105.7	7,065.2	7,065.2	16.4	141.6	26.75	-5,661.3	-716.7	5,440.8	5,358.7	82.08	66.286	
7,400.0	7,109.9	7,069.4	7,069.4	16.6	141.7	29.31	-5,661.3	-716.7	5,423.3	5,337.3	86.03	63.042	
7,450.0	7,119.4	7,078.9	7,078.9	17.0	141.9	39.27	-5,661.3	-716.7	5,374.6	5,270.4	104.24	51.559	
7,480.3	7,123.4	7,082.9	7,082.9	17.2	142.0	48.44	-5,661.3	-716.7	5,344.8	5,223.8	120.99	44.175	
7,500.0	7,125.4	7,084.9	7,084.9	17.4	142.0	56.22	-5,661.3	-716.7	5,325.4	5,191.8	133.55	39.876	
7,550.0	7,127.9	7,087.4	7,087.4	17.9	142.0	83.06	-5,661.3	-716.7	5,275.9	5,117.1	158.78	33.227	
7,562.9	7,128.0	7,087.5	7,087.5	18.0	142.1	91.01	-5,661.3	-716.7	5,263.1	5,103.1	160.02	32.891	
7,578.7	7,128.0	7,087.5	7,087.5	18.2	142.1	91.00	-5,661.3	-716.7	5,247.4	5,087.2	160.18	32.760	
7,600.0	7,127.9	7,087.4	7,087.4	18.4	142.0	91.00	-5,661.3	-716.7	5,226.3	5,065.9	160.40	32.584	
7,677.1	7,127.7	7,087.2	7,087.2	19.2	142.0	90.98	-5,661.3	-716.7	5,149.8	4,988.5	161.26	31.935	
7,700.0	7,127.7	7,087.2	7,087.2	19.5	142.0	90.98	-5,661.3	-716.7	5,127.1	4,965.6	161.51	31.745	
7,775.6	7,127.5	7,087.0	7,087.0	20.3	142.0	90.96	-5,661.3	-716.7	5,052.2	4,889.9	162.31	31.128	
7,800.0	7,127.5	7,087.0	7,087.0	20.5	142.0	90.96	-5,661.3	-716.7	5,028.0	4,865.4	162.56	30.929	
7,874.0	7,127.3	7,086.8	7,086.8	21.4	142.0	90.95	-5,661.3	-716.7	4,954.7	4,791.3	163.42	30.319	
7,900.0	7,127.2	7,086.7	7,086.7	21.7	142.0	90.94	-5,661.3	-716.7	4,928.9	4,765.2	163.72	30.106	
7,972.4	7,127.1	7,086.6	7,086.6	22.7	142.0	90.93	-5,661.3	-716.7	4,857.2	4,692.5	164.73	29.485	
8,000.0	7,127.0	7,086.5	7,086.5	23.1	142.0	90.92	-5,661.3	-716.7	4,829.9	4,664.8	165.12	29.251	
8,070.8	7,126.8	7,086.3	7,086.3	24.2	142.0	90.91	-5,661.3	-716.7	4,759.8	4,593.6	166.16	28.646	
8,100.0	7,126.8	7,086.3	7,086.3	24.6	142.0	90.90	-5,661.3	-716.7	4,730.9	4,564.3	166.59	28.399	
8,169.3	7,126.6	7,086.1	7,086.1	25.6	142.0	90.89	-5,661.3	-716.7	4,662.3	4,494.7	167.64	27.811	
8,200.0	7,126.6	7,086.1	7,086.1	26.1	142.0	90.88	-5,661.3	-716.7	4,631.9	4,463.8	168.11	27.553	
8,267.7	7,126.4	7,085.9	7,085.9	27.2	142.0	90.87	-5,661.3	-716.7	4,565.0	4,395.8	169.18	26.983	
8,300.0	7,126.3	7,085.8	7,085.8	27.7	142.0	90.86	-5,661.3	-716.7	4,533.0	4,363.3	169.69	26.714	
8,366.1	7,126.2	7,085.7	7,085.7	28.8	142.0	90.85	-5,661.3	-716.7	4,467.7	4,296.9	170.75	26.164	
8,400.0	7,126.1	7,085.6	7,085.6	29.3	142.0	90.84	-5,661.3	-716.7	4,434.2	4,262.9	171.30	25.885	
8,464.5	7,126.0	7,085.5	7,085.5	30.4	142.0	90.83	-5,661.3	-716.7	4,370.4	4,198.0	172.37	25.355	
8,500.0	7,125.9	7,085.4	7,085.4	31.0	142.0	90.82	-5,661.3	-716.7	4,335.4	4,162.4	172.95	25.067	
8,563.0	7,125.7	7,085.2	7,085.2	32.0	142.0	90.81	-5,661.3	-716.7	4,273.2	4,099.2	174.01	24.557	
8,600.0	7,125.6	7,085.1	7,085.1	32.6	142.0	90.80	-5,661.3	-716.7	4,236.6	4,062.0	174.63	24.260	
8,661.4	7,125.5	7,085.0	7,085.0	33.7	142.0	90.79	-5,661.3	-716.7	4,176.0	4,000.3	175.68	23.771	
8,700.0	7,125.4	7,084.9	7,084.9	34.4	142.0	90.78	-5,661.3	-716.7	4,137.9	3,961.6	176.33	23.466	
8,759.8	7,125.3	7,084.8	7,084.8	35.4	142.0	90.77	-5,661.3	-716.7	4,078.9	3,901.5	177.37	22.997	
8,800.0	7,125.2	7,084.7	7,084.7	36.1	142.0	90.77	-5,661.3	-716.7	4,039.3	3,861.2	178.06	22.685	
8,858.2	7,125.1	7,084.6	7,084.6	37.1	142.0	90.75	-5,661.3	-716.7	3,981.9	3,802.8	179.08	22.236	
8,900.0	7,125.0	7,084.5	7,084.5	37.8	142.0	90.75	-5,661.3	-716.7	3,940.7	3,760.9	179.80	21.917	
8,956.7	7,124.8	7,084.3	7,084.3	38.8	142.0	90.74	-5,661.3	-716.7	3,884.9	3,704.1	180.80	21.487	
9,000.0	7,124.7	7,084.2	7,084.2	39.6	142.0	90.73	-5,661.3	-716.7	3,842.2	3,660.7	181.56	21.162	
9,055.1	7,124.6	7,084.1	7,084.1	40.6	142.0	90.72	-5,661.3	-716.7	3,788.0	3,605.5	182.54	20.752	
9,100.0	7,124.5	7,084.0	7,084.0	41.4	142.0	90.71	-5,661.3	-716.7	3,743.8	3,560.5	183.34	20.421	
9,153.5	7,124.4	7,083.9	7,083.9	42.3	142.0	90.70	-5,661.3	-716.7	3,691.2	3,506.9	184.29	20.029	
9,200.0	7,124.3	7,083.8	7,083.8	43.2	142.0	90.69	-5,661.3	-716.7	3,645.5	3,460.4	185.12	19.693	
9,251.9	7,124.2	7,083.7	7,083.7	44.1	142.0	90.68	-5,661.3	-716.7	3,594.5	3,408.4	186.05	19.319	
9,300.0	7,124.1	7,083.6	7,083.6	45.0	142.0	90.67	-5,661.3	-716.7	3,547.3	3,360.4	186.92	18.978	
9,350.4	7,123.9	7,083.4	7,083.4	45.9	142.0	90.66	-5,661.3	-716.7	3,497.8	3,310.0	187.83	18.623	
9,400.0	7,123.8	7,083.3	7,083.3	46.8	142.0	90.65	-5,661.3	-716.7	3,449.2	3,260.4	188.72	18.276	
9,448.8	7,123.7	7,083.2	7,083.2	47.7	142.0	90.64	-5,661.3	-716.7	3,401.3	3,211.7	189.61	17.939	
9,500.0	7,123.6	7,083.1	7,083.1	48.6	142.0	90.63	-5,661.3	-716.7	3,351.2	3,160.6	190.54	17.588	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
9,547.2	7,123.5	7,083.0	7,083.0	49.4	142.0	90.62	-5,661.3	-716.7	3,304.9	3,113.5	191.40	17.267	
9,600.0	7,123.4	7,082.9	7,082.9	50.4	142.0	90.61	-5,661.3	-716.7	3,253.3	3,060.9	192.36	16.912	
9,645.6	7,123.3	7,082.8	7,082.8	51.2	142.0	90.60	-5,661.3	-716.7	3,208.6	3,015.4	193.19	16.608	
9,700.0	7,123.2	7,082.7	7,082.7	52.2	142.0	90.59	-5,661.3	-716.7	3,155.5	2,961.3	194.19	16.250	
9,744.1	7,123.1	7,082.6	7,082.6	53.1	142.0	90.58	-5,661.3	-716.7	3,112.5	2,917.5	195.00	15.962	
9,800.0	7,122.9	7,082.4	7,082.4	54.1	141.9	90.57	-5,661.3	-716.7	3,057.9	2,861.9	196.02	15.600	
9,842.5	7,122.8	7,082.3	7,082.3	54.9	141.9	90.56	-5,661.3	-716.7	3,016.5	2,819.6	196.80	15.327	
9,900.0	7,122.7	7,082.2	7,082.2	55.9	141.9	90.55	-5,661.3	-716.7	2,960.4	2,762.6	197.86	14.962	
9,940.9	7,122.6	7,082.1	7,082.1	56.7	141.9	90.54	-5,661.3	-716.7	2,920.6	2,722.0	198.62	14.705	
10,000.0	7,122.5	7,082.0	7,082.0	57.8	141.9	90.53	-5,661.3	-716.7	2,863.2	2,663.5	199.71	14.337	
10,039.3	7,122.4	7,081.9	7,081.9	58.5	141.9	90.53	-5,661.3	-716.7	2,824.9	2,624.5	200.43	14.094	
10,100.0	7,122.3	7,081.8	7,081.8	59.6	141.9	90.51	-5,661.3	-716.7	2,766.1	2,564.5	201.56	13.724	
10,137.8	7,122.2	7,081.7	7,081.7	60.3	141.9	90.51	-5,661.3	-716.7	2,729.5	2,527.2	202.26	13.495	
10,200.0	7,122.0	7,081.5	7,081.5	61.5	141.9	90.49	-5,661.3	-716.7	2,669.2	2,465.8	203.41	13.122	
10,236.2	7,121.9	7,081.4	7,081.4	62.2	141.9	90.49	-5,661.3	-716.7	2,634.2	2,430.1	204.08	12.908	
10,300.0	7,121.8	7,081.3	7,081.3	63.3	141.9	90.48	-5,661.3	-716.7	2,572.6	2,367.3	205.27	12.533	
10,334.6	7,121.7	7,081.2	7,081.2	64.0	141.9	90.47	-5,661.3	-716.7	2,539.2	2,333.3	205.91	12.331	
10,400.0	7,121.6	7,081.1	7,081.1	65.2	141.9	90.46	-5,661.3	-716.7	2,476.2	2,269.1	207.13	11.955	
10,433.0	7,121.5	7,081.0	7,081.0	65.8	141.9	90.45	-5,661.3	-716.7	2,444.4	2,236.7	207.74	11.767	
10,500.0	7,121.4	7,080.9	7,080.9	67.1	141.9	90.44	-5,661.3	-716.7	2,380.2	2,171.2	208.99	11.389	
10,531.5	7,121.3	7,080.8	7,080.8	67.7	141.9	90.43	-5,661.3	-716.7	2,350.0	2,140.4	209.58	11.213	
10,600.0	7,121.1	7,080.6	7,080.6	69.0	141.9	90.42	-5,661.3	-716.7	2,284.4	2,073.6	210.86	10.834	
10,629.9	7,121.1	7,080.6	7,080.6	69.5	141.9	90.41	-5,661.3	-716.7	2,255.9	2,044.5	211.42	10.670	
10,700.0	7,120.9	7,080.4	7,080.4	70.8	141.9	90.40	-5,661.3	-716.7	2,189.1	1,976.4	212.73	10.291	
10,728.3	7,120.8	7,080.3	7,080.3	71.4	141.9	90.39	-5,661.3	-716.7	2,162.2	1,948.9	213.26	10.139	
10,800.0	7,120.7	7,080.2	7,080.2	72.7	141.9	90.38	-5,661.3	-716.7	2,094.2	1,879.6	214.60	9.759	
10,826.7	7,120.6	7,080.1	7,080.1	73.2	141.9	90.37	-5,661.3	-716.7	2,068.9	1,853.8	215.10	9.618	
10,900.0	7,120.5	7,080.0	7,080.0	74.6	141.9	90.36	-5,661.3	-716.7	1,999.8	1,783.3	216.47	9.238	
10,925.2	7,120.4	7,079.9	7,079.9	75.1	141.9	90.36	-5,661.3	-716.7	1,976.1	1,759.1	216.94	9.109	
11,000.0	7,120.2	7,079.7	7,079.7	76.5	141.9	90.34	-5,661.3	-716.7	1,905.9	1,687.6	218.35	8.729	
11,023.6	7,120.2	7,079.7	7,079.7	76.9	141.9	90.34	-5,661.3	-716.7	1,883.9	1,665.1	218.79	8.610	
11,100.0	7,120.0	7,079.5	7,079.5	78.3	141.9	90.32	-5,661.3	-716.7	1,812.7	1,592.5	220.23	8.231	
11,122.0	7,120.0	7,079.5	7,079.5	78.8	141.9	90.32	-5,661.3	-716.7	1,792.3	1,571.7	220.64	8.123	
11,200.0	7,119.8	7,079.3	7,079.3	80.2	141.9	90.30	-5,661.3	-716.7	1,720.3	1,498.2	222.10	7.746	
11,220.4	7,119.7	7,079.2	7,079.2	80.6	141.9	90.30	-5,661.3	-716.7	1,701.5	1,479.0	222.49	7.648	
11,300.0	7,119.5	7,079.0	7,079.0	82.1	141.9	90.28	-5,661.3	-716.7	1,628.8	1,404.8	223.99	7.272	
11,318.9	7,119.5	7,079.0	7,079.0	82.5	141.9	90.28	-5,661.3	-716.7	1,611.6	1,387.3	224.34	7.184	
11,400.0	7,119.3	7,078.8	7,078.8	84.0	141.9	90.26	-5,661.3	-716.7	1,538.3	1,312.5	225.87	6.811	
11,417.3	7,119.3	7,078.8	7,078.8	84.3	141.9	90.26	-5,661.3	-716.7	1,522.8	1,296.6	226.19	6.732	
11,500.0	7,119.1	7,078.6	7,078.6	85.9	141.9	90.25	-5,661.3	-716.7	1,449.1	1,221.4	227.75	6.363	
11,515.7	7,119.1	7,078.6	7,078.6	86.2	141.9	90.24	-5,661.3	-716.7	1,435.2	1,207.2	228.05	6.294	
11,600.0	7,118.9	7,078.4	7,078.4	87.8	141.9	90.23	-5,661.3	-716.7	1,361.4	1,131.8	229.64	5.929	
11,614.1	7,118.8	7,078.3	7,078.3	88.0	141.9	90.22	-5,661.3	-716.7	1,349.2	1,119.2	229.90	5.868	
11,700.0	7,118.6	7,078.1	7,078.1	89.7	141.9	90.21	-5,661.3	-716.7	1,275.5	1,044.0	231.52	5.509	
11,712.6	7,118.6	7,078.1	7,078.1	89.9	141.9	90.20	-5,661.3	-716.7	1,264.9	1,033.1	231.76	5.458	
11,800.0	7,118.4	7,077.9	7,077.9	91.6	141.9	90.19	-5,661.3	-716.7	1,191.8	958.4	233.41	5.106	
11,811.0	7,118.4	7,077.9	7,077.9	91.8	141.9	90.19	-5,661.3	-716.7	1,182.8	949.2	233.62	5.063	
11,900.0	7,118.2	7,077.7	7,077.7	93.4	141.9	90.17	-5,661.3	-716.7	1,110.8	875.5	235.30	4.721	
11,909.4	7,118.2	7,077.7	7,077.7	93.6	141.9	90.17	-5,661.3	-716.7	1,103.4	867.9	235.48	4.686	
12,000.0	7,118.0	7,077.5	7,077.5	95.3	141.8	90.15	-5,661.3	-716.7	1,033.2	796.0	237.19	4.356	
12,007.8	7,118.0	7,077.5	7,077.5	95.5	141.8	90.15	-5,661.3	-716.7	1,027.2	789.9	237.34	4.328	
12,100.0	7,117.8	7,077.3	7,077.3	97.2	141.8	90.13	-5,661.3	-716.7	959.6	720.6	239.08	4.014	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
12,106.3	7,117.7	7,077.2	7,077.2	97.4	141.8	90.13	-5,661.3	-716.7	955.2	716.0	239.20	3.993	
12,200.0	7,117.5	7,077.0	7,077.0	99.1	141.8	90.11	-5,661.3	-716.7	891.3	650.3	240.97	3.699	
12,204.7	7,117.5	7,077.0	7,077.0	99.2	141.8	90.11	-5,661.3	-716.7	888.2	647.2	241.06	3.685	
12,300.0	7,117.3	7,076.8	7,076.8	101.0	141.8	90.09	-5,661.3	-716.7	829.4	586.5	242.87	3.415	
12,303.1	7,117.3	7,076.8	7,076.8	101.1	141.8	90.09	-5,661.3	-716.7	827.6	584.7	242.93	3.407	
12,400.0	7,117.1	7,076.6	7,076.6	102.9	141.8	90.07	-5,661.3	-716.7	775.5	530.7	244.76	3.168	
12,401.5	7,117.1	7,076.6	7,076.6	103.0	141.8	90.07	-5,661.3	-716.7	774.7	529.9	244.79	3.165	
12,500.0	7,116.9	7,076.4	7,076.4	104.8	141.8	90.05	-5,661.3	-716.7	731.3	484.7	246.65	2.965	
12,598.4	7,116.6	7,076.1	7,076.1	106.7	141.8	90.04	-5,661.3	-716.7	699.2	450.7	248.52	2.814	
12,600.0	7,116.6	7,076.1	7,076.1	106.7	141.8	90.03	-5,661.3	-716.7	698.8	450.3	248.55	2.812	
12,696.8	7,116.4	7,075.9	7,075.9	108.6	141.8	90.02	-5,661.3	-716.7	680.0	429.6	250.39	2.716	
12,700.0	7,116.4	7,075.9	7,075.9	108.6	141.8	90.02	-5,661.3	-716.7	679.6	429.1	250.45	2.714	
12,782.6	7,116.2	7,075.7	7,075.7	110.2	141.8	90.00	-5,661.3	-716.7	674.6	422.5	252.01	2.677 CC	
12,795.2	7,116.2	7,075.7	7,075.7	110.4	141.8	90.00	-5,661.3	-716.7	674.7	422.4	252.25	2.675 ES	
12,800.0	7,116.2	7,075.7	7,075.7	110.5	141.8	90.00	-5,661.3	-716.7	674.8	422.4	252.34	2.674 SF	
12,893.7	7,116.0	7,075.5	7,075.5	112.3	141.8	89.98	-5,661.3	-716.7	683.6	429.5	254.12	2.690	
12,900.0	7,116.0	7,075.5	7,075.5	112.4	141.8	89.98	-5,661.3	-716.7	684.7	430.5	254.24	2.693	
12,992.1	7,115.7	7,075.2	7,075.2	114.2	141.8	89.96	-5,661.3	-716.7	706.4	450.4	255.99	2.759	
13,000.0	7,115.7	7,075.2	7,075.2	114.3	141.8	89.96	-5,661.3	-716.7	708.7	452.6	256.14	2.767	
13,090.5	7,115.5	7,075.0	7,075.0	116.1	141.8	89.94	-5,661.3	-716.7	741.5	483.7	257.85	2.876	
13,100.0	7,115.5	7,075.0	7,075.0	116.2	141.8	89.94	-5,661.3	-716.7	745.5	487.5	258.03	2.889	
13,188.9	7,115.3	7,074.8	7,074.8	117.9	141.8	89.92	-5,661.3	-716.7	787.5	527.8	259.72	3.032	
13,200.0	7,115.3	7,074.8	7,074.8	118.1	141.8	89.92	-5,661.3	-716.7	793.3	533.3	259.93	3.052	
13,287.4	7,115.1	7,074.6	7,074.6	119.8	141.8	89.90	-5,661.3	-716.7	842.5	580.9	261.59	3.221	
13,300.0	7,115.1	7,074.6	7,074.6	120.0	141.8	89.90	-5,661.3	-716.7	850.2	588.3	261.83	3.247	
13,385.8	7,114.9	7,074.4	7,074.4	121.7	141.8	89.89	-5,661.3	-716.7	904.9	641.5	263.46	3.435	
13,400.0	7,114.8	7,074.3	7,074.3	121.9	141.8	89.88	-5,661.3	-716.7	914.5	650.7	263.73	3.467	
13,484.2	7,114.6	7,074.1	7,074.1	123.6	141.8	89.87	-5,661.3	-716.7	973.3	708.0	265.33	3.668	
13,500.0	7,114.6	7,074.1	7,074.1	123.9	141.8	89.86	-5,661.3	-716.7	984.8	719.1	265.63	3.707	
13,582.6	7,114.4	7,073.9	7,073.9	125.4	141.8	89.85	-5,661.3	-716.7	1,046.5	779.3	267.20	3.917	
13,600.0	7,114.4	7,073.9	7,073.9	125.8	141.8	89.84	-5,661.3	-716.7	1,059.8	792.3	267.53	3.961	
13,681.1	7,114.2	7,073.7	7,073.7	127.3	141.8	89.83	-5,661.3	-716.7	1,123.5	854.5	269.07	4.176	
13,700.0	7,114.2	7,073.7	7,073.7	127.7	141.8	89.83	-5,661.3	-716.7	1,138.7	869.3	269.43	4.226	
13,779.5	7,114.0	7,073.5	7,073.5	129.2	141.8	89.81	-5,661.3	-716.7	1,203.7	932.8	270.95	4.443	
13,800.0	7,113.9	7,073.4	7,073.4	129.6	141.8	89.81	-5,661.3	-716.7	1,220.7	949.4	271.33	4.499	
13,877.9	7,113.8	7,073.3	7,073.3	131.1	141.8	89.79	-5,661.3	-716.7	1,286.4	1,013.6	272.82	4.715	
13,900.0	7,113.7	7,073.2	7,073.2	131.5	141.8	89.79	-5,661.3	-716.7	1,305.3	1,032.0	273.24	4.777	
13,976.3	7,113.5	7,073.0	7,073.0	132.9	141.8	89.77	-5,661.3	-716.7	1,371.2	1,096.5	274.69	4.992	
14,000.0	7,113.5	7,073.0	7,073.0	133.4	141.8	89.77	-5,661.3	-716.7	1,391.8	1,116.7	275.14	5.059	
14,074.8	7,113.3	7,072.8	7,072.8	134.8	141.8	89.75	-5,661.3	-716.7	1,457.7	1,181.1	276.56	5.271	
14,100.0	7,113.3	7,072.8	7,072.8	135.3	141.8	89.75	-5,661.3	-716.7	1,480.1	1,203.1	277.04	5.342	
14,173.2	7,113.1	7,072.6	7,072.6	136.7	141.8	89.74	-5,661.3	-716.7	1,545.6	1,267.2	278.43	5.551	
14,200.0	7,113.0	7,072.5	7,072.5	137.2	141.8	89.73	-5,661.3	-716.7	1,569.8	1,290.8	278.94	5.628	
14,219.1	7,113.0	7,072.5	7,072.5	137.6	141.7	89.73	-5,661.3	-716.7	1,587.1	1,307.8	279.31	5.682	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	175.70	-7,165.9	538.3	7,186.1				
98.4	98.4	82.9	82.9	0.1	0.6	175.70	-7,165.9	538.3	7,186.1	7,185.4	0.68	N/A	
100.0	100.0	84.5	84.5	0.1	0.6	175.70	-7,165.9	538.3	7,186.1	7,185.4	0.69	N/A	
196.8	196.8	181.3	181.3	0.3	2.7	175.70	-7,165.9	538.3	7,186.1	7,183.1	2.98	2,408.045	
200.0	200.0	184.5	184.5	0.3	2.7	175.70	-7,165.9	538.3	7,186.1	7,183.0	3.07	2,342.793	
295.3	295.3	279.8	279.8	0.5	4.8	175.70	-7,165.9	538.3	7,186.1	7,180.8	5.32	1,351.714	
300.0	300.0	284.5	284.5	0.5	4.9	175.70	-7,165.9	538.3	7,186.1	7,180.7	5.43	1,324.561	
393.7	393.7	378.2	378.2	0.8	6.8	175.70	-7,165.9	538.3	7,186.1	7,178.5	7.56	951.141	
400.0	400.0	384.5	384.5	0.8	6.9	175.70	-7,165.9	538.3	7,186.1	7,178.4	7.70	933.497	
492.1	492.1	476.6	476.6	1.0	8.8	175.70	-7,165.9	538.3	7,186.1	7,176.3	9.78	735.091	
500.0	500.0	484.5	484.5	1.0	9.0	175.70	-7,165.9	538.3	7,186.1	7,176.1	9.95	721.987	
590.5	590.5	575.0	575.0	1.2	10.8	175.70	-7,165.9	538.3	7,186.1	7,174.1	11.99	599.404	
600.0	600.0	584.5	584.5	1.2	11.0	175.70	-7,165.9	538.3	7,186.1	7,173.9	12.20	588.973	
689.0	689.0	673.5	673.5	1.4	12.8	175.70	-7,165.9	538.3	7,186.1	7,171.9	14.20	506.143	
700.0	700.0	684.5	684.5	1.4	13.0	175.70	-7,165.9	538.3	7,186.1	7,171.6	14.45	497.477	
787.4	787.4	771.9	771.9	1.6	14.8	175.70	-7,165.9	538.3	7,186.1	7,169.7	16.40	438.058	
800.0	800.0	784.5	784.5	1.7	15.0	175.70	-7,165.9	538.3	7,186.1	7,169.4	16.69	430.644	
885.8	885.8	870.3	870.3	1.9	16.7	175.70	-7,165.9	538.3	7,186.1	7,167.5	18.61	386.149	
900.0	900.0	884.5	884.5	1.9	17.0	175.70	-7,165.9	538.3	7,186.1	7,167.2	18.93	379.671	
984.2	984.2	968.7	968.7	2.1	18.7	175.70	-7,165.9	538.3	7,186.1	7,165.3	20.81	345.256	
1,000.0	1,000.0	984.5	984.5	2.1	19.0	175.70	-7,165.9	538.3	7,186.1	7,164.9	21.17	339.503	
1,082.7	1,082.7	1,067.2	1,067.2	2.3	20.7	175.70	-7,165.9	538.3	7,186.1	7,163.1	23.02	312.204	
1,100.0	1,100.0	1,084.5	1,084.5	2.3	21.1	175.70	-7,165.9	538.3	7,186.1	7,162.7	23.41	307.030	
1,181.1	1,181.1	1,165.6	1,165.6	2.5	22.7	175.70	-7,165.9	538.3	7,186.1	7,160.9	25.22	284.933	
1,200.0	1,200.0	1,184.5	1,184.5	2.6	23.1	175.70	-7,165.9	538.3	7,186.1	7,160.4	25.64	280.233	
1,279.5	1,279.5	1,264.0	1,264.0	2.7	24.7	175.70	-7,165.9	538.3	7,186.1	7,158.7	27.42	262.048	
1,300.0	1,300.0	1,284.5	1,284.5	2.8	25.1	175.70	-7,165.9	538.3	7,186.1	7,158.2	27.88	257.741	
1,377.9	1,377.9	1,362.4	1,362.4	3.0	26.7	179.99	-7,165.9	538.3	7,187.1	7,157.5	29.61	242.690	
1,400.0	1,400.0	1,384.5	1,384.5	3.0	27.1	179.99	-7,165.9	538.3	7,187.8	7,157.7	30.10	238.795	
1,476.4	1,476.3	1,460.8	1,460.8	3.2	28.6	179.99	-7,165.9	538.3	7,191.5	7,159.7	31.77	226.382	
1,500.0	1,499.8	1,484.3	1,484.3	3.2	29.1	179.99	-7,165.9	538.3	7,193.1	7,160.8	32.28	222.858	
1,574.8	1,574.4	1,558.9	1,558.9	3.4	30.6	179.99	-7,165.9	538.3	7,199.3	7,165.4	33.87	212.554	
1,600.0	1,599.5	1,584.0	1,584.0	3.5	31.1	179.99	-7,165.9	538.3	7,201.8	7,167.4	34.40	209.358	
1,673.2	1,672.2	1,656.7	1,656.7	3.6	32.6	179.99	-7,165.9	538.3	7,210.4	7,174.4	35.92	200.761	
1,700.0	1,698.7	1,683.2	1,683.2	3.7	33.1	179.99	-7,165.9	538.3	7,214.0	7,177.5	36.46	197.860	
1,771.6	1,769.5	1,754.0	1,754.0	3.9	34.5	179.99	-7,165.9	538.3	7,224.8	7,186.9	37.89	190.658	
1,800.0	1,797.5	1,782.0	1,782.0	4.0	35.1	179.99	-7,165.9	538.3	7,229.6	7,191.2	38.45	188.025	
1,870.1	1,866.3	1,850.8	1,850.8	4.2	36.5	179.99	-7,165.9	538.3	7,242.6	7,202.8	39.80	181.980	
1,900.1	1,895.8	1,880.3	1,880.3	4.3	37.1	179.99	-7,165.9	538.3	7,248.7	7,208.3	40.36	179.582	
1,968.5	1,962.6	1,947.1	1,947.1	4.5	38.4	179.99	-7,165.9	538.3	7,262.9	7,221.1	41.84	173.577	
2,000.0	1,993.4	1,977.9	1,977.9	4.6	39.0	179.99	-7,165.9	538.3	7,269.5	7,227.0	42.52	170.952	
2,066.9	2,058.9	2,043.4	2,043.4	4.8	40.4	179.99	-7,165.9	538.3	7,283.4	7,239.4	43.98	165.622	
2,100.0	2,091.3	2,075.8	2,075.8	4.9	41.0	179.99	-7,165.9	538.3	7,290.3	7,245.6	44.69	163.133	
2,165.3	2,155.2	2,139.7	2,139.7	5.1	42.3	179.99	-7,165.9	538.3	7,303.9	7,257.8	46.10	158.422	
2,200.0	2,189.1	2,173.6	2,173.6	5.3	43.0	179.99	-7,165.9	538.3	7,311.1	7,264.2	46.86	156.027	
2,263.8	2,251.4	2,235.9	2,235.9	5.5	44.2	179.99	-7,165.9	538.3	7,324.3	7,276.1	48.24	151.825	
2,300.0	2,286.9	2,271.4	2,271.4	5.6	44.9	179.99	-7,165.9	538.3	7,331.9	7,282.8	49.03	149.542	
2,362.2	2,347.7	2,332.2	2,332.2	5.9	46.2	179.99	-7,165.9	538.3	7,344.8	7,294.4	50.38	145.787	
2,400.0	2,384.7	2,369.2	2,369.2	6.0	46.9	179.99	-7,165.9	538.3	7,352.7	7,301.5	51.20	143.601	
2,460.6	2,444.0	2,428.5	2,428.5	6.3	48.1	179.99	-7,165.9	538.3	7,365.3	7,312.8	52.52	140.236	
2,500.0	2,482.5	2,467.0	2,467.0	6.4	48.9	179.99	-7,165.9	538.3	7,373.5	7,320.1	53.38	138.139	
2,559.0	2,540.3	2,524.8	2,524.8	6.6	50.0	179.99	-7,165.9	538.3	7,385.7	7,331.1	54.66	135.116	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
2,600.0	2,580.3	2,564.8	2,564.8	6.8	50.8	179.99	-7,165.9	538.3	7,394.3	7,338.7	55.55	133.101	
2,617.6	2,597.5	2,582.0	2,582.0	6.9	51.2	179.99	-7,165.9	538.3	7,397.9	7,342.0	55.94	132.254	
2,657.5	2,636.6	2,621.1	2,621.1	7.0	52.0	179.99	-7,165.9	538.3	7,405.9	7,349.0	56.95	130.046	
2,700.0	2,678.4	2,662.9	2,662.9	7.2	52.8	179.99	-7,165.9	538.3	7,413.9	7,355.9	58.02	127.777	
2,755.9	2,733.5	2,718.0	2,718.0	7.3	53.9	179.99	-7,165.9	538.3	7,423.4	7,364.0	59.41	124.956	
2,800.0	2,777.0	2,761.5	2,761.5	7.4	54.8	179.99	-7,165.9	538.3	7,430.1	7,369.7	60.49	122.826	
2,854.3	2,830.9	2,815.4	2,815.4	7.6	55.9	179.99	-7,165.9	538.3	7,437.5	7,375.7	61.82	120.316	
2,900.0	2,876.2	2,860.7	2,860.7	7.7	56.8	179.99	-7,165.9	538.3	7,442.9	7,380.0	62.92	118.295	
2,952.7	2,928.7	2,913.2	2,913.2	7.8	57.9	179.99	-7,165.9	538.3	7,448.3	7,384.1	64.18	116.062	
3,000.0	2,975.8	2,960.3	2,960.3	7.9	58.8	179.99	-7,165.9	538.3	7,452.3	7,387.0	65.29	114.147	
3,051.2	3,026.8	3,011.3	3,011.3	8.0	59.8	179.99	-7,165.9	538.3	7,455.7	7,389.2	66.47	112.161	
3,100.0	3,075.6	3,060.1	3,060.1	8.1	60.8	179.99	-7,165.9	538.3	7,458.1	7,390.5	67.59	110.346	
3,149.6	3,125.2	3,109.7	3,109.7	8.2	61.8	179.99	-7,165.9	538.3	7,459.7	7,391.0	68.70	108.582	
3,200.0	3,175.6	3,160.1	3,160.1	8.3	62.8	179.99	-7,165.9	538.3	7,460.5	7,390.7	69.81	106.865	
3,217.7	3,193.3	3,177.8	3,177.8	8.3	63.2	175.70	-7,165.9	538.3	7,460.5	7,390.4	70.20	106.279	
3,248.0	3,223.6	3,208.1	3,208.1	8.4	63.8	175.70	-7,165.9	538.3	7,460.5	7,389.7	70.87	105.277	
3,300.0	3,275.6	3,260.1	3,260.1	8.5	64.8	175.70	-7,165.9	538.3	7,460.5	7,388.5	72.01	103.601	
3,346.4	3,322.0	3,306.5	3,306.5	8.6	65.8	175.70	-7,165.9	538.3	7,460.5	7,387.5	73.05	102.135	
3,400.0	3,375.6	3,360.1	3,360.1	8.7	66.8	175.70	-7,165.9	538.3	7,460.5	7,386.3	74.24	100.496	
3,444.9	3,420.4	3,404.9	3,404.9	8.7	67.7	175.70	-7,165.9	538.3	7,460.5	7,385.3	75.24	99.161	
3,500.0	3,475.6	3,460.1	3,460.1	8.8	68.9	175.70	-7,165.9	538.3	7,460.5	7,384.1	76.46	97.570	
3,543.3	3,518.9	3,503.4	3,503.4	8.9	69.7	175.70	-7,165.9	538.3	7,460.5	7,383.1	77.43	96.356	
3,600.0	3,575.6	3,560.1	3,560.1	9.0	70.9	175.70	-7,165.9	538.3	7,460.5	7,381.9	78.69	94.810	
3,641.7	3,617.3	3,601.8	3,601.8	9.1	71.7	175.70	-7,165.9	538.3	7,460.5	7,380.9	79.62	93.703	
3,700.0	3,675.6	3,660.1	3,660.1	9.2	72.9	175.70	-7,165.9	538.3	7,460.5	7,379.6	80.92	92.201	
3,740.1	3,715.7	3,700.2	3,700.2	9.3	73.7	175.70	-7,165.9	538.3	7,460.5	7,378.7	81.81	91.193	
3,800.0	3,775.6	3,760.1	3,760.1	9.4	74.9	175.70	-7,165.9	538.3	7,460.5	7,377.4	83.14	89.731	
3,838.6	3,814.1	3,798.6	3,798.6	9.5	75.7	175.70	-7,165.9	538.3	7,460.5	7,376.5	84.00	88.813	
3,900.0	3,875.6	3,860.1	3,860.1	9.6	76.9	175.70	-7,165.9	538.3	7,460.5	7,375.2	85.37	87.389	
3,937.0	3,912.6	3,897.1	3,897.1	9.7	77.6	175.70	-7,165.9	538.3	7,460.5	7,374.4	86.20	86.553	
4,000.0	3,975.6	3,960.1	3,960.1	9.8	78.9	175.70	-7,165.9	538.3	7,460.5	7,372.9	87.60	85.166	
4,035.4	4,011.0	3,995.5	3,995.5	9.9	79.6	175.70	-7,165.9	538.3	7,460.5	7,372.2	88.39	84.406	
4,100.0	4,075.6	4,060.1	4,060.1	10.0	80.9	175.70	-7,165.9	538.3	7,460.5	7,370.7	89.83	83.053	
4,133.8	4,109.4	4,093.9	4,093.9	10.0	81.6	175.70	-7,165.9	538.3	7,460.5	7,370.0	90.58	82.362	
4,200.0	4,175.6	4,160.1	4,160.1	10.2	82.9	175.70	-7,165.9	538.3	7,460.5	7,368.5	92.06	81.043	
4,232.3	4,207.8	4,192.3	4,192.3	10.2	83.6	175.70	-7,165.9	538.3	7,460.5	7,367.8	92.78	80.414	
4,300.0	4,275.6	4,260.1	4,260.1	10.4	84.9	175.70	-7,165.9	538.3	7,460.5	7,366.3	94.29	79.127	
4,330.7	4,306.3	4,290.8	4,290.8	10.4	85.6	175.70	-7,165.9	538.3	7,460.5	7,365.6	94.97	78.556	
4,400.0	4,375.6	4,360.1	4,360.1	10.6	87.0	175.70	-7,165.9	538.3	7,460.5	7,364.0	96.52	77.299	
4,429.1	4,404.7	4,389.2	4,389.2	10.6	87.5	175.70	-7,165.9	538.3	7,460.5	7,363.4	97.17	76.782	
4,500.0	4,475.6	4,460.1	4,460.1	10.8	89.0	175.70	-7,165.9	538.3	7,460.5	7,361.8	98.75	75.553	
4,527.5	4,503.1	4,487.6	4,487.6	10.8	89.5	175.70	-7,165.9	538.3	7,460.5	7,361.2	99.36	75.086	
4,600.0	4,575.6	4,560.1	4,560.1	11.0	91.0	175.70	-7,165.9	538.3	7,460.5	7,359.6	100.98	73.885	
4,626.0	4,601.5	4,586.0	4,586.0	11.0	91.5	175.70	-7,165.9	538.3	7,460.5	7,359.0	101.55	73.463	
4,700.0	4,675.6	4,660.1	4,660.1	11.2	93.0	175.70	-7,165.9	538.3	7,460.5	7,357.3	103.21	72.288	
4,724.4	4,700.0	4,684.5	4,684.5	11.2	93.5	175.70	-7,165.9	538.3	7,460.5	7,356.8	103.75	71.909	
4,800.0	4,775.6	4,760.1	4,760.1	11.4	95.0	175.70	-7,165.9	538.3	7,460.5	7,355.1	105.44	70.759	
4,822.8	4,798.4	4,782.9	4,782.9	11.4	95.5	175.70	-7,165.9	538.3	7,460.5	7,354.6	105.95	70.419	
4,900.0	4,875.6	4,860.1	4,860.1	11.6	97.0	175.70	-7,165.9	538.3	7,460.5	7,352.9	107.67	69.293	
4,921.2	4,896.8	4,881.3	4,881.3	11.6	97.4	175.70	-7,165.9	538.3	7,460.5	7,352.4	108.14	68.989	
5,000.0	4,975.6	4,960.1	4,960.1	11.8	99.0	175.70	-7,165.9	538.3	7,460.5	7,350.7	109.90	67.886	
5,019.7	4,995.2	4,979.7	4,979.7	11.8	99.4	175.70	-7,165.9	538.3	7,460.5	7,350.2	110.34	67.616	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
5,100.0	5,075.6	5,060.1	5,060.1	12.0	101.0	175.70	-7,165.9	538.3	7,460.5	7,348.4	112.13	66.535	
5,118.1	5,093.7	5,078.2	5,078.2	12.0	101.4	175.70	-7,165.9	538.3	7,460.5	7,348.0	112.53	66.296	
5,200.0	5,175.6	5,160.1	5,160.1	12.2	103.0	175.70	-7,165.9	538.3	7,460.5	7,346.2	114.36	65.237	
5,216.5	5,192.1	5,176.6	5,176.6	12.2	103.4	175.70	-7,165.9	538.3	7,460.5	7,345.8	114.73	65.027	
5,300.0	5,275.6	5,260.1	5,260.1	12.4	105.1	175.70	-7,165.9	538.3	7,460.5	7,344.0	116.59	63.988	
5,314.9	5,290.5	5,275.0	5,275.0	12.4	105.4	175.70	-7,165.9	538.3	7,460.5	7,343.6	116.93	63.806	
5,400.0	5,375.6	5,360.1	5,360.1	12.6	107.1	175.70	-7,165.9	538.3	7,460.5	7,341.7	118.82	62.787	
5,413.4	5,388.9	5,373.4	5,373.4	12.6	107.3	175.70	-7,165.9	538.3	7,460.5	7,341.4	119.12	62.629	
5,500.0	5,475.6	5,460.1	5,460.1	12.8	109.1	175.70	-7,165.9	538.3	7,460.5	7,339.5	121.06	61.629	
5,511.8	5,487.4	5,471.9	5,471.9	12.8	109.3	175.70	-7,165.9	538.3	7,460.5	7,339.2	121.32	61.495	
5,600.0	5,575.6	5,560.1	5,560.1	13.0	111.1	175.70	-7,165.9	538.3	7,460.5	7,337.3	123.29	60.513	
5,610.2	5,585.8	5,570.3	5,570.3	13.0	111.3	175.70	-7,165.9	538.3	7,460.5	7,337.0	123.52	60.402	
5,700.0	5,675.6	5,660.1	5,660.1	13.2	113.1	175.70	-7,165.9	538.3	7,460.5	7,335.0	125.52	59.437	
5,708.6	5,684.2	5,668.7	5,668.7	13.2	113.3	175.70	-7,165.9	538.3	7,460.5	7,334.8	125.71	59.346	
5,800.0	5,775.6	5,760.1	5,760.1	13.4	115.1	175.70	-7,165.9	538.3	7,460.5	7,332.8	127.75	58.399	
5,807.1	5,782.6	5,767.1	5,767.1	13.4	115.2	175.70	-7,165.9	538.3	7,460.5	7,332.6	127.91	58.327	
5,900.0	5,875.6	5,860.1	5,860.1	13.6	117.1	175.70	-7,165.9	538.3	7,460.5	7,330.6	129.98	57.396	
5,905.5	5,881.1	5,865.6	5,865.6	13.6	117.2	175.70	-7,165.9	538.3	7,460.5	7,330.4	130.11	57.342	
6,000.0	5,975.6	5,960.1	5,960.1	13.8	119.1	175.70	-7,165.9	538.3	7,460.5	7,328.3	132.22	56.427	
6,003.9	5,979.5	5,964.0	5,964.0	13.8	119.2	175.70	-7,165.9	538.3	7,460.5	7,328.2	132.30	56.389	
6,100.0	6,075.6	6,060.1	6,060.1	14.0	121.1	175.70	-7,165.9	538.3	7,460.5	7,326.1	134.45	55.490	
6,102.3	6,077.9	6,062.4	6,062.4	14.0	121.2	175.70	-7,165.9	538.3	7,460.5	7,326.0	134.50	55.468	
6,200.0	6,175.6	6,160.1	6,160.1	14.2	123.1	175.70	-7,165.9	538.3	7,460.5	7,323.9	136.68	54.583	
6,200.8	6,176.3	6,160.8	6,160.8	14.2	123.2	175.70	-7,165.9	538.3	7,460.5	7,323.9	136.70	54.576	
6,299.2	6,274.8	6,259.3	6,259.3	14.4	125.1	175.70	-7,165.9	538.3	7,460.5	7,321.7	138.90	53.713	
6,300.0	6,275.6	6,260.1	6,260.1	14.4	125.2	175.70	-7,165.9	538.3	7,460.5	7,321.6	138.91	53.706	
6,397.6	6,373.2	6,357.7	6,357.7	14.7	127.1	175.70	-7,165.9	538.3	7,460.5	7,319.5	141.09	52.876	
6,400.0	6,375.6	6,360.1	6,360.1	14.7	127.2	175.70	-7,165.9	538.3	7,460.5	7,319.4	141.15	52.857	
6,436.2	6,411.8	6,396.3	6,396.3	14.7	127.9	175.70	-7,165.9	538.3	7,460.5	7,318.6	141.96	52.555	
6,450.0	6,425.6	6,410.1	6,410.1	14.8	128.2	-4.51	-7,165.9	538.3	7,460.4	7,318.2	142.22	52.455	
6,496.0	6,471.5	6,456.0	6,456.0	14.8	129.1	-4.52	-7,165.9	538.3	7,458.1	7,315.3	142.73	52.252	
6,500.0	6,475.5	6,460.0	6,460.0	14.8	129.2	-4.52	-7,165.9	538.3	7,457.7	7,315.0	142.75	52.243	
6,550.0	6,525.1	6,509.6	6,509.6	14.9	130.2	-4.57	-7,165.9	538.3	7,451.6	7,309.0	142.58	52.262	
6,594.5	6,568.7	6,553.2	6,553.2	14.9	131.1	-4.63	-7,165.9	538.3	7,443.2	7,301.4	141.83	52.479	
6,600.0	6,574.1	6,558.6	6,558.6	14.9	131.2	-4.64	-7,165.9	538.3	7,442.0	7,300.3	141.70	52.519	
6,650.0	6,622.4	6,606.9	6,606.9	14.9	132.1	-4.73	-7,165.9	538.3	7,429.0	7,288.9	140.11	53.024	
6,692.9	6,663.0	6,647.5	6,647.5	14.9	133.0	-4.84	-7,165.9	538.3	7,415.2	7,277.0	138.17	53.668	
6,700.0	6,669.6	6,654.1	6,654.1	14.9	133.1	-4.86	-7,165.9	538.3	7,412.7	7,274.9	137.80	53.794	
6,750.0	6,715.6	6,700.1	6,700.1	14.9	134.0	-5.02	-7,165.9	538.3	7,393.1	7,258.4	134.78	54.855	
6,791.3	6,752.5	6,737.0	6,737.0	14.9	134.8	-5.18	-7,165.9	538.3	7,374.6	7,242.8	131.75	55.974	
6,800.0	6,760.1	6,744.6	6,744.6	14.9	134.9	-5.22	-7,165.9	538.3	7,370.4	7,239.4	131.05	56.239	
6,850.0	6,802.9	6,787.4	6,787.4	14.9	135.8	-5.46	-7,165.9	538.3	7,344.7	7,218.0	126.65	57.991	
6,889.7	6,835.6	6,820.1	6,820.1	14.9	136.4	-5.69	-7,165.9	538.3	7,322.1	7,199.5	122.69	59.682	
6,900.0	6,843.8	6,828.3	6,828.3	14.9	136.6	-5.75	-7,165.9	538.3	7,316.0	7,194.4	121.60	60.166	
6,950.0	6,882.6	6,867.1	6,867.1	14.9	137.4	-6.11	-7,165.9	538.3	7,284.6	7,168.7	115.93	62.837	
6,988.2	6,910.7	6,895.2	6,895.2	15.0	137.9	-6.44	-7,165.9	538.3	7,258.8	7,147.6	111.22	65.266	
7,000.0	6,919.1	6,903.6	6,903.6	15.0	138.1	-6.55	-7,165.9	538.3	7,250.6	7,140.9	109.70	66.095	
7,050.0	6,953.1	6,937.6	6,937.6	15.0	138.8	-7.10	-7,165.9	538.3	7,214.1	7,111.1	102.98	70.054	
7,086.6	6,976.4	6,960.9	6,960.9	15.1	139.3	-7.58	-7,165.9	538.3	7,185.9	7,088.1	97.81	73.469	
7,100.0	6,984.5	6,969.0	6,969.0	15.1	139.4	-7.77	-7,165.9	538.3	7,175.3	7,079.4	95.87	74.842	
7,150.0	7,013.1	6,997.6	6,997.6	15.3	140.0	-8.63	-7,165.9	538.3	7,134.4	7,045.9	88.53	80.583	
7,185.0	7,031.4	7,015.9	7,015.9	15.4	140.4	-9.37	-7,165.9	538.3	7,104.7	7,021.3	83.38	85.205	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
7,200.0	7,038.8	7,023.3	7,023.3	15.4	140.5	-9.74	-7,165.9	538.3	7,091.7	7,010.5	81.21	87.324	
7,250.0	7,061.4	7,045.9	7,045.9	15.6	141.0	-11.21	-7,165.9	538.3	7,047.2	6,972.9	74.34	94.803	
7,283.4	7,074.8	7,059.3	7,059.3	15.8	141.2	-12.50	-7,165.9	538.3	7,016.7	6,946.3	70.37	99.717	
7,300.0	7,080.9	7,065.4	7,065.4	15.9	141.4	-13.25	-7,165.9	538.3	7,001.4	6,932.6	68.72	101.878	
7,350.0	7,097.1	7,081.6	7,081.6	16.2	141.7	-16.22	-7,165.9	538.3	6,954.2	6,888.3	65.96	105.433	
7,381.9	7,105.7	7,090.2	7,090.2	16.4	141.9	-18.92	-7,165.9	538.3	6,923.6	6,856.7	66.97	103.381	
7,400.0	7,109.9	7,094.4	7,094.4	16.6	141.9	-20.88	-7,165.9	538.3	6,906.1	6,837.1	69.02	100.062	
7,450.0	7,119.4	7,103.9	7,103.9	17.0	142.1	-29.01	-7,165.9	538.3	6,857.2	6,774.2	82.97	82.648	
7,480.3	7,123.4	7,107.9	7,107.9	17.2	142.2	-37.38	-7,165.9	538.3	6,827.3	6,727.3	99.93	68.317	
7,500.0	7,125.4	7,109.9	7,109.9	17.4	142.3	-45.33	-7,165.9	538.3	6,807.7	6,692.3	115.41	58.986	
7,550.0	7,127.9	7,112.4	7,112.4	17.9	142.3	-79.78	-7,165.9	538.3	6,758.0	6,600.3	157.69	42.857	
7,562.9	7,128.0	7,112.5	7,112.5	18.0	142.3	-91.49	-7,165.9	538.3	6,745.2	6,584.9	160.24	42.094	
7,578.7	7,128.0	7,112.5	7,112.5	18.2	142.3	-91.49	-7,165.9	538.3	6,729.4	6,569.0	160.40	41.953	
7,600.0	7,127.9	7,112.4	7,112.4	18.4	142.3	-91.48	-7,165.9	538.3	6,708.2	6,547.6	160.62	41.764	
7,677.1	7,127.7	7,112.2	7,112.2	19.2	142.3	-91.46	-7,165.9	538.3	6,631.3	6,469.9	161.48	41.065	
7,700.0	7,127.7	7,112.2	7,112.2	19.5	142.3	-91.46	-7,165.9	538.3	6,608.6	6,446.8	161.74	40.860	
7,775.6	7,127.5	7,112.0	7,112.0	20.3	142.3	-91.44	-7,165.9	538.3	6,533.3	6,370.8	162.53	40.197	
7,800.0	7,127.5	7,112.0	7,112.0	20.5	142.3	-91.44	-7,165.9	538.3	6,509.0	6,346.2	162.79	39.984	
7,874.0	7,127.3	7,111.8	7,111.8	21.4	142.3	-91.42	-7,165.9	538.3	6,435.3	6,271.6	163.65	39.324	
7,900.0	7,127.2	7,111.7	7,111.7	21.7	142.3	-91.41	-7,165.9	538.3	6,409.4	6,245.4	163.95	39.094	
7,972.4	7,127.1	7,111.6	7,111.6	22.7	142.3	-91.40	-7,165.9	538.3	6,337.3	6,172.3	164.96	38.417	
8,000.0	7,127.0	7,111.5	7,111.5	23.1	142.3	-91.39	-7,165.9	538.3	6,309.8	6,144.5	165.35	38.161	
8,070.8	7,126.8	7,111.3	7,111.3	24.2	142.3	-91.38	-7,165.9	538.3	6,239.3	6,072.9	166.39	37.499	
8,100.0	7,126.8	7,111.3	7,111.3	24.6	142.3	-91.37	-7,165.9	538.3	6,210.3	6,043.4	166.81	37.229	
8,169.3	7,126.6	7,111.1	7,111.1	25.6	142.3	-91.35	-7,165.9	538.3	6,141.3	5,973.4	167.87	36.583	
8,200.0	7,126.6	7,111.1	7,111.1	26.1	142.3	-91.35	-7,165.9	538.3	6,110.7	5,942.4	168.34	36.300	
8,267.7	7,126.4	7,110.9	7,110.9	27.2	142.3	-91.33	-7,165.9	538.3	6,043.3	5,873.9	169.41	35.674	
8,300.0	7,126.3	7,110.8	7,110.8	27.7	142.3	-91.32	-7,165.9	538.3	6,011.2	5,841.3	169.92	35.378	
8,366.1	7,126.2	7,110.7	7,110.7	28.8	142.3	-91.31	-7,165.9	538.3	5,945.4	5,774.4	170.98	34.772	
8,400.0	7,126.1	7,110.6	7,110.6	29.3	142.3	-91.30	-7,165.9	538.3	5,911.7	5,740.1	171.53	34.464	
8,464.5	7,126.0	7,110.5	7,110.5	30.4	142.3	-91.29	-7,165.9	538.3	5,847.4	5,674.8	172.60	33.879	
8,500.0	7,125.9	7,110.4	7,110.4	31.0	142.3	-91.28	-7,165.9	538.3	5,812.2	5,639.0	173.18	33.561	
8,563.0	7,125.7	7,110.2	7,110.2	32.0	142.3	-91.27	-7,165.9	538.3	5,749.5	5,575.3	174.24	32.998	
8,600.0	7,125.6	7,110.1	7,110.1	32.6	142.3	-91.26	-7,165.9	538.3	5,712.7	5,537.8	174.86	32.670	
8,661.4	7,125.5	7,110.0	7,110.0	33.7	142.3	-91.24	-7,165.9	538.3	5,651.6	5,475.7	175.91	32.128	
8,700.0	7,125.4	7,109.9	7,109.9	34.4	142.3	-91.24	-7,165.9	538.3	5,613.2	5,436.7	176.56	31.791	
8,759.8	7,125.3	7,109.8	7,109.8	35.4	142.2	-91.22	-7,165.9	538.3	5,553.7	5,376.1	177.60	31.272	
8,800.0	7,125.2	7,109.7	7,109.7	36.1	142.2	-91.21	-7,165.9	538.3	5,513.8	5,335.5	178.29	30.926	
8,858.2	7,125.1	7,109.6	7,109.6	37.1	142.2	-91.20	-7,165.9	538.3	5,455.9	5,276.6	179.31	30.428	
8,900.0	7,125.0	7,109.5	7,109.5	37.8	142.2	-91.19	-7,165.9	538.3	5,414.4	5,234.3	180.03	30.074	
8,956.7	7,124.8	7,109.3	7,109.3	38.8	142.2	-91.18	-7,165.9	538.3	5,358.0	5,177.0	181.03	29.597	
9,000.0	7,124.7	7,109.2	7,109.2	39.6	142.2	-91.17	-7,165.9	538.3	5,315.0	5,133.2	181.79	29.236	
9,055.1	7,124.6	7,109.1	7,109.1	40.6	142.2	-91.16	-7,165.9	538.3	5,260.2	5,077.4	182.77	28.780	
9,100.0	7,124.5	7,109.0	7,109.0	41.4	142.2	-91.15	-7,165.9	538.3	5,215.6	5,032.0	183.57	28.412	
9,153.5	7,124.4	7,108.9	7,108.9	42.3	142.2	-91.13	-7,165.9	538.3	5,162.4	4,977.9	184.52	27.977	
9,200.0	7,124.3	7,108.8	7,108.8	43.2	142.2	-91.12	-7,165.9	538.3	5,116.2	4,930.9	185.35	27.603	
9,251.9	7,124.2	7,108.7	7,108.7	44.1	142.2	-91.11	-7,165.9	538.3	5,064.6	4,878.3	186.29	27.187	
9,300.0	7,124.1	7,108.6	7,108.6	45.0	142.2	-91.10	-7,165.9	538.3	5,016.9	4,829.7	187.15	26.807	
9,350.4	7,123.9	7,108.4	7,108.4	45.9	142.2	-91.09	-7,165.9	538.3	4,966.9	4,778.8	188.06	26.411	
9,400.0	7,123.8	7,108.3	7,108.3	46.8	142.2	-91.08	-7,165.9	538.3	4,917.6	4,728.6	188.96	26.025	
9,448.8	7,123.7	7,108.2	7,108.2	47.7	142.2	-91.07	-7,165.9	538.3	4,869.1	4,679.3	189.84	25.648	
9,500.0	7,123.6	7,108.1	7,108.1	48.6	142.2	-91.06	-7,165.9	538.3	4,818.3	4,627.6	190.77	25.257	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
9,547.2	7,123.5	7,108.0	7,108.0	49.4	142.2	-91.05	-7,165.9	538.3	4,771.5	4,579.8	191.63	24.899	
9,600.0	7,123.4	7,107.9	7,107.9	50.4	142.2	-91.03	-7,165.9	538.3	4,719.1	4,526.5	192.59	24.503	
9,645.6	7,123.3	7,107.8	7,107.8	51.2	142.2	-91.02	-7,165.9	538.3	4,673.8	4,480.4	193.43	24.163	
9,700.0	7,123.2	7,107.7	7,107.7	52.2	142.2	-91.01	-7,165.9	538.3	4,619.9	4,425.4	194.42	23.762	
9,744.1	7,123.1	7,107.6	7,107.6	53.1	142.2	-91.00	-7,165.9	538.3	4,576.2	4,380.9	195.23	23.440	
9,800.0	7,122.9	7,107.4	7,107.4	54.1	142.2	-90.99	-7,165.9	538.3	4,520.7	4,324.4	196.26	23.035	
9,842.5	7,122.8	7,107.3	7,107.3	54.9	142.2	-90.98	-7,165.9	538.3	4,478.6	4,281.5	197.04	22.729	
9,900.0	7,122.7	7,107.2	7,107.2	55.9	142.2	-90.97	-7,165.9	538.3	4,421.6	4,223.5	198.10	22.320	
9,940.9	7,122.6	7,107.1	7,107.1	56.7	142.2	-90.96	-7,165.9	538.3	4,381.0	4,182.1	198.85	22.031	
10,000.0	7,122.5	7,107.0	7,107.0	57.8	142.2	-90.95	-7,165.9	538.3	4,322.5	4,122.5	199.94	21.619	
10,039.3	7,122.4	7,106.9	7,106.9	58.5	142.2	-90.94	-7,165.9	538.3	4,283.5	4,082.8	200.67	21.346	
10,100.0	7,122.3	7,106.8	7,106.8	59.6	142.2	-90.92	-7,165.9	538.3	4,223.4	4,021.6	201.79	20.930	
10,137.8	7,122.2	7,106.7	7,106.7	60.3	142.2	-90.91	-7,165.9	538.3	4,186.0	3,983.5	202.49	20.672	
10,200.0	7,122.0	7,106.5	7,106.5	61.5	142.2	-90.90	-7,165.9	538.3	4,124.4	3,920.8	203.65	20.253	
10,236.2	7,121.9	7,106.4	7,106.4	62.2	142.2	-90.89	-7,165.9	538.3	4,088.6	3,884.2	204.32	20.011	
10,300.0	7,121.8	7,106.3	7,106.3	63.3	142.2	-90.88	-7,165.9	538.3	4,025.4	3,819.9	205.50	19.588	
10,334.6	7,121.7	7,106.2	7,106.2	64.0	142.2	-90.87	-7,165.9	538.3	3,991.2	3,785.0	206.15	19.361	
10,400.0	7,121.6	7,106.1	7,106.1	65.2	142.2	-90.86	-7,165.9	538.3	3,926.5	3,719.2	207.36	18.935	
10,433.0	7,121.5	7,106.0	7,106.0	65.8	142.2	-90.85	-7,165.9	538.3	3,893.9	3,685.9	207.98	18.722	
10,500.0	7,121.4	7,105.9	7,105.9	67.1	142.2	-90.83	-7,165.9	538.3	3,827.7	3,618.5	209.23	18.294	
10,531.5	7,121.3	7,105.8	7,105.8	67.7	142.2	-90.83	-7,165.9	538.3	3,796.6	3,586.8	209.82	18.095	
10,600.0	7,121.1	7,105.6	7,105.6	69.0	142.2	-90.81	-7,165.9	538.3	3,728.9	3,517.8	211.09	17.665	
10,629.9	7,121.1	7,105.6	7,105.6	69.5	142.2	-90.81	-7,165.9	538.3	3,699.4	3,487.7	211.65	17.478	
10,700.0	7,120.9	7,105.4	7,105.4	70.8	142.2	-90.79	-7,165.9	538.3	3,630.2	3,417.2	212.96	17.046	
10,728.3	7,120.8	7,105.3	7,105.3	71.4	142.2	-90.78	-7,165.9	538.3	3,602.2	3,388.7	213.49	16.873	
10,800.0	7,120.7	7,105.2	7,105.2	72.7	142.2	-90.77	-7,165.9	538.3	3,531.5	3,316.7	214.84	16.438	
10,826.7	7,120.6	7,105.1	7,105.1	73.2	142.2	-90.76	-7,165.9	538.3	3,505.1	3,289.8	215.34	16.277	
10,900.0	7,120.5	7,105.0	7,105.0	74.6	142.2	-90.75	-7,165.9	538.3	3,432.9	3,216.2	216.71	15.841	
10,925.2	7,120.4	7,104.9	7,104.9	75.1	142.2	-90.74	-7,165.9	538.3	3,408.1	3,191.0	217.18	15.692	
11,000.0	7,120.2	7,104.7	7,104.7	76.5	142.1	-90.72	-7,165.9	538.3	3,334.5	3,115.9	218.59	15.255	
11,023.6	7,120.2	7,104.7	7,104.7	76.9	142.1	-90.72	-7,165.9	538.3	3,311.2	3,092.2	219.03	15.118	
11,100.0	7,120.0	7,104.5	7,104.5	78.3	142.1	-90.70	-7,165.9	538.3	3,236.1	3,015.6	220.46	14.678	
11,122.0	7,120.0	7,104.5	7,104.5	78.8	142.1	-90.70	-7,165.9	538.3	3,214.4	2,993.5	220.88	14.553	
11,200.0	7,119.8	7,104.3	7,104.3	80.2	142.1	-90.68	-7,165.9	538.3	3,137.8	2,915.4	222.34	14.112	
11,220.4	7,119.7	7,104.2	7,104.2	80.6	142.1	-90.67	-7,165.9	538.3	3,117.7	2,894.9	222.73	13.998	
11,300.0	7,119.5	7,104.0	7,104.0	82.1	142.1	-90.66	-7,165.9	538.3	3,039.6	2,815.4	224.23	13.556	
11,318.9	7,119.5	7,104.0	7,104.0	82.5	142.1	-90.65	-7,165.9	538.3	3,021.1	2,796.5	224.58	13.452	
11,400.0	7,119.3	7,103.8	7,103.8	84.0	142.1	-90.63	-7,165.9	538.3	2,941.5	2,715.4	226.11	13.009	
11,417.3	7,119.3	7,103.8	7,103.8	84.3	142.1	-90.63	-7,165.9	538.3	2,924.6	2,698.1	226.44	12.916	
11,500.0	7,119.1	7,103.6	7,103.6	85.9	142.1	-90.61	-7,165.9	538.3	2,843.6	2,615.6	227.99	12.472	
11,515.7	7,119.1	7,103.6	7,103.6	86.2	142.1	-90.61	-7,165.9	538.3	2,828.2	2,599.9	228.29	12.389	
11,600.0	7,118.9	7,103.4	7,103.4	87.8	142.1	-90.59	-7,165.9	538.3	2,745.8	2,515.9	229.88	11.945	
11,614.1	7,118.8	7,103.3	7,103.3	88.0	142.1	-90.59	-7,165.9	538.3	2,732.0	2,501.8	230.15	11.871	
11,700.0	7,118.6	7,103.1	7,103.1	89.7	142.1	-90.57	-7,165.9	538.3	2,648.2	2,416.4	231.77	11.426	
11,712.6	7,118.6	7,103.1	7,103.1	89.9	142.1	-90.57	-7,165.9	538.3	2,635.9	2,403.9	232.00	11.362	
11,800.0	7,118.4	7,102.9	7,102.9	91.6	142.1	-90.55	-7,165.9	538.3	2,550.8	2,317.1	233.66	10.917	
11,811.0	7,118.4	7,102.9	7,102.9	91.8	142.1	-90.54	-7,165.9	538.3	2,540.1	2,306.2	233.86	10.861	
11,900.0	7,118.2	7,102.7	7,102.7	93.4	142.1	-90.52	-7,165.9	538.3	2,453.6	2,218.0	235.54	10.417	
11,909.4	7,118.2	7,102.7	7,102.7	93.6	142.1	-90.52	-7,165.9	538.3	2,444.4	2,208.7	235.72	10.370	
12,000.0	7,118.0	7,102.5	7,102.5	95.3	142.1	-90.50	-7,165.9	538.3	2,356.6	2,119.1	237.44	9.925	
12,007.8	7,118.0	7,102.5	7,102.5	95.5	142.1	-90.50	-7,165.9	538.3	2,349.0	2,111.4	237.58	9.887	
12,100.0	7,117.8	7,102.3	7,102.3	97.2	142.1	-90.48	-7,165.9	538.3	2,259.9	2,020.5	239.33	9.443	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
12,106.3	7,117.7	7,102.2	7,102.2	97.4	142.1	-90.48	-7,165.9	538.3	2,253.8	2,014.3	239.45	9.413	
12,200.0	7,117.5	7,102.0	7,102.0	99.1	142.1	-90.46	-7,165.9	538.3	2,163.4	1,922.2	241.22	8.969	
12,204.7	7,117.5	7,102.0	7,102.0	99.2	142.1	-90.46	-7,165.9	538.3	2,158.9	1,917.6	241.31	8.947	
12,300.0	7,117.3	7,101.8	7,101.8	101.0	142.1	-90.44	-7,165.9	538.3	2,067.3	1,824.2	243.11	8.504	
12,303.1	7,117.3	7,101.8	7,101.8	101.1	142.1	-90.43	-7,165.9	538.3	2,064.3	1,821.2	243.17	8.489	
12,400.0	7,117.1	7,101.6	7,101.6	102.9	142.1	-90.41	-7,165.9	538.3	1,971.7	1,726.6	245.01	8.047	
12,401.5	7,117.1	7,101.6	7,101.6	103.0	142.1	-90.41	-7,165.9	538.3	1,970.2	1,725.1	245.04	8.040	
12,500.0	7,116.9	7,101.4	7,101.4	104.8	142.1	-90.39	-7,165.9	538.3	1,876.4	1,629.5	246.90	7.600	
12,598.4	7,116.6	7,101.1	7,101.1	106.7	142.1	-90.37	-7,165.9	538.3	1,783.2	1,534.4	248.77	7.168	
12,600.0	7,116.6	7,101.1	7,101.1	106.7	142.1	-90.37	-7,165.9	538.3	1,781.7	1,532.9	248.80	7.161	
12,696.8	7,116.4	7,100.9	7,100.9	108.6	142.1	-90.35	-7,165.9	538.3	1,690.5	1,439.9	250.63	6.745	
12,700.0	7,116.4	7,100.9	7,100.9	108.6	142.1	-90.35	-7,165.9	538.3	1,687.6	1,436.9	250.69	6.732	
12,795.2	7,116.2	7,100.7	7,100.7	110.4	142.1	-90.33	-7,165.9	538.3	1,598.6	1,346.1	252.50	6.331	
12,800.0	7,116.2	7,100.7	7,100.7	110.5	142.1	-90.33	-7,165.9	538.3	1,594.2	1,341.6	252.59	6.311	
12,893.7	7,116.0	7,100.5	7,100.5	112.3	142.1	-90.30	-7,165.9	538.3	1,507.4	1,253.1	254.37	5.926	
12,900.0	7,116.0	7,100.5	7,100.5	112.4	142.1	-90.30	-7,165.9	538.3	1,501.6	1,247.1	254.49	5.901	
12,992.1	7,115.7	7,100.2	7,100.2	114.2	142.1	-90.28	-7,165.9	538.3	1,417.3	1,161.0	256.24	5.531	
13,000.0	7,115.7	7,100.2	7,100.2	114.3	142.1	-90.28	-7,165.9	538.3	1,410.1	1,153.7	256.39	5.500	
13,090.5	7,115.5	7,100.0	7,100.0	116.1	142.1	-90.26	-7,165.9	538.3	1,328.3	1,070.2	258.10	5.146	
13,100.0	7,115.5	7,100.0	7,100.0	116.2	142.1	-90.26	-7,165.9	538.3	1,319.8	1,061.5	258.28	5.110	
13,188.9	7,115.3	7,099.8	7,099.8	117.9	142.0	-90.24	-7,165.9	538.3	1,240.7	980.7	259.97	4.772	
13,200.0	7,115.3	7,099.8	7,099.8	118.1	142.0	-90.24	-7,165.9	538.3	1,231.0	970.8	260.18	4.731	
13,287.4	7,115.1	7,099.6	7,099.6	119.8	142.0	-90.22	-7,165.9	538.3	1,154.9	893.0	261.84	4.411	
13,300.0	7,115.1	7,099.6	7,099.6	120.0	142.0	-90.22	-7,165.9	538.3	1,144.0	881.9	262.08	4.365	
13,385.8	7,114.9	7,099.4	7,099.4	121.7	142.0	-90.20	-7,165.9	538.3	1,071.2	807.5	263.71	4.062	
13,400.0	7,114.8	7,099.3	7,099.3	121.9	142.0	-90.19	-7,165.9	538.3	1,059.4	795.4	263.98	4.013	
13,484.2	7,114.6	7,099.1	7,099.1	123.6	142.0	-90.17	-7,165.9	538.3	990.3	724.7	265.58	3.729	
13,500.0	7,114.6	7,099.1	7,099.1	123.9	142.0	-90.17	-7,165.9	538.3	977.6	711.7	265.88	3.677	
13,582.6	7,114.4	7,098.9	7,098.9	125.4	142.0	-90.15	-7,165.9	538.3	912.8	645.4	267.45	3.413	
13,600.0	7,114.4	7,098.9	7,098.9	125.8	142.0	-90.15	-7,165.9	538.3	899.6	631.8	267.78	3.359	
13,681.1	7,114.2	7,098.7	7,098.7	127.3	142.0	-90.13	-7,165.9	538.3	839.7	570.4	269.33	3.118	
13,700.0	7,114.2	7,098.7	7,098.7	127.7	142.0	-90.13	-7,165.9	538.3	826.3	556.6	269.69	3.064	
13,779.5	7,114.0	7,098.5	7,098.5	129.2	142.0	-90.11	-7,165.9	538.3	772.3	501.1	271.20	2.848	
13,800.0	7,113.9	7,098.4	7,098.4	129.6	142.0	-90.11	-7,165.9	538.3	759.1	487.5	271.59	2.795	
13,877.9	7,113.8	7,098.3	7,098.3	131.1	142.0	-90.09	-7,165.9	538.3	712.1	439.0	273.07	2.608	
13,900.0	7,113.7	7,098.2	7,098.2	131.5	142.0	-90.08	-7,165.9	538.3	699.8	426.3	273.49	2.559	
13,976.3	7,113.5	7,098.0	7,098.0	132.9	142.0	-90.07	-7,165.9	538.3	661.1	386.2	274.94	2.405	
14,000.0	7,113.5	7,098.0	7,098.0	133.4	142.0	-90.06	-7,165.9	538.3	650.5	375.1	275.39	2.362	
14,074.8	7,113.3	7,097.8	7,097.8	134.8	142.0	-90.05	-7,165.9	538.3	621.7	344.9	276.82	2.246	
14,100.0	7,113.3	7,097.8	7,097.8	135.3	142.0	-90.04	-7,165.9	538.3	613.7	336.4	277.30	2.213	
14,173.2	7,113.1	7,097.6	7,097.6	136.7	142.0	-90.02	-7,165.9	538.3	596.1	317.4	278.69	2.139	
14,200.0	7,113.0	7,097.5	7,097.5	137.2	142.0	-90.02	-7,165.9	538.3	591.7	312.5	279.20	2.119	
14,219.1	7,113.0	7,097.5	7,097.5	137.6	142.0	-90.01	-7,165.9	538.3	589.4	309.8	279.56	2.108 CC, ES, SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	174.80	-5,573.9	507.6	5,597.0				
98.4	98.4	72.9	72.9	0.1	0.6	174.80	-5,573.9	507.6	5,596.9	5,596.2	0.71	7,915.301	
100.0	100.0	74.5	74.5	0.1	0.6	174.80	-5,573.9	507.6	5,596.9	5,596.2	0.72	7,751.090	
196.8	196.8	171.3	171.3	0.3	2.5	174.80	-5,573.9	507.6	5,596.9	5,594.1	2.85	1,964.078	
200.0	200.0	174.5	174.5	0.3	2.6	174.80	-5,573.9	507.6	5,596.9	5,594.0	2.93	1,909.170	
295.3	295.3	269.8	269.8	0.5	4.7	174.80	-5,573.9	507.6	5,596.9	5,591.7	5.20	1,075.379	
300.0	300.0	274.5	274.5	0.5	4.8	174.80	-5,573.9	507.6	5,596.9	5,591.6	5.31	1,053.320	
393.7	393.7	368.2	368.2	0.8	6.7	174.80	-5,573.9	507.6	5,596.9	5,589.5	7.45	751.457	
400.0	400.0	374.5	374.5	0.8	6.8	174.80	-5,573.9	507.6	5,596.9	5,589.4	7.59	737.317	
492.1	492.1	466.6	466.6	1.0	8.7	174.80	-5,573.9	507.6	5,596.9	5,587.3	9.67	578.760	
500.0	500.0	474.5	474.5	1.0	8.9	174.80	-5,573.9	507.6	5,596.9	5,587.1	9.85	568.330	
590.5	590.5	565.0	565.0	1.2	10.7	174.80	-5,573.9	507.6	5,596.9	5,585.1	11.88	470.942	
600.0	600.0	574.5	574.5	1.2	10.9	174.80	-5,573.9	507.6	5,596.9	5,584.8	12.10	462.674	
689.0	689.0	663.5	663.5	1.4	12.7	174.80	-5,573.9	507.6	5,596.9	5,582.8	14.09	397.109	
700.0	700.0	674.5	674.5	1.4	12.9	174.80	-5,573.9	507.6	5,596.9	5,582.6	14.34	390.259	
787.4	787.4	761.9	761.9	1.6	14.7	174.80	-5,573.9	507.6	5,596.9	5,580.6	16.30	343.342	
800.0	800.0	774.5	774.5	1.7	14.9	174.80	-5,573.9	507.6	5,596.9	5,580.4	16.58	337.494	
885.8	885.8	860.3	860.3	1.9	16.6	174.80	-5,573.9	507.6	5,596.9	5,578.4	18.51	302.424	
900.0	900.0	874.5	874.5	1.9	16.9	174.80	-5,573.9	507.6	5,596.9	5,578.1	18.82	297.323	
984.2	984.2	958.7	958.7	2.1	18.6	174.80	-5,573.9	507.6	5,596.9	5,576.2	20.71	270.235	
1,000.0	1,000.0	974.5	974.5	2.1	18.9	174.80	-5,573.9	507.6	5,596.9	5,575.9	21.06	265.711	
1,082.7	1,082.7	1,057.2	1,057.2	2.3	20.6	174.80	-5,573.9	507.6	5,596.9	5,574.0	22.92	244.247	
1,100.0	1,100.0	1,074.5	1,074.5	2.3	21.0	174.80	-5,573.9	507.6	5,596.9	5,573.6	23.30	240.182	
1,181.1	1,181.1	1,155.6	1,155.6	2.5	22.6	174.80	-5,573.9	507.6	5,596.9	5,571.8	25.12	222.824	
1,200.0	1,200.0	1,174.5	1,174.5	2.6	23.0	174.80	-5,573.9	507.6	5,596.9	5,571.4	25.54	219.134	
1,279.5	1,279.5	1,254.0	1,254.0	2.7	24.6	174.80	-5,573.9	507.6	5,596.9	5,569.6	27.32	204.860	
1,300.0	1,300.0	1,274.5	1,274.5	2.8	25.0	174.80	-5,573.9	507.6	5,596.9	5,569.2	27.78	201.481	
1,377.9	1,377.9	1,352.4	1,352.4	3.0	26.6	179.08	-5,573.9	507.6	5,598.0	5,568.5	29.51	189.681	
1,400.0	1,400.0	1,374.5	1,374.5	3.0	27.0	179.08	-5,573.9	507.6	5,598.7	5,568.7	30.00	186.631	
1,476.4	1,476.3	1,450.8	1,450.8	3.2	28.5	179.08	-5,573.9	507.6	5,602.4	5,570.7	31.67	176.923	
1,500.0	1,499.8	1,474.3	1,474.3	3.2	29.0	179.08	-5,573.9	507.6	5,603.9	5,571.7	32.17	174.170	
1,574.8	1,574.4	1,548.9	1,548.9	3.4	30.5	179.08	-5,573.9	507.6	5,610.1	5,576.3	33.77	166.132	
1,600.0	1,599.5	1,574.0	1,574.0	3.5	31.0	179.08	-5,573.9	507.6	5,612.6	5,578.3	34.30	163.642	
1,673.2	1,672.2	1,646.7	1,646.7	3.6	32.5	179.08	-5,573.9	507.6	5,621.2	5,585.4	35.81	156.954	
1,700.0	1,698.7	1,673.2	1,673.2	3.7	33.0	179.08	-5,573.9	507.6	5,624.8	5,588.5	36.36	154.700	
1,771.6	1,769.5	1,744.0	1,744.0	3.9	34.4	179.07	-5,573.9	507.6	5,635.7	5,597.9	37.79	149.116	
1,800.0	1,797.5	1,772.0	1,772.0	4.0	35.0	179.07	-5,573.9	507.6	5,640.5	5,602.1	38.35	147.078	
1,870.1	1,866.3	1,840.8	1,840.8	4.2	36.4	179.07	-5,573.9	507.6	5,653.5	5,613.8	39.70	142.406	
1,900.1	1,895.8	1,870.3	1,870.3	4.3	37.0	179.07	-5,573.9	507.6	5,659.6	5,619.3	40.27	140.558	
1,968.5	1,962.6	1,937.1	1,937.1	4.5	38.3	179.07	-5,573.9	507.6	5,673.8	5,632.0	41.74	135.920	
2,000.0	1,993.4	1,967.9	1,967.9	4.6	38.9	179.07	-5,573.9	507.6	5,680.3	5,637.9	42.42	133.893	
2,066.9	2,058.9	2,033.4	2,033.4	4.8	40.3	179.08	-5,573.9	507.6	5,694.2	5,650.4	43.88	129.778	
2,100.0	2,091.3	2,065.8	2,065.8	4.9	40.9	179.08	-5,573.9	507.6	5,701.1	5,656.5	44.59	127.857	
2,165.3	2,155.2	2,129.7	2,129.7	5.1	42.2	179.08	-5,573.9	507.6	5,714.7	5,668.7	46.00	124.220	
2,200.0	2,189.1	2,163.6	2,163.6	5.3	42.9	179.08	-5,573.9	507.6	5,721.9	5,675.2	46.76	122.372	
2,263.8	2,251.4	2,225.9	2,225.9	5.5	44.1	179.08	-5,573.9	507.6	5,735.2	5,687.0	48.14	119.129	
2,300.0	2,286.9	2,261.4	2,261.4	5.6	44.8	179.08	-5,573.9	507.6	5,742.7	5,693.8	48.93	117.367	
2,362.2	2,347.7	2,322.2	2,322.2	5.9	46.1	179.09	-5,573.9	507.6	5,755.6	5,705.4	50.28	114.469	
2,400.0	2,384.7	2,359.2	2,359.2	6.0	46.8	179.09	-5,573.9	507.6	5,763.5	5,712.4	51.10	112.782	
2,460.6	2,444.0	2,418.5	2,418.5	6.3	48.0	179.09	-5,573.9	507.6	5,776.1	5,723.7	52.42	110.186	
2,500.0	2,482.5	2,457.0	2,457.0	6.4	48.8	179.09	-5,573.9	507.6	5,784.3	5,731.0	53.28	108.568	
2,559.0	2,540.3	2,514.8	2,514.8	6.6	49.9	179.09	-5,573.9	507.6	5,796.6	5,742.0	54.56	106.236	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
2,600.0	2,580.3	2,554.8	2,554.8	6.8	50.7	179.09	-5,573.9	507.6	5,805.1	5,749.6	55.45	104.682	
2,617.6	2,597.5	2,572.0	2,572.0	6.9	51.1	179.09	-5,573.9	507.6	5,808.8	5,752.9	55.84	104.029	
2,657.5	2,636.6	2,611.1	2,611.1	7.0	51.9	179.10	-5,573.9	507.6	5,816.8	5,759.9	56.85	102.319	
2,700.0	2,678.4	2,652.9	2,652.9	7.2	52.7	179.10	-5,573.9	507.6	5,824.7	5,766.8	57.92	100.560	
2,755.9	2,733.5	2,708.0	2,708.0	7.3	53.8	179.11	-5,573.9	507.6	5,834.2	5,774.9	59.31	98.371	
2,800.0	2,777.0	2,751.5	2,751.5	7.4	54.7	179.11	-5,573.9	507.6	5,841.0	5,780.6	60.39	96.716	
2,854.3	2,830.9	2,805.4	2,805.4	7.6	55.8	179.11	-5,573.9	507.6	5,848.4	5,786.6	61.72	94.762	
2,900.0	2,876.2	2,850.7	2,850.7	7.7	56.7	179.12	-5,573.9	507.6	5,853.8	5,791.0	62.82	93.187	
2,952.7	2,928.7	2,903.2	2,903.2	7.8	57.8	179.12	-5,573.9	507.6	5,859.1	5,795.1	64.07	91.443	
3,000.0	2,975.8	2,950.3	2,950.3	7.9	58.7	179.12	-5,573.9	507.6	5,863.1	5,797.9	65.19	89.944	
3,051.2	3,026.8	3,001.3	3,001.3	8.0	59.7	179.12	-5,573.9	507.6	5,866.5	5,800.2	66.37	88.388	
3,100.0	3,075.6	3,050.1	3,050.1	8.1	60.7	179.12	-5,573.9	507.6	5,869.0	5,801.5	67.49	86.964	
3,149.6	3,125.2	3,099.7	3,099.7	8.2	61.7	179.12	-5,573.9	507.6	5,870.6	5,802.0	68.60	85.577	
3,200.0	3,175.6	3,150.1	3,150.1	8.3	62.7	179.12	-5,573.9	507.6	5,871.3	5,801.6	69.71	84.224	
3,217.7	3,193.3	3,167.8	3,167.8	8.3	63.1	174.84	-5,573.9	507.6	5,871.4	5,801.3	70.10	83.761	
3,248.0	3,223.6	3,198.1	3,198.1	8.4	63.7	174.84	-5,573.9	507.6	5,871.4	5,800.6	70.76	82.970	
3,300.0	3,275.6	3,250.1	3,250.1	8.5	64.7	174.84	-5,573.9	507.6	5,871.4	5,799.5	71.91	81.647	
3,346.4	3,322.0	3,296.5	3,296.5	8.6	65.7	174.84	-5,573.9	507.6	5,871.4	5,798.4	72.95	80.490	
3,400.0	3,375.6	3,350.1	3,350.1	8.7	66.7	174.84	-5,573.9	507.6	5,871.4	5,797.2	74.14	79.197	
3,444.9	3,420.4	3,394.9	3,394.9	8.7	67.6	174.84	-5,573.9	507.6	5,871.4	5,796.2	75.14	78.144	
3,500.0	3,475.6	3,450.1	3,450.1	8.8	68.7	174.84	-5,573.9	507.6	5,871.4	5,795.0	76.36	76.888	
3,543.3	3,518.9	3,493.4	3,493.4	8.9	69.6	174.84	-5,573.9	507.6	5,871.4	5,794.0	77.33	75.930	
3,600.0	3,575.6	3,550.1	3,550.1	9.0	70.8	174.84	-5,573.9	507.6	5,871.4	5,792.8	78.59	74.710	
3,641.7	3,617.3	3,591.8	3,591.8	9.1	71.6	174.84	-5,573.9	507.6	5,871.4	5,791.9	79.52	73.837	
3,700.0	3,675.6	3,650.1	3,650.1	9.2	72.8	174.84	-5,573.9	507.6	5,871.4	5,790.6	80.82	72.652	
3,740.1	3,715.7	3,690.2	3,690.2	9.3	73.6	174.84	-5,573.9	507.6	5,871.4	5,789.7	81.71	71.856	
3,800.0	3,775.6	3,750.1	3,750.1	9.4	74.8	174.84	-5,573.9	507.6	5,871.4	5,788.3	83.04	70.703	
3,838.6	3,814.1	3,788.6	3,788.6	9.5	75.6	174.84	-5,573.9	507.6	5,871.4	5,787.5	83.90	69.979	
3,900.0	3,875.6	3,850.1	3,850.1	9.6	76.8	174.84	-5,573.9	507.6	5,871.4	5,786.1	85.27	68.856	
3,937.0	3,912.6	3,887.1	3,887.1	9.7	77.5	174.84	-5,573.9	507.6	5,871.4	5,785.3	86.10	68.196	
4,000.0	3,975.6	3,950.1	3,950.1	9.8	78.8	174.84	-5,573.9	507.6	5,871.4	5,783.9	87.50	67.102	
4,035.4	4,011.0	3,985.5	3,985.5	9.9	79.5	174.84	-5,573.9	507.6	5,871.4	5,783.1	88.29	66.502	
4,100.0	4,075.6	4,050.1	4,050.1	10.0	80.8	174.84	-5,573.9	507.6	5,871.4	5,781.6	89.73	65.436	
4,133.8	4,109.4	4,083.9	4,083.9	10.0	81.5	174.84	-5,573.9	507.6	5,871.4	5,780.9	90.48	64.890	
4,200.0	4,175.6	4,150.1	4,150.1	10.2	82.8	174.84	-5,573.9	507.6	5,871.4	5,779.4	91.96	63.850	
4,232.3	4,207.8	4,182.3	4,182.3	10.2	83.5	174.84	-5,573.9	507.6	5,871.4	5,778.7	92.68	63.354	
4,300.0	4,275.6	4,250.1	4,250.1	10.4	84.8	174.84	-5,573.9	507.6	5,871.4	5,777.2	94.19	62.338	
4,330.7	4,306.3	4,280.8	4,280.8	10.4	85.5	174.84	-5,573.9	507.6	5,871.4	5,776.5	94.87	61.889	
4,400.0	4,375.6	4,350.1	4,350.1	10.6	86.8	174.84	-5,573.9	507.6	5,871.4	5,775.0	96.41	60.897	
4,429.1	4,404.7	4,379.2	4,379.2	10.6	87.4	174.84	-5,573.9	507.6	5,871.4	5,774.3	97.06	60.490	
4,500.0	4,475.6	4,450.1	4,450.1	10.8	88.9	174.84	-5,573.9	507.6	5,871.4	5,772.7	98.64	59.520	
4,527.5	4,503.1	4,477.6	4,477.6	10.8	89.4	174.84	-5,573.9	507.6	5,871.4	5,772.1	99.26	59.152	
4,600.0	4,575.6	4,550.1	4,550.1	11.0	90.9	174.84	-5,573.9	507.6	5,871.4	5,770.5	100.87	58.205	
4,626.0	4,601.5	4,576.0	4,576.0	11.0	91.4	174.84	-5,573.9	507.6	5,871.4	5,769.9	101.45	57.872	
4,700.0	4,675.6	4,650.1	4,650.1	11.2	92.9	174.84	-5,573.9	507.6	5,871.4	5,768.3	103.10	56.946	
4,724.4	4,700.0	4,674.5	4,674.5	11.2	93.4	174.84	-5,573.9	507.6	5,871.4	5,767.7	103.65	56.647	
4,800.0	4,775.6	4,750.1	4,750.1	11.4	94.9	174.84	-5,573.9	507.6	5,871.4	5,766.0	105.34	55.740	
4,822.8	4,798.4	4,772.9	4,772.9	11.4	95.4	174.84	-5,573.9	507.6	5,871.4	5,765.5	105.84	55.472	
4,900.0	4,875.6	4,850.1	4,850.1	11.6	96.9	174.84	-5,573.9	507.6	5,871.4	5,763.8	107.57	54.584	
4,921.2	4,896.8	4,871.3	4,871.3	11.6	97.3	174.84	-5,573.9	507.6	5,871.4	5,763.3	108.04	54.344	
5,000.0	4,975.6	4,950.1	4,950.1	11.8	98.9	174.84	-5,573.9	507.6	5,871.4	5,761.6	109.80	53.475	
5,019.7	4,995.2	4,969.7	4,969.7	11.8	99.3	174.84	-5,573.9	507.6	5,871.4	5,761.1	110.24	53.262	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
5,100.0	5,075.6	5,050.1	5,050.1	12.0	100.9	174.84	-5,573.9	507.6	5,871.4	5,759.3	112.03	52.410	
5,118.1	5,093.7	5,068.2	5,068.2	12.0	101.3	174.84	-5,573.9	507.6	5,871.4	5,758.9	112.43	52.221	
5,200.0	5,175.6	5,150.1	5,150.1	12.2	102.9	174.84	-5,573.9	507.6	5,871.4	5,757.1	114.26	51.386	
5,216.5	5,192.1	5,166.6	5,166.6	12.2	103.3	174.84	-5,573.9	507.6	5,871.4	5,756.7	114.63	51.221	
5,300.0	5,275.6	5,250.1	5,250.1	12.4	104.9	174.84	-5,573.9	507.6	5,871.4	5,754.9	116.49	50.402	
5,314.9	5,290.5	5,265.0	5,265.0	12.4	105.2	174.84	-5,573.9	507.6	5,871.4	5,754.6	116.82	50.258	
5,400.0	5,375.6	5,350.1	5,350.1	12.6	107.0	174.84	-5,573.9	507.6	5,871.4	5,752.7	118.72	49.455	
5,413.4	5,388.9	5,363.4	5,363.4	12.6	107.2	174.84	-5,573.9	507.6	5,871.4	5,752.4	119.02	49.330	
5,500.0	5,475.6	5,450.1	5,450.1	12.8	109.0	174.84	-5,573.9	507.6	5,871.4	5,750.4	120.95	48.542	
5,511.8	5,487.4	5,461.9	5,461.9	12.8	109.2	174.84	-5,573.9	507.6	5,871.4	5,750.2	121.22	48.437	
5,600.0	5,575.6	5,550.1	5,550.1	13.0	111.0	174.84	-5,573.9	507.6	5,871.4	5,748.2	123.19	47.663	
5,610.2	5,585.8	5,560.3	5,560.3	13.0	111.2	174.84	-5,573.9	507.6	5,871.4	5,748.0	123.41	47.574	
5,700.0	5,675.6	5,650.1	5,650.1	13.2	113.0	174.84	-5,573.9	507.6	5,871.4	5,746.0	125.42	46.814	
5,708.6	5,684.2	5,658.7	5,658.7	13.2	113.2	174.84	-5,573.9	507.6	5,871.4	5,745.8	125.61	46.742	
5,800.0	5,775.6	5,750.1	5,750.1	13.4	115.0	174.84	-5,573.9	507.6	5,871.4	5,743.7	127.65	45.996	
5,807.1	5,782.6	5,757.1	5,757.1	13.4	115.1	174.84	-5,573.9	507.6	5,871.4	5,743.6	127.81	45.939	
5,900.0	5,875.6	5,850.1	5,850.1	13.6	117.0	174.84	-5,573.9	507.6	5,871.4	5,741.5	129.88	45.205	
5,905.5	5,881.1	5,855.6	5,855.6	13.6	117.1	174.84	-5,573.9	507.6	5,871.4	5,741.4	130.01	45.162	
6,000.0	5,975.6	5,950.1	5,950.1	13.8	119.0	174.84	-5,573.9	507.6	5,871.4	5,739.3	132.12	44.441	
6,003.9	5,979.5	5,954.0	5,954.0	13.8	119.1	174.84	-5,573.9	507.6	5,871.4	5,739.2	132.20	44.412	
6,100.0	6,075.6	6,050.1	6,050.1	14.0	121.0	174.84	-5,573.9	507.6	5,871.4	5,737.0	134.35	43.703	
6,102.3	6,077.9	6,052.4	6,052.4	14.0	121.1	174.84	-5,573.9	507.6	5,871.4	5,737.0	134.40	43.686	
6,200.0	6,175.6	6,150.1	6,150.1	14.2	123.0	174.84	-5,573.9	507.6	5,871.4	5,734.8	136.58	42.988	
6,200.8	6,176.3	6,150.8	6,150.8	14.2	123.1	174.84	-5,573.9	507.6	5,871.4	5,734.8	136.60	42.983	
6,299.2	6,274.8	6,249.3	6,249.3	14.4	125.0	174.84	-5,573.9	507.6	5,871.4	5,732.6	138.80	42.302	
6,300.0	6,275.6	6,250.1	6,250.1	14.4	125.1	174.84	-5,573.9	507.6	5,871.4	5,732.6	138.81	42.297	
6,397.6	6,373.2	6,347.7	6,347.7	14.7	127.0	174.84	-5,573.9	507.6	5,871.4	5,730.4	140.99	41.643	
6,400.0	6,375.6	6,350.1	6,350.1	14.7	127.1	174.84	-5,573.9	507.6	5,871.4	5,730.3	141.05	41.627	
6,436.2	6,411.8	6,386.3	6,386.3	14.7	127.8	174.84	-5,573.9	507.6	5,871.4	5,729.5	141.86	41.390	
6,450.0	6,425.6	6,400.1	6,400.1	14.8	128.1	-5.37	-5,573.9	507.6	5,871.2	5,729.1	142.12	41.311	
6,496.0	6,471.5	6,446.0	6,446.0	14.8	129.0	-5.39	-5,573.9	507.6	5,868.9	5,726.3	142.63	41.146	
6,500.0	6,475.5	6,450.0	6,450.0	14.8	129.1	-5.39	-5,573.9	507.6	5,868.6	5,725.9	142.65	41.139	
6,550.0	6,525.1	6,499.6	6,499.6	14.9	130.1	-5.45	-5,573.9	507.6	5,862.4	5,719.9	142.48	41.144	
6,594.5	6,568.7	6,543.2	6,543.2	14.9	131.0	-5.52	-5,573.9	507.6	5,854.0	5,712.3	141.74	41.300	
6,600.0	6,574.1	6,548.6	6,548.6	14.9	131.1	-5.53	-5,573.9	507.6	5,852.8	5,711.2	141.61	41.330	
6,650.0	6,622.4	6,596.9	6,596.9	14.9	132.0	-5.65	-5,573.9	507.6	5,839.9	5,699.8	140.03	41.704	
6,692.9	6,663.0	6,637.5	6,637.5	14.9	132.9	-5.78	-5,573.9	507.6	5,826.1	5,688.0	138.10	42.187	
6,700.0	6,669.6	6,644.1	6,644.1	14.9	133.0	-5.80	-5,573.9	507.6	5,823.6	5,685.8	137.73	42.281	
6,750.0	6,715.6	6,690.1	6,690.1	14.9	133.9	-6.00	-5,573.9	507.6	5,804.0	5,669.3	134.73	43.079	
6,791.3	6,752.5	6,727.0	6,727.0	14.9	134.7	-6.19	-5,573.9	507.6	5,785.5	5,653.8	131.73	43.921	
6,800.0	6,760.1	6,734.6	6,734.6	14.9	134.8	-6.24	-5,573.9	507.6	5,781.4	5,650.3	131.04	44.121	
6,850.0	6,802.9	6,777.4	6,777.4	14.9	135.7	-6.53	-5,573.9	507.6	5,755.7	5,629.0	126.67	45.439	
6,889.7	6,835.6	6,810.1	6,810.1	14.9	136.3	-6.81	-5,573.9	507.6	5,733.2	5,610.4	122.74	46.710	
6,900.0	6,843.8	6,818.3	6,818.3	14.9	136.5	-6.89	-5,573.9	507.6	5,727.1	5,605.4	121.66	47.074	
6,950.0	6,882.6	6,857.1	6,857.1	14.9	137.3	-7.33	-5,573.9	507.6	5,695.7	5,579.6	116.06	49.075	
6,988.2	6,910.7	6,885.2	6,885.2	15.0	137.8	-7.73	-5,573.9	507.6	5,669.9	5,558.5	111.42	50.888	
7,000.0	6,919.1	6,893.6	6,893.6	15.0	138.0	-7.87	-5,573.9	507.6	5,661.7	5,551.8	109.92	51.506	
7,050.0	6,953.1	6,927.6	6,927.6	15.0	138.7	-8.53	-5,573.9	507.6	5,625.2	5,521.9	103.34	54.434	
7,086.6	6,976.4	6,950.9	6,950.9	15.1	139.2	-9.11	-5,573.9	507.6	5,597.1	5,498.8	98.31	56.932	
7,100.0	6,984.5	6,959.0	6,959.0	15.1	139.3	-9.35	-5,573.9	507.6	5,586.5	5,490.1	96.44	57.928	
7,150.0	7,013.1	6,987.6	6,987.6	15.3	139.9	-10.39	-5,573.9	507.6	5,545.7	5,456.3	89.41	62.023	
7,185.0	7,031.4	7,005.9	7,005.9	15.4	140.3	-11.29	-5,573.9	507.6	5,516.0	5,431.4	84.58	65.214	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
7,200.0	7,038.8	7,013.3	7,013.3	15.4	140.4	-11.73	-5,573.9	507.6	5,503.0	5,420.4	82.58	66.636	
7,250.0	7,061.4	7,035.9	7,035.9	15.6	140.9	-13.51	-5,573.9	507.6	5,458.7	5,382.2	76.50	71.353	
7,283.4	7,074.8	7,049.3	7,049.3	15.8	141.1	-15.06	-5,573.9	507.6	5,428.2	5,354.8	73.33	74.027	
7,300.0	7,080.9	7,055.4	7,055.4	15.9	141.3	-15.96	-5,573.9	507.6	5,412.9	5,340.7	72.18	74.992	
7,350.0	7,097.1	7,071.6	7,071.6	16.2	141.6	-19.50	-5,573.9	507.6	5,365.8	5,294.4	71.42	75.135	
7,381.9	7,105.7	7,080.2	7,080.2	16.4	141.8	-22.67	-5,573.9	507.6	5,335.3	5,261.2	74.10	72.000	
7,400.0	7,109.9	7,084.4	7,084.4	16.6	141.8	-24.96	-5,573.9	507.6	5,317.8	5,240.6	77.19	68.889	
7,450.0	7,119.4	7,093.9	7,093.9	17.0	142.0	-34.13	-5,573.9	507.6	5,268.9	5,175.1	93.82	56.158	
7,480.3	7,123.4	7,097.9	7,097.9	17.2	142.1	-43.08	-5,573.9	507.6	5,239.1	5,127.8	111.23	47.102	
7,500.0	7,125.4	7,099.9	7,099.9	17.4	142.1	-51.10	-5,573.9	507.6	5,219.6	5,094.0	125.55	41.575	
7,550.0	7,127.9	7,102.4	7,102.4	17.9	142.2	-81.64	-5,573.9	507.6	5,169.9	5,011.5	158.41	32.637	
7,562.9	7,128.0	7,102.5	7,102.5	18.0	142.2	-91.21	-5,573.9	507.6	5,157.1	4,997.0	160.16	32.200	
7,578.7	7,128.0	7,102.5	7,102.5	18.2	142.2	-91.21	-5,573.9	507.6	5,141.4	4,981.1	160.32	32.069	
7,600.0	7,127.9	7,102.4	7,102.4	18.4	142.2	-91.20	-5,573.9	507.6	5,120.2	4,959.7	160.54	31.894	
7,677.1	7,127.7	7,102.2	7,102.2	19.2	142.2	-91.19	-5,573.9	507.6	5,043.5	4,882.1	161.40	31.249	
7,700.0	7,127.7	7,102.2	7,102.2	19.5	142.2	-91.18	-5,573.9	507.6	5,020.8	4,859.2	161.65	31.059	
7,775.6	7,127.5	7,102.0	7,102.0	20.3	142.2	-91.16	-5,573.9	507.6	4,945.7	4,783.2	162.45	30.444	
7,800.0	7,127.5	7,102.0	7,102.0	20.5	142.2	-91.16	-5,573.9	507.6	4,921.4	4,758.7	162.71	30.247	
7,874.0	7,127.3	7,101.8	7,101.8	21.4	142.2	-91.14	-5,573.9	507.6	4,847.9	4,684.3	163.56	29.639	
7,900.0	7,127.2	7,101.7	7,101.7	21.7	142.2	-91.13	-5,573.9	507.6	4,822.1	4,658.2	163.86	29.427	
7,972.4	7,127.1	7,101.6	7,101.6	22.7	142.2	-91.12	-5,573.9	507.6	4,750.1	4,585.2	164.88	28.810	
8,000.0	7,127.0	7,101.5	7,101.5	23.1	142.2	-91.11	-5,573.9	507.6	4,722.7	4,557.5	165.26	28.577	
8,070.8	7,126.8	7,101.3	7,101.3	24.2	142.2	-91.09	-5,573.9	507.6	4,652.4	4,486.1	166.30	27.975	
8,100.0	7,126.8	7,101.3	7,101.3	24.6	142.2	-91.08	-5,573.9	507.6	4,623.4	4,456.7	166.73	27.730	
8,169.3	7,126.6	7,101.1	7,101.1	25.6	142.2	-91.07	-5,573.9	507.6	4,554.6	4,386.9	167.79	27.145	
8,200.0	7,126.6	7,101.1	7,101.1	26.1	142.2	-91.06	-5,573.9	507.6	4,524.1	4,355.9	168.26	26.888	
8,267.7	7,126.4	7,100.9	7,100.9	27.2	142.2	-91.04	-5,573.9	507.6	4,457.0	4,287.6	169.32	26.322	
8,300.0	7,126.3	7,100.8	7,100.8	27.7	142.2	-91.04	-5,573.9	507.6	4,424.9	4,255.1	169.83	26.055	
8,366.1	7,126.2	7,100.7	7,100.7	28.8	142.2	-91.02	-5,573.9	507.6	4,359.3	4,188.4	170.90	25.508	
8,400.0	7,126.1	7,100.6	7,100.6	29.3	142.2	-91.01	-5,573.9	507.6	4,325.7	4,154.3	171.45	25.231	
8,464.5	7,126.0	7,100.5	7,100.5	30.4	142.2	-91.00	-5,573.9	507.6	4,261.7	4,089.2	172.51	24.704	
8,500.0	7,125.9	7,100.4	7,100.4	31.0	142.2	-90.99	-5,573.9	507.6	4,226.5	4,053.4	173.10	24.417	
8,563.0	7,125.7	7,100.2	7,100.2	32.0	142.2	-90.97	-5,573.9	507.6	4,164.1	3,989.9	174.15	23.910	
8,600.0	7,125.6	7,100.1	7,100.1	32.6	142.2	-90.97	-5,573.9	507.6	4,127.4	3,952.6	174.78	23.615	
8,661.4	7,125.5	7,100.0	7,100.0	33.7	142.2	-90.95	-5,573.9	507.6	4,066.6	3,890.7	175.82	23.129	
8,700.0	7,125.4	7,099.9	7,099.9	34.4	142.2	-90.94	-5,573.9	507.6	4,028.3	3,851.8	176.48	22.826	
8,759.8	7,125.3	7,099.8	7,099.8	35.4	142.1	-90.93	-5,573.9	507.6	3,969.1	3,791.5	177.51	22.359	
8,800.0	7,125.2	7,099.7	7,099.7	36.1	142.1	-90.92	-5,573.9	507.6	3,929.3	3,751.1	178.21	22.049	
8,858.2	7,125.1	7,099.6	7,099.6	37.1	142.1	-90.90	-5,573.9	507.6	3,871.6	3,692.4	179.22	21.602	
8,900.0	7,125.0	7,099.5	7,099.5	37.8	142.1	-90.89	-5,573.9	507.6	3,830.3	3,650.3	179.95	21.285	
8,956.7	7,124.8	7,099.3	7,099.3	38.8	142.1	-90.88	-5,573.9	507.6	3,774.2	3,593.3	180.95	20.858	
9,000.0	7,124.7	7,099.2	7,099.2	39.6	142.1	-90.87	-5,573.9	507.6	3,731.3	3,549.6	181.71	20.535	
9,055.1	7,124.6	7,099.1	7,099.1	40.6	142.1	-90.86	-5,573.9	507.6	3,676.8	3,494.2	182.69	20.127	
9,100.0	7,124.5	7,099.0	7,099.0	41.4	142.1	-90.85	-5,573.9	507.6	3,632.5	3,449.0	183.48	19.797	
9,153.5	7,124.4	7,098.9	7,098.9	42.3	142.1	-90.83	-5,573.9	507.6	3,579.6	3,395.1	184.44	19.408	
9,200.0	7,124.3	7,098.8	7,098.8	43.2	142.1	-90.82	-5,573.9	507.6	3,533.6	3,348.4	185.27	19.073	
9,251.9	7,124.2	7,098.7	7,098.7	44.1	142.1	-90.81	-5,573.9	507.6	3,482.3	3,296.1	186.20	18.702	
9,300.0	7,124.1	7,098.6	7,098.6	45.0	142.1	-90.80	-5,573.9	507.6	3,434.9	3,247.8	187.06	18.362	
9,350.4	7,123.9	7,098.4	7,098.4	45.9	142.1	-90.79	-5,573.9	507.6	3,385.2	3,197.2	187.97	18.009	
9,400.0	7,123.8	7,098.3	7,098.3	46.8	142.1	-90.78	-5,573.9	507.6	3,336.2	3,147.4	188.87	17.664	
9,448.8	7,123.7	7,098.2	7,098.2	47.7	142.1	-90.76	-5,573.9	507.6	3,288.1	3,098.3	189.76	17.328	
9,500.0	7,123.6	7,098.1	7,098.1	48.6	142.1	-90.75	-5,573.9	507.6	3,237.6	3,046.9	190.68	16.979	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST VERT FARR #2 - 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						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	
9,547.2	7,123.5	7,098.0	7,098.0	49.4	142.1	-90.74	-5,573.9	507.6	3,191.1	2,999.6	191.55	16.660	
9,600.0	7,123.4	7,097.9	7,097.9	50.4	142.1	-90.73	-5,573.9	507.6	3,139.1	2,946.6	192.51	16.307	
9,645.6	7,123.3	7,097.8	7,097.8	51.2	142.1	-90.72	-5,573.9	507.6	3,094.2	2,900.8	193.34	16.004	
9,700.0	7,123.2	7,097.7	7,097.7	52.2	142.1	-90.70	-5,573.9	507.6	3,040.7	2,846.4	194.34	15.647	
9,744.1	7,123.1	7,097.6	7,097.6	53.1	142.1	-90.69	-5,573.9	507.6	2,997.4	2,802.2	195.14	15.360	
9,800.0	7,122.9	7,097.4	7,097.4	54.1	142.1	-90.68	-5,573.9	507.6	2,942.4	2,746.3	196.17	14.999	
9,842.5	7,122.8	7,097.3	7,097.3	54.9	142.1	-90.67	-5,573.9	507.6	2,900.7	2,703.7	196.95	14.728	
9,900.0	7,122.7	7,097.2	7,097.2	55.9	142.1	-90.66	-5,573.9	507.6	2,844.2	2,646.2	198.01	14.364	
9,940.9	7,122.6	7,097.1	7,097.1	56.7	142.1	-90.65	-5,573.9	507.6	2,804.1	2,605.3	198.77	14.108	
10,000.0	7,122.5	7,097.0	7,097.0	57.8	142.1	-90.63	-5,573.9	507.6	2,746.2	2,546.3	199.86	13.741	
10,039.3	7,122.4	7,096.9	7,096.9	58.5	142.1	-90.62	-5,573.9	507.6	2,707.7	2,507.1	200.58	13.499	
10,100.0	7,122.3	7,096.8	7,096.8	59.6	142.1	-90.61	-5,573.9	507.6	2,648.3	2,446.6	201.70	13.130	
10,137.8	7,122.2	7,096.7	7,096.7	60.3	142.1	-90.60	-5,573.9	507.6	2,611.4	2,408.9	202.41	12.902	
10,200.0	7,122.0	7,096.5	7,096.5	61.5	142.1	-90.59	-5,573.9	507.6	2,550.6	2,347.0	203.56	12.530	
10,236.2	7,121.9	7,096.4	7,096.4	62.2	142.1	-90.58	-5,573.9	507.6	2,515.2	2,311.0	204.23	12.316	
10,300.0	7,121.8	7,096.3	7,096.3	63.3	142.1	-90.56	-5,573.9	507.6	2,453.0	2,247.6	205.42	11.942	
10,334.6	7,121.7	7,096.2	7,096.2	64.0	142.1	-90.55	-5,573.9	507.6	2,419.3	2,213.2	206.06	11.741	
10,400.0	7,121.6	7,096.1	7,096.1	65.2	142.1	-90.54	-5,573.9	507.6	2,355.6	2,148.4	207.28	11.365	
10,433.0	7,121.5	7,096.0	7,096.0	65.8	142.1	-90.53	-5,573.9	507.6	2,323.5	2,115.6	207.89	11.177	
10,500.0	7,121.4	7,095.9	7,095.9	67.1	142.1	-90.52	-5,573.9	507.6	2,258.5	2,049.4	209.14	10.799	
10,531.5	7,121.3	7,095.8	7,095.8	67.7	142.1	-90.51	-5,573.9	507.6	2,228.0	2,018.3	209.73	10.623	
10,600.0	7,121.1	7,095.6	7,095.6	69.0	142.1	-90.49	-5,573.9	507.6	2,161.7	1,950.7	211.01	10.245	
10,629.9	7,121.1	7,095.6	7,095.6	69.5	142.1	-90.48	-5,573.9	507.6	2,132.8	1,921.2	211.57	10.081	
10,700.0	7,120.9	7,095.4	7,095.4	70.8	142.1	-90.47	-5,573.9	507.6	2,065.1	1,852.2	212.88	9.701	
10,728.3	7,120.8	7,095.3	7,095.3	71.4	142.1	-90.46	-5,573.9	507.6	2,037.8	1,824.4	213.41	9.549	
10,800.0	7,120.7	7,095.2	7,095.2	72.7	142.1	-90.44	-5,573.9	507.6	1,968.9	1,754.1	214.75	9.168	
10,826.7	7,120.6	7,095.1	7,095.1	73.2	142.1	-90.44	-5,573.9	507.6	1,943.2	1,728.0	215.25	9.028	
10,900.0	7,120.5	7,095.0	7,095.0	74.6	142.1	-90.42	-5,573.9	507.6	1,873.1	1,656.4	216.62	8.647	
10,925.2	7,120.4	7,094.9	7,094.9	75.1	142.0	-90.41	-5,573.9	507.6	1,849.0	1,631.9	217.09	8.517	
11,000.0	7,120.2	7,094.7	7,094.7	76.5	142.0	-90.40	-5,573.9	507.6	1,777.7	1,559.2	218.50	8.136	
11,023.6	7,120.2	7,094.7	7,094.7	76.9	142.0	-90.39	-5,573.9	507.6	1,755.3	1,536.3	218.94	8.017	
11,100.0	7,120.0	7,094.5	7,094.5	78.3	142.0	-90.37	-5,573.9	507.6	1,682.9	1,462.5	220.38	7.636	
11,122.0	7,120.0	7,094.5	7,094.5	78.8	142.0	-90.37	-5,573.9	507.6	1,662.1	1,441.3	220.79	7.528	
11,200.0	7,119.8	7,094.3	7,094.3	80.2	142.0	-90.35	-5,573.9	507.6	1,588.7	1,366.5	222.25	7.148	
11,220.4	7,119.7	7,094.2	7,094.2	80.6	142.0	-90.35	-5,573.9	507.6	1,569.5	1,346.9	222.64	7.050	
11,300.0	7,119.5	7,094.0	7,094.0	82.1	142.0	-90.33	-5,573.9	507.6	1,495.3	1,271.1	224.14	6.671	
11,318.9	7,119.5	7,094.0	7,094.0	82.5	142.0	-90.32	-5,573.9	507.6	1,477.7	1,253.2	224.49	6.583	
11,400.0	7,119.3	7,093.8	7,093.8	84.0	142.0	-90.30	-5,573.9	507.6	1,402.8	1,176.7	226.02	6.206	
11,417.3	7,119.3	7,093.8	7,093.8	84.3	142.0	-90.30	-5,573.9	507.6	1,386.9	1,160.5	226.34	6.127	
11,500.0	7,119.1	7,093.6	7,093.6	85.9	142.0	-90.28	-5,573.9	507.6	1,311.3	1,083.4	227.90	5.754	
11,515.7	7,119.1	7,093.6	7,093.6	86.2	142.0	-90.28	-5,573.9	507.6	1,297.1	1,068.9	228.20	5.684	
11,600.0	7,118.9	7,093.4	7,093.4	87.8	142.0	-90.26	-5,573.9	507.6	1,221.3	991.5	229.79	5.315	
11,614.1	7,118.8	7,093.3	7,093.3	88.0	142.0	-90.25	-5,573.9	507.6	1,208.6	978.6	230.06	5.254	
11,700.0	7,118.6	7,093.1	7,093.1	89.7	142.0	-90.23	-5,573.9	507.6	1,132.8	901.2	231.68	4.890	
11,712.6	7,118.6	7,093.1	7,093.1	89.9	142.0	-90.23	-5,573.9	507.6	1,121.9	889.9	231.91	4.837	
11,800.0	7,118.4	7,092.9	7,092.9	91.6	142.0	-90.21	-5,573.9	507.6	1,046.5	812.9	233.56	4.481	
11,811.0	7,118.4	7,092.9	7,092.9	91.8	142.0	-90.21	-5,573.9	507.6	1,037.2	803.4	233.77	4.437	
11,900.0	7,118.2	7,092.7	7,092.7	93.4	142.0	-90.19	-5,573.9	507.6	962.8	727.4	235.45	4.089	
11,909.4	7,118.2	7,092.7	7,092.7	93.6	142.0	-90.18	-5,573.9	507.6	955.1	719.5	235.63	4.053	
12,000.0	7,118.0	7,092.5	7,092.5	95.3	142.0	-90.16	-5,573.9	507.6	882.6	645.2	237.34	3.719	
12,007.8	7,118.0	7,092.5	7,092.5	95.5	142.0	-90.16	-5,573.9	507.6	876.4	638.9	237.49	3.690	
12,100.0	7,117.8	7,092.3	7,092.3	97.2	142.0	-90.14	-5,573.9	507.6	806.7	567.5	239.23	3.372	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
12,106.3	7,117.7	7,092.2	7,092.2	97.4	142.0	-90.14	-5,573.9	507.6	802.1	562.8	239.35	3.351	
12,200.0	7,117.5	7,092.0	7,092.0	99.1	142.0	-90.11	-5,573.9	507.6	736.6	495.5	241.13	3.055	
12,204.7	7,117.5	7,092.0	7,092.0	99.2	142.0	-90.11	-5,573.9	507.6	733.5	492.3	241.21	3.041	
12,300.0	7,117.3	7,091.8	7,091.8	101.0	142.0	-90.09	-5,573.9	507.6	674.2	431.2	243.02	2.774	
12,303.1	7,117.3	7,091.8	7,091.8	101.1	142.0	-90.09	-5,573.9	507.6	672.4	429.3	243.08	2.766	
12,400.0	7,117.1	7,091.6	7,091.6	102.9	142.0	-90.07	-5,573.9	507.6	621.6	376.7	244.91	2.538	
12,401.5	7,117.1	7,091.6	7,091.6	103.0	142.0	-90.07	-5,573.9	507.6	620.9	375.9	244.94	2.535	
12,500.0	7,116.9	7,091.4	7,091.4	104.8	142.0	-90.04	-5,573.9	507.6	581.6	334.8	246.81	2.356	
12,598.4	7,116.6	7,091.1	7,091.1	106.7	142.0	-90.02	-5,573.9	507.6	557.1	308.5	248.67	2.240	
12,600.0	7,116.6	7,091.1	7,091.1	106.7	142.0	-90.02	-5,573.9	507.6	556.9	308.2	248.70	2.239	
12,690.7	7,116.4	7,090.9	7,090.9	108.5	142.0	-90.00	-5,573.9	507.6	549.4	299.0	250.42	2.194 CC	
12,696.8	7,116.4	7,090.9	7,090.9	108.6	142.0	-90.00	-5,573.9	507.6	549.5	298.9	250.54	2.193	
12,700.0	7,116.4	7,090.9	7,090.9	108.6	142.0	-90.00	-5,573.9	507.6	549.5	298.9	250.60	2.193 ES, SF	
12,795.2	7,116.2	7,090.7	7,090.7	110.4	142.0	-89.98	-5,573.9	507.6	559.3	306.9	252.40	2.216	
12,800.0	7,116.2	7,090.7	7,090.7	110.5	142.0	-89.97	-5,573.9	507.6	560.2	307.7	252.49	2.219	
12,893.7	7,116.0	7,090.5	7,090.5	112.3	142.0	-89.95	-5,573.9	507.6	585.7	331.5	254.27	2.304	
12,900.0	7,116.0	7,090.5	7,090.5	112.4	142.0	-89.95	-5,573.9	507.6	588.0	333.6	254.39	2.311	
12,992.1	7,115.7	7,090.2	7,090.2	114.2	142.0	-89.93	-5,573.9	507.6	626.7	370.6	256.14	2.447	
13,000.0	7,115.7	7,090.2	7,090.2	114.3	142.0	-89.93	-5,573.9	507.6	630.5	374.2	256.29	2.460	
13,090.5	7,115.5	7,090.0	7,090.0	116.1	142.0	-89.91	-5,573.9	507.6	679.5	421.5	258.01	2.634	
13,100.0	7,115.5	7,090.0	7,090.0	116.2	142.0	-89.90	-5,573.9	507.6	685.1	427.0	258.19	2.654	
13,188.9	7,115.3	7,089.8	7,089.8	117.9	141.9	-89.88	-5,573.9	507.6	741.7	481.9	259.87	2.854	
13,200.0	7,115.3	7,089.8	7,089.8	118.1	141.9	-89.88	-5,573.9	507.6	749.2	489.1	260.08	2.881	
13,287.4	7,115.1	7,089.6	7,089.6	119.8	141.9	-89.86	-5,573.9	507.6	811.1	549.4	261.74	3.099	
13,300.0	7,115.1	7,089.6	7,089.6	120.0	141.9	-89.86	-5,573.9	507.6	820.5	558.5	261.98	3.132	
13,385.8	7,114.9	7,089.4	7,089.4	121.7	141.9	-89.84	-5,573.9	507.6	886.0	622.4	263.61	3.361	
13,400.0	7,114.8	7,089.3	7,089.3	121.9	141.9	-89.83	-5,573.9	507.6	897.2	633.3	263.88	3.400	
13,484.2	7,114.6	7,089.1	7,089.1	123.6	141.9	-89.81	-5,573.9	507.6	965.2	699.7	265.48	3.636	
13,500.0	7,114.6	7,089.1	7,089.1	123.9	141.9	-89.81	-5,573.9	507.6	978.2	712.4	265.78	3.680	
13,582.6	7,114.4	7,088.9	7,088.9	125.4	141.9	-89.79	-5,573.9	507.6	1,047.6	780.3	267.35	3.918	
13,600.0	7,114.4	7,088.9	7,088.9	125.8	141.9	-89.79	-5,573.9	507.6	1,062.4	794.7	267.68	3.969	
13,681.1	7,114.2	7,088.7	7,088.7	127.3	141.9	-89.77	-5,573.9	507.6	1,132.6	863.4	269.22	4.207	
13,700.0	7,114.2	7,088.7	7,088.7	127.7	141.9	-89.76	-5,573.9	507.6	1,149.2	879.6	269.58	4.263	
13,779.5	7,114.0	7,088.5	7,088.5	129.2	141.9	-89.75	-5,573.9	507.6	1,219.6	948.5	271.10	4.499	
13,800.0	7,113.9	7,088.4	7,088.4	129.6	141.9	-89.74	-5,573.9	507.6	1,237.9	966.4	271.49	4.560	
13,877.9	7,113.8	7,088.3	7,088.3	131.1	141.9	-89.72	-5,573.9	507.6	1,308.2	1,035.2	272.97	4.793	
13,900.0	7,113.7	7,088.2	7,088.2	131.5	141.9	-89.72	-5,573.9	507.6	1,328.3	1,054.9	273.39	4.859	
13,976.3	7,113.5	7,088.0	7,088.0	132.9	141.9	-89.70	-5,573.9	507.6	1,398.1	1,123.3	274.84	5.087	
14,000.0	7,113.5	7,088.0	7,088.0	133.4	141.9	-89.69	-5,573.9	507.6	1,419.9	1,144.6	275.29	5.158	
14,074.8	7,113.3	7,087.8	7,087.8	134.8	141.9	-89.68	-5,573.9	507.6	1,489.2	1,212.4	276.71	5.382	
14,100.0	7,113.3	7,087.8	7,087.8	135.3	141.9	-89.67	-5,573.9	507.6	1,512.6	1,235.4	277.19	5.457	
14,173.2	7,113.1	7,087.6	7,087.6	136.7	141.9	-89.65	-5,573.9	507.6	1,581.1	1,302.5	278.58	5.675	
14,200.0	7,113.0	7,087.5	7,087.5	137.2	141.9	-89.65	-5,573.9	507.6	1,606.2	1,327.1	279.09	5.755	
14,219.1	7,113.0	7,087.5	7,087.5	137.6	141.9	-89.64	-5,573.9	507.6	1,624.2	1,344.7	279.46	5.812	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	-179.90	-6,284.3	-11.2	6,284.4				
98.4	98.4	69.9	69.9	0.1	0.6	-179.90	-6,284.3	-11.2	6,284.3	6,283.6	0.71	8,852.734	
100.0	100.0	71.5	71.5	0.1	0.6	-179.90	-6,284.3	-11.2	6,284.3	6,283.6	0.73	8,662.257	
196.8	196.8	168.3	168.3	0.3	2.5	-179.90	-6,284.3	-11.2	6,284.3	6,281.5	2.81	2,235.546	
200.0	200.0	171.5	171.5	0.3	2.6	-179.90	-6,284.3	-11.2	6,284.3	6,281.4	2.89	2,172.465	
295.3	295.3	266.8	266.8	0.5	4.6	-179.90	-6,284.3	-11.2	6,284.3	6,279.1	5.17	1,215.180	
300.0	300.0	271.5	271.5	0.5	4.7	-179.90	-6,284.3	-11.2	6,284.3	6,279.0	5.28	1,190.098	
393.7	393.7	365.2	365.2	0.8	6.7	-179.90	-6,284.3	-11.2	6,284.3	6,276.9	7.42	847.372	
400.0	400.0	371.5	371.5	0.8	6.8	-179.90	-6,284.3	-11.2	6,284.3	6,276.7	7.56	831.359	
492.1	492.1	463.6	463.6	1.0	8.7	-179.90	-6,284.3	-11.2	6,284.3	6,274.7	9.64	651.952	
500.0	500.0	471.5	471.5	1.0	8.8	-179.90	-6,284.3	-11.2	6,284.3	6,274.5	9.82	640.165	
590.5	590.5	562.0	562.0	1.2	10.7	-179.90	-6,284.3	-11.2	6,284.3	6,272.4	11.85	530.165	
600.0	600.0	571.5	571.5	1.2	10.8	-179.90	-6,284.3	-11.2	6,284.3	6,272.2	12.07	520.834	
689.0	689.0	660.5	660.5	1.4	12.6	-179.90	-6,284.3	-11.2	6,284.3	6,270.2	14.06	446.858	
700.0	700.0	671.5	671.5	1.4	12.9	-179.90	-6,284.3	-11.2	6,284.3	6,270.0	14.31	439.133	
787.4	787.4	758.9	758.9	1.6	14.6	-179.90	-6,284.3	-11.2	6,284.3	6,268.0	16.27	386.237	
800.0	800.0	771.5	771.5	1.7	14.9	-179.90	-6,284.3	-11.2	6,284.3	6,267.7	16.55	379.646	
885.8	885.8	857.3	857.3	1.9	16.6	-179.90	-6,284.3	-11.2	6,284.3	6,265.8	18.48	340.129	
900.0	900.0	871.5	871.5	1.9	16.9	-179.90	-6,284.3	-11.2	6,284.3	6,265.5	18.79	334.382	
984.2	984.2	955.7	955.7	2.1	18.6	-179.90	-6,284.3	-11.2	6,284.3	6,263.6	20.68	303.872	
1,000.0	1,000.0	971.5	971.5	2.1	18.9	-179.90	-6,284.3	-11.2	6,284.3	6,263.3	21.03	298.777	
1,082.7	1,082.7	1,054.2	1,054.2	2.3	20.6	-179.90	-6,284.3	-11.2	6,284.3	6,261.4	22.88	274.610	
1,100.0	1,100.0	1,071.5	1,071.5	2.3	20.9	-179.90	-6,284.3	-11.2	6,284.3	6,261.0	23.27	270.033	
1,181.1	1,181.1	1,152.6	1,152.6	2.5	22.6	-179.90	-6,284.3	-11.2	6,284.3	6,259.2	25.09	250.494	
1,200.0	1,200.0	1,171.5	1,171.5	2.6	22.9	-179.90	-6,284.3	-11.2	6,284.3	6,258.8	25.51	246.340	
1,279.5	1,279.5	1,251.0	1,251.0	2.7	24.5	-179.90	-6,284.3	-11.2	6,284.3	6,257.0	27.29	230.275	
1,300.0	1,300.0	1,271.5	1,271.5	2.8	25.0	-179.90	-6,284.3	-11.2	6,284.3	6,256.5	27.75	226.473	
1,377.9	1,377.9	1,349.4	1,349.4	3.0	26.5	-175.61	-6,284.3	-11.2	6,285.3	6,255.9	29.48	213.190	
1,400.0	1,400.0	1,371.5	1,371.5	3.0	27.0	-175.61	-6,284.3	-11.2	6,286.0	6,256.1	29.97	209.756	
1,476.4	1,476.3	1,447.8	1,447.8	3.2	28.5	-175.61	-6,284.3	-11.2	6,289.7	6,258.1	31.64	198.817	
1,500.0	1,499.8	1,471.3	1,471.3	3.2	29.0	-175.61	-6,284.3	-11.2	6,291.2	6,259.1	32.15	195.714	
1,574.8	1,574.4	1,545.9	1,545.9	3.4	30.5	-175.60	-6,284.3	-11.2	6,297.4	6,263.7	33.74	186.647	
1,600.0	1,599.5	1,571.0	1,571.0	3.5	31.0	-175.60	-6,284.3	-11.2	6,299.9	6,265.7	34.27	183.836	
1,673.2	1,672.2	1,643.7	1,643.7	3.6	32.4	-175.59	-6,284.3	-11.2	6,308.5	6,272.7	35.79	176.282	
1,700.0	1,698.7	1,670.2	1,670.2	3.7	33.0	-175.59	-6,284.3	-11.2	6,312.1	6,275.8	36.33	173.734	
1,771.6	1,769.5	1,741.0	1,741.0	3.9	34.4	-175.58	-6,284.3	-11.2	6,322.9	6,285.1	37.77	167.416	
1,800.0	1,797.5	1,769.0	1,769.0	4.0	35.0	-175.58	-6,284.3	-11.2	6,327.7	6,289.4	38.32	165.108	
1,870.1	1,866.3	1,837.8	1,837.8	4.2	36.4	-175.57	-6,284.3	-11.2	6,340.7	6,301.0	39.68	159.812	
1,900.1	1,895.8	1,867.3	1,867.3	4.3	36.9	-175.56	-6,284.3	-11.2	6,346.7	6,306.5	40.24	157.714	
1,968.5	1,962.6	1,934.1	1,934.1	4.5	38.3	-175.57	-6,284.3	-11.2	6,360.9	6,319.2	41.72	152.462	
2,000.0	1,993.4	1,964.9	1,964.9	4.6	38.9	-175.58	-6,284.3	-11.2	6,367.4	6,325.0	42.40	150.167	
2,066.9	2,058.9	2,030.4	2,030.4	4.8	40.2	-175.59	-6,284.3	-11.2	6,381.3	6,337.5	43.86	145.508	
2,100.0	2,091.3	2,062.8	2,062.8	4.9	40.9	-175.59	-6,284.3	-11.2	6,388.2	6,343.6	44.57	143.332	
2,165.3	2,155.2	2,126.7	2,126.7	5.1	42.2	-175.60	-6,284.3	-11.2	6,401.7	6,355.8	45.98	139.214	
2,200.0	2,189.1	2,160.6	2,160.6	5.3	42.8	-175.60	-6,284.3	-11.2	6,408.9	6,362.2	46.74	137.122	
2,263.8	2,251.4	2,222.9	2,222.9	5.5	44.1	-175.61	-6,284.3	-11.2	6,422.1	6,374.0	48.12	133.450	
2,300.0	2,286.9	2,258.4	2,258.4	5.6	44.8	-175.62	-6,284.3	-11.2	6,429.7	6,380.7	48.91	131.456	
2,362.2	2,347.7	2,319.2	2,319.2	5.9	46.0	-175.63	-6,284.3	-11.2	6,442.6	6,392.3	50.26	128.175	
2,400.0	2,384.7	2,356.2	2,356.2	6.0	46.8	-175.63	-6,284.3	-11.2	6,450.4	6,399.3	51.09	126.266	
2,460.6	2,444.0	2,415.5	2,415.5	6.3	48.0	-175.64	-6,284.3	-11.2	6,463.0	6,410.6	52.41	123.327	
2,500.0	2,482.5	2,454.0	2,454.0	6.4	48.7	-175.65	-6,284.3	-11.2	6,471.1	6,417.9	53.26	121.496	
2,559.0	2,540.3	2,511.8	2,511.8	6.6	49.9	-175.66	-6,284.3	-11.2	6,483.4	6,428.8	54.55	118.856	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													NE SW SEC. 7 T4N R64W 6th P.M. - EXIST VERT FARR C #18-25 - 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							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					
2,600.0	2,580.3	2,551.8	2,551.8	6.8	50.7	-175.66	-6,284.3	-11.2	6,491.9	6,436.4	55.44	117.097					
2,617.6	2,597.5	2,569.0	2,569.0	6.9	51.1	-175.66	-6,284.3	-11.2	6,495.5	6,439.7	55.82	116.357					
2,657.5	2,636.6	2,608.1	2,608.1	7.0	51.8	-175.68	-6,284.3	-11.2	6,503.5	6,446.7	56.83	114.430					
2,700.0	2,678.4	2,649.9	2,649.9	7.2	52.7	-175.70	-6,284.3	-11.2	6,511.5	6,453.5	57.91	112.446					
2,755.9	2,733.5	2,705.0	2,705.0	7.3	53.8	-175.72	-6,284.3	-11.2	6,520.9	6,461.6	59.29	109.981					
2,800.0	2,777.0	2,748.5	2,748.5	7.4	54.7	-175.73	-6,284.3	-11.2	6,527.7	6,467.3	60.38	108.117					
2,854.3	2,830.9	2,802.4	2,802.4	7.6	55.8	-175.75	-6,284.3	-11.2	6,535.0	6,473.3	61.70	105.919					
2,900.0	2,876.2	2,847.7	2,847.7	7.7	56.7	-175.76	-6,284.3	-11.2	6,540.4	6,477.6	62.80	104.148					
2,952.7	2,928.7	2,900.2	2,900.2	7.8	57.7	-175.77	-6,284.3	-11.2	6,545.8	6,481.7	64.06	102.190					
3,000.0	2,975.8	2,947.3	2,947.3	7.9	58.7	-175.78	-6,284.3	-11.2	6,549.7	6,484.6	65.17	100.508					
3,051.2	3,026.8	2,998.3	2,998.3	8.0	59.7	-175.79	-6,284.3	-11.2	6,553.2	6,486.8	66.35	98.763					
3,100.0	3,075.6	3,047.1	3,047.1	8.1	60.7	-175.79	-6,284.3	-11.2	6,555.6	6,488.1	67.47	97.167					
3,149.6	3,125.2	3,096.7	3,096.7	8.2	61.7	-175.80	-6,284.3	-11.2	6,557.2	6,488.6	68.58	95.614					
3,200.0	3,175.6	3,147.1	3,147.1	8.3	62.7	-175.80	-6,284.3	-11.2	6,557.9	6,488.2	69.69	94.101					
3,217.7	3,193.3	3,164.8	3,164.8	8.3	63.0	179.92	-6,284.3	-11.2	6,558.0	6,487.9	70.08	93.585					
3,248.0	3,223.6	3,195.1	3,195.1	8.4	63.7	179.92	-6,284.3	-11.2	6,558.0	6,487.2	70.74	92.702					
3,300.0	3,275.6	3,247.1	3,247.1	8.5	64.7	179.92	-6,284.3	-11.2	6,558.0	6,486.1	71.89	91.223					
3,346.4	3,322.0	3,293.5	3,293.5	8.6	65.6	179.92	-6,284.3	-11.2	6,558.0	6,485.1	72.92	89.930					
3,400.0	3,375.6	3,347.1	3,347.1	8.7	66.7	179.92	-6,284.3	-11.2	6,558.0	6,483.9	74.11	88.485					
3,444.9	3,420.4	3,391.9	3,391.9	8.7	67.6	179.92	-6,284.3	-11.2	6,558.0	6,482.9	75.11	87.308					
3,500.0	3,475.6	3,447.1	3,447.1	8.8	68.7	179.92	-6,284.3	-11.2	6,558.0	6,481.6	76.34	85.905					
3,543.3	3,518.9	3,490.4	3,490.4	8.9	69.6	179.92	-6,284.3	-11.2	6,558.0	6,480.7	77.30	84.834					
3,600.0	3,575.6	3,547.1	3,547.1	9.0	70.7	179.92	-6,284.3	-11.2	6,558.0	6,479.4	78.57	83.471					
3,641.7	3,617.3	3,588.8	3,588.8	9.1	71.6	179.92	-6,284.3	-11.2	6,558.0	6,478.5	79.50	82.495					
3,700.0	3,675.6	3,647.1	3,647.1	9.2	72.7	179.92	-6,284.3	-11.2	6,558.0	6,477.2	80.79	81.170					
3,740.1	3,715.7	3,687.2	3,687.2	9.3	73.5	179.92	-6,284.3	-11.2	6,558.0	6,476.3	81.69	80.282					
3,800.0	3,775.6	3,747.1	3,747.1	9.4	74.8	179.92	-6,284.3	-11.2	6,558.0	6,475.0	83.02	78.993					
3,838.6	3,814.1	3,785.6	3,785.6	9.5	75.5	179.92	-6,284.3	-11.2	6,558.0	6,474.1	83.88	78.183					
3,900.0	3,875.6	3,847.1	3,847.1	9.6	76.8	179.92	-6,284.3	-11.2	6,558.0	6,472.7	85.25	76.929					
3,937.0	3,912.6	3,884.1	3,884.1	9.7	77.5	179.92	-6,284.3	-11.2	6,558.0	6,471.9	86.07	76.192					
4,000.0	3,975.6	3,947.1	3,947.1	9.8	78.8	179.92	-6,284.3	-11.2	6,558.0	6,470.5	87.48	74.969					
4,035.4	4,011.0	3,982.5	3,982.5	9.9	79.5	179.92	-6,284.3	-11.2	6,558.0	6,469.7	88.27	74.299					
4,100.0	4,075.6	4,047.1	4,047.1	10.0	80.8	179.92	-6,284.3	-11.2	6,558.0	6,468.3	89.70	73.107					
4,133.8	4,109.4	4,080.9	4,080.9	10.0	81.5	179.92	-6,284.3	-11.2	6,558.0	6,467.5	90.46	72.497					
4,200.0	4,175.6	4,147.1	4,147.1	10.2	82.8	179.92	-6,284.3	-11.2	6,558.0	6,466.1	91.93	71.334					
4,232.3	4,207.8	4,179.3	4,179.3	10.2	83.4	179.92	-6,284.3	-11.2	6,558.0	6,465.3	92.65	70.781					
4,300.0	4,275.6	4,247.1	4,247.1	10.4	84.8	179.92	-6,284.3	-11.2	6,558.0	6,463.8	94.16	69.646					
4,330.7	4,306.3	4,277.8	4,277.8	10.4	85.4	179.92	-6,284.3	-11.2	6,558.0	6,463.1	94.85	69.143					
4,400.0	4,375.6	4,347.1	4,347.1	10.6	86.8	179.92	-6,284.3	-11.2	6,558.0	6,461.6	96.39	68.035					
4,429.1	4,404.7	4,376.2	4,376.2	10.6	87.4	179.92	-6,284.3	-11.2	6,558.0	6,460.9	97.04	67.580					
4,500.0	4,475.6	4,447.1	4,447.1	10.8	88.8	179.92	-6,284.3	-11.2	6,558.0	6,459.4	98.62	66.497					
4,527.5	4,503.1	4,474.6	4,474.6	10.8	89.4	179.92	-6,284.3	-11.2	6,558.0	6,458.8	99.24	66.085					
4,600.0	4,575.6	4,547.1	4,547.1	11.0	90.8	179.92	-6,284.3	-11.2	6,558.0	6,457.1	100.85	65.026					
4,626.0	4,601.5	4,573.0	4,573.0	11.0	91.4	179.92	-6,284.3	-11.2	6,558.0	6,456.6	101.43	64.655					
4,700.0	4,675.6	4,647.1	4,647.1	11.2	92.9	179.92	-6,284.3	-11.2	6,558.0	6,454.9	103.08	63.620					
4,724.4	4,700.0	4,671.5	4,671.5	11.2	93.3	179.92	-6,284.3	-11.2	6,558.0	6,454.4	103.63	63.285					
4,800.0	4,775.6	4,747.1	4,747.1	11.4	94.9	179.92	-6,284.3	-11.2	6,558.0	6,452.7	105.31	62.272					
4,822.8	4,798.4	4,769.9	4,769.9	11.4	95.3	179.92	-6,284.3	-11.2	6,558.0	6,452.2	105.82	61.972					
4,900.0	4,875.6	4,847.1	4,847.1	11.6	96.9	179.92	-6,284.3	-11.2	6,558.0	6,450.4	107.54	60.980					
4,921.2	4,896.8	4,868.3	4,868.3	11.6	97.3	179.92	-6,284.3	-11.2	6,558.0	6,450.0	108.02	60.713					
5,000.0	4,975.6	4,947.1	4,947.1	11.8	98.9	179.92	-6,284.3	-11.2	6,558.0	6,448.2	109.77	59.741					
5,019.7	4,995.2	4,966.7	4,966.7	11.8	99.3	179.92	-6,284.3	-11.2	6,558.0	6,447.8	110.21	59.503					

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												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
5,100.0	5,075.6	5,047.1	5,047.1	12.0	100.9	179.92	-6,284.3	-11.2	6,558.0	6,446.0	112.00	58.551	
5,118.1	5,093.7	5,065.2	5,065.2	12.0	101.3	179.92	-6,284.3	-11.2	6,558.0	6,445.6	112.41	58.341	
5,200.0	5,175.6	5,147.1	5,147.1	12.2	102.9	179.92	-6,284.3	-11.2	6,558.0	6,443.8	114.24	57.408	
5,216.5	5,192.1	5,163.6	5,163.6	12.2	103.2	179.92	-6,284.3	-11.2	6,558.0	6,443.4	114.60	57.223	
5,300.0	5,275.6	5,247.1	5,247.1	12.4	104.9	179.92	-6,284.3	-11.2	6,558.0	6,441.5	116.47	56.308	
5,314.9	5,290.5	5,262.0	5,262.0	12.4	105.2	179.92	-6,284.3	-11.2	6,558.0	6,441.2	116.80	56.147	
5,400.0	5,375.6	5,347.1	5,347.1	12.6	106.9	179.92	-6,284.3	-11.2	6,558.0	6,439.3	118.70	55.249	
5,413.4	5,388.9	5,360.4	5,360.4	12.6	107.2	179.92	-6,284.3	-11.2	6,558.0	6,439.0	119.00	55.110	
5,500.0	5,475.6	5,447.1	5,447.1	12.8	108.9	179.92	-6,284.3	-11.2	6,558.0	6,437.1	120.93	54.229	
5,511.8	5,487.4	5,458.9	5,458.9	12.8	109.2	179.92	-6,284.3	-11.2	6,558.0	6,436.8	121.19	54.112	
5,600.0	5,575.6	5,547.1	5,547.1	13.0	111.0	179.92	-6,284.3	-11.2	6,558.0	6,434.8	123.16	53.247	
5,610.2	5,585.8	5,557.3	5,557.3	13.0	111.2	179.92	-6,284.3	-11.2	6,558.0	6,434.6	123.39	53.148	
5,700.0	5,675.6	5,647.1	5,647.1	13.2	113.0	179.92	-6,284.3	-11.2	6,558.0	6,432.6	125.39	52.299	
5,708.6	5,684.2	5,655.7	5,655.7	13.2	113.1	179.92	-6,284.3	-11.2	6,558.0	6,432.4	125.59	52.219	
5,800.0	5,775.6	5,747.1	5,747.1	13.4	115.0	179.92	-6,284.3	-11.2	6,558.0	6,430.4	127.63	51.384	
5,807.1	5,782.6	5,754.1	5,754.1	13.4	115.1	179.92	-6,284.3	-11.2	6,558.0	6,430.2	127.78	51.321	
5,900.0	5,875.6	5,847.1	5,847.1	13.6	117.0	179.92	-6,284.3	-11.2	6,558.0	6,428.1	129.86	50.501	
5,905.5	5,881.1	5,852.6	5,852.6	13.6	117.1	179.92	-6,284.3	-11.2	6,558.0	6,428.0	129.98	50.453	
6,000.0	5,975.6	5,947.1	5,947.1	13.8	119.0	179.92	-6,284.3	-11.2	6,558.0	6,425.9	132.09	49.648	
6,003.9	5,979.5	5,951.0	5,951.0	13.8	119.1	179.92	-6,284.3	-11.2	6,558.0	6,425.8	132.18	49.615	
6,100.0	6,075.6	6,047.1	6,047.1	14.0	121.0	179.92	-6,284.3	-11.2	6,558.0	6,423.7	134.32	48.822	
6,102.3	6,077.9	6,049.4	6,049.4	14.0	121.1	179.92	-6,284.3	-11.2	6,558.0	6,423.6	134.38	48.803	
6,200.0	6,175.6	6,147.1	6,147.1	14.2	123.0	179.92	-6,284.3	-11.2	6,558.0	6,421.4	136.56	48.024	
6,200.8	6,176.3	6,147.8	6,147.8	14.2	123.0	179.92	-6,284.3	-11.2	6,558.0	6,421.4	136.57	48.018	
6,299.2	6,274.8	6,246.3	6,246.3	14.4	125.0	179.92	-6,284.3	-11.2	6,558.0	6,419.2	138.79	47.252	
6,300.0	6,275.6	6,247.1	6,247.1	14.4	125.0	179.92	-6,284.3	-11.2	6,558.0	6,419.2	138.79	47.252	
6,397.6	6,373.2	6,344.7	6,344.7	14.7	127.0	179.92	-6,284.3	-11.2	6,558.0	6,417.0	140.97	46.521	
6,400.0	6,375.6	6,347.1	6,347.1	14.7	127.0	179.92	-6,284.3	-11.2	6,558.0	6,417.0	141.02	46.503	
6,436.2	6,411.8	6,383.3	6,383.3	14.7	127.8	179.92	-6,284.3	-11.2	6,558.0	6,416.2	141.83	46.238	
6,450.0	6,425.6	6,397.1	6,397.1	14.8	128.0	-0.29	-6,284.3	-11.2	6,557.9	6,415.8	142.10	46.150	
6,496.0	6,471.5	6,443.0	6,443.0	14.8	129.0	-0.29	-6,284.3	-11.2	6,555.5	6,412.9	142.61	45.969	
6,500.0	6,475.5	6,447.0	6,447.0	14.8	129.0	-0.29	-6,284.3	-11.2	6,555.2	6,412.5	142.62	45.962	
6,550.0	6,525.1	6,496.6	6,496.6	14.9	130.0	-0.30	-6,284.3	-11.2	6,549.0	6,406.5	142.44	45.975	
6,594.5	6,568.7	6,540.2	6,540.2	14.9	130.9	-0.30	-6,284.3	-11.2	6,540.6	6,398.9	141.69	46.162	
6,600.0	6,574.1	6,545.6	6,545.6	14.9	131.0	-0.30	-6,284.3	-11.2	6,539.3	6,397.8	141.55	46.197	
6,650.0	6,622.4	6,593.9	6,593.9	14.9	132.0	-0.31	-6,284.3	-11.2	6,526.3	6,386.4	139.94	46.635	
6,692.9	6,663.0	6,634.5	6,634.5	14.9	132.8	-0.31	-6,284.3	-11.2	6,512.5	6,374.5	137.98	47.197	
6,700.0	6,669.6	6,641.1	6,641.1	14.9	133.0	-0.31	-6,284.3	-11.2	6,510.0	6,372.4	137.61	47.308	
6,750.0	6,715.6	6,687.1	6,687.1	14.9	133.9	-0.33	-6,284.3	-11.2	6,490.4	6,355.8	134.55	48.236	
6,791.3	6,752.5	6,724.0	6,724.0	14.9	134.6	-0.34	-6,284.3	-11.2	6,471.8	6,340.3	131.49	49.219	
6,800.0	6,760.1	6,731.6	6,731.6	14.9	134.8	-0.34	-6,284.3	-11.2	6,467.6	6,336.8	130.78	49.453	
6,850.0	6,802.9	6,774.4	6,774.4	14.9	135.6	-0.35	-6,284.3	-11.2	6,441.8	6,315.4	126.31	50.998	
6,889.7	6,835.6	6,807.1	6,807.1	14.9	136.3	-0.37	-6,284.3	-11.2	6,419.1	6,296.9	122.27	52.498	
6,900.0	6,843.8	6,815.3	6,815.3	14.9	136.5	-0.37	-6,284.3	-11.2	6,413.0	6,291.9	121.16	52.929	
6,950.0	6,882.6	6,854.1	6,854.1	14.9	137.2	-0.40	-6,284.3	-11.2	6,381.5	6,266.1	115.36	55.319	
6,988.2	6,910.7	6,882.2	6,882.2	15.0	137.8	-0.42	-6,284.3	-11.2	6,355.6	6,245.1	110.51	57.514	
7,000.0	6,919.1	6,890.6	6,890.6	15.0	138.0	-0.43	-6,284.3	-11.2	6,347.3	6,238.4	108.93	58.270	
7,050.0	6,953.1	6,924.6	6,924.6	15.0	138.7	-0.46	-6,284.3	-11.2	6,310.7	6,208.8	101.92	61.919	
7,086.6	6,976.4	6,947.9	6,947.9	15.1	139.1	-0.49	-6,284.3	-11.2	6,282.4	6,186.0	96.44	65.142	
7,100.0	6,984.5	6,956.0	6,956.0	15.1	139.3	-0.51	-6,284.3	-11.2	6,271.8	6,177.4	94.37	66.461	
7,150.0	7,013.1	6,984.6	6,984.6	15.3	139.9	-0.57	-6,284.3	-11.2	6,230.8	6,144.5	86.33	72.172	
7,185.0	7,031.4	7,002.9	7,002.9	15.4	140.2	-0.62	-6,284.3	-11.2	6,200.9	6,120.5	80.45	77.081	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
7,200.0	7,038.8	7,010.3	7,010.3	15.4	140.4	-0.64	-6,284.3	-11.2	6,187.9	6,110.0	77.87	79.463	
7,250.0	7,061.4	7,032.9	7,032.9	15.6	140.8	-0.74	-6,284.3	-11.2	6,143.3	6,074.3	69.05	88.966	
7,283.4	7,074.8	7,046.3	7,046.3	15.8	141.1	-0.83	-6,284.3	-11.2	6,112.7	6,049.7	62.99	97.037	
7,300.0	7,080.9	7,052.4	7,052.4	15.9	141.2	-0.88	-6,284.3	-11.2	6,097.3	6,037.3	59.96	101.696	
7,350.0	7,097.1	7,068.6	7,068.6	16.2	141.6	-1.09	-6,284.3	-11.2	6,050.0	5,999.3	50.68	119.374	
7,381.9	7,105.7	7,077.2	7,077.2	16.4	141.7	-1.28	-6,284.3	-11.2	6,019.3	5,974.6	44.74	134.535	
7,400.0	7,109.9	7,081.4	7,081.4	16.6	141.8	-1.43	-6,284.3	-11.2	6,001.7	5,960.3	41.38	145.038	
7,450.0	7,119.4	7,090.9	7,090.9	17.0	142.0	-2.08	-6,284.3	-11.2	5,952.6	5,920.2	32.43	183.556	
7,480.3	7,123.4	7,094.9	7,094.9	17.2	142.1	-2.86	-6,284.3	-11.2	5,922.6	5,894.8	27.78	213.189	
7,500.0	7,125.4	7,096.9	7,096.9	17.4	142.1	-3.79	-6,284.3	-11.2	5,903.0	5,877.1	25.87	228.158	
7,550.0	7,127.9	7,099.4	7,099.4	17.9	142.2	-19.96	-6,284.3	-11.2	5,853.0	5,793.7	59.35	98.627	
7,562.9	7,128.0	7,099.5	7,099.5	18.0	142.2	-111.65	-6,284.3	-11.2	5,840.2	5,690.9	149.23	39.136	
7,578.7	7,128.0	7,099.5	7,099.5	18.2	142.2	-111.60	-6,284.3	-11.2	5,824.3	5,674.9	149.43	38.976	
7,600.0	7,127.9	7,099.4	7,099.4	18.4	142.2	-111.53	-6,284.3	-11.2	5,803.0	5,653.3	149.71	38.762	
7,677.1	7,127.7	7,099.2	7,099.2	19.2	142.2	-111.27	-6,284.3	-11.2	5,725.9	5,575.1	150.77	37.977	
7,700.0	7,127.7	7,099.2	7,099.2	19.5	142.2	-111.19	-6,284.3	-11.2	5,703.0	5,552.0	151.09	37.746	
7,775.6	7,127.5	7,099.0	7,099.0	20.3	142.2	-110.93	-6,284.3	-11.2	5,627.5	5,475.4	152.09	37.000	
7,800.0	7,127.5	7,099.0	7,099.0	20.5	142.2	-110.84	-6,284.3	-11.2	5,603.0	5,450.6	152.42	36.760	
7,874.0	7,127.3	7,098.8	7,098.8	21.4	142.2	-110.59	-6,284.3	-11.2	5,529.1	5,375.6	153.48	36.025	
7,900.0	7,127.2	7,098.7	7,098.7	21.7	142.2	-110.50	-6,284.3	-11.2	5,503.1	5,349.2	153.85	35.769	
7,972.4	7,127.1	7,098.6	7,098.6	22.7	142.2	-110.25	-6,284.3	-11.2	5,430.6	5,275.6	155.05	35.026	
8,000.0	7,127.0	7,098.5	7,098.5	23.1	142.2	-110.16	-6,284.3	-11.2	5,403.1	5,247.5	155.50	34.745	
8,070.8	7,126.8	7,098.3	7,098.3	24.2	142.1	-109.91	-6,284.3	-11.2	5,332.2	5,175.5	156.72	34.024	
8,100.0	7,126.8	7,098.3	7,098.3	24.6	142.1	-109.81	-6,284.3	-11.2	5,303.1	5,145.8	157.22	33.729	
8,169.3	7,126.6	7,098.1	7,098.1	25.6	142.1	-109.57	-6,284.3	-11.2	5,233.8	5,075.3	158.45	33.031	
8,200.0	7,126.6	7,098.1	7,098.1	26.1	142.1	-109.46	-6,284.3	-11.2	5,203.1	5,044.1	159.00	32.724	
8,267.7	7,126.4	7,097.9	7,097.9	27.2	142.1	-109.23	-6,284.3	-11.2	5,135.4	4,975.1	160.23	32.049	
8,300.0	7,126.3	7,097.8	7,097.8	27.7	142.1	-109.11	-6,284.3	-11.2	5,103.1	4,942.2	160.82	31.731	
8,366.1	7,126.2	7,097.7	7,097.7	28.8	142.1	-108.88	-6,284.3	-11.2	5,036.9	4,874.9	162.06	31.082	
8,400.0	7,126.1	7,097.6	7,097.6	29.3	142.1	-108.76	-6,284.3	-11.2	5,003.1	4,840.4	162.69	30.752	
8,464.5	7,126.0	7,097.5	7,097.5	30.4	142.1	-108.54	-6,284.3	-11.2	4,938.5	4,774.6	163.91	30.129	
8,500.0	7,125.9	7,097.4	7,097.4	31.0	142.1	-108.41	-6,284.3	-11.2	4,903.1	4,738.5	164.59	29.790	
8,563.0	7,125.7	7,097.2	7,097.2	32.0	142.1	-108.19	-6,284.3	-11.2	4,840.1	4,674.3	165.80	29.193	
8,600.0	7,125.6	7,097.1	7,097.1	32.6	142.1	-108.06	-6,284.3	-11.2	4,803.1	4,636.6	166.51	28.845	
8,661.4	7,125.5	7,097.0	7,097.0	33.7	142.1	-107.84	-6,284.3	-11.2	4,741.7	4,574.0	167.71	28.273	
8,700.0	7,125.4	7,096.9	7,096.9	34.4	142.1	-107.70	-6,284.3	-11.2	4,703.1	4,534.6	168.46	27.917	
8,759.8	7,125.3	7,096.8	7,096.8	35.4	142.1	-107.49	-6,284.3	-11.2	4,643.2	4,473.6	169.64	27.371	
8,800.0	7,125.2	7,096.7	7,096.7	36.1	142.1	-107.35	-6,284.3	-11.2	4,603.1	4,432.6	170.44	27.008	
8,858.2	7,125.1	7,096.6	7,096.6	37.1	142.1	-107.14	-6,284.3	-11.2	4,544.8	4,373.2	171.59	26.486	
8,900.0	7,125.0	7,096.5	7,096.5	37.8	142.1	-106.99	-6,284.3	-11.2	4,503.1	4,330.6	172.43	26.116	
8,956.7	7,124.8	7,096.3	7,096.3	38.8	142.1	-106.79	-6,284.3	-11.2	4,446.4	4,272.8	173.56	25.618	
9,000.0	7,124.7	7,096.2	7,096.2	39.6	142.1	-106.63	-6,284.3	-11.2	4,403.1	4,228.6	174.43	25.242	
9,055.1	7,124.6	7,096.1	7,096.1	40.6	142.1	-106.43	-6,284.3	-11.2	4,348.0	4,172.4	175.55	24.768	
9,100.0	7,124.5	7,096.0	7,096.0	41.4	142.1	-106.27	-6,284.3	-11.2	4,303.1	4,126.6	176.45	24.387	
9,153.5	7,124.4	7,095.9	7,095.9	42.3	142.1	-106.08	-6,284.3	-11.2	4,249.6	4,072.0	177.54	23.936	
9,200.0	7,124.3	7,095.8	7,095.8	43.2	142.1	-105.91	-6,284.3	-11.2	4,203.1	4,024.6	178.48	23.549	
9,251.9	7,124.2	7,095.7	7,095.7	44.1	142.1	-105.72	-6,284.3	-11.2	4,151.1	3,971.6	179.54	23.120	
9,300.0	7,124.1	7,095.6	7,095.6	45.0	142.1	-105.55	-6,284.3	-11.2	4,103.1	3,922.6	180.53	22.728	
9,350.4	7,123.9	7,095.4	7,095.4	45.9	142.1	-105.37	-6,284.3	-11.2	4,052.7	3,871.2	181.56	22.322	
9,400.0	7,123.8	7,095.3	7,095.3	46.8	142.1	-105.18	-6,284.3	-11.2	4,003.1	3,820.5	182.58	21.926	
9,448.8	7,123.7	7,095.2	7,095.2	47.7	142.1	-105.01	-6,284.3	-11.2	3,954.3	3,770.7	183.58	21.540	
9,500.0	7,123.6	7,095.1	7,095.1	48.6	142.1	-104.82	-6,284.3	-11.2	3,903.1	3,718.5	184.63	21.140	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												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
9,547.2	7,123.5	7,095.0	7,095.0	49.4	142.1	-104.65	-6,284.3	-11.2	3,855.9	3,670.3	185.61	20.774	
9,600.0	7,123.4	7,094.9	7,094.9	50.4	142.1	-104.45	-6,284.3	-11.2	3,803.1	3,616.4	186.70	20.370	
9,645.6	7,123.3	7,094.8	7,094.8	51.2	142.1	-104.29	-6,284.3	-11.2	3,757.5	3,569.8	187.64	20.025	
9,700.0	7,123.2	7,094.7	7,094.7	52.2	142.1	-104.09	-6,284.3	-11.2	3,703.1	3,514.3	188.77	19.617	
9,744.1	7,123.1	7,094.6	7,094.6	53.1	142.1	-103.93	-6,284.3	-11.2	3,659.0	3,469.4	189.68	19.290	
9,800.0	7,122.9	7,094.4	7,094.4	54.1	142.1	-103.72	-6,284.3	-11.2	3,603.1	3,412.3	190.84	18.880	
9,842.5	7,122.8	7,094.3	7,094.3	54.9	142.1	-103.56	-6,284.3	-11.2	3,560.6	3,368.9	191.72	18.572	
9,900.0	7,122.7	7,094.2	7,094.2	55.9	142.1	-103.35	-6,284.3	-11.2	3,503.1	3,310.2	192.92	18.159	
9,940.9	7,122.6	7,094.1	7,094.1	56.7	142.1	-103.20	-6,284.3	-11.2	3,462.2	3,268.4	193.77	17.868	
10,000.0	7,122.5	7,094.0	7,094.0	57.8	142.1	-102.98	-6,284.3	-11.2	3,403.1	3,208.1	195.00	17.452	
10,039.3	7,122.4	7,093.9	7,093.9	58.5	142.1	-102.83	-6,284.3	-11.2	3,363.8	3,168.0	195.82	17.178	
10,100.0	7,122.3	7,093.8	7,093.8	59.6	142.1	-102.61	-6,284.3	-11.2	3,303.1	3,106.0	197.08	16.760	
10,137.8	7,122.2	7,093.7	7,093.7	60.3	142.1	-102.47	-6,284.3	-11.2	3,265.4	3,067.5	197.87	16.503	
10,200.0	7,122.0	7,093.5	7,093.5	61.5	142.1	-102.24	-6,284.3	-11.2	3,203.1	3,004.0	199.16	16.083	
10,236.2	7,121.9	7,093.4	7,093.4	62.2	142.1	-102.10	-6,284.3	-11.2	3,166.9	2,967.0	199.92	15.841	
10,300.0	7,121.8	7,093.3	7,093.3	63.3	142.0	-101.86	-6,284.3	-11.2	3,103.1	2,901.9	201.25	15.420	
10,334.6	7,121.7	7,093.2	7,093.2	64.0	142.0	-101.74	-6,284.3	-11.2	3,068.5	2,866.5	201.97	15.193	
10,400.0	7,121.6	7,093.1	7,093.1	65.2	142.0	-101.49	-6,284.3	-11.2	3,003.1	2,799.8	203.33	14.770	
10,433.0	7,121.5	7,093.0	7,093.0	65.8	142.0	-101.37	-6,284.3	-11.2	2,970.1	2,766.1	204.02	14.558	
10,500.0	7,121.4	7,092.9	7,092.9	67.1	142.0	-101.12	-6,284.3	-11.2	2,903.1	2,697.7	205.42	14.133	
10,531.5	7,121.3	7,092.8	7,092.8	67.7	142.0	-101.00	-6,284.3	-11.2	2,871.7	2,665.6	206.07	13.935	
10,600.0	7,121.1	7,092.6	7,092.6	69.0	142.0	-100.74	-6,284.3	-11.2	2,803.2	2,595.7	207.50	13.509	
10,629.9	7,121.1	7,092.6	7,092.6	69.5	142.0	-100.63	-6,284.3	-11.2	2,773.3	2,565.1	208.12	13.325	
10,700.0	7,120.9	7,092.4	7,092.4	70.8	142.0	-100.36	-6,284.3	-11.2	2,703.2	2,493.6	209.58	12.898	
10,728.3	7,120.8	7,092.3	7,092.3	71.4	142.0	-100.26	-6,284.3	-11.2	2,674.8	2,464.7	210.17	12.727	
10,800.0	7,120.7	7,092.2	7,092.2	72.7	142.0	-99.99	-6,284.3	-11.2	2,603.2	2,391.5	211.66	12.299	
10,826.7	7,120.6	7,092.1	7,092.1	73.2	142.0	-99.89	-6,284.3	-11.2	2,576.4	2,364.2	212.22	12.141	
10,900.0	7,120.5	7,092.0	7,092.0	74.6	142.0	-99.61	-6,284.3	-11.2	2,503.2	2,289.4	213.74	11.711	
10,925.2	7,120.4	7,091.9	7,091.9	75.1	142.0	-99.51	-6,284.3	-11.2	2,478.0	2,263.7	214.26	11.565	
11,000.0	7,120.2	7,091.7	7,091.7	76.5	142.0	-99.23	-6,284.3	-11.2	2,403.2	2,187.4	215.81	11.136	
11,023.6	7,120.2	7,091.7	7,091.7	76.9	142.0	-99.14	-6,284.3	-11.2	2,379.6	2,163.3	216.30	11.001	
11,100.0	7,120.0	7,091.5	7,091.5	78.3	142.0	-98.85	-6,284.3	-11.2	2,303.2	2,085.3	217.88	10.571	
11,122.0	7,120.0	7,091.5	7,091.5	78.8	142.0	-98.77	-6,284.3	-11.2	2,281.2	2,062.8	218.34	10.448	
11,200.0	7,119.8	7,091.3	7,091.3	80.2	142.0	-98.47	-6,284.3	-11.2	2,203.2	1,983.3	219.95	10.017	
11,220.4	7,119.7	7,091.2	7,091.2	80.6	142.0	-98.39	-6,284.3	-11.2	2,182.8	1,962.4	220.37	9.905	
11,300.0	7,119.5	7,091.0	7,091.0	82.1	142.0	-98.09	-6,284.3	-11.2	2,103.2	1,881.2	222.02	9.473	
11,318.9	7,119.5	7,091.0	7,091.0	82.5	142.0	-98.02	-6,284.3	-11.2	2,084.4	1,861.9	222.41	9.372	
11,400.0	7,119.3	7,090.8	7,090.8	84.0	142.0	-97.71	-6,284.3	-11.2	2,003.2	1,779.2	224.08	8.940	
11,417.3	7,119.3	7,090.8	7,090.8	84.3	142.0	-97.64	-6,284.3	-11.2	1,985.9	1,761.5	224.43	8.849	
11,500.0	7,119.1	7,090.6	7,090.6	85.9	142.0	-97.33	-6,284.3	-11.2	1,903.3	1,677.1	226.13	8.417	
11,515.7	7,119.1	7,090.6	7,090.6	86.2	142.0	-97.27	-6,284.3	-11.2	1,887.5	1,661.1	226.45	8.335	
11,600.0	7,118.9	7,090.4	7,090.4	87.8	142.0	-96.94	-6,284.3	-11.2	1,803.3	1,575.1	228.18	7.903	
11,614.1	7,118.8	7,090.3	7,090.3	88.0	142.0	-96.89	-6,284.3	-11.2	1,789.1	1,560.6	228.47	7.831	
11,700.0	7,118.6	7,090.1	7,090.1	89.7	142.0	-96.56	-6,284.3	-11.2	1,703.3	1,473.1	230.23	7.398	
11,712.6	7,118.6	7,090.1	7,090.1	89.9	142.0	-96.51	-6,284.3	-11.2	1,690.7	1,460.2	230.48	7.336	
11,800.0	7,118.4	7,089.9	7,089.9	91.6	142.0	-96.18	-6,284.3	-11.2	1,603.3	1,371.0	232.27	6.903	
11,811.0	7,118.4	7,089.9	7,089.9	91.8	142.0	-96.14	-6,284.3	-11.2	1,592.3	1,359.8	232.49	6.849	
11,900.0	7,118.2	7,089.7	7,089.7	93.4	142.0	-95.79	-6,284.3	-11.2	1,503.3	1,269.0	234.30	6.416	
11,909.4	7,118.2	7,089.7	7,089.7	93.6	142.0	-95.76	-6,284.3	-11.2	1,493.9	1,259.4	234.49	6.371	
12,000.0	7,118.0	7,089.5	7,089.5	95.3	142.0	-95.41	-6,284.3	-11.2	1,403.4	1,167.0	236.33	5.938	
12,007.8	7,118.0	7,089.5	7,089.5	95.5	142.0	-95.38	-6,284.3	-11.2	1,395.5	1,159.0	236.48	5.901	
12,100.0	7,117.8	7,089.3	7,089.3	97.2	142.0	-95.02	-6,284.3	-11.2	1,303.4	1,065.0	238.35	5.468	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> NE SW SEC. 7 T4N R64W 6th P.M. - EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	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
12,106.3	7,117.7	7,089.2	7,089.2	97.4	142.0	-95.00	-6,284.3	-11.2	1,297.1	1,058.6	238.47	5.439	
12,200.0	7,117.5	7,089.0	7,089.0	99.1	142.0	-94.64	-6,284.3	-11.2	1,203.4	963.1	240.36	5.007	
12,204.7	7,117.5	7,089.0	7,089.0	99.2	142.0	-94.62	-6,284.3	-11.2	1,198.7	958.3	240.45	4.985	
12,300.0	7,117.3	7,088.8	7,088.8	101.0	142.0	-94.26	-6,284.3	-11.2	1,103.5	861.1	242.36	4.553	
12,303.1	7,117.3	7,088.8	7,088.8	101.1	142.0	-94.24	-6,284.3	-11.2	1,100.3	857.9	242.43	4.539	
12,400.0	7,117.1	7,088.6	7,088.6	102.9	142.0	-93.87	-6,284.3	-11.2	1,003.5	759.2	244.36	4.107	
12,401.5	7,117.1	7,088.6	7,088.6	103.0	142.0	-93.86	-6,284.3	-11.2	1,002.0	757.6	244.39	4.100	
12,500.0	7,116.9	7,088.4	7,088.4	104.8	141.9	-93.48	-6,284.3	-11.2	903.6	657.2	246.35	3.668	
12,598.4	7,116.6	7,088.1	7,088.1	106.7	141.9	-93.11	-6,284.3	-11.2	805.3	557.0	248.30	3.243	
12,600.0	7,116.6	7,088.1	7,088.1	106.7	141.9	-93.10	-6,284.3	-11.2	803.7	555.3	248.33	3.236	
12,696.8	7,116.4	7,087.9	7,087.9	108.6	141.9	-92.73	-6,284.3	-11.2	706.9	456.7	250.24	2.825	
12,700.0	7,116.4	7,087.9	7,087.9	108.6	141.9	-92.71	-6,284.3	-11.2	703.8	453.4	250.30	2.812	
12,795.2	7,116.2	7,087.7	7,087.7	110.4	141.9	-92.35	-6,284.3	-11.2	608.6	356.4	252.18	2.413	
12,800.0	7,116.2	7,087.7	7,087.7	110.5	141.9	-92.33	-6,284.3	-11.2	603.9	351.6	252.27	2.394	
12,893.7	7,116.0	7,087.5	7,087.5	112.3	141.9	-91.97	-6,284.3	-11.2	510.4	256.3	254.10	2.009	
12,900.0	7,116.0	7,087.5	7,087.5	112.4	141.9	-91.94	-6,284.3	-11.2	504.1	249.8	254.22	1.983	
12,992.1	7,115.7	7,087.2	7,087.2	114.2	141.9	-91.59	-6,284.3	-11.2	412.2	156.2	256.02	1.610	
13,000.0	7,115.7	7,087.2	7,087.2	114.3	141.9	-91.55	-6,284.3	-11.2	404.3	148.2	256.17	1.578	
13,090.5	7,115.5	7,087.0	7,087.0	116.1	141.9	-91.21	-6,284.3	-11.2	314.2	56.3	257.92	1.218 Level 2	
13,100.0	7,115.5	7,087.0	7,087.0	116.2	141.9	-91.17	-6,284.3	-11.2	304.8	46.7	258.11	1.181 Level 2	
13,188.9	7,115.3	7,086.8	7,086.8	117.9	141.9	-90.83	-6,284.3	-11.2	216.6	-43.2	259.82	0.834 Level 1	
13,200.0	7,115.3	7,086.8	7,086.8	118.1	141.9	-90.78	-6,284.3	-11.2	205.7	-54.4	260.03	0.791 Level 1	
13,287.4	7,115.1	7,086.6	7,086.6	119.8	141.9	-90.45	-6,284.3	-11.2	120.3	-141.4	261.71	0.460 Level 1	
13,300.0	7,115.1	7,086.6	7,086.6	120.0	141.9	-90.40	-6,284.3	-11.2	108.2	-153.7	261.95	0.413 Level 1	
13,385.8	7,114.9	7,086.4	7,086.4	121.7	141.9	-90.07	-6,284.3	-11.2	37.5	-226.1	263.58	0.142 Level 1	
13,400.0	7,114.8	7,086.3	7,086.3	121.9	141.9	-90.01	-6,284.3	-11.2	33.4	-230.4	263.85	0.127 Level 1	
13,403.0	7,114.8	7,086.3	7,086.3	122.0	141.9	-90.00	-6,284.3	-11.2	33.3	-230.6	263.91	0.126 Level 1, CC, ES, SF	
13,484.2	7,114.6	7,086.1	7,086.1	123.6	141.9	-89.69	-6,284.3	-11.2	87.8	-177.6	265.45	0.331 Level 1	
13,500.0	7,114.6	7,086.1	7,086.1	123.9	141.9	-89.63	-6,284.3	-11.2	102.6	-163.2	265.75	0.386 Level 1	
13,582.6	7,114.4	7,085.9	7,085.9	125.4	141.9	-89.31	-6,284.3	-11.2	182.7	-84.6	267.31	0.684 Level 1	
13,600.0	7,114.4	7,085.9	7,085.9	125.8	141.9	-89.24	-6,284.3	-11.2	199.8	-67.8	267.63	0.747 Level 1	
13,681.1	7,114.2	7,085.7	7,085.7	127.3	141.9	-88.93	-6,284.3	-11.2	280.1	10.9	269.15	1.041 Level 2	
13,700.0	7,114.2	7,085.7	7,085.7	127.7	141.9	-88.86	-6,284.3	-11.2	298.9	29.4	269.51	1.109 Level 2	
13,779.5	7,114.0	7,085.5	7,085.5	129.2	141.9	-88.55	-6,284.3	-11.2	378.0	107.0	270.99	1.395 Level 3	
13,800.0	7,113.9	7,085.4	7,085.4	129.6	141.9	-88.47	-6,284.3	-11.2	398.4	127.1	271.37	1.468 Level 3	
13,877.9	7,113.8	7,085.3	7,085.3	131.1	141.9	-88.17	-6,284.3	-11.2	476.1	203.3	272.81	1.745	
13,900.0	7,113.7	7,085.2	7,085.2	131.5	141.9	-88.09	-6,284.3	-11.2	498.1	224.9	273.22	1.823	
13,976.3	7,113.5	7,085.0	7,085.0	132.9	141.9	-87.79	-6,284.3	-11.2	574.3	299.7	274.62	2.091	
14,000.0	7,113.5	7,085.0	7,085.0	133.4	141.9	-87.70	-6,284.3	-11.2	598.0	322.9	275.06	2.174	
14,074.8	7,113.3	7,084.8	7,084.8	134.8	141.9	-87.41	-6,284.3	-11.2	672.6	396.2	276.43	2.433	
14,100.0	7,113.3	7,084.8	7,084.8	135.3	141.9	-87.32	-6,284.3	-11.2	697.8	420.9	276.88	2.520	
14,173.2	7,113.1	7,084.6	7,084.6	136.7	141.9	-87.04	-6,284.3	-11.2	771.0	492.7	278.21	2.771	
14,200.0	7,113.0	7,084.5	7,084.5	137.2	141.9	-86.93	-6,284.3	-11.2	797.7	519.0	278.70	2.862	
14,219.1	7,113.0	7,084.5	7,084.5	137.6	141.9	-86.86	-6,284.3	-11.2	816.8	537.8	279.05	2.927	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - 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	-170.37	-4,222.3	-716.7	4,283.1					
98.4	98.4	50.0	50.0	0.1	0.1	-170.37	-4,222.3	-716.6	4,282.7	4,282.5	0.15	N/A		
100.0	100.0	52.0	52.0	0.1	0.1	-170.37	-4,222.3	-716.6	4,282.6	4,282.5	0.15	N/A		
196.8	196.8	154.3	154.3	0.3	0.1	-170.37	-4,222.0	-716.1	4,282.3	4,281.8	0.45	9,418.953		
200.0	200.0	157.3	157.3	0.3	0.1	-170.37	-4,222.0	-716.1	4,282.3	4,281.8	0.46	9,231.625		
295.3	295.3	245.8	245.8	0.5	0.2	-170.37	-4,221.7	-716.2	4,282.0	4,281.3	0.75	5,675.124		
300.0	300.0	250.1	250.1	0.5	0.2	-170.37	-4,221.7	-716.2	4,282.0	4,281.2	0.77	5,564.740		
393.7	393.7	341.2	341.2	0.8	0.3	-170.37	-4,221.6	-716.3	4,281.9	4,280.9	1.06	4,035.044		
400.0	400.0	347.9	347.9	0.8	0.3	-170.37	-4,221.6	-716.3	4,281.9	4,280.8	1.08	3,963.829		
492.1	492.1	444.2	444.2	1.0	0.4	-170.37	-4,221.4	-716.5	4,281.7	4,280.4	1.34	3,194.938		
500.0	500.0	452.4	452.3	1.0	0.4	-170.37	-4,221.3	-716.5	4,281.7	4,280.4	1.36	3,147.016		
590.5	590.5	546.6	546.6	1.2	0.4	-170.37	-4,221.1	-716.4	4,281.5	4,279.9	1.60	2,669.322		
600.0	600.0	556.5	556.5	1.2	0.4	-170.37	-4,221.1	-716.3	4,281.4	4,279.8	1.63	2,626.170		
689.0	689.0	646.1	646.1	1.4	0.5	-170.37	-4,220.8	-716.3	4,281.1	4,279.3	1.88	2,279.540		
700.0	700.0	656.9	656.9	1.4	0.5	-170.37	-4,220.7	-716.3	4,281.1	4,279.2	1.91	2,242.887		
787.4	787.4	737.6	737.6	1.6	0.5	-170.37	-4,220.5	-716.3	4,280.8	4,278.7	2.14	2,001.075		
800.0	800.0	748.6	748.6	1.7	0.5	-170.37	-4,220.5	-716.2	4,280.8	4,278.7	2.17	1,972.314		
848.1	848.1	790.6	790.6	1.8	0.5	-170.37	-4,220.5	-716.2	4,280.8	4,278.5	2.29	1,869.323		
885.8	885.8	825.8	825.8	1.9	0.5	-170.37	-4,220.5	-716.1	4,280.8	4,278.4	2.38	1,800.511		
900.0	900.0	839.4	839.4	1.9	0.5	-170.37	-4,220.5	-716.1	4,280.8	4,278.4	2.41	1,776.665		
984.2	984.2	920.9	920.9	2.1	0.5	-170.37	-4,220.6	-716.3	4,280.9	4,278.3	2.60	1,645.690		
1,000.0	1,000.0	936.6	936.6	2.1	0.5	-170.37	-4,220.6	-716.3	4,280.9	4,278.3	2.64	1,622.571		
1,082.7	1,082.7	1,018.9	1,018.9	2.3	0.5	-170.37	-4,220.7	-716.3	4,281.1	4,278.2	2.83	1,510.881		
1,100.0	1,100.0	1,036.0	1,036.0	2.3	0.5	-170.37	-4,220.7	-716.4	4,281.1	4,278.2	2.87	1,489.262		
1,181.1	1,181.1	1,119.6	1,119.6	2.5	0.5	-170.37	-4,220.8	-716.5	4,281.2	4,278.1	3.07	1,396.459		
1,200.0	1,200.0	1,142.1	1,142.1	2.6	0.5	-170.36	-4,220.8	-716.6	4,281.2	4,278.1	3.11	1,376.966		
1,279.5	1,279.5	1,222.1	1,222.1	2.7	0.5	-170.36	-4,220.7	-716.5	4,281.1	4,277.8	3.29	1,300.401		
1,279.7	1,279.7	1,222.2	1,222.2	2.7	0.5	-170.36	-4,220.7	-716.5	4,281.1	4,277.8	3.29	1,300.217		
1,300.0	1,300.0	1,236.7	1,236.7	2.8	0.5	-170.37	-4,220.8	-716.5	4,281.1	4,277.8	3.34	1,282.025		
1,377.9	1,377.9	1,300.0	1,300.0	3.0	0.6	-166.08	-4,221.0	-716.4	4,282.5	4,279.0	3.52	1,215.501		
1,400.0	1,400.0	1,311.0	1,311.0	3.0	0.6	-166.08	-4,221.1	-716.4	4,283.3	4,279.7	3.58	1,197.030		
1,476.4	1,476.3	1,383.9	1,383.9	3.2	0.6	-166.07	-4,221.7	-716.3	4,287.5	4,283.7	3.79	1,132.685		
1,500.0	1,499.8	1,406.9	1,406.9	3.2	0.6	-166.07	-4,221.9	-716.3	4,289.2	4,285.3	3.85	1,114.206		
1,574.8	1,574.4	1,483.9	1,483.9	3.4	0.6	-166.06	-4,222.5	-716.5	4,295.8	4,291.7	4.05	1,059.782		
1,600.0	1,599.5	1,509.1	1,509.1	3.5	0.6	-166.05	-4,222.7	-716.6	4,298.4	4,294.3	4.12	1,042.708		
1,673.2	1,672.2	1,578.3	1,578.2	3.6	0.6	-166.03	-4,223.2	-716.8	4,307.3	4,303.0	4.33	995.865		
1,700.0	1,698.7	1,603.6	1,603.6	3.7	0.6	-166.02	-4,223.4	-716.9	4,311.1	4,306.7	4.40	979.905		
1,771.6	1,769.5	1,673.5	1,673.5	3.9	0.7	-166.00	-4,224.0	-717.1	4,322.2	4,317.6	4.60	939.025		
1,800.0	1,797.5	1,701.2	1,701.2	4.0	0.7	-165.99	-4,224.2	-717.2	4,327.1	4,322.4	4.68	923.960		
1,870.1	1,866.3	1,776.4	1,776.4	4.2	0.7	-165.97	-4,224.8	-717.7	4,340.3	4,335.4	4.89	888.105		
1,900.1	1,895.8	1,807.4	1,807.4	4.3	0.7	-165.96	-4,225.0	-718.0	4,346.5	4,341.5	4.97	873.808		
1,968.5	1,962.6	1,870.7	1,870.7	4.5	0.7	-165.99	-4,225.4	-718.5	4,360.8	4,355.6	5.16	845.398		
2,000.0	1,993.4	1,900.0	1,900.0	4.6	0.7	-166.01	-4,225.6	-718.7	4,367.4	4,362.1	5.24	833.015		
2,066.9	2,058.9	1,987.7	1,987.7	4.8	0.8	-166.06	-4,225.9	-719.6	4,381.3	4,375.9	5.43	806.679		
2,100.0	2,091.3	2,033.0	2,032.9	4.9	0.8	-166.08	-4,225.9	-720.1	4,388.0	4,382.5	5.52	795.242		
2,165.3	2,155.2	2,116.5	2,116.4	5.1	0.8	-166.12	-4,225.5	-721.3	4,401.1	4,395.4	5.70	772.512		
2,200.0	2,189.1	2,149.9	2,149.8	5.3	0.8	-166.13	-4,225.3	-721.8	4,407.9	4,402.1	5.79	760.785		
2,263.8	2,251.4	2,211.1	2,211.0	5.5	0.8	-166.16	-4,224.9	-722.6	4,420.6	4,414.6	5.97	740.497		
2,300.0	2,286.9	2,245.6	2,245.5	5.6	0.8	-166.18	-4,224.7	-723.0	4,427.8	4,421.7	6.07	729.293		
2,362.2	2,347.7	2,300.0	2,299.9	5.9	0.9	-166.20	-4,224.4	-723.8	4,440.1	4,433.9	6.25	710.962		
2,400.0	2,384.7	2,335.5	2,335.4	6.0	0.9	-166.22	-4,224.2	-724.5	4,447.7	4,441.3	6.35	700.133		
2,460.6	2,444.0	2,385.8	2,385.7	6.3	0.9	-166.24	-4,224.0	-725.7	4,459.9	4,453.4	6.52	683.622		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - 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									
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
2,500.0	2,482.5	2,418.7	2,418.6	6.4	0.9	-166.25	-4,223.8	-726.5	4,467.9	4,461.2	6.64	673.283	
2,559.0	2,540.3	2,468.4	2,468.3	6.6	0.9	-166.26	-4,223.7	-727.8	4,480.0	4,473.2	6.81	658.321	
2,600.0	2,580.3	2,503.5	2,503.4	6.8	0.9	-166.27	-4,223.7	-728.8	4,488.4	4,481.5	6.92	648.377	
2,617.6	2,597.5	2,521.4	2,521.3	6.9	0.9	-166.28	-4,223.7	-729.3	4,492.0	4,485.1	6.97	644.147	
2,657.5	2,636.6	2,562.1	2,561.9	7.0	1.0	-166.32	-4,223.7	-730.5	4,500.0	4,492.9	7.07	636.714	
2,700.0	2,678.4	2,605.1	2,604.9	7.2	1.0	-166.37	-4,223.6	-731.8	4,507.9	4,500.7	7.17	628.954	
2,755.9	2,733.5	2,657.8	2,657.6	7.3	1.0	-166.42	-4,223.6	-733.5	4,517.3	4,510.1	7.28	620.650	
2,800.0	2,777.0	2,700.0	2,699.8	7.4	1.0	-166.46	-4,223.5	-734.8	4,524.1	4,516.7	7.37	614.188	
2,854.3	2,830.9	2,756.9	2,756.7	7.6	1.0	-166.49	-4,223.5	-736.5	4,531.5	4,524.0	7.47	606.423	
2,900.0	2,876.2	2,805.0	2,804.7	7.7	1.0	-166.52	-4,223.5	-737.8	4,536.9	4,529.3	7.56	599.973	
2,952.7	2,928.7	2,856.8	2,856.5	7.8	1.0	-166.54	-4,223.4	-739.1	4,542.3	4,534.6	7.66	592.880	
3,000.0	2,975.8	2,904.2	2,903.9	7.9	1.1	-166.56	-4,223.4	-740.3	4,546.3	4,538.6	7.75	586.566	
3,051.2	3,026.8	2,969.6	2,969.3	8.0	1.1	-166.57	-4,223.2	-742.0	4,549.7	4,541.9	7.85	579.775	
3,100.0	3,075.6	3,024.2	3,023.9	8.1	1.1	-166.57	-4,222.9	-743.4	4,552.0	4,544.1	7.94	573.439	
3,149.6	3,125.2	3,072.1	3,071.7	8.2	1.1	-166.56	-4,222.7	-744.5	4,553.5	4,545.5	8.03	567.328	
3,200.0	3,175.6	3,130.9	3,130.5	8.3	1.1	-166.55	-4,222.4	-745.7	4,554.2	4,546.1	8.12	561.003	
3,217.7	3,193.3	3,156.4	3,156.1	8.3	1.1	-170.83	-4,222.3	-746.2	4,554.2	4,546.1	8.15	558.922	
3,248.0	3,223.6	3,200.0	3,199.6	8.4	1.2	-170.82	-4,221.9	-747.1	4,554.0	4,545.8	8.22	554.321	
3,300.0	3,275.6	3,249.5	3,249.1	8.5	1.2	-170.80	-4,221.3	-748.2	4,553.7	4,545.3	8.33	546.925	
3,346.4	3,322.0	3,293.7	3,293.3	8.6	1.2	-170.79	-4,220.9	-749.2	4,553.3	4,544.9	8.43	539.916	
3,400.0	3,375.6	3,344.7	3,344.3	8.7	1.2	-170.78	-4,220.4	-750.4	4,553.0	4,544.5	8.56	532.062	
3,444.9	3,420.4	3,387.4	3,387.0	8.7	1.2	-170.76	-4,220.0	-751.4	4,552.8	4,544.1	8.66	525.639	
3,500.0	3,475.6	3,441.2	3,440.8	8.8	1.2	-170.74	-4,219.5	-752.7	4,552.5	4,543.7	8.79	517.947	
3,543.3	3,518.9	3,483.8	3,483.4	8.9	1.3	-170.73	-4,219.1	-753.8	4,552.3	4,543.4	8.89	512.044	
3,600.0	3,575.6	3,539.2	3,538.8	9.0	1.3	-170.71	-4,218.6	-755.1	4,552.0	4,543.0	9.02	504.525	
3,641.7	3,617.3	3,579.9	3,579.4	9.1	1.3	-170.70	-4,218.3	-756.1	4,551.8	4,542.7	9.12	499.121	
3,700.0	3,675.6	3,639.6	3,639.1	9.2	1.3	-170.68	-4,217.7	-757.6	4,551.6	4,542.3	9.26	491.739	
3,740.1	3,715.7	3,681.8	3,681.3	9.3	1.3	-170.67	-4,217.4	-758.7	4,551.4	4,542.0	9.35	486.756	
3,800.0	3,775.6	3,736.5	3,736.0	9.4	1.3	-170.65	-4,216.9	-760.1	4,551.1	4,541.6	9.49	479.601	
3,838.6	3,814.1	3,769.7	3,769.1	9.5	1.3	-170.64	-4,216.7	-760.7	4,551.0	4,541.4	9.58	475.120	
3,900.0	3,875.6	3,825.1	3,824.5	9.6	1.4	-170.63	-4,216.4	-761.3	4,550.9	4,541.1	9.72	468.145	
3,937.0	3,912.6	3,860.6	3,860.0	9.7	1.4	-170.63	-4,216.3	-761.7	4,550.8	4,541.0	9.81	464.019	
3,994.1	3,969.6	3,912.2	3,911.6	9.8	1.4	-170.62	-4,216.2	-762.3	4,550.8	4,540.8	9.94	457.834	
4,000.0	3,975.6	3,916.7	3,916.1	9.8	1.4	-170.62	-4,216.2	-762.3	4,550.8	4,540.8	9.95	457.209	
4,035.4	4,011.0	3,943.7	3,943.1	9.9	1.4	-170.61	-4,216.2	-762.6	4,550.8	4,540.8	10.03	453.513	
4,100.0	4,075.6	4,000.0	3,999.4	10.0	1.4	-170.61	-4,216.3	-763.4	4,551.1	4,540.9	10.18	446.890	
4,133.8	4,109.4	4,037.3	4,036.7	10.0	1.4	-170.60	-4,216.4	-763.9	4,551.2	4,541.0	10.26	443.443	
4,200.0	4,175.6	4,122.0	4,121.4	10.2	1.5	-170.59	-4,216.3	-764.8	4,551.3	4,540.8	10.42	436.747	
4,226.4	4,201.9	4,145.0	4,144.4	10.2	1.5	-170.58	-4,216.2	-765.0	4,551.2	4,540.8	10.48	434.207	
4,232.3	4,207.8	4,150.2	4,149.6	10.2	1.5	-170.58	-4,216.2	-765.1	4,551.2	4,540.7	10.50	433.640	
4,300.0	4,275.6	4,210.9	4,210.3	10.4	1.5	-170.58	-4,216.2	-765.4	4,551.3	4,540.7	10.65	427.256	
4,330.7	4,306.3	4,242.3	4,241.7	10.4	1.5	-170.58	-4,216.3	-765.5	4,551.4	4,540.6	10.72	424.380	
4,400.0	4,375.6	4,314.3	4,313.7	10.6	1.5	-170.58	-4,216.3	-765.7	4,551.5	4,540.6	10.89	418.031	
4,429.1	4,404.7	4,346.9	4,346.3	10.6	1.5	-170.57	-4,216.3	-765.9	4,551.5	4,540.5	10.96	415.420	
4,500.0	4,475.6	4,422.2	4,421.6	10.8	1.6	-170.57	-4,216.2	-766.2	4,551.4	4,540.3	11.12	409.210	
4,527.5	4,503.1	4,448.3	4,447.7	10.8	1.6	-170.57	-4,216.2	-766.3	4,551.4	4,540.2	11.19	406.858	
4,600.0	4,575.6	4,523.7	4,523.1	11.0	1.6	-170.57	-4,216.2	-766.4	4,551.4	4,540.0	11.36	400.826	
4,626.0	4,601.5	4,558.2	4,557.6	11.0	1.6	-170.57	-4,216.1	-766.4	4,551.4	4,539.9	11.41	398.730	
4,700.0	4,675.6	4,651.2	4,650.6	11.2	1.6	-170.56	-4,215.6	-766.5	4,551.0	4,539.4	11.59	392.740	
4,724.4	4,700.0	4,680.5	4,679.9	11.2	1.6	-170.56	-4,215.3	-766.6	4,550.8	4,539.1	11.65	390.771	
4,800.0	4,775.6	4,754.7	4,754.1	11.4	1.6	-170.56	-4,214.6	-767.0	4,550.1	4,538.3	11.82	384.858	
4,822.8	4,798.4	4,775.8	4,775.2	11.4	1.6	-170.56	-4,214.4	-767.1	4,550.0	4,538.1	11.88	383.113	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,875.6	4,846.6	4,846.0	11.6	1.7	-170.55	-4,213.9	-767.5	4,549.4	4,537.4	12.06	377.346	
4,921.2	4,896.8	4,866.1	4,865.5	11.6	1.7	-170.55	-4,213.8	-767.5	4,549.3	4,537.2	12.11	375.790	
5,000.0	4,975.6	4,948.7	4,948.1	11.8	1.7	-170.55	-4,213.3	-767.5	4,548.9	4,536.6	12.29	370.088	
5,019.7	4,995.2	4,971.6	4,971.0	11.8	1.7	-170.55	-4,213.1	-767.5	4,548.7	4,536.4	12.34	368.676	
5,100.0	5,075.6	5,056.7	5,056.0	12.0	1.7	-170.55	-4,212.5	-767.1	4,548.1	4,535.5	12.53	363.016	
5,118.1	5,093.7	5,075.0	5,074.4	12.0	1.7	-170.55	-4,212.4	-767.0	4,547.9	4,535.3	12.57	361.763	
5,200.0	5,175.6	5,146.4	5,145.8	12.2	1.7	-170.55	-4,211.8	-766.8	4,547.3	4,534.5	12.76	356.255	
5,216.5	5,192.1	5,159.8	5,159.2	12.2	1.7	-170.55	-4,211.8	-766.7	4,547.2	4,534.4	12.80	355.169	
5,300.0	5,275.6	5,231.1	5,230.5	12.4	1.7	-170.56	-4,211.5	-766.5	4,546.9	4,533.9	13.00	349.825	
5,314.9	5,290.5	5,244.7	5,244.1	12.4	1.7	-170.56	-4,211.5	-766.4	4,546.8	4,533.8	13.03	348.892	
5,400.0	5,375.6	5,323.4	5,322.8	12.6	1.7	-170.57	-4,211.5	-765.4	4,546.7	4,533.5	13.23	343.667	
5,413.4	5,388.9	5,336.2	5,335.6	12.6	1.7	-170.57	-4,211.6	-765.2	4,546.7	4,533.4	13.26	342.852	
5,472.8	5,448.3	5,392.9	5,392.2	12.7	1.7	-170.58	-4,211.7	-764.3	4,546.6	4,533.2	13.40	339.282	
5,500.0	5,475.6	5,400.0	5,399.4	12.8	1.7	-170.59	-4,211.7	-764.1	4,546.7	4,533.2	13.46	337.749	
5,511.8	5,487.4	5,400.0	5,399.4	12.8	1.7	-170.59	-4,211.7	-764.1	4,546.7	4,533.3	13.49	337.103	
5,600.0	5,575.6	5,400.0	5,399.4	13.0	1.7	-170.59	-4,211.7	-764.1	4,548.2	4,534.5	13.68	332.426	
5,610.2	5,585.8	5,400.0	5,399.4	13.0	1.7	-170.59	-4,211.7	-764.1	4,548.5	4,534.8	13.70	331.901	
5,700.0	5,675.6	5,400.0	5,399.4	13.2	1.7	-170.59	-4,211.7	-764.1	4,551.9	4,538.0	13.90	327.427	
5,708.6	5,684.2	5,400.0	5,399.4	13.2	1.7	-170.59	-4,211.7	-764.1	4,552.3	4,538.4	13.92	327.009	
5,800.0	5,775.6	5,400.0	5,399.4	13.4	1.7	-170.59	-4,211.7	-764.1	4,557.8	4,543.7	14.12	322.735	
5,807.1	5,782.6	5,400.0	5,399.4	13.4	1.7	-170.59	-4,211.7	-764.1	4,558.3	4,544.2	14.14	322.414	
5,900.0	5,875.6	5,400.0	5,399.4	13.6	1.7	-170.59	-4,211.7	-764.1	4,565.9	4,551.5	14.34	318.336	
5,905.5	5,881.1	5,400.0	5,399.4	13.6	1.7	-170.59	-4,211.7	-764.1	4,566.4	4,552.0	14.36	318.102	
6,000.0	5,975.6	5,400.0	5,399.4	13.8	1.7	-170.59	-4,211.7	-764.1	4,576.1	4,561.6	14.56	314.216	
6,003.9	5,979.5	5,400.0	5,399.4	13.8	1.7	-170.59	-4,211.7	-764.1	4,576.6	4,562.0	14.57	314.060	
6,100.0	6,075.6	5,400.0	5,399.4	14.0	1.7	-170.59	-4,211.7	-764.1	4,588.5	4,573.8	14.78	310.362	
6,102.3	6,077.9	5,400.0	5,399.4	14.0	1.7	-170.59	-4,211.7	-764.1	4,588.9	4,574.1	14.79	310.275	
6,200.0	6,175.6	5,400.0	5,399.4	14.2	1.7	-170.59	-4,211.7	-764.1	4,603.1	4,588.1	15.01	306.762	
6,200.8	6,176.3	5,400.0	5,399.4	14.2	1.7	-170.59	-4,211.7	-764.1	4,603.2	4,588.2	15.01	306.735	
6,299.2	6,274.8	5,400.0	5,399.4	14.4	1.7	-170.59	-4,211.7	-764.1	4,619.6	4,604.4	15.22	303.429	
6,300.0	6,275.6	5,400.0	5,399.4	14.4	1.7	-170.59	-4,211.7	-764.1	4,619.8	4,604.5	15.23	303.403	
6,397.6	6,373.2	5,400.0	5,399.4	14.7	1.7	-170.59	-4,211.7	-764.1	4,638.1	4,622.6	15.44	300.345	
6,400.0	6,375.6	5,400.0	5,399.4	14.7	1.7	-170.59	-4,211.7	-764.1	4,638.5	4,623.1	15.45	300.273	
6,436.2	6,411.8	5,400.0	5,399.4	14.7	1.7	-170.59	-4,211.7	-764.1	4,645.8	4,630.3	15.53	299.194	
6,450.0	6,425.6	5,400.0	5,399.4	14.8	1.7	9.17	-4,211.7	-764.1	4,648.6	4,633.0	15.55	298.995	
6,496.0	6,471.5	5,400.0	5,399.4	14.8	1.7	9.07	-4,211.7	-764.1	4,656.1	4,640.5	15.61	298.241	
6,500.0	6,475.5	5,400.0	5,399.4	14.8	1.7	9.06	-4,211.7	-764.1	4,656.6	4,641.0	15.62	298.151	
6,550.0	6,525.1	5,400.0	5,399.4	14.9	1.7	9.00	-4,211.7	-764.1	4,661.8	4,646.1	15.70	296.847	
6,594.5	6,568.7	5,400.0	5,399.4	14.9	1.7	8.97	-4,211.7	-764.1	4,663.9	4,648.2	15.78	295.573	
6,600.0	6,574.1	5,400.0	5,399.4	14.9	1.7	8.97	-4,211.7	-764.1	4,664.0	4,648.3	15.79	295.416	
6,650.0	6,622.4	5,400.0	5,399.4	14.9	1.7	8.98	-4,211.7	-764.1	4,663.4	4,647.5	15.85	294.155	
6,692.9	6,663.0	5,400.0	5,399.4	14.9	1.7	9.02	-4,211.7	-764.1	4,660.5	4,644.6	15.89	293.369	
6,700.0	6,669.6	5,400.0	5,399.4	14.9	1.7	9.02	-4,211.7	-764.1	4,659.8	4,643.9	15.89	293.268	
6,750.0	6,715.6	5,400.0	5,399.4	14.9	1.7	9.11	-4,211.7	-764.1	4,653.4	4,637.5	15.89	292.875	
6,791.3	6,752.5	5,400.0	5,399.4	14.9	1.7	9.20	-4,211.7	-764.1	4,645.9	4,630.0	15.86	292.966	
6,800.0	6,760.1	5,400.0	5,399.4	14.9	1.7	9.23	-4,211.7	-764.1	4,644.0	4,628.2	15.85	293.032	
6,850.0	6,802.9	5,400.0	5,399.4	14.9	1.7	9.39	-4,211.7	-764.1	4,631.8	4,616.1	15.77	293.748	
6,889.7	6,835.6	5,400.0	5,399.4	14.9	1.7	9.55	-4,211.7	-764.1	4,620.2	4,604.5	15.68	294.699	
6,900.0	6,843.8	5,400.0	5,399.4	14.9	1.7	9.60	-4,211.7	-764.1	4,616.8	4,601.2	15.65	294.996	
6,950.0	6,882.6	5,400.0	5,399.4	14.9	1.7	9.85	-4,211.7	-764.1	4,599.1	4,583.6	15.50	296.717	
6,988.2	6,910.7	5,400.0	5,399.4	15.0	1.7	10.09	-4,211.7	-764.1	4,583.7	4,568.3	15.37	298.286	
7,000.0	6,919.1	5,400.0	5,399.4	15.0	1.7	10.17	-4,211.7	-764.1	4,578.6	4,563.3	15.32	298.815	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,050.0	6,953.1	5,400.0	5,399.4	15.0	1.7	10.54	-4,211.7	-764.1	4,555.5	4,540.3	15.13	301.148	
7,086.6	6,976.4	5,400.0	5,399.4	15.1	1.7	10.86	-4,211.7	-764.1	4,536.9	4,521.9	14.98	302.883	
7,100.0	6,984.5	5,400.0	5,399.4	15.1	1.7	10.99	-4,211.7	-764.1	4,529.8	4,514.8	14.92	303.523	
7,150.0	7,013.1	5,400.0	5,399.4	15.3	1.7	11.52	-4,211.7	-764.1	4,501.6	4,486.8	14.73	305.681	
7,185.0	7,031.4	5,400.0	5,399.4	15.4	1.7	11.96	-4,211.7	-764.1	4,480.4	4,465.8	14.60	306.871	
7,200.0	7,038.8	5,400.0	5,399.4	15.4	1.7	12.16	-4,211.7	-764.1	4,471.0	4,456.4	14.55	307.296	
7,250.0	7,061.4	5,400.0	5,399.4	15.6	1.7	12.92	-4,211.7	-764.1	4,438.1	4,423.7	14.41	307.973	
7,283.4	7,074.8	5,400.0	5,399.4	15.8	1.7	13.51	-4,211.7	-764.1	4,414.8	4,400.5	14.35	307.648	
7,300.0	7,080.9	5,400.0	5,399.4	15.9	1.7	13.83	-4,211.7	-764.1	4,403.0	4,388.6	14.33	307.275	
7,350.0	7,097.1	5,400.0	5,399.4	16.2	1.7	14.93	-4,211.7	-764.1	4,365.8	4,351.5	14.33	304.762	
7,381.9	7,105.7	5,400.0	5,399.4	16.4	1.7	15.76	-4,211.7	-764.1	4,341.1	4,326.7	14.37	301.992	
7,400.0	7,109.9	5,400.0	5,399.4	16.6	1.7	16.29	-4,211.7	-764.1	4,326.7	4,312.3	14.42	300.052	
7,450.0	7,119.4	5,400.0	5,399.4	17.0	1.7	17.96	-4,211.7	-764.1	4,285.8	4,271.2	14.63	292.881	
7,480.3	7,123.4	5,400.0	5,399.4	17.2	1.7	19.18	-4,211.7	-764.1	4,260.2	4,245.4	14.83	287.246	
7,500.0	7,125.4	5,400.0	5,399.4	17.4	1.7	20.08	-4,211.7	-764.1	4,243.3	4,228.3	14.99	283.138	
7,550.0	7,127.9	5,400.0	5,399.4	17.9	1.7	22.80	-4,211.7	-764.1	4,199.2	4,183.7	15.50	270.847	
7,562.9	7,128.0	5,400.0	5,399.4	18.0	1.7	23.62	-4,211.7	-764.1	4,187.7	4,172.0	15.67	267.285	
7,578.7	7,128.0	5,400.0	5,399.4	18.2	1.7	23.62	-4,211.7	-764.1	4,173.4	4,157.6	15.75	264.933	
7,600.0	7,127.9	5,400.0	5,399.4	18.4	1.7	23.62	-4,211.7	-764.1	4,154.2	4,138.4	15.87	261.818	
7,677.1	7,127.7	5,400.0	5,399.4	19.2	1.7	23.62	-4,211.7	-764.1	4,085.0	4,068.7	16.32	250.372	
7,700.0	7,127.7	5,400.0	5,399.4	19.5	1.7	23.62	-4,211.7	-764.1	4,064.5	4,048.1	16.45	247.104	
7,775.6	7,127.5	5,400.0	5,399.4	20.3	1.7	23.62	-4,211.7	-764.1	3,997.0	3,980.1	16.89	236.586	
7,800.0	7,127.5	5,400.0	5,399.4	20.5	1.7	23.62	-4,211.7	-764.1	3,975.3	3,958.2	17.04	233.308	
7,874.0	7,127.3	5,400.0	5,399.4	21.4	1.7	23.62	-4,211.7	-764.1	3,909.6	3,892.1	17.51	223.249	
7,900.0	7,127.2	5,400.0	5,399.4	21.7	1.7	23.62	-4,211.7	-764.1	3,886.6	3,868.9	17.68	219.846	
7,972.4	7,127.1	5,400.0	5,399.4	22.7	1.7	23.62	-4,211.7	-764.1	3,822.7	3,804.5	18.20	209.994	
8,000.0	7,127.0	5,400.0	5,399.4	23.1	1.7	23.62	-4,211.7	-764.1	3,798.4	3,780.0	18.40	206.394	
8,070.8	7,126.8	5,400.0	5,399.4	24.2	1.7	23.62	-4,211.7	-764.1	3,736.3	3,717.4	18.94	197.242	
8,100.0	7,126.8	5,400.0	5,399.4	24.6	1.7	23.62	-4,211.7	-764.1	3,710.9	3,691.7	19.16	193.629	
8,169.3	7,126.6	5,400.0	5,399.4	25.6	1.7	23.62	-4,211.7	-764.1	3,650.6	3,630.9	19.71	185.186	
8,200.0	7,126.6	5,400.0	5,399.4	26.1	1.7	23.62	-4,211.7	-764.1	3,624.0	3,604.0	19.96	181.593	
8,267.7	7,126.4	5,400.0	5,399.4	27.2	1.7	23.62	-4,211.7	-764.1	3,565.6	3,545.0	20.51	173.843	
8,300.0	7,126.3	5,400.0	5,399.4	27.7	1.7	23.62	-4,211.7	-764.1	3,537.8	3,517.0	20.77	170.295	
8,366.1	7,126.2	5,400.0	5,399.4	28.8	1.7	23.62	-4,211.7	-764.1	3,481.2	3,459.9	21.33	163.208	
8,400.0	7,126.1	5,400.0	5,399.4	29.3	1.7	23.62	-4,211.7	-764.1	3,452.3	3,430.7	21.61	159.723	
8,464.5	7,126.0	5,400.0	5,399.4	30.4	1.7	23.62	-4,211.7	-764.1	3,397.6	3,375.4	22.17	153.259	
8,500.0	7,125.9	5,400.0	5,399.4	31.0	1.7	23.62	-4,211.7	-764.1	3,367.7	3,345.2	22.47	149.851	
8,563.0	7,125.7	5,400.0	5,399.4	32.0	1.7	23.62	-4,211.7	-764.1	3,314.8	3,291.8	23.02	143.966	
8,600.0	7,125.6	5,400.0	5,399.4	32.6	1.7	23.62	-4,211.7	-764.1	3,283.9	3,260.5	23.35	140.643	
8,661.4	7,125.5	5,400.0	5,399.4	33.7	1.7	23.62	-4,211.7	-764.1	3,232.9	3,209.0	23.90	135.294	
8,700.0	7,125.4	5,400.0	5,399.4	34.4	1.7	23.62	-4,211.7	-764.1	3,201.0	3,176.8	24.24	132.062	
8,759.8	7,125.3	5,400.0	5,399.4	35.4	1.7	23.62	-4,211.7	-764.1	3,151.9	3,127.1	24.78	127.205	
8,800.0	7,125.2	5,400.0	5,399.4	36.1	1.7	23.62	-4,211.7	-764.1	3,119.1	3,094.0	25.14	124.068	
8,858.2	7,125.1	5,400.0	5,399.4	37.1	1.7	23.62	-4,211.7	-764.1	3,072.0	3,046.3	25.67	119.661	
8,900.0	7,125.0	5,400.0	5,399.4	37.8	1.7	23.62	-4,211.7	-764.1	3,038.4	3,012.3	26.05	116.621	
8,956.7	7,124.8	5,400.0	5,399.4	38.8	1.7	23.62	-4,211.7	-764.1	2,993.1	2,966.5	26.58	112.625	
9,000.0	7,124.7	5,400.0	5,399.4	39.6	1.7	23.62	-4,211.7	-764.1	2,958.8	2,931.8	26.98	109.684	
9,055.1	7,124.6	5,400.0	5,399.4	40.6	1.7	23.62	-4,211.7	-764.1	2,915.4	2,888.0	27.49	106.062	
9,100.0	7,124.5	5,400.0	5,399.4	41.4	1.7	23.62	-4,211.7	-764.1	2,880.4	2,852.5	27.91	103.220	
9,153.5	7,124.4	5,400.0	5,399.4	42.3	1.7	23.62	-4,211.7	-764.1	2,839.1	2,810.7	28.41	99.940	
9,200.0	7,124.3	5,400.0	5,399.4	43.2	1.7	23.62	-4,211.7	-764.1	2,803.5	2,774.6	28.84	97.196	
9,251.9	7,124.2	5,400.0	5,399.4	44.1	1.7	23.62	-4,211.7	-764.1	2,764.1	2,734.8	29.33	94.228	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
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
9,300.0	7,124.1	5,400.0	5,399.4	45.0	1.7	23.62	-4,211.7	-764.1	2,728.0	2,698.2	29.79	91.582	
9,350.4	7,123.9	5,400.0	5,399.4	45.9	1.7	23.62	-4,211.7	-764.1	2,690.6	2,660.4	30.27	88.898	
9,400.0	7,123.8	5,400.0	5,399.4	46.8	1.7	23.62	-4,211.7	-764.1	2,654.2	2,623.5	30.74	86.349	
9,448.8	7,123.7	5,400.0	5,399.4	47.7	1.7	23.62	-4,211.7	-764.1	2,618.8	2,587.6	31.20	83.925	
9,500.0	7,123.6	5,400.0	5,399.4	48.6	1.7	23.62	-4,211.7	-764.1	2,582.1	2,550.4	31.69	81.472	
9,547.2	7,123.5	5,400.0	5,399.4	49.4	1.7	23.62	-4,211.7	-764.1	2,548.7	2,516.6	32.15	79.285	
9,600.0	7,123.4	5,400.0	5,399.4	50.4	1.7	23.62	-4,211.7	-764.1	2,512.0	2,479.3	32.65	76.929	
9,645.6	7,123.3	5,400.0	5,399.4	51.2	1.7	23.62	-4,211.7	-764.1	2,480.6	2,447.5	33.09	74.959	
9,700.0	7,123.2	5,400.0	5,399.4	52.2	1.7	23.62	-4,211.7	-764.1	2,443.9	2,410.3	33.62	72.698	
9,744.1	7,123.1	5,400.0	5,399.4	53.1	1.7	23.62	-4,211.7	-764.1	2,414.6	2,380.5	34.04	70.926	
9,800.0	7,122.9	5,400.0	5,399.4	54.1	1.7	23.62	-4,211.7	-764.1	2,378.1	2,343.5	34.59	68.760	
9,842.5	7,122.8	5,400.0	5,399.4	54.9	1.7	23.62	-4,211.7	-764.1	2,350.8	2,315.8	35.00	67.171	
9,900.0	7,122.7	5,400.0	5,399.4	55.9	1.7	23.62	-4,211.7	-764.1	2,314.7	2,279.1	35.56	65.099	
9,940.9	7,122.6	5,400.0	5,399.4	56.7	1.7	23.62	-4,211.7	-764.1	2,289.5	2,253.6	35.96	63.677	
10,000.0	7,122.5	5,400.0	5,399.4	57.8	1.7	23.62	-4,211.7	-764.1	2,254.0	2,217.5	36.53	61.701	
10,039.3	7,122.4	5,400.0	5,399.4	58.5	1.7	23.62	-4,211.7	-764.1	2,230.9	2,194.0	36.92	60.432	
10,100.0	7,122.3	5,400.0	5,399.4	59.6	1.7	23.62	-4,211.7	-764.1	2,196.1	2,158.6	37.51	58.552	
10,137.8	7,122.2	5,400.0	5,399.4	60.3	1.7	23.62	-4,211.7	-764.1	2,175.1	2,137.2	37.88	57.424	
10,200.0	7,122.0	5,400.0	5,399.4	61.5	1.7	23.62	-4,211.7	-764.1	2,141.4	2,102.9	38.49	55.639	
10,236.2	7,121.9	5,400.0	5,399.4	62.2	1.7	23.62	-4,211.7	-764.1	2,122.4	2,083.6	38.84	54.641	
10,300.0	7,121.8	5,400.0	5,399.4	63.3	1.7	23.62	-4,211.7	-764.1	2,090.0	2,050.6	39.47	52.953	
10,334.6	7,121.7	5,400.0	5,399.4	64.0	1.7	23.62	-4,211.7	-764.1	2,073.1	2,033.3	39.81	52.074	
10,400.0	7,121.6	5,400.0	5,399.4	65.2	1.7	23.62	-4,211.7	-764.1	2,042.3	2,001.8	40.45	50.484	
10,433.0	7,121.5	5,400.0	5,399.4	65.8	1.7	23.62	-4,211.7	-764.1	2,027.3	1,986.6	40.78	49.714	
10,500.0	7,121.4	5,400.0	5,399.4	67.1	1.7	23.62	-4,211.7	-764.1	1,998.4	1,956.9	41.44	48.223	
10,531.5	7,121.3	5,400.0	5,399.4	67.7	1.7	23.62	-4,211.7	-764.1	1,985.4	1,943.7	41.75	47.553	
10,600.0	7,121.1	5,400.0	5,399.4	69.0	1.7	23.62	-4,211.7	-764.1	1,958.6	1,916.2	42.43	46.163	
10,629.9	7,121.1	5,400.0	5,399.4	69.5	1.7	23.62	-4,211.7	-764.1	1,947.6	1,904.8	42.72	45.584	
10,700.0	7,120.9	5,400.0	5,399.4	70.8	1.7	23.62	-4,211.7	-764.1	1,923.2	1,879.8	43.42	44.295	
10,728.3	7,120.8	5,400.0	5,399.4	71.4	1.7	23.62	-4,211.7	-764.1	1,914.0	1,870.3	43.70	43.800	
10,800.0	7,120.7	5,400.0	5,399.4	72.7	1.7	23.62	-4,211.7	-764.1	1,892.5	1,848.0	44.41	42.614	
10,826.7	7,120.6	5,400.0	5,399.4	73.2	1.7	23.62	-4,211.7	-764.1	1,885.0	1,840.4	44.68	42.194	
10,900.0	7,120.5	5,400.0	5,399.4	74.6	1.7	23.62	-4,211.7	-764.1	1,866.6	1,821.1	45.40	41.111	
10,925.2	7,120.4	5,400.0	5,399.4	75.1	1.7	23.62	-4,211.7	-764.1	1,860.8	1,815.2	45.65	40.760	
11,000.0	7,120.2	5,400.0	5,399.4	76.5	1.7	23.62	-4,211.7	-764.1	1,845.7	1,799.3	46.40	39.781	
11,023.6	7,120.2	5,400.0	5,399.4	76.9	1.7	23.62	-4,211.7	-764.1	1,841.5	1,794.9	46.63	39.491	
11,100.0	7,120.0	5,400.0	5,399.4	78.3	1.7	23.62	-4,211.7	-764.1	1,830.1	1,782.7	47.39	38.616	
11,122.0	7,120.0	5,400.0	5,399.4	78.8	1.7	23.62	-4,211.7	-764.1	1,827.4	1,779.8	47.61	38.381	
11,200.0	7,119.8	5,400.0	5,399.4	80.2	1.7	23.62	-4,211.7	-764.1	1,819.9	1,771.5	48.39	37.609	
11,220.4	7,119.7	5,400.0	5,399.4	80.6	1.7	23.62	-4,211.7	-764.1	1,818.4	1,769.8	48.59	37.422	
11,300.0	7,119.5	5,400.0	5,399.4	82.1	1.7	23.62	-4,211.7	-764.1	1,815.1	1,765.7	49.39	36.752	
11,318.9	7,119.5	5,400.0	5,399.4	82.5	1.7	23.62	-4,211.7	-764.1	1,814.8	1,765.2	49.58	36.607	
11,336.9	7,119.5	5,400.0	5,399.4	82.8	1.7	23.62	-4,211.7	-764.1	1,814.7	1,764.9	49.75	36.473 CC, ES	
11,400.0	7,119.3	5,400.0	5,399.4	84.0	1.7	23.62	-4,211.7	-764.1	1,815.8	1,765.4	50.39	36.038	
11,417.3	7,119.3	5,400.0	5,399.4	84.3	1.7	23.62	-4,211.7	-764.1	1,816.5	1,765.9	50.56	35.929	
11,500.0	7,119.1	5,400.0	5,399.4	85.9	1.7	23.62	-4,211.7	-764.1	1,822.0	1,770.6	51.38	35.458	
11,515.7	7,119.1	5,400.0	5,399.4	86.2	1.7	23.62	-4,211.7	-764.1	1,823.5	1,771.9	51.54	35.379	
11,600.0	7,118.9	5,400.0	5,399.4	87.8	1.7	23.62	-4,211.7	-764.1	1,833.7	1,781.3	52.39	35.004	
11,614.1	7,118.8	5,400.0	5,399.4	88.0	1.7	23.62	-4,211.7	-764.1	1,835.8	1,783.2	52.53	34.949	
11,700.0	7,118.6	5,400.0	5,399.4	89.7	1.7	23.62	-4,211.7	-764.1	1,850.7	1,797.3	53.39	34.665	
11,712.6	7,118.6	5,400.0	5,399.4	89.9	1.7	23.62	-4,211.7	-764.1	1,853.2	1,799.7	53.51	34.631	
11,800.0	7,118.4	5,400.0	5,399.4	91.6	1.7	23.62	-4,211.7	-764.1	1,872.9	1,818.5	54.39	34.435	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,811.0	7,118.4	5,400.0	5,399.4	91.8	1.7	23.62	-4,211.7	-764.1	1,875.6	1,821.1	54.50	34.415		
11,900.0	7,118.2	5,400.0	5,399.4	93.4	1.7	23.62	-4,211.7	-764.1	1,900.1	1,844.7	55.39	34.302		
11,909.4	7,118.2	5,400.0	5,399.4	93.6	1.7	23.62	-4,211.7	-764.1	1,902.9	1,847.4	55.49	34.294		
12,000.0	7,118.0	5,400.0	5,399.4	95.3	1.7	23.62	-4,211.7	-764.1	1,932.1	1,875.7	56.40	34.259 SF		
12,007.8	7,118.0	5,400.0	5,399.4	95.5	1.7	23.62	-4,211.7	-764.1	1,934.8	1,878.3	56.47	34.259		
12,100.0	7,117.8	5,400.0	5,399.4	97.2	1.7	23.62	-4,211.7	-764.1	1,968.6	1,911.2	57.40	34.297		
12,106.3	7,117.7	5,400.0	5,399.4	97.4	1.7	23.62	-4,211.7	-764.1	1,971.1	1,913.6	57.46	34.302		
12,200.0	7,117.5	5,400.0	5,399.4	99.1	1.7	23.62	-4,211.7	-764.1	2,009.5	1,951.1	58.40	34.407		
12,204.7	7,117.5	5,400.0	5,399.4	99.2	1.7	23.62	-4,211.7	-764.1	2,011.5	1,953.1	58.45	34.413		
12,300.0	7,117.3	5,400.0	5,399.4	101.0	1.7	23.62	-4,211.7	-764.1	2,054.4	1,995.0	59.41	35.411		
12,303.1	7,117.3	5,400.0	5,399.4	101.1	1.7	23.62	-4,211.7	-764.1	2,055.9	1,996.5	59.44	34.587		
12,400.0	7,117.1	5,400.0	5,399.4	102.9	1.7	23.62	-4,211.7	-764.1	2,103.2	2,042.8	60.42	34.811		
12,401.5	7,117.1	5,400.0	5,399.4	103.0	1.7	23.62	-4,211.7	-764.1	2,104.0	2,043.5	60.43	34.815		
12,500.0	7,116.9	5,400.0	5,399.4	104.8	1.7	23.62	-4,211.7	-764.1	2,155.5	2,094.0	61.42	35.092		
12,598.4	7,116.6	5,400.0	5,399.4	106.7	1.7	23.62	-4,211.7	-764.1	2,210.1	2,147.7	62.41	35.411		
12,600.0	7,116.6	5,400.0	5,399.4	106.7	1.7	23.62	-4,211.7	-764.1	2,211.0	2,148.6	62.43	35.416		
12,696.8	7,116.4	5,400.0	5,399.4	108.6	1.7	23.62	-4,211.7	-764.1	2,267.7	2,204.3	63.41	35.766		
12,700.0	7,116.4	5,400.0	5,399.4	108.6	1.7	23.62	-4,211.7	-764.1	2,269.6	2,206.2	63.44	35.778		
12,795.2	7,116.2	5,400.0	5,399.4	110.4	1.7	23.62	-4,211.7	-764.1	2,328.1	2,263.7	64.40	36.152		
12,800.0	7,116.2	5,400.0	5,399.4	110.5	1.7	23.62	-4,211.7	-764.1	2,331.1	2,266.6	64.45	36.171		
12,893.7	7,116.0	5,400.0	5,399.4	112.3	1.7	23.62	-4,211.7	-764.1	2,391.0	2,325.6	65.39	36.565		
12,900.0	7,116.0	5,400.0	5,399.4	112.4	1.7	23.62	-4,211.7	-764.1	2,395.1	2,329.6	65.45	36.592		
12,992.1	7,115.7	5,400.0	5,399.4	114.2	1.7	23.62	-4,211.7	-764.1	2,456.2	2,389.8	66.38	37.001		
13,000.0	7,115.7	5,400.0	5,399.4	114.3	1.7	23.62	-4,211.7	-764.1	2,461.5	2,395.1	66.46	37.036		
13,090.5	7,115.5	5,400.0	5,399.4	116.1	1.7	23.62	-4,211.7	-764.1	2,523.6	2,456.2	67.38	37.455		
13,100.0	7,115.5	5,400.0	5,399.4	116.2	1.7	23.62	-4,211.7	-764.1	2,530.2	2,462.7	67.47	37.500		
13,188.9	7,115.3	5,400.0	5,399.4	117.9	1.7	23.62	-4,211.7	-764.1	2,592.9	2,524.6	68.37	37.925		
13,200.0	7,115.3	5,400.0	5,399.4	118.1	1.7	23.62	-4,211.7	-764.1	2,600.8	2,532.4	68.48	37.979		
13,287.4	7,115.1	5,400.0	5,399.4	119.8	1.7	23.62	-4,211.7	-764.1	2,664.1	2,594.8	69.36	38.408		
13,300.0	7,115.1	5,400.0	5,399.4	120.0	1.7	23.62	-4,211.7	-764.1	2,673.4	2,603.9	69.49	38.471		
13,385.8	7,114.9	5,400.0	5,399.4	121.7	1.7	23.62	-4,211.7	-764.1	2,737.0	2,666.6	70.36	38.901		
13,400.0	7,114.8	5,400.0	5,399.4	121.9	1.7	23.62	-4,211.7	-764.1	2,747.7	2,677.2	70.50	38.973		
13,484.2	7,114.6	5,400.0	5,399.4	123.6	1.7	23.62	-4,211.7	-764.1	2,811.4	2,740.1	71.35	39.402		
13,500.0	7,114.6	5,400.0	5,399.4	123.9	1.7	23.62	-4,211.7	-764.1	2,823.5	2,752.0	71.51	39.483		
13,582.6	7,114.4	5,400.0	5,399.4	125.4	1.7	23.62	-4,211.7	-764.1	2,887.3	2,815.0	72.35	39.909		
13,600.0	7,114.4	5,400.0	5,399.4	125.8	1.7	23.62	-4,211.7	-764.1	2,900.8	2,828.3	72.52	39.999		
13,681.1	7,114.2	5,400.0	5,399.4	127.3	1.7	23.62	-4,211.7	-764.1	2,964.5	2,891.2	73.34	40.420		
13,700.0	7,114.2	5,400.0	5,399.4	127.7	1.7	23.62	-4,211.7	-764.1	2,979.5	2,906.0	73.53	40.519		
13,779.5	7,114.0	5,400.0	5,399.4	129.2	1.7	23.62	-4,211.7	-764.1	3,042.9	2,968.6	74.34	40.934		
13,800.0	7,113.9	5,400.0	5,399.4	129.6	1.7	23.62	-4,211.7	-764.1	3,059.4	2,984.9	74.54	41.041		
13,877.9	7,113.8	5,400.0	5,399.4	131.1	1.7	23.62	-4,211.7	-764.1	3,122.5	3,047.2	75.33	41.449		
13,900.0	7,113.7	5,400.0	5,399.4	131.5	1.7	23.62	-4,211.7	-764.1	3,140.5	3,064.9	75.56	41.565		
13,976.3	7,113.5	5,400.0	5,399.4	132.9	1.7	23.62	-4,211.7	-764.1	3,203.1	3,126.8	76.33	41.964		
14,000.0	7,113.5	5,400.0	5,399.4	133.4	1.7	23.62	-4,211.7	-764.1	3,222.6	3,146.1	76.57	42.088		
14,074.8	7,113.3	5,400.0	5,399.4	134.8	1.7	23.62	-4,211.7	-764.1	3,284.7	3,207.4	77.33	42.479		
14,100.0	7,113.3	5,400.0	5,399.4	135.3	1.7	23.62	-4,211.7	-764.1	3,305.7	3,228.2	77.58	42.611		
14,173.2	7,113.1	5,400.0	5,399.4	136.7	1.7	23.62	-4,211.7	-764.1	3,367.2	3,288.9	78.32	42.992		
14,200.0	7,113.0	5,400.0	5,399.4	137.2	1.7	23.62	-4,211.7	-764.1	3,389.8	3,311.2	78.59	43.131		
14,219.1	7,113.0	5,400.0	5,399.4	137.6	1.7	23.62	-4,211.7	-764.1	3,406.0	3,327.2	78.79	43.230		

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis 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	171.12	-2,910.8	454.5	2,946.1				
98.4	98.4	124.7	124.7	0.1	0.1	171.13	-2,909.6	454.0	2,945.1	2,944.9	0.19	N/A	
100.0	100.0	125.9	125.9	0.1	0.1	171.13	-2,909.6	454.0	2,945.1	2,944.9	0.20	N/A	
196.8	196.8	200.0	200.0	0.3	0.2	171.13	-2,908.9	453.9	2,944.2	2,943.7	0.51	5,825.398	
200.0	200.0	200.0	200.0	0.3	0.2	171.13	-2,908.9	453.9	2,944.2	2,943.7	0.51	5,744.883	
295.3	295.3	294.9	294.9	0.5	0.2	171.13	-2,908.5	453.9	2,943.7	2,943.0	0.78	3,789.378	
300.0	300.0	299.8	299.8	0.5	0.2	171.13	-2,908.5	453.9	2,943.7	2,942.9	0.79	3,725.945	
393.7	393.7	394.9	394.9	0.8	0.3	171.13	-2,908.0	453.7	2,943.2	2,942.2	1.05	2,800.920	
400.0	400.0	400.0	400.0	0.8	0.3	171.13	-2,907.9	453.8	2,943.2	2,942.1	1.07	2,756.715	
492.1	492.1	481.2	481.2	1.0	0.3	171.13	-2,907.6	453.8	2,942.8	2,941.5	1.29	2,277.425	
500.0	500.0	488.0	488.0	1.0	0.3	171.13	-2,907.6	453.8	2,942.8	2,941.5	1.31	2,244.116	
590.5	590.5	597.5	597.5	1.2	0.4	171.13	-2,907.3	453.5	2,942.5	2,940.9	1.56	1,891.765	
600.0	600.0	600.0	600.0	1.2	0.4	171.13	-2,907.2	453.5	2,942.4	2,940.9	1.58	1,865.083	
689.0	689.0	674.9	674.8	1.4	0.4	171.13	-2,906.9	453.7	2,942.1	2,940.3	1.80	1,635.499	
695.1	695.1	679.6	679.6	1.4	0.4	171.13	-2,906.9	453.7	2,942.1	2,940.3	1.81	1,621.840	
700.0	700.0	683.4	683.4	1.4	0.4	171.13	-2,906.9	453.7	2,942.1	2,940.3	1.83	1,611.123	
787.4	787.4	782.4	782.4	1.6	0.4	171.12	-2,906.8	454.1	2,942.1	2,940.0	2.04	1,440.711	
800.0	800.0	798.2	798.1	1.7	0.4	171.12	-2,906.7	454.1	2,942.0	2,939.9	2.07	1,419.037	
885.8	885.8	889.7	889.7	1.9	0.5	171.12	-2,906.2	454.1	2,941.5	2,939.2	2.32	1,269.938	
900.0	900.0	904.5	904.4	1.9	0.5	171.12	-2,906.1	454.1	2,941.4	2,939.1	2.36	1,248.301	
984.2	984.2	987.7	987.7	2.1	0.5	171.11	-2,905.5	454.3	2,940.9	2,938.3	2.59	1,134.301	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	0.5	171.11	-2,905.4	454.3	2,940.8	2,938.1	2.64	1,116.027	
1,082.7	1,082.7	1,068.6	1,068.6	2.3	0.5	171.11	-2,905.2	454.4	2,940.5	2,937.7	2.82	1,041.022	
1,089.5	1,089.5	1,074.0	1,074.0	2.3	0.5	171.11	-2,905.2	454.4	2,940.5	2,937.7	2.84	1,035.284	
1,100.0	1,100.0	1,082.4	1,082.4	2.3	0.5	171.11	-2,905.2	454.4	2,940.5	2,937.6	2.86	1,026.611	
1,181.1	1,181.1	1,160.7	1,160.7	2.5	0.5	171.11	-2,905.3	454.6	2,940.6	2,937.6	3.06	959.856	
1,200.0	1,200.0	1,180.1	1,180.1	2.6	0.5	171.11	-2,905.3	454.7	2,940.7	2,937.6	3.11	945.169	
1,279.5	1,279.5	1,265.4	1,265.4	2.7	0.6	171.10	-2,905.3	455.2	2,940.7	2,937.4	3.32	885.768	
1,300.0	1,300.0	1,287.6	1,287.6	2.8	0.6	171.09	-2,905.2	455.3	2,940.7	2,937.3	3.37	871.484	
1,303.3	1,303.3	1,291.2	1,291.1	2.8	0.6	175.38	-2,905.2	455.3	2,940.7	2,937.3	3.38	869.768	
1,377.9	1,377.9	1,370.5	1,370.5	3.0	0.6	175.37	-2,905.0	455.7	2,941.6	2,938.1	3.57	824.887	
1,400.0	1,400.0	1,393.9	1,393.9	3.0	0.6	175.37	-2,905.0	455.7	2,942.2	2,938.6	3.62	812.630	
1,476.4	1,476.3	1,461.4	1,461.4	3.2	0.6	175.37	-2,904.9	455.6	2,945.8	2,942.0	3.80	774.704	
1,500.0	1,499.8	1,482.0	1,481.9	3.2	0.6	175.37	-2,904.9	455.6	2,947.3	2,943.5	3.86	763.765	
1,574.8	1,574.4	1,554.0	1,554.0	3.4	0.6	175.37	-2,905.0	455.7	2,953.6	2,949.5	4.06	728.169	
1,600.0	1,599.5	1,579.2	1,579.2	3.5	0.6	175.37	-2,905.0	455.7	2,956.2	2,952.0	4.12	716.646	
1,673.2	1,672.2	1,666.9	1,666.9	3.6	0.7	175.36	-2,904.9	456.0	2,964.7	2,960.4	4.32	685.490	
1,700.0	1,698.7	1,700.0	1,700.0	3.7	0.7	175.36	-2,904.7	456.2	2,968.2	2,963.8	4.40	675.224	
1,771.6	1,769.5	1,756.8	1,756.7	3.9	0.7	175.35	-2,904.5	456.4	2,978.8	2,974.2	4.58	650.179	
1,800.0	1,797.5	1,778.8	1,778.8	4.0	0.7	175.35	-2,904.5	456.4	2,983.5	2,978.9	4.65	640.930	
1,870.1	1,866.3	1,857.9	1,857.9	4.2	0.7	175.35	-2,904.5	456.5	2,996.6	2,991.7	4.84	618.984	
1,900.1	1,895.8	1,898.6	1,898.5	4.3	0.7	175.35	-2,904.4	456.5	3,002.5	2,997.6	4.92	610.143	
1,968.5	1,962.6	1,955.0	1,955.0	4.5	0.7	175.37	-2,904.1	456.5	3,016.4	3,011.3	5.09	592.464	
2,000.0	1,993.4	1,980.7	1,980.7	4.6	0.7	175.38	-2,904.1	456.4	3,022.9	3,017.7	5.17	584.793	
2,066.9	2,058.9	2,044.2	2,044.1	4.8	0.7	175.41	-2,904.2	456.0	3,036.7	3,031.4	5.34	568.296	
2,100.0	2,091.3	2,077.9	2,077.8	4.9	0.7	175.42	-2,904.1	455.9	3,043.6	3,038.2	5.42	561.031	
2,165.3	2,155.2	2,151.7	2,151.6	5.1	0.7	175.45	-2,904.0	455.8	3,057.0	3,051.4	5.60	546.062	
2,200.0	2,189.1	2,192.7	2,192.7	5.3	0.7	175.46	-2,903.8	455.7	3,064.0	3,058.3	5.69	538.127	
2,263.8	2,251.4	2,243.8	2,243.7	5.5	0.7	175.48	-2,903.6	455.4	3,076.9	3,071.1	5.86	525.016	
2,300.0	2,286.9	2,271.3	2,271.2	5.6	0.7	175.49	-2,903.6	455.3	3,084.4	3,078.5	5.96	517.898	
2,362.2	2,347.7	2,327.0	2,327.0	5.9	0.7	175.51	-2,903.7	455.1	3,097.4	3,091.3	6.12	505.842	
2,400.0	2,384.7	2,369.1	2,369.1	6.0	0.8	175.53	-2,903.8	454.8	3,105.3	3,099.1	6.23	498.620	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,460.6	2,444.0	2,428.8	2,428.8	6.3	0.8	175.56	-2,903.9	454.1	3,117.8	3,111.4	6.39	487.592	
2,500.0	2,482.5	2,463.3	2,463.3	6.4	0.8	175.58	-2,903.9	453.9	3,126.0	3,119.5	6.50	480.887	
2,559.0	2,540.3	2,517.8	2,517.8	6.6	0.8	175.60	-2,904.1	453.7	3,138.4	3,131.7	6.66	471.129	
2,600.0	2,580.3	2,560.5	2,560.4	6.8	0.8	175.62	-2,904.2	453.5	3,146.9	3,140.2	6.77	464.511	
2,617.6	2,597.5	2,578.8	2,578.7	6.9	0.8	175.62	-2,904.2	453.4	3,150.6	3,143.8	6.82	461.726	
2,657.5	2,636.6	2,618.2	2,618.1	7.0	0.8	175.65	-2,904.3	453.1	3,158.6	3,151.7	6.91	457.280	
2,700.0	2,678.4	2,657.8	2,657.8	7.2	0.8	175.68	-2,904.4	452.9	3,166.6	3,159.6	6.99	452.848	
2,755.9	2,733.5	2,712.6	2,712.6	7.3	0.8	175.70	-2,904.5	453.0	3,176.2	3,169.1	7.09	448.077	
2,800.0	2,777.0	2,764.4	2,764.4	7.4	0.8	175.72	-2,904.5	453.1	3,182.9	3,175.8	7.17	444.045	
2,854.3	2,830.9	2,822.5	2,822.4	7.6	0.8	175.74	-2,904.3	453.2	3,190.2	3,182.9	7.26	439.264	
2,900.0	2,876.2	2,865.1	2,865.1	7.7	0.8	175.76	-2,904.3	453.1	3,195.5	3,188.2	7.34	435.319	
2,952.7	2,928.7	2,918.5	2,918.4	7.8	0.8	175.78	-2,904.3	452.8	3,200.8	3,193.4	7.43	430.694	
3,000.0	2,975.8	2,975.3	2,975.2	7.9	0.8	175.80	-2,904.1	452.5	3,204.6	3,197.1	7.52	426.156	
3,051.2	3,026.8	3,025.1	3,025.1	8.0	0.8	175.81	-2,903.9	452.4	3,207.8	3,200.2	7.61	421.511	
3,100.0	3,075.6	3,065.3	3,065.2	8.1	0.8	175.81	-2,903.8	452.3	3,210.1	3,202.4	7.69	417.199	
3,149.6	3,125.2	3,108.2	3,108.2	8.2	0.9	175.82	-2,903.8	452.1	3,211.6	3,203.9	7.78	412.925	
3,200.0	3,175.6	3,164.7	3,164.6	8.3	0.9	175.82	-2,903.8	452.1	3,212.4	3,204.5	7.86	408.825	
3,217.7	3,193.3	3,184.6	3,184.5	8.3	0.9	171.54	-2,903.7	452.2	3,212.4	3,204.5	7.89	407.351	
3,248.0	3,223.6	3,217.8	3,217.8	8.4	0.9	171.54	-2,903.6	452.3	3,212.3	3,204.4	7.95	404.155	
3,300.0	3,275.6	3,273.9	3,273.8	8.5	0.9	171.53	-2,903.4	452.4	3,212.1	3,204.1	8.06	398.579	
3,346.4	3,322.0	3,316.9	3,316.8	8.6	0.9	171.54	-2,903.2	452.3	3,211.9	3,203.8	8.16	393.490	
3,389.1	3,364.6	3,349.2	3,349.1	8.6	0.9	171.54	-2,903.2	452.2	3,211.9	3,203.6	8.25	389.140	
3,400.0	3,375.6	3,357.5	3,357.4	8.7	0.9	171.54	-2,903.2	452.3	3,211.9	3,203.6	8.28	388.043	
3,444.9	3,420.4	3,400.0	3,399.9	8.7	0.9	171.53	-2,903.3	452.3	3,212.0	3,203.6	8.37	383.601	
3,500.0	3,475.6	3,445.1	3,445.0	8.8	0.9	171.53	-2,903.5	452.5	3,212.2	3,203.7	8.50	378.106	
3,543.3	3,518.9	3,489.5	3,489.4	8.9	0.9	171.53	-2,903.7	452.4	3,212.4	3,203.8	8.59	373.852	
3,600.0	3,575.6	3,560.0	3,559.9	9.0	0.9	171.54	-2,903.9	452.2	3,212.6	3,203.9	8.72	368.365	
3,641.7	3,617.3	3,609.0	3,608.9	9.1	0.9	171.54	-2,903.8	452.1	3,212.5	3,203.7	8.82	364.374	
3,685.4	3,660.9	3,645.5	3,645.4	9.2	0.9	171.54	-2,903.8	452.0	3,212.5	3,203.5	8.92	360.254	
3,700.0	3,675.6	3,657.7	3,657.7	9.2	0.9	171.54	-2,903.8	451.9	3,212.5	3,203.5	8.95	358.894	
3,740.1	3,715.7	3,691.3	3,691.2	9.3	0.9	171.55	-2,903.9	451.6	3,212.5	3,203.5	9.04	355.214	
3,800.0	3,775.6	3,742.5	3,742.5	9.4	0.9	171.56	-2,904.2	451.2	3,212.8	3,203.6	9.18	349.921	
3,838.6	3,814.1	3,775.8	3,775.7	9.5	0.9	171.56	-2,904.5	451.0	3,213.0	3,203.8	9.27	346.600	
3,900.0	3,875.6	3,844.4	3,844.3	9.6	0.9	171.57	-2,905.0	450.7	3,213.5	3,204.1	9.41	341.380	
3,937.0	3,912.6	3,893.7	3,893.6	9.7	0.9	171.58	-2,905.2	450.3	3,213.6	3,204.1	9.50	338.258	
4,000.0	3,975.6	3,948.7	3,948.6	9.8	0.9	171.58	-2,905.4	449.9	3,213.7	3,204.1	9.64	333.246	
4,035.4	4,011.0	3,978.2	3,978.2	9.9	1.0	171.59	-2,905.5	449.7	3,213.9	3,204.1	9.72	330.505	
4,100.0	4,075.6	4,043.0	4,042.9	10.0	1.0	171.59	-2,905.9	449.6	3,214.3	3,204.4	9.87	325.565	
4,133.8	4,109.4	4,080.8	4,080.7	10.0	1.0	171.60	-2,906.2	449.3	3,214.4	3,204.5	9.95	323.002	
4,200.0	4,175.6	4,156.3	4,156.2	10.2	1.0	171.61	-2,906.5	448.6	3,214.6	3,204.5	10.11	317.969	
4,232.3	4,207.8	4,193.4	4,193.4	10.2	1.0	171.61	-2,906.5	448.4	3,214.6	3,204.4	10.19	315.537	
4,255.2	4,230.7	4,215.3	4,215.2	10.3	1.0	171.61	-2,906.5	448.4	3,214.6	3,204.4	10.24	313.865	
4,300.0	4,275.6	4,255.2	4,255.1	10.4	1.0	171.62	-2,906.6	448.2	3,214.6	3,204.3	10.35	310.674	
4,330.7	4,306.3	4,282.5	4,282.5	10.4	1.0	171.62	-2,906.6	448.1	3,214.7	3,204.3	10.42	308.525	
4,400.0	4,375.6	4,352.3	4,352.2	10.6	1.0	171.63	-2,906.9	447.7	3,214.9	3,204.3	10.58	303.827	
4,429.1	4,404.7	4,383.0	4,382.9	10.6	1.0	171.63	-2,907.0	447.6	3,215.0	3,204.3	10.65	301.897	
4,500.0	4,475.6	4,469.1	4,469.0	10.8	1.0	171.63	-2,907.0	447.5	3,215.0	3,204.1	10.81	297.456	
4,527.5	4,503.1	4,500.0	4,499.9	10.8	1.0	171.63	-2,906.9	447.4	3,214.9	3,204.0	10.87	295.775	
4,600.0	4,575.6	4,560.9	4,560.8	11.0	1.1	171.64	-2,906.8	447.1	3,214.7	3,203.6	11.04	291.280	
4,603.9	4,579.5	4,564.1	4,564.0	11.0	1.1	171.64	-2,906.8	447.1	3,214.7	3,203.6	11.05	291.042	
4,626.0	4,601.5	4,581.8	4,581.8	11.0	1.1	171.64	-2,906.8	447.0	3,214.7	3,203.6	11.10	289.710	
4,700.0	4,675.6	4,659.1	4,659.0	11.2	1.1	171.65	-2,907.0	446.5	3,214.8	3,203.5	11.26	285.396	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,724.4	4,700.0	4,687.1	4,687.0	11.2	1.1	171.65	-2,907.0	446.4	3,214.8	3,203.5	11.32	284.006	
4,800.0	4,775.6	4,761.0	4,761.0	11.4	1.1	171.65	-2,907.0	446.3	3,214.7	3,203.3	11.49	279.758	
4,817.7	4,793.3	4,777.9	4,777.8	11.4	1.1	171.65	-2,907.0	446.3	3,214.7	3,203.2	11.53	278.779	
4,822.8	4,798.4	4,782.7	4,782.6	11.4	1.1	171.65	-2,907.0	446.3	3,214.7	3,203.2	11.54	278.499	
4,900.0	4,875.6	4,844.7	4,844.6	11.6	1.1	171.65	-2,907.1	446.2	3,214.9	3,203.2	11.71	274.428	
4,921.2	4,896.8	4,860.8	4,860.7	11.6	1.1	171.65	-2,907.2	446.2	3,215.0	3,203.3	11.76	273.341	
5,000.0	4,975.6	4,940.2	4,940.1	11.8	1.1	171.64	-2,907.7	447.0	3,215.7	3,203.7	11.94	269.273	
5,019.7	4,995.2	4,969.6	4,969.5	11.8	1.1	171.63	-2,907.8	447.4	3,215.8	3,203.8	11.99	268.207	
5,100.0	5,075.6	5,055.4	5,055.3	12.0	1.1	171.61	-2,907.7	448.6	3,215.8	3,203.7	12.18	263.979	
5,118.1	5,093.7	5,072.2	5,072.1	12.0	1.1	171.61	-2,907.7	448.8	3,215.9	3,203.6	12.23	263.049	
5,200.0	5,175.6	5,146.8	5,146.6	12.2	1.1	171.59	-2,907.8	449.9	3,216.1	3,203.7	12.42	258.943	
5,216.5	5,192.1	5,161.7	5,161.6	12.2	1.1	171.58	-2,907.8	450.2	3,216.2	3,203.7	12.46	258.132	
5,300.0	5,275.6	5,244.2	5,244.0	12.4	1.1	171.55	-2,908.0	452.2	3,216.6	3,204.0	12.66	254.095	
5,314.9	5,290.5	5,260.3	5,260.2	12.4	1.1	171.54	-2,908.0	452.6	3,216.7	3,204.0	12.70	253.379	
5,400.0	5,375.6	5,338.7	5,338.5	12.6	1.1	171.51	-2,908.1	454.4	3,217.1	3,204.2	12.90	249.441	
5,413.4	5,388.9	5,349.4	5,349.2	12.6	1.1	171.51	-2,908.1	454.7	3,217.2	3,204.3	12.93	248.842	
5,500.0	5,475.6	5,424.7	5,424.5	12.8	1.2	171.48	-2,908.6	456.4	3,218.1	3,204.9	13.13	245.030	
5,511.8	5,487.4	5,437.1	5,436.9	12.8	1.2	171.47	-2,908.7	456.7	3,218.2	3,205.0	13.16	244.513	
5,600.0	5,575.6	5,532.0	5,531.7	13.0	1.2	171.43	-2,909.3	459.4	3,219.1	3,205.7	13.37	240.707	
5,610.2	5,585.8	5,543.6	5,543.3	13.0	1.2	171.42	-2,909.4	459.7	3,219.2	3,205.8	13.40	240.270	
5,700.0	5,675.6	5,644.0	5,643.7	13.2	1.2	171.37	-2,909.6	462.5	3,219.8	3,206.2	13.61	236.493	
5,708.6	5,684.2	5,653.5	5,653.2	13.2	1.2	171.37	-2,909.6	462.8	3,219.8	3,206.2	13.64	236.134	
5,800.0	5,775.6	5,734.7	5,734.4	13.4	1.2	171.33	-2,909.7	464.7	3,220.3	3,206.4	13.85	232.482	
5,807.1	5,782.6	5,739.7	5,739.4	13.4	1.2	171.33	-2,909.7	464.8	3,220.3	3,206.5	13.87	232.210	
5,900.0	5,875.6	5,808.1	5,807.7	13.6	1.2	171.30	-2,910.4	466.6	3,221.5	3,207.4	14.09	228.713	
5,905.5	5,881.1	5,813.9	5,813.6	13.6	1.2	171.30	-2,910.4	466.8	3,221.6	3,207.5	14.10	228.505	
6,000.0	5,975.6	5,915.3	5,914.9	13.8	1.2	171.25	-2,911.5	469.8	3,223.0	3,208.7	14.33	224.986	
6,003.9	5,979.5	5,919.6	5,919.2	13.8	1.2	171.25	-2,911.5	469.9	3,223.1	3,208.8	14.33	224.842	
6,100.0	6,075.6	6,017.2	6,016.8	14.0	1.3	171.19	-2,912.3	473.2	3,224.3	3,209.8	14.56	221.382	
6,102.3	6,077.9	6,019.0	6,018.6	14.0	1.3	171.19	-2,912.3	473.2	3,224.4	3,209.8	14.57	221.301	
6,200.0	6,175.6	6,100.0	6,099.5	14.2	1.3	171.15	-2,913.4	475.8	3,226.0	3,211.2	14.80	217.972	
6,200.8	6,176.3	6,100.0	6,099.5	14.2	1.3	171.15	-2,913.4	475.8	3,226.1	3,211.3	14.80	217.948	
6,299.2	6,274.8	6,207.3	6,206.8	14.4	1.3	171.09	-2,914.9	479.1	3,227.9	3,212.9	15.04	214.641	
6,300.0	6,275.6	6,208.1	6,207.6	14.4	1.3	171.09	-2,914.9	479.2	3,227.9	3,212.9	15.04	214.614	
6,397.6	6,373.2	6,304.3	6,303.7	14.7	1.3	171.06	-2,916.1	481.4	3,229.5	3,214.2	15.27	211.455	
6,400.0	6,375.6	6,306.7	6,306.1	14.7	1.3	171.06	-2,916.2	481.4	3,229.6	3,214.3	15.28	211.379	
6,436.2	6,411.8	6,343.1	6,342.5	14.7	1.3	171.05	-2,916.7	482.2	3,230.2	3,214.8	15.36	210.228	
6,450.0	6,425.6	6,356.9	6,356.3	14.8	1.3	-9.17	-2,916.8	482.5	3,230.3	3,214.9	15.38	209.969	
6,496.0	6,471.5	6,403.3	6,402.7	14.8	1.3	-9.22	-2,917.4	483.8	3,228.7	3,213.2	15.49	208.425	
6,500.0	6,475.5	6,407.6	6,407.0	14.8	1.3	-9.22	-2,917.5	484.0	3,228.4	3,212.9	15.50	208.238	
6,550.0	6,525.1	6,461.9	6,461.2	14.9	1.3	-9.34	-2,918.1	485.5	3,223.1	3,207.4	15.69	205.370	
6,594.5	6,568.7	6,507.8	6,507.1	14.9	1.4	-9.48	-2,918.6	486.6	3,215.4	3,199.6	15.89	202.360	
6,600.0	6,574.1	6,512.5	6,511.9	14.9	1.4	-9.50	-2,918.6	486.7	3,214.3	3,198.4	15.91	201.977	
6,650.0	6,622.4	6,555.2	6,554.5	14.9	1.4	-9.72	-2,919.1	487.8	3,202.2	3,186.1	16.13	198.536	
6,692.9	6,663.0	6,591.2	6,590.5	14.9	1.4	-9.96	-2,919.6	488.7	3,189.3	3,173.0	16.30	195.706	
6,700.0	6,669.6	6,600.0	6,599.3	14.9	1.4	-10.01	-2,919.7	488.9	3,186.9	3,170.6	16.32	195.232	
6,750.0	6,715.6	6,648.3	6,647.5	14.9	1.4	-10.38	-2,920.4	490.2	3,168.3	3,151.9	16.49	192.137	
6,791.3	6,752.5	6,690.0	6,689.2	14.9	1.4	-10.76	-2,920.8	491.4	3,150.6	3,134.0	16.60	189.760	
6,800.0	6,760.1	6,698.5	6,697.8	14.9	1.4	-10.85	-2,920.9	491.6	3,146.6	3,130.0	16.62	189.284	
6,850.0	6,802.9	6,754.5	6,753.8	14.9	1.4	-11.44	-2,921.4	493.1	3,121.7	3,105.0	16.73	186.584	
6,889.7	6,835.6	6,797.3	6,796.5	14.9	1.4	-12.00	-2,921.6	494.1	3,099.7	3,082.9	16.79	184.596	
6,900.0	6,843.8	6,800.0	6,799.2	14.9	1.4	-12.13	-2,921.7	494.2	3,093.7	3,076.9	16.80	184.198	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT													Offset Well Error:	0.0 usft
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	
6,950.0	6,882.6	6,834.9	6,834.1	14.9	1.4	-12.93	-2,921.8	494.9	3,063.0	3,046.2	16.82	182.114		
6,988.2	6,910.7	6,856.8	6,856.0	15.0	1.4	-13.64	-2,922.0	495.4	3,037.9	3,021.1	16.82	180.652		
7,000.0	6,919.1	6,863.4	6,862.6	15.0	1.4	-13.89	-2,922.1	495.6	3,029.8	3,013.0	16.81	180.213		
7,050.0	6,953.1	6,900.0	6,899.2	15.0	1.4	-15.10	-2,922.5	496.3	2,994.3	2,977.5	16.80	178.189		
7,086.6	6,976.4	6,910.5	6,909.7	15.1	1.4	-16.06	-2,922.7	496.6	2,966.9	2,950.1	16.78	176.839		
7,100.0	6,984.5	6,918.5	6,917.7	15.1	1.4	-16.49	-2,922.8	496.7	2,956.5	2,939.8	16.77	176.260		
7,150.0	7,013.1	6,946.6	6,945.8	15.3	1.5	-18.30	-2,923.2	497.4	2,916.7	2,899.9	16.78	173.814		
7,185.0	7,031.4	6,964.7	6,963.8	15.4	1.5	-19.85	-2,923.4	497.9	2,887.7	2,870.9	16.81	171.744		
7,200.0	7,038.8	6,972.0	6,971.1	15.4	1.5	-20.60	-2,923.5	498.0	2,875.0	2,858.2	16.84	170.768		
7,250.0	7,061.4	6,994.4	6,993.5	15.6	1.5	-23.54	-2,923.8	498.7	2,831.6	2,814.7	16.98	166.811		
7,283.4	7,074.8	7,018.9	7,018.1	15.8	1.5	-26.24	-2,924.1	499.4	2,801.8	2,784.6	17.17	163.192		
7,300.0	7,080.9	7,033.7	7,032.8	15.9	1.5	-27.87	-2,924.2	499.8	2,786.7	2,769.4	17.30	161.098		
7,350.0	7,097.1	7,071.8	7,070.9	16.2	1.5	-33.96	-2,924.3	501.0	2,740.5	2,722.6	17.83	153.731		
7,381.9	7,105.7	7,381.9	7,056.0	16.4	1.5	-37.60	-2,924.3	500.5	2,710.4	2,691.9	18.58	145.905		
7,400.0	7,109.9	7,060.0	7,059.1	16.6	1.5	-40.50	-2,924.3	500.6	2,693.2	2,674.8	18.39	146.441		
7,450.0	7,119.4	7,060.0	7,059.1	17.0	1.5	-50.13	-2,924.3	500.6	2,645.3	2,626.2	19.11	138.406		
7,480.3	7,123.4	7,060.0	7,059.1	17.2	1.5	-57.66	-2,924.3	500.6	2,616.0	2,596.5	19.50	134.167		
7,500.0	7,125.4	7,060.0	7,059.1	17.4	1.5	-63.33	-2,924.3	500.6	2,596.8	2,577.2	19.65	132.132		
7,550.0	7,127.9	7,060.0	7,059.1	17.9	1.5	-80.16	-2,924.3	500.6	2,548.0	2,528.5	19.57	130.233		
7,562.9	7,128.0	7,060.0	7,059.1	18.0	1.5	-84.88	-2,924.3	500.6	2,535.4	2,515.9	19.52	129.918		
7,578.7	7,128.0	7,060.0	7,059.1	18.2	1.5	-84.88	-2,924.3	500.6	2,520.0	2,500.3	19.68	128.060		
7,600.0	7,127.9	7,060.0	7,059.1	18.4	1.5	-84.88	-2,924.3	500.6	2,499.2	2,479.3	19.90	125.615		
7,677.1	7,127.7	7,060.0	7,059.1	19.2	1.5	-84.88	-2,924.3	500.6	2,423.9	2,403.1	20.76	116.780		
7,700.0	7,127.7	7,060.0	7,059.1	19.5	1.5	-84.88	-2,924.3	500.6	2,401.6	2,380.6	21.01	114.303		
7,775.6	7,127.5	7,060.0	7,059.1	20.3	1.5	-84.88	-2,924.3	500.6	2,328.0	2,306.2	21.81	106.753		
7,800.0	7,127.5	7,060.0	7,059.1	20.5	1.5	-84.88	-2,924.3	500.6	2,304.2	2,282.1	22.06	104.431		
7,874.0	7,127.3	7,060.0	7,059.1	21.4	1.5	-84.88	-2,924.3	500.6	2,232.3	2,209.4	22.92	97.396		
7,900.0	7,127.2	7,060.0	7,059.1	21.7	1.5	-84.88	-2,924.3	500.6	2,207.1	2,183.8	23.22	95.048		
7,972.4	7,127.1	7,060.0	7,059.1	22.7	1.5	-84.88	-2,924.3	500.6	2,136.9	2,112.6	24.23	88.184		
8,000.0	7,127.0	7,060.0	7,059.1	23.1	1.5	-84.88	-2,924.3	500.6	2,110.2	2,085.6	24.62	85.720		
8,070.8	7,126.8	7,060.0	7,059.1	24.2	1.5	-84.88	-2,924.3	500.6	2,041.7	2,016.1	25.66	79.580		
8,100.0	7,126.8	7,060.0	7,059.1	24.6	1.5	-84.88	-2,924.3	500.6	2,013.6	1,987.5	26.08	77.198		
8,169.3	7,126.6	7,060.0	7,059.1	25.6	1.5	-84.88	-2,924.3	500.6	1,946.9	1,919.8	27.14	71.736		
8,200.0	7,126.6	7,060.0	7,059.1	26.1	1.5	-84.88	-2,924.3	500.6	1,917.4	1,889.8	27.61	69.450		
8,267.7	7,126.4	7,060.0	7,059.1	27.2	1.5	-84.88	-2,924.3	500.6	1,852.5	1,823.8	28.67	64.606		
8,300.0	7,126.3	7,060.0	7,059.1	27.7	1.5	-84.88	-2,924.3	500.6	1,821.6	1,792.4	29.18	62.422		
8,366.1	7,126.2	7,060.0	7,059.1	28.8	1.5	-84.88	-2,924.3	500.6	1,758.5	1,728.2	30.25	58.134		
8,400.0	7,126.1	7,060.0	7,059.1	29.3	1.5	-84.88	-2,924.3	500.6	1,726.2	1,695.4	30.79	56.055		
8,464.5	7,126.0	7,060.0	7,059.1	30.4	1.5	-84.88	-2,924.3	500.6	1,665.0	1,633.1	31.86	52.261		
8,500.0	7,125.9	7,060.0	7,059.1	31.0	1.5	-84.88	-2,924.3	500.6	1,631.4	1,599.0	32.44	50.286		
8,563.0	7,125.7	7,060.0	7,059.1	32.0	1.5	-84.88	-2,924.3	500.6	1,572.1	1,538.6	33.50	46.929		
8,600.0	7,125.6	7,060.0	7,059.1	32.6	1.5	-84.88	-2,924.3	500.6	1,537.3	1,503.2	34.12	45.056		
8,661.4	7,125.5	7,060.0	7,059.1	33.7	1.5	-84.88	-2,924.3	500.6	1,479.9	1,444.7	35.16	42.085		
8,700.0	7,125.4	7,060.0	7,059.1	34.4	1.5	-84.88	-2,924.3	500.6	1,444.0	1,408.2	35.82	40.310		
8,759.8	7,125.3	7,060.0	7,059.1	35.4	1.5	-84.88	-2,924.3	500.6	1,388.6	1,351.7	36.85	37.680		
8,800.0	7,125.2	7,060.0	7,059.1	36.1	1.5	-84.88	-2,924.3	500.6	1,351.6	1,314.1	37.54	36.000		
8,858.2	7,125.1	7,060.0	7,059.1	37.1	1.5	-84.88	-2,924.3	500.6	1,298.3	1,259.8	38.56	33.671		
8,900.0	7,125.0	7,060.0	7,059.1	37.8	1.5	-84.88	-2,924.3	500.6	1,260.4	1,221.1	39.29	32.082		
8,956.7	7,124.8	7,060.0	7,059.1	38.8	1.5	-84.88	-2,924.3	500.6	1,209.3	1,169.0	40.28	30.021		
9,000.0	7,124.7	7,060.0	7,059.1	39.6	1.5	-84.88	-2,924.3	500.6	1,170.6	1,129.6	41.04	28.521		
9,055.1	7,124.6	7,060.0	7,059.1	40.6	1.5	-84.88	-2,924.3	500.6	1,121.9	1,079.9	42.02	26.699		
9,100.0	7,124.5	7,060.0	7,059.1	41.4	1.5	-84.88	-2,924.3	500.6	1,082.6	1,039.8	42.81	25.286		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,153.5	7,124.4	7,060.0	7,059.1	42.3	1.5	-84.88	-2,924.3	500.6	1,036.4	992.7	43.77	23.679	
9,200.0	7,124.3	7,060.0	7,059.1	43.2	1.5	-84.88	-2,924.3	500.6	996.9	952.3	44.60	22.353	
9,251.9	7,124.2	7,060.0	7,059.1	44.1	1.5	-84.88	-2,924.3	500.6	953.5	908.0	45.53	20.942	
9,300.0	7,124.1	7,060.0	7,059.1	45.0	1.5	-84.88	-2,924.3	500.6	914.1	867.7	46.39	19.704	
9,350.4	7,123.9	7,060.0	7,059.1	45.9	1.5	-84.88	-2,924.3	500.6	873.8	826.5	47.30	18.472	
9,400.0	7,123.8	7,060.0	7,059.1	46.8	1.5	-84.88	-2,924.3	500.6	835.1	786.9	48.20	17.327	
9,448.8	7,123.7	7,060.0	7,059.1	47.7	1.5	-84.88	-2,924.3	500.6	798.2	749.1	49.08	16.263	
9,500.0	7,123.6	7,060.0	7,059.1	48.6	1.5	-84.88	-2,924.3	500.6	761.0	711.0	50.01	15.217	
9,547.2	7,123.5	7,060.0	7,059.1	49.4	1.5	-84.88	-2,924.3	500.6	728.2	677.3	50.87	14.315	
9,600.0	7,123.4	7,060.0	7,059.1	50.4	1.5	-84.88	-2,924.3	500.6	693.4	641.6	51.83	13.380	
9,645.6	7,123.3	7,060.0	7,059.1	51.2	1.5	-84.88	-2,924.3	500.6	665.3	612.7	52.66	12.634	
9,700.0	7,123.2	7,060.0	7,059.1	52.2	1.5	-84.88	-2,924.3	500.6	634.5	580.9	53.65	11.826	
9,744.1	7,123.1	7,060.0	7,059.1	53.1	1.5	-84.88	-2,924.3	500.6	611.9	557.5	54.46	11.236	
9,800.0	7,122.9	7,060.0	7,059.1	54.1	1.5	-84.88	-2,924.3	500.6	586.8	531.3	55.49	10.576	
9,842.5	7,122.8	7,060.0	7,059.1	54.9	1.5	-84.88	-2,924.3	500.6	570.7	514.4	56.27	10.142	
9,900.0	7,122.7	7,060.0	7,059.1	55.9	1.5	-84.88	-2,924.3	500.6	553.3	495.9	57.32	9.652	
9,940.9	7,122.6	7,060.0	7,059.1	56.7	1.5	-84.88	-2,924.3	500.6	544.3	486.2	58.08	9.371	
10,000.0	7,122.5	7,060.0	7,059.1	57.8	1.5	-84.88	-2,924.3	500.6	536.5	477.4	59.17	9.068	
10,039.3	7,122.4	7,060.0	7,059.1	58.5	1.5	-84.88	-2,924.3	500.6	534.9	475.0	59.89	8.931	
10,041.2	7,122.4	7,060.0	7,059.1	58.5	1.5	-84.88	-2,924.3	500.6	534.9	475.0	59.93	8.926 CC, ES	
10,100.0	7,122.3	7,060.0	7,059.1	59.6	1.5	-84.88	-2,924.3	500.6	538.1	477.1	61.01	8.820	
10,137.8	7,122.2	7,060.0	7,059.1	60.3	1.5	-84.88	-2,924.3	500.6	543.6	481.9	61.71	8.808 SF	
10,200.0	7,122.0	7,060.0	7,059.1	61.5	1.5	-84.88	-2,924.3	500.6	558.0	495.1	62.86	8.876	
10,236.2	7,121.9	7,060.0	7,059.1	62.2	1.5	-84.88	-2,924.3	500.6	569.3	505.8	63.54	8.961	
10,300.0	7,121.8	7,060.0	7,059.1	63.3	1.5	-84.88	-2,924.3	500.6	594.2	529.5	64.72	9.182	
10,334.6	7,121.7	7,060.0	7,059.1	64.0	1.5	-84.88	-2,924.3	500.6	610.1	544.7	65.36	9.334	
10,400.0	7,121.6	7,060.0	7,059.1	65.2	1.5	-84.88	-2,924.3	500.6	644.1	577.5	66.58	9.674	
10,433.0	7,121.5	7,060.0	7,059.1	65.8	1.5	-84.88	-2,924.3	500.6	663.1	595.9	67.19	9.868	
10,500.0	7,121.4	7,060.0	7,059.1	67.1	1.5	-84.88	-2,924.3	500.6	704.7	636.3	68.44	10.297	
10,531.5	7,121.3	7,060.0	7,059.1	67.7	1.5	-84.88	-2,924.3	500.6	725.6	656.6	69.03	10.512	
10,600.0	7,121.1	7,060.0	7,059.1	69.0	1.5	-84.88	-2,924.3	500.6	773.5	703.2	70.30	11.003	
10,629.9	7,121.1	7,060.0	7,059.1	69.5	1.5	-84.88	-2,924.3	500.6	795.4	724.5	70.86	11.225	
10,700.0	7,120.9	7,060.0	7,059.1	70.8	1.5	-84.88	-2,924.3	500.6	848.6	776.4	72.17	11.758	
10,728.3	7,120.8	7,060.0	7,059.1	71.4	1.5	-84.88	-2,924.3	500.6	870.8	798.1	72.70	11.978	
10,800.0	7,120.7	7,060.0	7,059.1	72.7	1.5	-84.88	-2,924.3	500.6	928.4	854.3	74.04	12.539	
10,826.7	7,120.6	7,060.0	7,059.1	73.2	1.5	-84.88	-2,924.3	500.6	950.3	875.8	74.54	12.750	
10,900.0	7,120.5	7,060.0	7,059.1	74.6	1.5	-84.88	-2,924.3	500.6	1,011.7	935.8	75.91	13.328	
10,925.2	7,120.4	7,060.0	7,059.1	75.1	1.5	-84.88	-2,924.3	500.6	1,033.2	956.8	76.38	13.527	
11,000.0	7,120.2	7,060.0	7,059.1	76.5	1.5	-84.88	-2,924.3	500.6	1,097.9	1,020.1	77.78	14.115	
11,023.6	7,120.2	7,060.0	7,059.1	76.9	1.5	-84.88	-2,924.3	500.6	1,118.6	1,040.3	78.23	14.299	
11,100.0	7,120.0	7,060.0	7,059.1	78.3	1.5	-84.88	-2,924.3	500.6	1,186.2	1,106.6	79.66	14.891	
11,122.0	7,120.0	7,060.0	7,059.1	78.8	1.5	-84.88	-2,924.3	500.6	1,205.9	1,125.8	80.07	15.060	
11,200.0	7,119.8	7,060.0	7,059.1	80.2	1.5	-84.88	-2,924.3	500.6	1,276.3	1,194.7	81.54	15.653	
11,220.4	7,119.7	7,060.0	7,059.1	80.6	1.5	-84.88	-2,924.3	500.6	1,294.9	1,212.9	81.92	15.806	
11,300.0	7,119.5	7,060.0	7,059.1	82.1	1.5	-84.88	-2,924.3	500.6	1,367.7	1,284.3	83.42	16.396	
11,318.9	7,119.5	7,060.0	7,059.1	82.5	1.5	-84.88	-2,924.3	500.6	1,385.1	1,301.3	83.77	16.534	
11,400.0	7,119.3	7,060.0	7,059.1	84.0	1.5	-84.88	-2,924.3	500.6	1,460.3	1,375.0	85.30	17.120	
11,417.3	7,119.3	7,060.0	7,059.1	84.3	1.5	-84.88	-2,924.3	500.6	1,476.4	1,390.7	85.62	17.243	
11,500.0	7,119.1	7,060.0	7,059.1	85.9	1.5	-84.88	-2,924.3	500.6	1,553.7	1,466.6	87.18	17.823	
11,515.7	7,119.1	7,060.0	7,059.1	86.2	1.5	-84.88	-2,924.3	500.6	1,568.5	1,481.0	87.47	17.931	
11,600.0	7,118.9	7,060.0	7,059.1	87.8	1.5	-84.88	-2,924.3	500.6	1,648.0	1,558.9	89.06	18.504	
11,614.1	7,118.8	7,060.0	7,059.1	88.0	1.5	-84.88	-2,924.3	500.6	1,661.4	1,572.0	89.33	18.599	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
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
11,700.0	7,118.6	7,060.0	7,059.1	89.7	1.5	-84.88	-2,924.3	500.6	1,742.9	1,651.9	90.95	19.164	
11,712.6	7,118.6	7,060.0	7,059.1	89.9	1.5	-84.88	-2,924.3	500.6	1,754.8	1,663.7	91.18	19.245	
11,800.0	7,118.4	7,060.0	7,059.1	91.6	1.5	-84.88	-2,924.3	500.6	1,838.3	1,745.5	92.83	19.802	
11,811.0	7,118.4	7,060.0	7,059.1	91.8	1.5	-84.88	-2,924.3	500.6	1,848.8	1,755.8	93.04	19.871	
11,900.0	7,118.2	7,060.0	7,059.1	93.4	1.5	-84.88	-2,924.3	500.6	1,934.2	1,839.5	94.72	20.420	
11,909.4	7,118.2	7,060.0	7,059.1	93.6	1.5	-84.88	-2,924.3	500.6	1,943.3	1,848.4	94.90	20.478	
12,000.0	7,118.0	7,060.0	7,059.1	95.3	1.5	-84.88	-2,924.3	500.6	2,030.5	1,933.9	96.61	21.018	
12,007.8	7,118.0	7,060.0	7,059.1	95.5	1.5	-84.88	-2,924.3	500.6	2,038.1	1,941.3	96.76	21.064	
12,100.0	7,117.8	7,060.0	7,059.1	97.2	1.5	-84.88	-2,924.3	500.6	2,127.1	2,028.6	98.50	21.596	
12,106.3	7,117.7	7,060.0	7,059.1	97.4	1.5	-84.88	-2,924.3	500.6	2,133.2	2,034.6	98.61	21.632	
12,200.0	7,117.5	7,060.0	7,059.1	99.1	1.5	-84.88	-2,924.3	500.6	2,224.0	2,123.7	100.39	22.155	
12,204.7	7,117.5	7,060.0	7,059.1	99.2	1.5	-84.88	-2,924.3	500.6	2,228.6	2,128.1	100.47	22.181	
12,300.0	7,117.3	7,060.0	7,059.1	101.0	1.5	-84.88	-2,924.3	500.6	2,321.2	2,219.0	102.28	22.696	
12,303.1	7,117.3	7,060.0	7,059.1	101.1	1.5	-84.88	-2,924.3	500.6	2,324.3	2,221.9	102.34	22.712	
12,400.0	7,117.1	7,060.0	7,059.1	102.9	1.5	-84.88	-2,924.3	500.6	2,418.6	2,314.5	104.17	23.219	
12,401.5	7,117.1	7,060.0	7,059.1	103.0	1.5	-84.88	-2,924.3	500.6	2,420.2	2,316.0	104.20	23.227	
12,500.0	7,116.9	7,060.0	7,059.1	104.8	1.5	-84.88	-2,924.3	500.6	2,516.3	2,410.2	106.06	23.725	
12,598.4	7,116.6	7,060.0	7,059.1	106.7	1.5	-84.88	-2,924.3	500.6	2,612.5	2,504.6	107.92	24.207	
12,600.0	7,116.6	7,060.0	7,059.1	106.7	1.5	-84.88	-2,924.3	500.6	2,614.1	2,506.1	107.95	24.215	
12,696.8	7,116.4	7,060.0	7,059.1	108.6	1.5	-84.88	-2,924.3	500.6	2,708.9	2,599.1	109.79	24.674	
12,700.0	7,116.4	7,060.0	7,059.1	108.6	1.5	-84.88	-2,924.3	500.6	2,712.0	2,602.2	109.85	24.689	
12,795.2	7,116.2	7,060.0	7,059.1	110.4	1.5	-84.88	-2,924.3	500.6	2,805.5	2,693.8	111.65	25.127	
12,800.0	7,116.2	7,060.0	7,059.1	110.5	1.5	-84.88	-2,924.3	500.6	2,810.1	2,698.4	111.74	25.148	
12,893.7	7,116.0	7,060.0	7,059.1	112.3	1.5	-84.88	-2,924.3	500.6	2,902.2	2,788.6	113.52	25.566	
12,900.0	7,116.0	7,060.0	7,059.1	112.4	1.5	-84.88	-2,924.3	500.6	2,908.4	2,794.7	113.64	25.593	
12,992.1	7,115.7	7,060.0	7,059.1	114.2	1.5	-84.88	-2,924.3	500.6	2,998.9	2,883.6	115.38	25.991	
13,000.0	7,115.7	7,060.0	7,059.1	114.3	1.5	-84.88	-2,924.3	500.6	3,006.7	2,891.2	115.53	26.025	
13,090.5	7,115.5	7,060.0	7,059.1	116.1	1.5	-84.88	-2,924.3	500.6	3,095.8	2,978.6	117.25	26.404	
13,100.0	7,115.5	7,060.0	7,059.1	116.2	1.5	-84.88	-2,924.3	500.6	3,105.2	2,987.7	117.43	26.443	
13,188.9	7,115.3	7,060.0	7,059.1	117.9	1.5	-84.88	-2,924.3	500.6	3,192.8	3,073.7	119.12	26.804	
13,200.0	7,115.3	7,060.0	7,059.1	118.1	1.5	-84.88	-2,924.3	500.6	3,203.7	3,084.4	119.33	26.848	
13,287.4	7,115.1	7,060.0	7,059.1	119.8	1.5	-84.88	-2,924.3	500.6	3,289.9	3,168.9	120.98	27.193	
13,300.0	7,115.1	7,060.0	7,059.1	120.0	1.5	-84.88	-2,924.3	500.6	3,302.4	3,181.1	121.22	27.242	
13,385.8	7,114.9	7,060.0	7,059.1	121.7	1.5	-84.88	-2,924.3	500.6	3,387.1	3,264.2	122.85	27.570	
13,400.0	7,114.8	7,060.0	7,059.1	121.9	1.5	-84.88	-2,924.3	500.6	3,401.1	3,278.0	123.12	27.624	
13,484.2	7,114.6	7,060.0	7,059.1	123.6	1.5	-84.88	-2,924.3	500.6	3,484.3	3,359.6	124.72	27.937	
13,500.0	7,114.6	7,060.0	7,059.1	123.9	1.5	-84.88	-2,924.3	500.6	3,499.9	3,374.9	125.02	27.994	
13,582.6	7,114.4	7,060.0	7,059.1	125.4	1.5	-84.88	-2,924.3	500.6	3,581.6	3,455.0	126.59	28.293	
13,600.0	7,114.4	7,060.0	7,059.1	125.8	1.5	-84.88	-2,924.3	500.6	3,598.7	3,471.8	126.92	28.355	
13,681.1	7,114.2	7,060.0	7,059.1	127.3	1.5	-84.88	-2,924.3	500.6	3,678.9	3,550.5	128.46	28.639	
13,700.0	7,114.2	7,060.0	7,059.1	127.7	1.5	-84.88	-2,924.3	500.6	3,697.6	3,568.8	128.82	28.704	
13,779.5	7,114.0	7,060.0	7,059.1	129.2	1.5	-84.88	-2,924.3	500.6	3,776.3	3,646.0	130.33	28.975	
13,800.0	7,113.9	7,060.0	7,059.1	129.6	1.5	-84.88	-2,924.3	500.6	3,796.6	3,665.9	130.72	29.044	
13,877.9	7,113.8	7,060.0	7,059.1	131.1	1.5	-84.88	-2,924.3	500.6	3,873.8	3,741.6	132.20	29.303	
13,900.0	7,113.7	7,060.0	7,059.1	131.5	1.5	-84.88	-2,924.3	500.6	3,895.7	3,763.0	132.62	29.375	
13,976.3	7,113.5	7,060.0	7,059.1	132.9	1.5	-84.88	-2,924.3	500.6	3,971.3	3,837.2	134.07	29.621	
14,000.0	7,113.5	7,060.0	7,059.1	133.4	1.5	-84.88	-2,924.3	500.6	3,994.7	3,860.2	134.52	29.696	
14,074.8	7,113.3	7,060.0	7,059.1	134.8	1.5	-84.88	-2,924.3	500.6	4,068.8	3,932.9	135.94	29.931	
14,100.0	7,113.3	7,060.0	7,059.1	135.3	1.5	-84.88	-2,924.3	500.6	4,093.8	3,957.4	136.42	30.009	
14,173.2	7,113.1	7,060.0	7,059.1	136.7	1.5	-84.88	-2,924.3	500.6	4,166.4	4,028.6	137.81	30.233	
14,200.0	7,113.0	7,060.0	7,059.1	137.2	1.5	-84.88	-2,924.3	500.6	4,193.0	4,054.7	138.32	30.314	
14,219.1	7,113.0	7,060.0	7,059.1	137.6	1.5	-84.88	-2,924.3	500.6	4,212.0	4,073.3	138.68	30.371	

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

## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 644-MWD												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	170.43	-2,910.8	490.8	2,951.9				
98.4	98.4	86.6	86.6	0.1	0.1	170.43	-2,910.7	490.8	2,951.8	2,951.6	0.19	N/A	
100.0	100.0	88.3	88.3	0.1	0.1	170.43	-2,910.7	490.8	2,951.8	2,951.6	0.19	N/A	
196.8	196.8	190.7	190.7	0.3	0.2	170.43	-2,910.5	490.8	2,951.6	2,951.1	0.51	5,739.803	
200.0	200.0	194.1	194.1	0.3	0.2	170.43	-2,910.4	490.8	2,951.6	2,951.0	0.52	5,624.266	
295.3	295.3	294.8	294.8	0.5	0.3	170.43	-2,910.0	490.9	2,951.1	2,950.3	0.84	3,495.621	
300.0	300.0	299.8	299.8	0.5	0.3	170.43	-2,910.0	490.9	2,951.1	2,950.2	0.86	3,431.202	
393.7	393.7	398.9	398.9	0.8	0.4	170.42	-2,909.3	490.9	2,950.5	2,949.3	1.17	2,512.686	
400.0	400.0	405.6	405.5	0.8	0.4	170.42	-2,909.2	490.9	2,950.5	2,949.3	1.20	2,468.246	
492.1	492.1	503.0	503.0	1.0	0.5	170.42	-2,908.4	491.0	2,949.7	2,948.2	1.50	1,960.907	
500.0	500.0	511.3	511.3	1.0	0.5	170.42	-2,908.3	491.0	2,949.6	2,948.1	1.53	1,927.034	
590.5	590.5	607.0	607.0	1.2	0.6	170.41	-2,907.3	491.0	2,948.7	2,946.8	1.83	1,607.572	
600.0	600.0	617.0	617.0	1.2	0.6	170.41	-2,907.2	491.1	2,948.6	2,946.7	1.87	1,580.218	
689.0	689.0	677.6	677.6	1.4	0.7	170.41	-2,906.6	491.2	2,947.8	2,945.7	2.16	1,363.915	
699.8	699.8	683.4	683.3	1.4	0.8	170.41	-2,906.6	491.2	2,947.8	2,945.6	2.20	1,341.607	
700.0	700.0	683.4	683.4	1.4	0.8	170.41	-2,906.6	491.2	2,947.8	2,945.6	2.20	1,341.287	
787.4	787.4	738.0	738.0	1.6	0.9	170.40	-2,907.0	491.7	2,948.5	2,946.0	2.50	1,177.801	
800.0	800.0	738.0	738.0	1.7	0.9	170.40	-2,907.0	491.7	2,948.6	2,946.1	2.53	1,164.691	
885.8	885.8	780.6	780.6	1.9	0.9	170.39	-2,907.9	492.3	2,950.6	2,947.8	2.81	1,051.331	
900.0	900.0	787.9	787.8	1.9	1.0	170.39	-2,908.1	492.4	2,951.1	2,948.2	2.85	1,034.572	
984.2	984.2	830.0	829.9	2.1	1.0	170.38	-2,909.7	493.1	2,954.4	2,951.2	3.12	946.044	
1,000.0	1,000.0	830.0	829.9	2.1	1.0	170.38	-2,909.7	493.1	2,955.1	2,952.0	3.16	935.686	
1,082.7	1,082.7	884.9	884.8	2.3	1.2	170.37	-2,912.4	494.4	2,959.7	2,956.2	3.46	855.711	
1,100.0	1,100.0	894.4	894.2	2.3	1.2	170.36	-2,913.0	494.7	2,960.7	2,957.2	3.52	841.752	
1,181.1	1,181.1	925.0	924.7	2.5	1.2	170.35	-2,914.9	495.7	2,966.5	2,962.7	3.76	788.199	
1,200.0	1,200.0	953.6	953.3	2.6	1.3	170.33	-2,916.9	496.9	2,967.9	2,964.0	3.87	766.943	
1,279.5	1,279.5	1,021.0	1,020.4	2.7	1.5	170.29	-2,922.1	500.1	2,974.5	2,970.3	4.20	708.673	
1,300.0	1,300.0	1,021.0	1,020.4	2.8	1.5	170.29	-2,922.1	500.1	2,976.2	2,972.0	4.24	701.397	
1,377.9	1,377.9	1,060.4	1,059.5	3.0	1.6	174.52	-2,925.5	502.3	2,984.7	2,980.1	4.52	660.884	
1,400.0	1,400.0	1,071.9	1,071.0	3.0	1.6	174.51	-2,926.6	503.1	2,987.6	2,983.0	4.59	650.296	
1,476.4	1,476.3	1,116.0	1,114.8	3.2	1.7	174.45	-2,931.0	506.1	2,999.7	2,994.8	4.87	615.438	
1,500.0	1,499.8	1,116.0	1,114.8	3.2	1.7	174.44	-2,931.0	506.1	3,004.0	2,999.1	4.93	609.503	
1,574.8	1,574.4	1,170.0	1,168.2	3.4	1.9	174.36	-2,937.0	510.2	3,019.4	3,014.1	5.23	577.094	
1,600.0	1,599.5	1,185.0	1,183.1	3.5	1.9	174.33	-2,938.8	511.5	3,025.1	3,019.8	5.33	568.056	
1,673.2	1,672.2	1,211.0	1,208.8	3.6	2.0	174.26	-2,942.0	513.7	3,043.6	3,038.1	5.56	547.892	
1,700.0	1,698.7	1,244.5	1,241.9	3.7	2.1	174.21	-2,946.2	516.8	3,050.9	3,045.2	5.70	535.466	
1,771.6	1,769.5	1,286.9	1,283.7	3.9	2.2	174.12	-2,951.9	520.9	3,072.1	3,066.1	5.96	515.229	
1,800.0	1,797.5	1,306.0	1,302.5	4.0	2.3	174.08	-2,954.5	522.8	3,081.1	3,075.0	6.07	507.467	
1,870.1	1,866.3	1,364.8	1,360.5	4.2	2.5	173.96	-2,962.9	528.7	3,104.7	3,098.3	6.36	487.997	
1,900.1	1,895.8	1,391.6	1,386.8	4.3	2.6	173.92	-2,966.7	531.3	3,115.3	3,108.9	6.49	480.165	
1,968.5	1,962.6	1,432.9	1,427.5	4.5	2.7	173.88	-2,972.7	535.3	3,140.1	3,133.3	6.75	465.442	
2,000.0	1,993.4	1,450.6	1,444.9	4.6	2.8	173.86	-2,975.4	537.1	3,151.7	3,144.8	6.86	459.275	
2,066.9	2,058.9	1,494.0	1,487.5	4.8	2.9	173.81	-2,982.2	541.7	3,176.6	3,169.5	7.13	445.653	
2,100.0	2,091.3	1,510.8	1,504.0	4.9	3.0	173.79	-2,984.9	543.5	3,189.1	3,181.8	7.25	440.023	
2,165.3	2,155.2	1,559.7	1,551.9	5.1	3.2	173.73	-2,992.8	549.3	3,213.9	3,206.4	7.53	426.843	
2,200.0	2,189.1	1,590.0	1,581.6	5.3	3.3	173.69	-2,997.8	553.1	3,227.2	3,219.5	7.69	419.464	
2,263.8	2,251.4	1,651.3	1,641.6	5.5	3.6	173.61	-3,007.7	560.9	3,251.6	3,243.6	8.00	406.462	
2,300.0	2,286.9	1,683.0	1,672.6	5.6	3.7	173.56	-3,012.8	564.9	3,265.5	3,257.3	8.17	399.816	
2,362.2	2,347.7	1,735.6	1,724.0	5.9	3.9	173.51	-3,021.3	571.7	3,289.2	3,280.8	8.45	389.104	
2,400.0	2,384.7	1,764.4	1,752.2	6.0	4.0	173.45	-3,026.0	575.6	3,303.8	3,295.2	8.62	383.199	
2,460.6	2,444.0	1,811.6	1,798.3	6.3	4.2	173.38	-3,033.8	581.9	3,327.2	3,318.3	8.90	373.779	
2,500.0	2,482.5	1,842.3	1,828.3	6.4	4.3	173.33	-3,038.9	586.1	3,342.5	3,333.4	9.08	367.967	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-6I - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 644-MWD												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	
2,559.0	2,540.3	1,996.8	1,979.7	6.6	4.9	173.13	-3,062.8	605.7	3,364.7	3,355.1	9.61	350.027	
2,600.0	2,580.3	2,029.5	2,011.8	6.8	5.0	173.09	-3,067.5	609.4	3,379.6	3,369.8	9.79	345.070	
2,617.6	2,597.5	2,043.6	2,025.6	6.9	5.1	173.08	-3,069.5	611.0	3,386.0	3,376.1	9.87	342.996	
2,657.5	2,636.6	2,080.7	2,062.1	7.0	5.2	173.08	-3,075.0	615.0	3,400.3	3,390.2	10.07	337.688	
2,700.0	2,678.4	2,127.3	2,108.0	7.2	5.4	173.07	-3,081.8	619.9	3,414.9	3,404.6	10.30	331.617	
2,755.9	2,733.5	2,172.8	2,152.8	7.3	5.6	173.07	-3,088.3	624.7	3,433.1	3,422.6	10.54	325.614	
2,800.0	2,777.0	2,199.0	2,178.5	7.4	5.7	173.08	-3,092.2	627.4	3,447.0	3,436.3	10.71	321.744	
2,854.3	2,830.9	2,249.0	2,227.6	7.6	5.8	173.07	-3,100.0	632.8	3,463.5	3,452.6	10.96	315.875	
2,900.0	2,876.2	2,249.0	2,227.6	7.7	5.8	173.11	-3,100.0	632.8	3,476.8	3,465.7	11.07	314.188	
2,952.7	2,928.7	2,292.0	2,269.8	7.8	6.0	173.10	-3,106.9	637.6	3,491.5	3,480.2	11.30	309.053	
3,000.0	2,975.8	2,321.6	2,298.8	7.9	6.2	173.09	-3,111.9	641.0	3,504.2	3,492.7	11.48	305.299	
3,051.2	3,026.8	2,363.0	2,339.3	8.0	6.3	173.07	-3,118.9	646.0	3,517.3	3,505.6	11.69	300.754	
3,100.0	3,075.6	2,423.4	2,398.4	8.1	6.6	173.01	-3,129.0	653.5	3,528.8	3,516.9	11.96	295.110	
3,149.6	3,125.2	2,462.2	2,436.2	8.2	6.7	172.98	-3,135.4	658.5	3,539.7	3,527.6	12.16	291.194	
3,200.0	3,175.6	2,495.0	2,468.4	8.3	6.9	172.96	-3,141.0	662.5	3,550.1	3,537.8	12.34	287.786	
3,217.7	3,193.3	2,506.6	2,479.7	8.3	6.9	168.67	-3,143.0	663.9	3,553.7	3,541.3	12.39	286.737	
3,248.0	3,223.6	2,532.0	2,504.5	8.4	7.0	168.64	-3,147.5	667.0	3,559.7	3,547.1	12.52	284.258	
3,300.0	3,275.6	2,571.1	2,542.6	8.5	7.2	168.59	-3,154.6	671.6	3,570.0	3,557.3	12.73	280.360	
3,346.4	3,322.0	2,612.9	2,583.4	8.6	7.4	168.53	-3,162.1	676.7	3,579.4	3,566.4	12.95	276.390	
3,400.0	3,375.6	2,662.8	2,632.1	8.7	7.6	168.46	-3,171.1	682.7	3,590.2	3,577.0	13.20	271.914	
3,444.9	3,420.4	2,705.2	2,673.6	8.7	7.8	168.41	-3,178.8	687.7	3,599.3	3,585.9	13.42	268.266	
3,500.0	3,475.6	2,745.0	2,712.4	8.8	8.0	168.36	-3,186.1	692.4	3,610.6	3,596.9	13.65	264.567	
3,543.3	3,518.9	2,772.0	2,738.7	8.9	8.1	168.32	-3,191.2	695.8	3,619.6	3,605.8	13.82	261.968	
3,600.0	3,575.6	2,815.0	2,780.5	9.0	8.3	168.25	-3,199.3	701.7	3,631.8	3,617.7	14.06	258.282	
3,641.7	3,617.3	2,848.5	2,813.1	9.1	8.4	168.20	-3,205.8	706.4	3,640.8	3,626.5	14.25	255.528	
3,700.0	3,675.6	2,914.3	2,877.1	9.2	8.7	168.10	-3,218.3	715.3	3,653.3	3,638.8	14.56	250.852	
3,740.1	3,715.7	2,949.7	2,911.5	9.3	8.9	168.05	-3,225.0	720.0	3,661.9	3,647.2	14.75	248.259	
3,800.0	3,775.6	3,098.0	3,056.1	9.4	9.5	167.86	-3,252.4	738.3	3,674.6	3,659.4	15.29	240.377	
3,838.6	3,814.1	3,131.4	3,088.8	9.5	9.7	167.82	-3,258.0	741.9	3,682.0	3,666.5	15.46	238.141	
3,900.0	3,875.6	3,167.7	3,124.3	9.6	9.8	167.77	-3,264.4	746.2	3,694.0	3,678.3	15.69	235.398	
3,937.0	3,912.6	3,304.6	3,258.3	9.7	10.4	167.60	-3,287.3	762.2	3,701.3	3,685.2	16.14	229.349	
4,000.0	3,975.6	3,379.0	3,331.5	9.8	10.7	167.54	-3,298.4	769.1	3,711.8	3,695.3	16.46	225.531	
4,035.4	4,011.0	3,416.9	3,368.8	9.9	10.8	167.50	-3,304.0	772.6	3,717.6	3,700.9	16.63	223.492	
4,100.0	4,075.6	3,451.8	3,403.1	10.0	10.9	167.46	-3,309.3	776.4	3,728.7	3,711.8	16.87	221.087	
4,133.8	4,109.4	3,475.0	3,425.9	10.0	11.0	167.43	-3,312.9	779.1	3,734.7	3,717.7	17.00	219.700	
4,200.0	4,175.6	3,575.4	3,524.4	10.2	11.4	167.31	-3,328.3	790.4	3,746.3	3,728.9	17.41	215.165	
4,232.3	4,207.8	3,608.4	3,556.9	10.2	11.5	167.28	-3,333.2	793.8	3,751.8	3,734.2	17.57	213.575	
4,300.0	4,275.6	3,714.8	3,661.5	10.4	11.9	167.16	-3,348.8	805.1	3,763.1	3,745.1	17.99	209.189	
4,330.7	4,306.3	3,759.0	3,705.1	10.4	12.1	167.11	-3,354.7	810.0	3,767.8	3,749.7	18.17	207.359	
4,400.0	4,375.6	3,821.0	3,766.1	10.6	12.3	167.03	-3,362.8	817.0	3,778.5	3,760.0	18.49	204.398	
4,429.1	4,404.7	3,853.0	3,797.6	10.6	12.5	166.99	-3,367.1	820.7	3,783.1	3,764.5	18.63	203.018	
4,500.0	4,475.6	3,853.0	3,797.6	10.8	12.5	166.99	-3,367.1	820.7	3,794.8	3,776.0	18.79	201.971	
4,527.5	4,503.1	3,853.0	3,797.6	10.8	12.5	166.99	-3,367.1	820.7	3,799.7	3,780.9	18.85	201.587	
4,600.0	4,575.6	3,903.4	3,847.0	11.0	12.7	166.92	-3,374.5	827.3	3,812.5	3,793.4	19.16	198.991	
4,626.0	4,601.5	3,911.8	3,855.3	11.0	12.7	166.90	-3,375.9	828.6	3,817.4	3,798.2	19.24	198.398	
4,700.0	4,675.6	3,949.0	3,891.4	11.2	12.9	166.83	-3,382.0	834.9	3,832.1	3,812.6	19.51	196.377	
4,724.4	4,700.0	3,949.0	3,891.4	11.2	12.9	166.83	-3,382.0	834.9	3,837.1	3,817.5	19.57	196.095	
4,800.0	4,775.6	3,995.1	3,936.0	11.4	13.1	166.74	-3,390.0	843.2	3,853.1	3,833.2	19.88	193.803	
4,822.8	4,798.4	4,013.2	3,953.5	11.4	13.2	166.70	-3,393.2	846.4	3,858.0	3,838.0	19.99	192.999	
4,900.0	4,875.6	4,075.9	4,014.3	11.6	13.5	166.58	-3,404.4	857.4	3,874.7	3,854.3	20.36	190.340	
4,921.2	4,896.8	4,093.7	4,031.4	11.6	13.6	166.54	-3,407.7	860.4	3,879.3	3,858.8	20.46	189.622	
5,000.0	4,975.6	4,253.9	4,187.0	11.8	14.3	166.27	-3,436.3	885.8	3,896.4	3,875.3	21.11	184.600	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 644-MWD												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	
5,019.7	4,995.2	4,326.0	4,257.5	11.8	14.6	166.17	-3,448.0	895.5	3,900.1	3,878.7	21.35	182.671	
5,100.0	5,075.6	4,369.1	4,299.7	12.0	14.8	166.12	-3,455.0	901.1	3,915.2	3,893.6	21.65	180.858	
5,118.1	5,093.7	4,378.0	4,308.4	12.0	14.9	166.11	-3,456.5	902.3	3,918.8	3,897.1	21.71	180.481	
5,200.0	5,175.6	4,420.0	4,349.3	12.2	15.0	166.05	-3,463.7	908.1	3,935.3	3,913.2	22.01	178.787	
5,216.5	5,192.1	4,454.3	4,382.8	12.2	15.2	166.00	-3,469.7	912.8	3,938.6	3,916.5	22.14	177.865	
5,300.0	5,275.6	4,552.9	4,479.1	12.4	15.6	165.87	-3,486.3	925.7	3,954.9	3,932.3	22.61	174.954	
5,314.9	5,290.5	4,562.1	4,488.1	12.4	15.7	165.86	-3,487.9	927.0	3,957.9	3,935.2	22.66	174.631	
5,400.0	5,375.6	4,635.2	4,559.3	12.6	16.0	165.76	-3,500.4	937.3	3,975.1	3,952.0	23.06	172.400	
5,413.4	5,388.9	4,676.4	4,599.6	12.6	16.2	165.70	-3,507.4	943.1	3,977.7	3,954.5	23.20	171.426	
5,500.0	5,475.6	4,783.7	4,704.4	12.8	16.6	165.55	-3,524.5	958.0	3,994.1	3,970.4	23.70	168.554	
5,511.8	5,487.4	4,796.2	4,716.6	12.8	16.7	165.54	-3,526.4	959.8	3,996.4	3,972.6	23.76	168.216	
5,600.0	5,575.6	4,938.5	4,855.9	13.0	17.3	165.33	-3,547.1	980.0	4,011.7	3,987.3	24.35	164.734	
5,610.2	5,585.8	4,945.3	4,862.6	13.0	17.3	165.32	-3,548.0	981.0	4,013.5	3,989.1	24.39	164.525	
5,700.0	5,675.6	5,099.5	5,013.8	13.2	17.9	165.10	-3,569.4	1,002.1	4,028.8	4,003.8	25.02	161.022	
5,708.6	5,684.2	5,104.3	5,018.6	13.2	17.9	165.09	-3,570.0	1,002.7	4,030.2	4,005.1	25.05	160.871	
5,800.0	5,775.6	5,173.0	5,086.0	13.4	18.2	165.01	-3,579.6	1,011.4	4,045.4	4,020.0	25.44	159.022	
5,807.1	5,782.6	5,173.0	5,086.0	13.4	18.2	165.01	-3,579.6	1,011.4	4,046.6	4,021.1	25.45	158.970	
5,900.0	5,875.6	5,294.2	5,205.2	13.6	18.7	164.87	-3,596.3	1,025.9	4,062.0	4,036.0	25.98	156.353	
5,905.5	5,881.1	5,298.7	5,209.6	13.6	18.7	164.86	-3,596.9	1,026.4	4,062.9	4,036.9	26.00	156.245	
6,000.0	5,975.6	5,415.4	5,324.6	13.8	19.1	164.76	-3,613.1	1,038.6	4,078.2	4,051.7	26.51	153.857	
6,003.9	5,979.5	5,427.1	5,336.1	13.8	19.2	164.75	-3,614.7	1,039.7	4,078.8	4,052.3	26.54	153.662	
6,100.0	6,075.6	5,894.9	5,800.7	14.0	20.5	164.54	-3,658.9	1,067.2	4,088.4	4,060.7	27.76	147.263	
6,102.3	6,077.9	5,898.4	5,804.1	14.0	20.5	164.54	-3,659.1	1,067.2	4,088.6	4,060.8	27.77	147.208	
6,200.0	6,175.6	6,276.9	6,182.3	14.2	21.1	164.54	-3,669.5	1,070.1	4,091.3	4,062.7	28.65	142.792	
6,200.8	6,176.3	6,277.6	6,183.0	14.2	21.1	164.54	-3,669.5	1,070.1	4,091.3	4,062.7	28.66	142.777	
6,299.2	6,274.8	6,355.6	6,261.1	14.4	21.2	164.54	-3,669.2	1,070.1	4,091.0	4,062.0	29.00	141.047	
6,300.0	6,275.6	6,356.2	6,261.6	14.4	21.2	164.54	-3,669.2	1,070.1	4,091.0	4,062.0	29.01	141.034	
6,309.5	6,285.1	6,363.1	6,268.6	14.5	21.2	164.54	-3,669.2	1,070.1	4,091.0	4,061.9	29.04	140.875	
6,397.6	6,373.2	6,435.4	6,340.9	14.7	21.3	164.54	-3,669.3	1,070.3	4,091.2	4,061.8	29.36	139.361	
6,400.0	6,375.6	6,437.7	6,343.1	14.7	21.3	164.54	-3,669.3	1,070.3	4,091.2	4,061.8	29.37	139.318	
6,436.2	6,411.8	6,472.0	6,377.4	14.7	21.3	164.54	-3,669.5	1,070.3	4,091.3	4,061.8	29.50	138.669	
6,450.0	6,425.6	6,485.0	6,390.4	14.8	21.3	-15.67	-3,669.6	1,070.3	4,091.3	4,061.7	29.59	138.266	
6,496.0	6,471.5	6,530.0	6,435.5	14.8	21.4	-15.72	-3,669.8	1,070.1	4,089.2	4,059.5	29.73	137.530	
6,500.0	6,475.5	6,534.0	6,439.4	14.8	21.4	-15.73	-3,669.9	1,070.1	4,088.9	4,059.2	29.74	137.484	
6,550.0	6,525.1	6,583.2	6,488.6	14.9	21.4	-15.88	-3,670.2	1,069.9	4,083.2	4,053.4	29.77	137.169	
6,594.5	6,568.7	6,619.5	6,525.0	14.9	21.5	-16.07	-3,670.4	1,069.7	4,075.4	4,045.7	29.68	137.326	
6,600.0	6,574.1	6,623.8	6,529.3	14.9	21.5	-16.10	-3,670.5	1,069.6	4,074.2	4,044.6	29.66	137.371	
6,650.0	6,622.4	6,662.4	6,567.9	14.9	21.6	-16.42	-3,670.9	1,069.4	4,062.1	4,032.6	29.43	138.028	
6,692.9	6,663.0	6,698.0	6,603.4	14.9	21.6	-16.77	-3,671.3	1,069.1	4,049.2	4,020.0	29.15	138.912	
6,700.0	6,669.6	6,705.1	6,610.6	14.9	21.6	-16.84	-3,671.4	1,069.0	4,046.8	4,017.7	29.10	139.078	
6,750.0	6,715.6	6,754.5	6,660.0	14.9	21.7	-17.38	-3,672.1	1,068.7	4,028.4	3,999.8	28.68	140.475	
6,791.3	6,752.5	6,790.7	6,696.1	14.9	21.7	-17.93	-3,672.5	1,068.4	4,010.9	3,982.6	28.26	141.943	
6,800.0	6,760.1	6,797.0	6,702.4	14.9	21.7	-18.05	-3,672.6	1,068.3	4,007.0	3,978.8	28.16	142.289	
6,850.0	6,802.9	6,832.5	6,738.0	14.9	21.8	-18.84	-3,673.1	1,068.1	3,982.6	3,955.1	27.57	144.472	
6,889.7	6,835.6	6,859.8	6,765.2	14.9	21.8	-19.59	-3,673.5	1,067.8	3,961.3	3,934.3	27.06	146.385	
6,900.0	6,843.8	6,873.0	6,778.4	14.9	21.8	-19.82	-3,673.7	1,067.7	3,955.6	3,928.6	26.94	146.839	
6,950.0	6,882.6	6,899.2	6,804.6	14.9	21.9	-20.95	-3,674.2	1,067.5	3,925.9	3,899.6	26.27	149.415	
6,988.2	6,910.7	6,922.9	6,828.3	15.0	21.9	-21.98	-3,674.7	1,067.2	3,901.5	3,875.7	25.79	151.263	
7,000.0	6,919.1	6,930.1	6,835.5	15.0	21.9	-22.33	-3,674.8	1,067.1	3,893.7	3,868.0	25.65	151.804	
7,050.0	6,953.1	6,959.1	6,864.4	15.0	22.0	-23.99	-3,675.5	1,066.8	3,859.2	3,834.1	25.10	153.724	
7,086.6	6,976.4	6,981.7	6,887.0	15.1	22.0	-25.44	-3,676.0	1,066.5	3,832.6	3,807.8	24.80	154.511	
7,100.0	6,984.5	6,990.2	6,895.6	15.1	22.0	-26.03	-3,676.2	1,066.4	3,822.5	3,797.8	24.72	154.625	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-6I - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 644-MWD													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		
7,150.0	7,013.1	7,020.3	6,925.6	15.3	22.1	-28.53	-3,676.9	1,066.1	3,783.8	3,759.3	24.58	153.915		
7,185.0	7,031.4	7,039.5	6,944.9	15.4	22.1	-30.61	-3,677.3	1,065.9	3,755.6	3,730.9	24.69	152.106		
7,200.0	7,038.8	7,047.3	6,952.7	15.4	22.1	-31.60	-3,677.5	1,065.9	3,743.3	3,718.5	24.80	150.970		
7,250.0	7,061.4	7,072.5	6,977.8	15.6	22.1	-35.41	-3,678.0	1,065.8	3,701.1	3,675.7	25.48	145.277		
7,283.4	7,074.8	7,088.6	6,994.0	15.8	22.2	-38.49	-3,678.3	1,065.7	3,672.1	3,645.9	26.26	139.859		
7,300.0	7,080.9	7,096.0	7,001.3	15.9	22.2	-40.19	-3,678.5	1,065.7	3,657.6	3,630.8	26.74	136.784		
7,350.0	7,097.1	7,115.7	7,021.0	16.2	22.2	-46.15	-3,678.8	1,065.7	3,612.8	3,584.1	28.63	126.197		
7,381.9	7,105.7	7,126.2	7,031.5	16.4	22.2	-50.70	-3,679.0	1,065.6	3,583.7	3,553.5	30.14	118.903		
7,400.0	7,109.9	7,131.4	7,036.7	16.6	22.2	-53.56	-3,679.1	1,065.6	3,567.0	3,535.9	31.08	114.783		
7,450.0	7,119.4	7,143.2	7,048.5	17.0	22.2	-62.58	-3,679.3	1,065.6	3,520.5	3,486.7	33.81	104.115		
7,480.3	7,123.4	7,148.4	7,053.7	17.2	22.2	-68.81	-3,679.4	1,065.6	3,492.0	3,456.6	35.40	98.637		
7,500.0	7,125.4	7,151.0	7,056.3	17.4	22.2	-73.13	-3,679.4	1,065.6	3,473.5	3,437.2	36.31	95.659		
7,550.0	7,127.9	7,154.7	7,060.1	17.9	22.3	-84.69	-3,679.5	1,065.6	3,426.2	3,388.3	37.90	90.394		
7,562.9	7,128.0	7,155.1	7,060.4	18.0	22.3	-87.72	-3,679.5	1,065.6	3,414.0	3,375.9	38.10	89.602		
7,578.7	7,128.0	7,155.3	7,060.7	18.2	22.3	-87.74	-3,679.5	1,065.6	3,399.0	3,360.8	38.27	88.828		
7,600.0	7,127.9	7,155.6	7,061.0	18.4	22.3	-87.75	-3,679.5	1,065.6	3,378.9	3,340.4	38.48	87.800		
7,677.1	7,127.7	7,156.8	7,062.2	19.2	22.3	-87.81	-3,679.5	1,065.6	3,306.1	3,266.7	39.35	84.019		
7,700.0	7,127.7	7,157.2	7,062.5	19.5	22.3	-87.83	-3,679.5	1,065.6	3,284.5	3,244.9	39.61	82.932		
7,775.6	7,127.5	7,158.4	7,063.7	20.3	22.3	-87.89	-3,679.5	1,065.6	3,213.4	3,173.0	40.41	79.528		
7,800.0	7,127.5	7,158.8	7,064.1	20.5	22.3	-87.91	-3,679.5	1,065.6	3,190.5	3,149.8	40.66	78.458		
7,874.0	7,127.3	7,159.9	7,065.2	21.4	22.3	-87.97	-3,679.6	1,065.6	3,121.1	3,079.6	41.52	75.163		
7,900.0	7,127.2	7,160.3	7,065.6	21.7	22.3	-88.00	-3,679.6	1,065.6	3,096.8	3,055.0	41.83	74.039		
7,972.4	7,127.1	7,161.4	7,066.8	22.7	22.3	-88.05	-3,679.6	1,065.6	3,029.3	2,986.4	42.84	70.705		
8,000.0	7,127.0	7,161.9	7,067.2	23.1	22.3	-88.08	-3,679.6	1,065.6	3,003.6	2,960.3	43.23	69.478		
8,070.8	7,126.8	7,162.9	7,068.3	24.2	22.3	-88.13	-3,679.6	1,065.6	2,937.8	2,893.5	44.27	66.353		
8,100.0	7,126.8	7,163.4	7,068.7	24.6	22.3	-88.15	-3,679.6	1,065.6	2,910.8	2,866.1	44.70	65.111		
8,169.3	7,126.6	7,164.4	7,069.8	25.6	22.3	-88.21	-3,679.6	1,065.6	2,846.8	2,801.0	45.77	62.203		
8,200.0	7,126.6	7,164.9	7,070.2	26.1	22.3	-88.23	-3,679.6	1,065.6	2,818.5	2,772.2	46.24	60.957		
8,267.7	7,126.4	7,165.9	7,071.2	27.2	22.3	-88.29	-3,679.7	1,065.6	2,756.3	2,709.0	47.31	58.264		
8,300.0	7,126.3	7,166.4	7,071.7	27.7	22.3	-88.31	-3,679.7	1,065.6	2,726.7	2,678.9	47.82	57.023		
8,366.1	7,126.2	7,167.4	7,072.7	28.8	22.3	-88.36	-3,679.7	1,065.6	2,666.3	2,617.4	48.89	54.538		
8,400.0	7,126.1	7,167.9	7,073.2	29.3	22.3	-88.39	-3,679.7	1,065.6	2,635.5	2,586.1	49.44	53.309		
8,464.5	7,126.0	7,168.8	7,074.1	30.4	22.3	-88.44	-3,679.7	1,065.6	2,577.0	2,526.5	50.51	51.022		
8,500.0	7,125.9	7,169.3	7,074.7	31.0	22.3	-88.46	-3,679.7	1,065.6	2,545.0	2,493.9	51.09	49.810		
8,563.0	7,125.7	7,170.2	7,075.6	32.0	22.3	-88.51	-3,679.7	1,065.6	2,488.4	2,436.2	52.16	47.710		
8,600.0	7,125.6	7,170.8	7,076.1	32.6	22.3	-88.54	-3,679.7	1,065.6	2,455.2	2,402.4	52.78	46.518		
8,661.4	7,125.5	7,171.7	7,077.0	33.7	22.3	-88.58	-3,679.7	1,065.6	2,400.5	2,346.7	53.83	44.595		
8,700.0	7,125.4	7,172.2	7,077.5	34.4	22.3	-88.61	-3,679.7	1,065.6	2,366.3	2,311.8	54.49	43.426		
8,759.8	7,125.3	7,173.1	7,078.4	35.4	22.3	-88.66	-3,679.8	1,065.6	2,313.5	2,257.9	55.52	41.665		
8,800.0	7,125.2	7,173.6	7,079.0	36.1	22.3	-88.69	-3,679.8	1,065.6	2,278.2	2,222.0	56.22	40.523		
8,858.2	7,125.1	7,174.4	7,079.8	37.1	22.3	-88.73	-3,679.8	1,065.6	2,227.4	2,170.2	57.24	38.914		
8,900.0	7,125.0	7,175.0	7,080.4	37.8	22.3	-88.76	-3,679.8	1,065.6	2,191.2	2,133.2	57.97	37.799		
8,956.7	7,124.8	7,175.8	7,081.2	38.8	22.3	-88.80	-3,679.8	1,065.6	2,142.4	2,083.4	58.97	36.330		
9,000.0	7,124.7	7,176.4	7,081.8	39.6	22.3	-88.83	-3,679.8	1,065.6	2,105.3	2,045.6	59.74	35.244		
9,055.1	7,124.6	7,177.2	7,082.5	40.6	22.3	-88.87	-3,679.8	1,065.6	2,058.6	1,997.9	60.72	33.905		
9,100.0	7,124.5	7,177.8	7,083.1	41.4	22.3	-88.90	-3,679.8	1,065.6	2,020.8	1,959.3	61.51	32.850		
9,153.5	7,124.4	7,178.5	7,083.9	42.3	22.3	-88.94	-3,679.8	1,065.6	1,976.1	1,913.6	62.47	31.631		
9,200.0	7,124.3	7,179.2	7,084.5	43.2	22.3	-88.98	-3,679.9	1,065.6	1,937.7	1,874.4	63.31	30.608		
9,251.9	7,124.2	7,179.9	7,085.2	44.1	22.3	-89.01	-3,679.9	1,065.6	1,895.2	1,830.9	64.24	29.500		
9,300.0	7,124.1	7,180.5	7,085.8	45.0	22.3	-89.05	-3,679.9	1,065.6	1,856.2	1,791.1	65.11	28.510		
9,350.4	7,123.9	7,181.2	7,086.5	45.9	22.3	-89.08	-3,679.9	1,065.6	1,815.9	1,749.9	66.02	27.505		
9,400.0	7,123.8	7,181.9	7,087.2	46.8	22.3	-89.12	-3,679.9	1,065.6	1,776.7	1,709.8	66.92	26.550		

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-6I - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 644-MWD												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	
9,448.8	7,123.7	7,182.5	7,087.8	47.7	22.3	-89.15	-3,679.9	1,065.6	1,738.7	1,670.9	67.81	25.641	
9,500.0	7,123.6	7,183.2	7,088.5	48.6	22.3	-89.18	-3,679.9	1,065.6	1,699.3	1,630.6	68.74	24.721	
9,547.2	7,123.5	7,183.8	7,089.1	49.4	22.3	-89.22	-3,679.9	1,065.6	1,663.6	1,594.0	69.60	23.902	
9,600.0	7,123.4	7,184.5	7,089.8	50.4	22.3	-89.25	-3,679.9	1,065.6	1,624.5	1,553.9	70.57	23.020	
9,645.6	7,123.3	7,185.1	7,090.4	51.2	22.3	-89.28	-3,679.9	1,065.6	1,591.2	1,519.8	71.40	22.284	
9,700.0	7,123.2	7,185.8	7,091.1	52.2	22.3	-89.32	-3,679.9	1,065.6	1,552.4	1,480.0	72.40	21.441	
9,744.1	7,123.1	7,186.4	7,091.7	53.1	22.3	-89.35	-3,680.0	1,065.6	1,521.6	1,448.4	73.21	20.784	
9,800.0	7,122.9	7,187.1	7,092.4	54.1	22.3	-89.39	-3,680.0	1,065.6	1,483.6	1,409.3	74.24	19.983	
9,842.5	7,122.8	7,187.6	7,093.0	54.9	22.3	-89.42	-3,680.0	1,065.6	1,455.4	1,380.4	75.03	19.399	
9,900.0	7,122.7	7,188.4	7,093.7	55.9	22.3	-89.45	-3,680.0	1,065.6	1,418.4	1,342.4	76.09	18.642	
9,940.9	7,122.6	7,188.9	7,094.2	56.7	22.3	-89.48	-3,680.0	1,065.6	1,393.0	1,316.1	76.85	18.127	
10,000.0	7,122.5	7,189.6	7,094.9	57.8	22.3	-89.52	-3,680.0	1,065.6	1,357.6	1,279.6	77.94	17.419	
10,039.3	7,122.4	7,190.1	7,095.4	58.5	22.3	-89.54	-3,680.0	1,065.6	1,334.9	1,256.3	78.67	16.969	
10,100.0	7,122.3	7,190.9	7,096.2	59.6	22.3	-89.58	-3,680.0	1,065.6	1,301.6	1,221.8	79.79	16.312	
10,137.8	7,122.2	7,191.3	7,096.7	60.3	22.3	-89.61	-3,680.0	1,065.6	1,281.8	1,201.3	80.50	15.924	
10,200.0	7,122.0	7,192.1	7,097.4	61.5	22.3	-89.65	-3,680.0	1,065.6	1,251.0	1,169.4	81.65	15.322	
10,236.2	7,121.9	7,192.6	7,097.9	62.2	22.3	-89.67	-3,680.0	1,065.6	1,234.2	1,151.9	82.33	14.992	
10,300.0	7,121.8	7,193.3	7,098.7	63.3	22.3	-89.71	-3,680.1	1,065.6	1,206.7	1,123.2	83.51	14.449	
10,334.6	7,121.7	7,193.8	7,099.1	64.0	22.3	-89.73	-3,680.1	1,065.6	1,192.9	1,108.8	84.16	14.174	
10,400.0	7,121.6	7,194.6	7,099.9	65.2	22.3	-89.78	-3,680.1	1,065.6	1,169.3	1,083.9	85.38	13.695	
10,433.0	7,121.5	7,195.0	7,100.3	65.8	22.3	-89.80	-3,680.1	1,065.6	1,158.5	1,072.5	86.00	13.472	
10,500.0	7,121.4	7,195.8	7,101.1	67.1	22.3	-89.84	-3,680.1	1,065.6	1,139.4	1,052.1	87.25	13.059	
10,531.5	7,121.3	7,196.1	7,101.5	67.7	22.3	-89.86	-3,680.1	1,065.6	1,131.7	1,043.8	87.84	12.883	
10,600.0	7,121.1	7,197.0	7,102.3	69.0	22.3	-89.90	-3,680.1	1,065.6	1,117.7	1,028.6	89.12	12.541	
10,629.9	7,121.1	7,197.3	7,102.6	69.5	22.3	-89.92	-3,680.1	1,065.6	1,112.9	1,023.2	89.68	12.409	
10,700.0	7,120.9	7,198.1	7,103.5	70.8	22.3	-89.96	-3,680.1	1,065.6	1,104.7	1,013.7	90.99	12.140	
10,728.3	7,120.8	7,198.5	7,103.8	71.4	22.3	-89.98	-3,680.1	1,065.6	1,102.6	1,011.1	91.53	12.047	
10,794.9	7,120.7	7,199.3	7,104.6	72.6	22.3	-90.02	-3,680.1	1,065.6	1,100.6	1,007.8	92.78	11.863 CC	
10,800.0	7,120.7	7,199.3	7,104.6	72.7	22.3	-90.02	-3,680.1	1,065.6	1,100.6	1,007.7	92.87	11.851	
10,826.7	7,120.6	7,199.6	7,105.0	73.2	22.3	-90.04	-3,680.1	1,065.6	1,101.0	1,007.7	93.37	11.792 ES	
10,900.0	7,120.5	7,200.5	7,105.8	74.6	22.3	-90.08	-3,680.2	1,065.6	1,105.6	1,010.8	94.75	11.668	
10,925.2	7,120.4	7,200.8	7,106.1	75.1	22.3	-90.10	-3,680.2	1,065.6	1,108.3	1,013.0	95.22	11.638	
11,000.0	7,120.2	7,201.6	7,107.0	76.5	22.3	-90.14	-3,680.2	1,065.6	1,119.5	1,022.9	96.63	11.586	
11,023.6	7,120.2	7,201.9	7,107.2	76.9	22.3	-90.16	-3,680.2	1,065.6	1,124.1	1,027.0	97.07	11.579 SF	
11,100.0	7,120.0	7,202.8	7,108.1	78.3	22.3	-90.20	-3,680.2	1,065.6	1,142.1	1,043.6	98.51	11.593	
11,122.0	7,120.0	7,203.0	7,108.3	78.8	22.3	-90.22	-3,680.2	1,065.6	1,148.2	1,049.2	98.93	11.606	
11,200.0	7,119.8	7,203.9	7,109.2	80.2	22.3	-90.26	-3,680.2	1,065.6	1,172.7	1,072.4	100.40	11.681	
11,220.4	7,119.7	7,204.1	7,109.5	80.6	22.3	-90.27	-3,680.2	1,065.6	1,180.0	1,079.2	100.78	11.708	
11,300.0	7,119.5	7,205.0	7,110.4	82.1	22.3	-90.32	-3,680.2	1,065.6	1,210.9	1,108.6	102.28	11.839	
11,318.9	7,119.5	7,205.2	7,110.6	82.5	22.3	-90.33	-3,680.2	1,065.6	1,218.9	1,116.3	102.64	11.876	
11,400.0	7,119.3	7,206.1	7,111.5	84.0	22.3	-90.38	-3,680.2	1,065.6	1,255.9	1,151.8	104.17	12.056	
11,417.3	7,119.3	7,206.3	7,111.7	84.3	22.3	-90.39	-3,680.2	1,065.6	1,264.4	1,159.9	104.50	12.099	
11,500.0	7,119.1	7,207.2	7,112.6	85.9	22.3	-90.44	-3,680.2	1,065.6	1,307.0	1,201.0	106.06	12.324	
11,515.7	7,119.1	7,207.4	7,112.7	86.2	22.3	-90.45	-3,680.2	1,065.6	1,315.6	1,209.2	106.36	12.370	
11,600.0	7,118.9	7,208.3	7,113.7	87.8	22.3	-90.49	-3,680.3	1,065.6	1,363.6	1,255.6	107.95	12.632	
11,614.1	7,118.8	7,208.5	7,113.8	88.0	22.3	-90.50	-3,680.3	1,065.6	1,372.0	1,263.8	108.22	12.678	
11,700.0	7,118.6	7,209.4	7,114.7	89.7	22.3	-90.55	-3,680.3	1,065.6	1,424.9	1,315.1	109.84	12.973	
11,712.6	7,118.6	7,209.5	7,114.9	89.9	22.3	-90.56	-3,680.3	1,065.6	1,432.9	1,322.8	110.08	13.017	
11,800.0	7,118.4	7,210.5	7,115.8	91.6	22.3	-90.61	-3,680.3	1,065.6	1,490.4	1,378.7	111.73	13.339	
11,811.0	7,118.4	7,210.6	7,115.9	91.8	22.3	-90.61	-3,680.3	1,065.6	1,497.9	1,385.9	111.94	13.381	
11,900.0	7,118.2	7,211.6	7,116.9	93.4	22.3	-90.66	-3,680.3	1,065.6	1,559.6	1,446.0	113.62	13.726	
11,909.4	7,118.2	7,211.6	7,117.0	93.6	22.3	-90.67	-3,680.3	1,065.6	1,566.3	1,452.5	113.80	13.763	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-6I - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 644-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,000.0	7,118.0	7,212.6	7,117.9	95.3	22.3	-90.72	-3,680.3	1,065.6	1,632.0	1,516.5	115.52	14.127	
12,007.8	7,118.0	7,212.7	7,118.0	95.5	22.3	-90.72	-3,680.3	1,065.6	1,637.8	1,522.1	115.67	14.159	
12,100.0	7,117.8	7,213.7	7,119.0	97.2	22.3	-90.77	-3,680.3	1,065.6	1,707.1	1,589.7	117.41	14.540	
12,106.3	7,117.7	7,213.7	7,119.0	97.4	22.3	-90.77	-3,680.3	1,065.6	1,711.9	1,594.4	117.53	14.566	
12,200.0	7,117.5	7,214.7	7,120.0	99.1	22.3	-90.82	-3,680.3	1,065.6	1,784.7	1,665.4	119.31	14.959	
12,204.7	7,117.5	7,214.7	7,120.1	99.2	22.3	-90.83	-3,680.3	1,065.6	1,788.4	1,669.0	119.40	14.979	
12,300.0	7,117.3	7,215.7	7,121.0	101.0	22.3	-90.88	-3,680.4	1,065.6	1,864.5	1,743.3	121.20	15.383	
12,303.1	7,117.3	7,215.7	7,121.1	101.1	22.3	-90.88	-3,680.4	1,065.6	1,867.0	1,745.7	121.26	15.396	
12,400.0	7,117.1	7,216.7	7,122.1	102.9	22.3	-90.93	-3,680.4	1,065.6	1,946.1	1,823.0	123.10	15.809	
12,401.5	7,117.1	7,216.8	7,122.1	103.0	22.3	-90.93	-3,680.4	1,065.6	1,947.4	1,824.2	123.13	15.815	
12,500.0	7,116.9	7,217.7	7,123.1	104.8	22.3	-90.98	-3,680.4	1,065.6	2,029.3	1,904.3	125.00	16.235	
12,598.4	7,116.6	7,218.7	7,124.1	106.7	22.3	-91.03	-3,680.4	1,065.6	2,112.7	1,985.8	126.87	16.653	
12,600.0	7,116.6	7,218.7	7,124.1	106.7	22.3	-91.04	-3,680.4	1,065.6	2,114.1	1,987.2	126.90	16.659	
12,696.8	7,116.4	7,219.7	7,125.0	108.6	22.3	-91.09	-3,680.4	1,065.6	2,197.3	2,068.6	128.74	17.068	
12,700.0	7,116.4	7,219.7	7,125.1	108.6	22.3	-91.09	-3,680.4	1,065.6	2,200.0	2,071.2	128.80	17.082	
12,795.2	7,116.2	7,220.7	7,126.0	110.4	22.3	-91.14	-3,680.4	1,065.6	2,283.0	2,152.4	130.61	17.480	
12,800.0	7,116.2	7,220.7	7,126.1	110.5	22.3	-91.14	-3,680.4	1,065.6	2,287.2	2,156.5	130.70	17.500	
12,893.7	7,116.0	7,221.6	7,127.0	112.3	22.3	-91.19	-3,680.4	1,065.6	2,369.7	2,237.2	132.48	17.888	
12,900.0	7,116.0	7,221.7	7,127.0	112.4	22.3	-91.19	-3,680.4	1,065.6	2,375.3	2,242.7	132.60	17.914	
12,992.1	7,115.7	7,222.6	7,127.9	114.2	22.3	-91.24	-3,680.4	1,065.6	2,457.3	2,323.0	134.35	18.291	
13,000.0	7,115.7	7,222.7	7,128.0	114.3	22.3	-91.24	-3,680.4	1,065.6	2,464.4	2,329.9	134.50	18.323	
13,090.5	7,115.5	7,223.5	7,128.9	116.1	22.4	-91.29	-3,680.5	1,065.6	2,545.7	2,409.5	136.22	18.688	
13,100.0	7,115.5	7,223.6	7,129.0	116.2	22.4	-91.29	-3,680.5	1,065.6	2,554.2	2,417.8	136.40	18.726	
13,188.9	7,115.3	7,224.5	7,129.8	117.9	22.4	-91.33	-3,680.5	1,065.6	2,634.8	2,496.7	138.09	19.080	
13,200.0	7,115.3	7,224.6	7,129.9	118.1	22.4	-91.34	-3,680.5	1,065.6	2,644.8	2,506.5	138.30	19.124	
13,287.4	7,115.1	7,225.4	7,130.7	119.8	22.4	-91.38	-3,680.5	1,065.6	2,724.5	2,584.5	139.96	19.466	
13,300.0	7,115.1	7,225.5	7,130.9	120.0	22.4	-91.39	-3,680.5	1,065.6	2,736.1	2,595.9	140.20	19.515	
13,385.8	7,114.9	7,226.3	7,131.7	121.7	22.4	-91.43	-3,680.5	1,065.6	2,814.8	2,673.0	141.83	19.846	
13,400.0	7,114.8	7,226.5	7,131.8	121.9	22.4	-91.44	-3,680.5	1,065.6	2,827.9	2,685.8	142.10	19.900	
13,484.2	7,114.6	7,227.3	7,132.6	123.6	22.4	-91.48	-3,680.5	1,065.6	2,905.6	2,761.9	143.70	20.220	
13,500.0	7,114.6	7,227.4	7,132.7	123.9	22.4	-91.49	-3,680.5	1,065.6	2,920.3	2,776.2	144.00	20.279	
13,582.6	7,114.4	7,228.2	7,133.5	125.4	22.4	-91.53	-3,680.5	1,065.6	2,997.0	2,851.4	145.58	20.587	
13,600.0	7,114.4	7,228.3	7,133.7	125.8	22.4	-91.53	-3,680.5	1,065.6	3,013.1	2,867.2	145.91	20.651	
13,681.1	7,114.2	7,229.1	7,134.4	127.3	22.4	-91.57	-3,680.5	1,065.6	3,088.7	2,941.3	147.45	20.948	
13,700.0	7,114.2	7,229.2	7,134.6	127.7	22.4	-91.58	-3,680.5	1,065.6	3,106.4	2,958.6	147.81	21.016	
13,779.5	7,114.0	7,230.0	7,135.3	129.2	22.4	-91.62	-3,680.5	1,065.6	3,180.9	3,031.6	149.32	21.302	
13,800.0	7,113.9	7,230.2	7,135.5	129.6	22.4	-91.63	-3,680.5	1,065.6	3,200.1	3,050.4	149.71	21.375	
13,877.9	7,113.8	7,230.9	7,136.2	131.1	22.4	-91.67	-3,680.6	1,065.6	3,273.4	3,122.2	151.20	21.650	
13,900.0	7,113.7	7,231.1	7,136.4	131.5	22.4	-91.68	-3,680.6	1,065.6	3,294.2	3,142.6	151.62	21.727	
13,976.3	7,113.5	7,231.7	7,137.1	132.9	22.4	-91.71	-3,680.6	1,065.6	3,366.2	3,213.2	153.07	21.992	
14,000.0	7,113.5	7,231.9	7,137.3	133.4	22.4	-91.72	-3,680.6	1,065.6	3,388.6	3,235.1	153.52	22.073	
14,074.8	7,113.3	7,232.6	7,137.9	134.8	22.4	-91.76	-3,680.6	1,065.6	3,459.4	3,304.5	154.94	22.327	
14,100.0	7,113.3	7,232.8	7,138.2	135.3	22.4	-91.77	-3,680.6	1,065.6	3,483.3	3,327.9	155.42	22.412	
14,173.2	7,113.1	7,233.5	7,138.8	136.7	22.4	-91.80	-3,680.6	1,065.6	3,552.9	3,396.0	156.82	22.656	
14,200.0	7,113.0	7,233.7	7,139.0	137.2	22.4	-91.82	-3,680.6	1,065.6	3,578.3	3,421.0	157.33	22.744	
14,219.1	7,113.0	7,233.9	7,139.2	137.6	22.4	-91.82	-3,680.6	1,065.6	3,596.5	3,438.9	157.69	22.807	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - 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)	+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	173.92	-4,240.5	451.8	4,264.6					
98.4	98.4	77.2	77.2	0.1	0.0	173.92	-4,240.5	451.6	4,264.5	4,264.4	0.14	N/A		
100.0	100.0	78.9	78.9	0.1	0.1	173.92	-4,240.5	451.6	4,264.5	4,264.4	0.15	N/A		
196.8	196.8	196.7	196.7	0.3	0.2	173.93	-4,240.3	450.9	4,264.3	4,263.8	0.51	8,385.661		
200.0	200.0	200.0	200.0	0.3	0.2	173.93	-4,240.3	450.9	4,264.3	4,263.8	0.52	8,200.153		
287.2	287.2	264.7	264.7	0.5	0.2	173.93	-4,240.2	450.6	4,264.0	4,263.3	0.75	5,672.946		
295.3	295.3	270.7	270.6	0.5	0.2	173.93	-4,240.2	450.6	4,264.0	4,263.3	0.77	5,515.243		
300.0	300.0	274.1	274.1	0.5	0.2	173.93	-4,240.2	450.6	4,264.0	4,263.3	0.79	5,427.212		
393.7	393.7	354.8	354.7	0.8	0.3	173.94	-4,240.4	450.2	4,264.3	4,263.3	1.04	4,111.611		
400.0	400.0	360.6	360.6	0.8	0.3	173.94	-4,240.5	450.2	4,264.3	4,263.3	1.05	4,045.211		
492.1	492.1	476.5	476.5	1.0	0.3	173.94	-4,240.7	450.3	4,264.6	4,263.3	1.29	3,313.317		
500.0	500.0	488.5	488.5	1.0	0.3	173.94	-4,240.7	450.4	4,264.6	4,263.3	1.31	3,265.703		
590.5	590.5	589.0	589.0	1.2	0.4	173.94	-4,240.3	450.2	4,264.2	4,262.6	1.55	2,752.054		
600.0	600.0	599.1	599.1	1.2	0.4	173.94	-4,240.3	450.2	4,264.2	4,262.6	1.58	2,707.121		
689.0	689.0	676.1	676.1	1.4	0.4	173.95	-4,240.0	449.7	4,263.8	4,262.0	1.82	2,348.733		
700.0	700.0	685.6	685.6	1.4	0.4	173.95	-4,240.0	449.6	4,263.8	4,262.0	1.85	2,310.834		
749.4	749.4	726.9	726.9	1.6	0.4	173.95	-4,240.0	449.3	4,263.8	4,261.8	1.97	2,159.308		
787.4	787.4	758.1	758.1	1.6	0.4	173.95	-4,240.1	449.0	4,263.8	4,261.7	2.07	2,056.972		
800.0	800.0	768.5	768.5	1.7	0.4	173.96	-4,240.1	449.0	4,263.8	4,261.7	2.11	2,025.183		
885.8	885.8	860.7	860.6	1.9	0.5	173.96	-4,240.3	448.7	4,264.0	4,261.7	2.31	1,844.856		
900.0	900.0	878.8	878.8	1.9	0.5	173.96	-4,240.3	448.7	4,264.0	4,261.7	2.34	1,819.741		
984.2	984.2	987.4	987.4	2.1	0.5	173.96	-4,240.0	448.8	4,263.8	4,261.2	2.56	1,664.727		
1,000.0	1,000.0	1,005.4	1,005.4	2.1	0.5	173.96	-4,239.9	448.7	4,263.7	4,261.1	2.60	1,638.025		
1,082.7	1,082.7	1,079.8	1,079.8	2.3	0.5	173.96	-4,239.5	448.3	4,263.2	4,260.4	2.82	1,512.565		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	0.5	173.97	-4,239.4	448.2	4,263.1	4,260.3	2.87	1,487.725		
1,181.1	1,181.1	1,160.2	1,160.2	2.5	0.6	173.97	-4,239.3	447.8	4,262.9	4,259.9	3.07	1,389.606		
1,188.6	1,188.6	1,166.1	1,166.1	2.5	0.6	173.97	-4,239.3	447.7	4,262.9	4,259.8	3.09	1,381.183		
1,200.0	1,200.0	1,175.1	1,175.1	2.6	0.6	173.97	-4,239.4	447.7	4,262.9	4,259.8	3.12	1,368.449		
1,279.5	1,279.5	1,260.9	1,260.9	2.7	0.6	173.98	-4,239.5	447.4	4,263.0	4,259.7	3.30	1,290.393		
1,300.0	1,300.0	1,286.8	1,286.8	2.8	0.6	173.98	-4,239.4	447.4	4,263.0	4,259.6	3.35	1,272.409		
1,307.6	1,307.6	1,296.5	1,296.5	2.8	0.6	178.26	-4,239.4	447.4	4,263.0	4,259.6	3.37	1,265.184		
1,377.9	1,377.9	1,376.9	1,376.9	3.0	0.6	178.26	-4,239.1	447.3	4,263.7	4,260.2	3.55	1,202.608		
1,400.0	1,400.0	1,400.0	1,400.0	3.0	0.6	178.26	-4,239.0	447.1	4,264.3	4,260.7	3.60	1,184.341		
1,476.4	1,476.3	1,464.1	1,464.0	3.2	0.6	178.27	-4,238.8	446.7	4,267.7	4,263.9	3.80	1,121.606		
1,500.0	1,499.8	1,483.4	1,483.4	3.2	0.6	178.27	-4,238.7	446.6	4,269.2	4,265.3	3.87	1,103.628		
1,574.8	1,574.4	1,596.7	1,596.7	3.4	0.7	178.27	-4,238.2	446.4	4,275.1	4,271.0	4.08	1,048.142		
1,600.0	1,599.5	1,621.4	1,621.4	3.5	0.7	178.27	-4,238.0	446.3	4,277.3	4,273.2	4.15	1,031.422		
1,673.2	1,672.2	1,688.5	1,688.5	3.6	0.7	178.27	-4,237.3	445.9	4,285.2	4,280.8	4.35	985.832		
1,700.0	1,698.7	1,711.2	1,711.1	3.7	0.7	178.27	-4,237.2	445.7	4,288.6	4,284.1	4.42	970.248		
1,771.6	1,769.5	1,767.3	1,767.3	3.9	0.7	178.28	-4,236.8	445.3	4,298.9	4,294.3	4.62	930.403		
1,800.0	1,797.5	1,789.5	1,789.4	4.0	0.7	178.28	-4,236.8	445.3	4,303.6	4,298.9	4.70	915.732		
1,870.1	1,866.3	1,889.2	1,889.1	4.2	0.8	178.27	-4,236.1	445.4	4,316.2	4,311.3	4.91	879.138		
1,900.1	1,895.8	1,916.9	1,916.8	4.3	0.8	178.27	-4,235.8	445.5	4,322.0	4,317.0	4.99	865.353		
1,968.5	1,962.6	1,966.4	1,966.4	4.5	0.8	178.27	-4,235.4	445.8	4,335.7	4,330.5	5.17	838.198		
2,000.0	1,993.4	2,000.0	2,000.0	4.6	0.8	178.27	-4,235.2	445.9	4,342.1	4,336.8	5.26	825.863		
2,066.9	2,058.9	2,045.1	2,045.1	4.8	0.8	178.27	-4,235.1	446.2	4,355.8	4,350.3	5.44	801.094		
2,100.0	2,091.3	2,073.8	2,073.7	4.9	0.8	178.27	-4,235.0	446.4	4,362.6	4,357.1	5.52	789.866		
2,165.3	2,155.2	2,158.9	2,158.9	5.1	0.8	178.27	-4,234.7	447.3	4,376.1	4,370.3	5.70	767.443		
2,200.0	2,189.1	2,200.0	2,199.9	5.3	0.9	178.26	-4,234.3	447.7	4,383.0	4,377.2	5.80	755.931		
2,263.8	2,251.4	2,248.9	2,248.8	5.5	0.9	178.26	-4,233.9	448.2	4,395.8	4,389.8	5.97	736.705		
2,300.0	2,286.9	2,272.8	2,272.7	5.6	0.9	178.26	-4,233.8	448.4	4,403.2	4,397.2	6.06	726.321		
2,362.2	2,347.7	2,332.2	2,332.1	5.9	0.9	178.26	-4,233.7	448.8	4,416.1	4,409.9	6.23	708.657		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,400.0	2,384.7	2,390.6	2,390.5	6.0	0.9	178.25	-4,233.4	449.4	4,423.8	4,417.5	6.34	697.681	
2,460.6	2,444.0	2,446.6	2,446.6	6.3	0.9	178.25	-4,233.0	450.0	4,436.1	4,429.5	6.51	681.751	
2,500.0	2,482.5	2,480.3	2,480.2	6.4	0.9	178.25	-4,232.8	450.2	4,444.0	4,437.4	6.61	671.893	
2,559.0	2,540.3	2,544.8	2,544.7	6.6	0.9	178.26	-4,232.5	450.3	4,456.0	4,449.3	6.78	657.044	
2,600.0	2,580.3	2,595.7	2,595.6	6.8	0.9	178.26	-4,232.1	450.5	4,464.3	4,457.4	6.90	646.882	
2,617.6	2,597.5	2,613.8	2,613.7	6.9	1.0	178.26	-4,232.0	450.6	4,467.8	4,460.8	6.95	642.803	
2,657.5	2,636.6	2,652.7	2,652.6	7.0	1.0	178.26	-4,231.6	450.7	4,475.5	4,468.4	7.04	635.617	
2,700.0	2,678.4	2,694.2	2,694.1	7.2	1.0	178.27	-4,231.3	450.6	4,483.0	4,475.9	7.14	628.073	
2,755.9	2,733.5	2,739.0	2,738.9	7.3	1.0	178.28	-4,230.9	450.4	4,492.1	4,484.9	7.25	619.847	
2,800.0	2,777.0	2,773.5	2,773.4	7.4	1.0	178.29	-4,230.8	450.3	4,498.7	4,491.3	7.33	613.496	
2,854.3	2,830.9	2,832.3	2,832.2	7.6	1.0	178.29	-4,230.5	450.4	4,505.8	4,498.4	7.44	605.445	
2,900.0	2,876.2	2,900.0	2,899.9	7.7	1.0	178.30	-4,230.0	450.6	4,510.9	4,503.3	7.54	598.225	
2,952.7	2,928.7	2,938.1	2,938.0	7.8	1.0	178.30	-4,229.6	450.6	4,515.8	4,508.1	7.64	591.364	
3,000.0	2,975.8	2,970.6	2,970.5	7.9	1.0	178.30	-4,229.4	450.6	4,519.5	4,511.8	7.72	585.321	
3,051.2	3,026.8	3,010.1	3,010.0	8.0	1.1	178.31	-4,229.4	450.5	4,522.8	4,515.0	7.81	578.950	
3,100.0	3,075.6	3,069.7	3,069.6	8.1	1.1	178.31	-4,229.2	450.4	4,525.1	4,517.2	7.90	572.768	
3,149.6	3,125.2	3,127.2	3,127.1	8.2	1.1	178.31	-4,228.9	450.6	4,526.5	4,518.5	7.99	566.524	
3,200.0	3,175.6	3,182.4	3,182.4	8.3	1.1	178.31	-4,228.6	450.5	4,526.9	4,518.9	8.08	560.044	
3,217.7	3,193.3	3,200.0	3,199.9	8.3	1.1	174.03	-4,228.5	450.4	4,526.9	4,518.8	8.12	557.801	
3,248.0	3,223.6	3,222.5	3,222.4	8.4	1.1	174.03	-4,228.4	450.3	4,526.7	4,518.5	8.18	553.571	
3,300.0	3,275.6	3,259.0	3,258.9	8.5	1.1	174.03	-4,228.3	450.1	4,526.5	4,518.3	8.28	546.490	
3,313.8	3,289.3	3,268.7	3,268.6	8.5	1.1	174.03	-4,228.3	450.0	4,526.5	4,518.2	8.31	544.476	
3,346.4	3,322.0	3,300.0	3,299.9	8.6	1.1	174.03	-4,228.4	449.9	4,526.6	4,518.2	8.39	539.689	
3,346.9	3,322.4	3,300.0	3,299.9	8.6	1.1	174.03	-4,228.4	449.9	4,526.6	4,518.2	8.39	539.633	
3,400.0	3,375.6	3,357.3	3,357.2	8.7	1.1	174.04	-4,228.4	449.8	4,526.6	4,518.1	8.51	532.147	
3,444.9	3,420.4	3,411.4	3,411.3	8.7	1.1	174.04	-4,228.3	449.7	4,526.5	4,517.9	8.61	525.868	
3,500.0	3,475.6	3,457.0	3,456.9	8.8	1.1	174.04	-4,228.2	449.5	4,526.4	4,517.7	8.73	518.310	
3,512.6	3,488.2	3,467.4	3,467.3	8.9	1.1	174.04	-4,228.2	449.5	4,526.4	4,517.6	8.76	516.608	
3,543.3	3,518.9	3,500.0	3,499.9	8.9	1.1	174.04	-4,228.3	449.2	4,526.4	4,517.6	8.83	512.453	
3,600.0	3,575.6	3,562.0	3,561.9	9.0	1.1	174.05	-4,228.3	448.7	4,526.4	4,517.4	8.97	504.769	
3,641.7	3,617.3	3,615.1	3,615.0	9.1	1.2	174.05	-4,228.1	448.4	4,526.2	4,517.2	9.07	499.090	
3,700.0	3,675.6	3,686.4	3,686.3	9.2	1.2	174.06	-4,227.8	447.7	4,525.9	4,516.7	9.21	491.189	
3,740.1	3,715.7	3,728.3	3,728.2	9.3	1.2	174.07	-4,227.5	447.0	4,525.6	4,516.3	9.31	485.980	
3,800.0	3,775.6	3,786.5	3,786.4	9.4	1.2	174.08	-4,227.2	446.3	4,525.1	4,515.7	9.46	478.476	
3,838.6	3,814.1	3,821.9	3,821.8	9.5	1.2	174.08	-4,226.9	446.1	4,524.9	4,515.3	9.55	473.809	
3,900.0	3,875.6	3,876.5	3,876.4	9.6	1.2	174.09	-4,226.7	445.4	4,524.5	4,514.8	9.70	466.617	
3,937.0	3,912.6	3,911.6	3,911.4	9.7	1.2	174.10	-4,226.6	444.9	4,524.3	4,514.5	9.79	462.362	
4,000.0	3,975.6	3,980.7	3,980.6	9.8	1.3	174.11	-4,226.3	444.0	4,524.0	4,514.0	9.94	455.189	
4,035.4	4,011.0	4,021.9	4,021.7	9.9	1.3	174.11	-4,226.0	443.8	4,523.8	4,513.7	10.03	451.179	
4,100.0	4,075.6	4,100.0	4,099.9	10.0	1.3	174.12	-4,225.4	442.8	4,523.2	4,513.0	10.19	443.940	
4,133.8	4,109.4	4,100.0	4,099.9	10.0	1.3	174.12	-4,225.4	442.8	4,523.0	4,512.7	10.26	440.730	
4,200.0	4,175.6	4,156.7	4,156.6	10.2	1.3	174.13	-4,225.2	441.9	4,522.6	4,512.2	10.41	434.244	
4,208.0	4,183.6	4,161.2	4,161.1	10.2	1.3	174.13	-4,225.2	441.8	4,522.6	4,512.2	10.43	433.486	
4,232.3	4,207.8	4,174.9	4,174.7	10.2	1.3	174.14	-4,225.3	441.6	4,522.6	4,512.1	10.49	431.219	
4,300.0	4,275.6	4,232.3	4,232.2	10.4	1.3	174.15	-4,225.6	440.7	4,523.0	4,512.3	10.64	424.940	
4,330.7	4,306.3	4,275.5	4,275.3	10.4	1.3	174.15	-4,225.8	440.2	4,523.1	4,512.4	10.72	422.063	
4,400.0	4,375.6	4,372.8	4,372.7	10.6	1.4	174.17	-4,225.8	439.1	4,523.0	4,512.1	10.88	415.531	
4,429.1	4,404.7	4,409.9	4,409.7	10.6	1.4	174.17	-4,225.7	438.6	4,522.8	4,511.9	10.96	412.824	
4,500.0	4,475.6	4,481.6	4,481.4	10.8	1.4	174.19	-4,225.4	437.4	4,522.4	4,511.3	11.13	406.444	
4,527.5	4,503.1	4,509.2	4,509.0	10.8	1.4	174.19	-4,225.2	436.9	4,522.2	4,511.0	11.19	404.017	
4,600.0	4,575.6	4,581.0	4,580.8	11.0	1.4	174.21	-4,224.9	435.6	4,521.8	4,510.4	11.37	397.794	
4,626.0	4,601.5	4,600.0	4,599.8	11.0	1.4	174.21	-4,224.8	435.3	4,521.6	4,510.2	11.43	395.656	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,700.0	4,675.6	4,665.5	4,665.3	11.2	1.5	174.23	-4,224.7	434.0	4,521.3	4,509.7	11.60	389.683	
4,724.4	4,700.0	4,685.2	4,685.0	11.2	1.5	174.23	-4,224.7	433.7	4,521.2	4,509.6	11.66	387.766	
4,800.0	4,775.6	4,756.9	4,756.7	11.4	1.5	174.25	-4,224.7	432.5	4,521.2	4,509.3	11.84	381.924	
4,822.8	4,798.4	4,779.5	4,779.3	11.4	1.5	174.25	-4,224.7	432.2	4,521.1	4,509.3	11.89	380.190	
4,900.0	4,875.6	4,916.9	4,916.6	11.6	1.5	174.25	-4,223.7	432.4	4,520.5	4,508.5	12.08	374.235	
4,921.2	4,896.8	4,933.4	4,933.2	11.6	1.5	174.25	-4,223.4	432.5	4,520.3	4,508.1	12.13	372.647	
5,000.0	4,975.6	5,000.0	4,999.8	11.8	1.5	174.25	-4,222.7	432.4	4,519.4	4,507.1	12.32	366.856	
5,019.7	4,995.2	5,020.0	5,019.8	11.8	1.5	174.25	-4,222.5	432.3	4,519.2	4,506.8	12.37	365.381	
5,100.0	5,075.6	5,133.0	5,132.8	12.0	1.6	174.25	-4,220.9	431.9	4,518.0	4,505.4	12.58	359.173	
5,118.1	5,093.7	5,154.2	5,154.0	12.0	1.6	174.25	-4,220.5	431.8	4,517.7	4,505.1	12.63	357.829	
5,200.0	5,175.6	5,236.8	5,236.5	12.2	1.6	174.26	-4,219.0	431.0	4,516.1	4,503.3	12.83	351.977	
5,216.5	5,192.1	5,251.0	5,250.7	12.2	1.6	174.26	-4,218.8	430.9	4,515.8	4,502.9	12.87	350.840	
5,300.0	5,275.6	5,319.9	5,319.6	12.4	1.6	174.27	-4,217.7	430.4	4,514.4	4,501.4	13.08	345.250	
5,314.9	5,290.5	5,331.1	5,330.8	12.4	1.6	174.27	-4,217.5	430.3	4,514.2	4,501.1	13.11	344.282	
5,400.0	5,375.6	5,400.0	5,399.7	12.6	1.6	174.27	-4,216.7	430.3	4,513.2	4,499.9	13.32	338.859	
5,413.4	5,388.9	5,407.1	5,406.8	12.6	1.6	174.27	-4,216.7	430.3	4,513.1	4,499.8	13.35	338.048	
5,500.0	5,475.6	5,500.0	5,499.7	12.8	1.7	174.26	-4,215.7	430.7	4,512.3	4,498.7	13.57	332.540	
5,511.8	5,487.4	5,500.0	5,499.7	12.8	1.7	174.26	-4,215.7	430.7	4,512.2	4,498.6	13.60	331.894	
5,600.0	5,575.6	5,580.0	5,579.7	13.0	1.7	174.26	-4,215.0	430.9	4,511.5	4,497.6	13.81	326.615	
5,610.2	5,585.8	5,588.2	5,587.8	13.0	1.7	174.26	-4,215.0	430.9	4,511.4	4,497.6	13.84	326.023	
5,681.6	5,657.2	5,635.0	5,634.7	13.2	1.7	174.26	-4,214.9	430.9	4,511.2	4,497.2	14.00	322.214	
5,700.0	5,675.6	5,646.4	5,646.1	13.2	1.7	174.26	-4,214.9	431.0	4,511.2	4,497.2	14.04	321.272	
5,708.6	5,684.2	5,651.7	5,651.4	13.2	1.7	174.26	-4,214.9	431.0	4,511.2	4,497.2	14.06	320.831	
5,800.0	5,775.6	5,719.8	5,719.5	13.4	1.7	174.25	-4,215.2	431.7	4,511.8	4,497.5	14.27	316.247	
5,807.1	5,782.6	5,730.3	5,730.0	13.4	1.7	174.25	-4,215.3	431.8	4,511.8	4,497.5	14.28	315.890	
5,900.0	5,875.6	5,839.1	5,838.8	13.6	1.7	174.22	-4,215.5	433.6	4,512.1	4,497.6	14.50	311.264	
5,905.5	5,881.1	5,843.8	5,843.5	13.6	1.7	174.22	-4,215.5	433.7	4,512.1	4,497.6	14.51	310.995	
6,000.0	5,975.6	5,923.9	5,923.5	13.8	1.7	174.21	-4,215.8	434.8	4,512.6	4,497.9	14.72	306.497	
6,003.9	5,979.5	5,927.1	5,926.8	13.8	1.7	174.21	-4,215.8	434.8	4,512.6	4,497.9	14.73	306.316	
6,100.0	6,075.6	6,019.2	6,018.9	14.0	1.7	174.20	-4,216.5	435.6	4,513.4	4,498.5	14.95	301.996	
6,102.3	6,077.9	6,024.5	6,024.2	14.0	1.7	174.20	-4,216.5	435.6	4,513.5	4,498.5	14.95	301.895	
6,200.0	6,175.6	6,162.5	6,162.1	14.2	1.7	174.20	-4,216.6	435.3	4,513.4	4,498.2	15.17	297.484	
6,200.8	6,176.3	6,163.2	6,162.9	14.2	1.7	174.20	-4,216.6	435.3	4,513.4	4,498.2	15.17	297.448	
6,277.1	6,252.6	6,230.5	6,230.1	14.4	1.7	174.20	-4,216.5	435.4	4,513.3	4,497.9	15.35	294.038	
6,299.2	6,274.8	6,248.0	6,247.6	14.4	1.7	174.20	-4,216.5	435.4	4,513.3	4,497.9	15.40	293.078	
6,300.0	6,275.6	6,248.6	6,248.3	14.4	1.7	174.20	-4,216.5	435.4	4,513.3	4,497.9	15.40	293.044	
6,397.6	6,373.2	6,344.1	6,343.7	14.7	1.7	174.20	-4,216.7	435.9	4,513.6	4,497.9	15.62	288.881	
6,400.0	6,375.6	6,347.3	6,346.9	14.7	1.7	174.20	-4,216.7	435.9	4,513.6	4,497.9	15.63	288.780	
6,436.2	6,411.8	6,396.3	6,396.0	14.7	1.7	174.19	-4,216.7	436.4	4,513.6	4,497.8	15.71	287.247	
6,450.0	6,425.6	6,400.0	6,399.6	14.8	1.7	-6.02	-4,216.7	436.4	4,513.4	4,497.7	15.73	286.864	
6,496.0	6,471.5	6,441.6	6,441.3	14.8	1.7	-6.05	-4,216.6	436.9	4,511.1	4,495.2	15.83	284.951	
6,500.0	6,475.5	6,444.5	6,444.1	14.8	1.7	-6.05	-4,216.6	436.9	4,510.7	4,494.9	15.84	284.738	
6,550.0	6,525.1	6,480.7	6,480.4	14.9	1.7	-6.11	-4,216.7	437.3	4,504.8	4,488.8	16.00	281.575	
6,594.5	6,568.7	6,500.0	6,499.6	14.9	1.7	-6.19	-4,216.8	437.5	4,496.7	4,480.6	16.15	278.367	
6,600.0	6,574.1	6,500.0	6,499.6	14.9	1.7	-6.20	-4,216.8	437.5	4,495.5	4,479.4	16.17	277.970	
6,650.0	6,622.4	6,542.1	6,541.7	14.9	1.7	-6.34	-4,217.2	437.9	4,483.1	4,466.7	16.35	274.256	
6,692.9	6,663.0	6,566.2	6,565.8	14.9	1.7	-6.47	-4,217.5	438.2	4,469.9	4,453.5	16.48	271.272	
6,700.0	6,669.6	6,570.2	6,569.8	14.9	1.7	-6.50	-4,217.5	438.3	4,467.5	4,451.0	16.50	270.799	
6,750.0	6,715.6	6,600.0	6,599.6	14.9	1.7	-6.71	-4,218.1	438.7	4,448.9	4,432.3	16.62	267.689	
6,791.3	6,752.5	6,629.5	6,629.1	14.9	1.7	-6.92	-4,218.7	439.1	4,431.3	4,414.6	16.70	265.417	
6,800.0	6,760.1	6,636.3	6,635.9	14.9	1.7	-6.97	-4,218.9	439.2	4,427.3	4,410.6	16.71	264.962	
6,850.0	6,802.9	6,674.8	6,674.4	14.9	1.7	-7.30	-4,219.7	439.9	4,402.6	4,385.9	16.77	262.559	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
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
6,889.7	6,835.6	6,819.7	6,819.2	14.9	1.7	-7.78	-4,221.1	442.3	4,380.5	4,363.6	16.91	259.061	
6,900.0	6,843.8	6,825.8	6,825.4	14.9	1.7	-7.88	-4,221.1	442.4	4,374.4	4,357.5	16.91	258.640	
6,950.0	6,882.6	6,854.9	6,854.4	14.9	1.7	-8.38	-4,221.1	442.7	4,343.1	4,326.2	16.91	256.804	
6,988.2	6,910.7	6,876.0	6,875.5	15.0	1.7	-8.83	-4,221.1	442.8	4,317.5	4,300.6	16.89	255.610	
7,000.0	6,919.1	6,882.3	6,881.9	15.0	1.7	-8.99	-4,221.1	442.9	4,309.3	4,292.4	16.88	255.275	
7,050.0	6,953.1	6,912.1	6,911.7	15.0	1.7	-9.75	-4,221.2	443.1	4,273.0	4,256.2	16.83	253.864	
7,086.6	6,976.4	6,938.7	6,938.3	15.1	1.7	-10.44	-4,221.3	443.3	4,245.0	4,228.2	16.80	252.728	
7,100.0	6,984.5	6,948.1	6,947.6	15.1	1.7	-10.72	-4,221.3	443.4	4,234.5	4,217.7	16.78	252.314	
7,150.0	7,013.1	6,980.7	6,980.3	15.3	1.7	-11.95	-4,221.4	443.7	4,193.8	4,177.1	16.74	250.569	
7,185.0	7,031.4	7,000.0	6,999.6	15.4	1.7	-13.00	-4,221.4	443.8	4,164.2	4,147.5	16.72	249.096	
7,200.0	7,038.8	7,000.0	6,999.6	15.4	1.7	-13.47	-4,221.4	443.8	4,151.3	4,134.6	16.70	248.584	
7,250.0	7,061.4	7,022.5	7,022.1	15.6	1.7	-15.52	-4,221.5	444.0	4,107.1	4,090.4	16.73	245.553	
7,283.4	7,074.8	7,032.2	7,031.7	15.8	1.7	-17.24	-4,221.5	444.1	4,076.7	4,059.9	16.79	242.837	
7,300.0	7,080.9	7,036.6	7,036.2	15.9	1.7	-18.25	-4,221.5	444.2	4,061.4	4,044.6	16.84	241.221	
7,350.0	7,097.1	7,048.4	7,048.0	16.2	1.7	-22.12	-4,221.6	444.3	4,014.6	3,997.5	17.11	234.662	
7,381.9	7,105.7	7,054.8	7,054.3	16.4	1.7	-25.52	-4,221.6	444.3	3,984.2	3,966.8	17.41	228.857	
7,400.0	7,109.9	7,057.9	7,057.5	16.6	1.7	-27.92	-4,221.6	444.3	3,966.7	3,949.1	17.63	224.940	
7,450.0	7,119.4	7,065.0	7,064.6	17.0	1.7	-37.23	-4,221.7	444.4	3,918.1	3,899.5	18.53	211.466	
7,480.3	7,123.4	7,068.2	7,067.7	17.2	1.7	-45.80	-4,221.7	444.4	3,888.3	3,869.1	19.23	202.179	
7,500.0	7,125.4	7,069.7	7,069.2	17.4	1.7	-53.10	-4,221.7	444.4	3,868.9	3,849.2	19.66	196.800	
7,550.0	7,127.9	7,071.8	7,071.4	17.9	1.7	-79.01	-4,221.7	444.4	3,819.4	3,799.6	19.72	193.639	
7,562.9	7,128.0	7,072.0	7,071.5	18.0	1.7	-86.98	-4,221.7	444.4	3,806.6	3,787.1	19.56	194.660	
7,578.7	7,128.0	7,072.0	7,071.6	18.2	1.7	-86.99	-4,221.7	444.4	3,790.9	3,771.2	19.72	192.260	
7,600.0	7,127.9	7,072.1	7,071.7	18.4	1.7	-87.00	-4,221.7	444.4	3,769.8	3,749.8	19.94	189.100	
7,677.1	7,127.7	7,072.5	7,072.0	19.2	1.7	-87.04	-4,221.8	444.4	3,693.3	3,672.5	20.80	177.587	
7,700.0	7,127.7	7,072.6	7,072.1	19.5	1.7	-87.05	-4,221.8	444.4	3,670.6	3,649.6	21.05	174.358	
7,775.6	7,127.5	7,072.9	7,072.4	20.3	1.7	-87.09	-4,221.8	444.4	3,595.7	3,573.9	21.85	164.567	
7,800.0	7,127.5	7,073.0	7,072.5	20.5	1.7	-87.10	-4,221.8	444.4	3,571.5	3,549.4	22.11	161.553	
7,874.0	7,127.3	7,073.3	7,072.9	21.4	1.7	-87.14	-4,221.8	444.4	3,498.2	3,475.2	22.96	152.334	
7,900.0	7,127.2	7,073.4	7,073.0	21.7	1.7	-87.15	-4,221.8	444.4	3,472.5	3,449.2	23.27	149.256	
7,972.4	7,127.1	7,073.8	7,073.3	22.7	1.7	-87.19	-4,221.8	444.5	3,400.7	3,376.5	24.28	140.072	
8,000.0	7,127.0	7,073.9	7,073.4	23.1	1.7	-87.21	-4,221.8	444.5	3,373.5	3,348.8	24.66	136.774	
8,070.8	7,126.8	7,074.2	7,073.8	24.2	1.7	-87.24	-4,221.8	444.5	3,303.3	3,277.6	25.71	128.507	
8,100.0	7,126.8	7,074.3	7,073.9	24.6	1.7	-87.26	-4,221.8	444.5	3,274.5	3,248.4	26.13	125.298	
8,169.3	7,126.6	7,074.7	7,074.2	25.6	1.7	-87.30	-4,221.8	444.5	3,206.0	3,178.8	27.19	117.902	
8,200.0	7,126.6	7,074.8	7,074.4	26.1	1.7	-87.31	-4,221.8	444.5	3,175.6	3,148.0	27.66	114.803	
8,267.7	7,126.4	7,075.1	7,074.7	27.2	1.7	-87.35	-4,221.8	444.5	3,108.7	3,080.0	28.73	108.210	
8,300.0	7,126.3	7,075.3	7,074.8	27.7	1.7	-87.37	-4,221.8	444.5	3,076.8	3,047.6	29.24	105.234	
8,366.1	7,126.2	7,085.0	7,084.6	28.8	1.7	-88.53	-4,221.9	444.5	3,011.6	2,981.3	30.30	99.393	
8,400.0	7,126.1	7,085.0	7,084.6	29.3	1.7	-88.53	-4,221.9	444.5	2,978.1	2,947.3	30.85	96.543	
8,464.5	7,126.0	7,085.0	7,084.6	30.4	1.7	-88.53	-4,221.9	444.5	2,914.4	2,882.5	31.91	91.319	
8,500.0	7,125.9	7,085.0	7,084.6	31.0	1.7	-88.53	-4,221.9	444.5	2,879.5	2,847.0	32.50	88.597	
8,563.0	7,125.7	7,085.0	7,084.6	32.0	1.7	-88.53	-4,221.9	444.5	2,817.4	2,783.9	33.56	83.951	
8,600.0	7,125.6	7,085.0	7,084.6	32.6	1.7	-88.53	-4,221.9	444.5	2,780.9	2,746.8	34.18	81.354	
8,661.4	7,125.5	7,085.0	7,084.6	33.7	1.7	-88.53	-4,221.9	444.5	2,720.5	2,685.3	35.23	77.218	
8,700.0	7,125.4	7,085.0	7,084.6	34.4	1.7	-88.53	-4,221.9	444.5	2,682.5	2,646.6	35.89	74.742	
8,759.8	7,125.3	7,085.0	7,084.6	35.4	1.7	-88.53	-4,221.9	444.5	2,623.7	2,586.8	36.92	71.055	
8,800.0	7,125.2	7,085.0	7,084.6	36.1	1.7	-88.53	-4,221.9	444.5	2,584.2	2,546.6	37.62	68.694	
8,858.2	7,125.1	7,085.0	7,084.6	37.1	1.7	-88.53	-4,221.9	444.5	2,527.0	2,488.4	38.64	65.404	
8,900.0	7,125.0	7,085.0	7,084.6	37.8	1.7	-88.53	-4,221.9	444.5	2,486.0	2,446.7	39.37	63.152	
8,956.7	7,124.8	7,085.0	7,084.6	38.8	1.7	-88.53	-4,221.9	444.5	2,430.4	2,390.1	40.36	60.212	
9,000.0	7,124.7	7,085.0	7,084.6	39.6	1.7	-88.53	-4,221.9	444.5	2,388.0	2,346.9	41.13	58.062	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
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
9,055.1	7,124.6	7,085.0	7,084.6	40.6	1.7	-88.53	-4,221.9	444.5	2,334.1	2,291.9	42.11	55.431	
9,100.0	7,124.5	7,085.0	7,084.6	41.4	1.7	-88.53	-4,221.9	444.5	2,290.1	2,247.2	42.91	53.377	
9,153.5	7,124.4	7,085.0	7,084.6	42.3	1.7	-88.53	-4,221.9	444.5	2,237.8	2,194.0	43.86	51.019	
9,200.0	7,124.3	7,085.0	7,084.6	43.2	1.7	-88.53	-4,221.9	444.5	2,192.5	2,147.8	44.69	49.055	
9,251.9	7,124.2	7,085.0	7,084.6	44.1	1.7	-88.53	-4,221.9	444.5	2,141.8	2,096.2	45.63	46.940	
9,300.0	7,124.1	7,085.0	7,084.6	45.0	1.7	-88.52	-4,221.9	444.5	2,095.0	2,048.5	46.49	45.060	
9,350.4	7,123.9	7,085.0	7,084.6	45.9	1.7	-88.52	-4,221.9	444.5	2,046.0	1,998.6	47.41	43.160	
9,400.0	7,123.8	7,085.0	7,084.6	46.8	1.7	-88.52	-4,221.9	444.5	1,997.8	1,949.5	48.30	41.360	
9,448.8	7,123.7	7,085.0	7,084.6	47.7	1.7	-88.52	-4,221.9	444.5	1,950.5	1,901.3	49.19	39.653	
9,500.0	7,123.6	7,085.0	7,084.6	48.6	1.7	-88.52	-4,221.9	444.5	1,900.9	1,850.8	50.12	37.927	
9,547.2	7,123.5	7,085.0	7,084.6	49.4	1.7	-88.52	-4,221.9	444.5	1,855.3	1,804.3	50.98	36.391	
9,600.0	7,123.4	7,085.0	7,084.6	50.4	1.7	-88.52	-4,221.9	444.5	1,804.4	1,752.4	51.95	34.736	
9,645.6	7,123.3	7,085.0	7,084.6	51.2	1.7	-88.52	-4,221.9	444.5	1,760.4	1,707.7	52.78	33.353	
9,700.0	7,123.2	7,085.0	7,084.6	52.2	1.7	-88.52	-4,221.9	444.5	1,708.2	1,654.4	53.78	31.764	
9,744.1	7,123.1	7,085.0	7,084.6	53.1	1.7	-88.52	-4,221.9	444.5	1,666.0	1,611.4	54.59	30.519	
9,800.0	7,122.9	7,085.0	7,084.6	54.1	1.7	-88.52	-4,221.9	444.5	1,612.5	1,556.9	55.62	28.994	
9,842.5	7,122.8	7,085.0	7,084.6	54.9	1.7	-88.52	-4,221.9	444.5	1,572.0	1,515.6	56.40	27.873	
9,900.0	7,122.7	7,085.0	7,084.6	55.9	1.7	-88.52	-4,221.9	444.5	1,517.4	1,459.9	57.46	26.408	
9,940.9	7,122.6	7,085.0	7,084.6	56.7	1.7	-88.52	-4,221.9	444.5	1,478.6	1,420.4	58.22	25.399	
10,000.0	7,122.5	7,085.0	7,084.6	57.8	1.7	-88.52	-4,221.9	444.5	1,422.9	1,363.6	59.31	23.992	
10,039.3	7,122.4	7,085.0	7,084.6	58.5	1.7	-88.52	-4,221.9	444.5	1,385.9	1,325.9	60.04	23.085	
10,100.0	7,122.3	7,085.0	7,084.6	59.6	1.7	-88.52	-4,221.9	444.5	1,329.2	1,268.1	61.16	21.734	
10,137.8	7,122.2	7,085.0	7,084.6	60.3	1.7	-88.52	-4,221.9	444.5	1,294.1	1,232.2	61.86	20.919	
10,200.0	7,122.0	7,085.0	7,084.6	61.5	1.7	-88.52	-4,221.9	444.5	1,236.6	1,173.6	63.02	19.623	
10,236.2	7,121.9	7,085.0	7,084.6	62.2	1.7	-88.52	-4,221.9	444.5	1,203.3	1,139.6	63.69	18.893	
10,300.0	7,121.8	7,085.0	7,084.6	63.3	1.7	-88.52	-4,221.9	444.5	1,145.1	1,080.3	64.88	17.650	
10,334.6	7,121.7	7,085.0	7,084.6	64.0	1.7	-88.52	-4,221.9	444.5	1,113.8	1,048.3	65.52	16.999	
10,400.0	7,121.6	7,085.0	7,084.6	65.2	1.7	-88.52	-4,221.9	444.5	1,055.2	988.5	66.74	15.811	
10,433.0	7,121.5	7,085.0	7,084.6	65.8	1.7	-88.52	-4,221.9	444.5	1,025.9	958.6	67.36	15.231	
10,500.0	7,121.4	7,085.0	7,084.6	67.1	1.7	-88.52	-4,221.9	444.5	967.3	898.7	68.61	14.099	
10,531.5	7,121.3	7,085.0	7,084.6	67.7	1.7	-88.52	-4,221.9	444.5	940.2	871.0	69.20	13.587	
10,600.0	7,121.1	7,085.0	7,084.6	69.0	1.7	-88.52	-4,221.9	444.5	882.0	811.5	70.48	12.515	
10,629.9	7,121.1	7,085.0	7,084.6	69.5	1.7	-88.52	-4,221.9	444.5	857.1	786.1	71.04	12.066	
10,700.0	7,120.9	7,085.0	7,084.6	70.8	1.7	-88.52	-4,221.9	444.5	800.1	727.8	72.35	11.059	
10,728.3	7,120.8	7,085.0	7,084.6	71.4	1.7	-88.52	-4,221.9	444.5	777.7	704.8	72.88	10.670	
10,800.0	7,120.7	7,085.0	7,084.6	72.7	1.7	-88.52	-4,221.9	444.5	722.8	648.5	74.23	9.737	
10,826.7	7,120.6	7,085.0	7,084.6	73.2	1.7	-88.52	-4,221.9	444.5	703.1	628.3	74.73	9.408	
10,900.0	7,120.5	7,085.0	7,084.6	74.6	1.7	-88.52	-4,221.9	444.5	651.6	575.5	76.10	8.562	
10,925.2	7,120.4	7,085.0	7,084.6	75.1	1.7	-88.52	-4,221.9	444.5	634.9	558.4	76.58	8.292	
11,000.0	7,120.2	7,085.0	7,084.6	76.5	1.7	-88.52	-4,221.9	444.5	588.9	510.9	77.98	7.552	
11,023.6	7,120.2	7,085.0	7,084.6	76.9	1.7	-88.52	-4,221.9	444.5	575.7	497.2	78.43	7.340	
11,100.0	7,120.0	7,085.0	7,084.6	78.3	1.7	-88.52	-4,221.9	444.5	537.6	457.8	79.86	6.732	
11,122.0	7,120.0	7,085.0	7,084.6	78.8	1.7	-88.52	-4,221.9	444.5	528.2	447.9	80.28	6.580	
11,200.0	7,119.8	7,085.0	7,084.6	80.2	1.7	-88.52	-4,221.9	444.5	501.3	419.5	81.75	6.132	
11,220.4	7,119.7	7,085.0	7,084.6	80.6	1.7	-88.52	-4,221.9	444.5	496.0	413.9	82.13	6.039	
11,300.0	7,119.5	7,085.0	7,084.6	82.1	1.7	-88.52	-4,221.9	444.5	483.2	399.6	83.63	5.778	
11,318.9	7,119.5	7,085.0	7,084.6	82.5	1.7	-88.52	-4,221.9	444.5	482.0	398.1	83.99	5.739	
11,338.9	7,119.5	7,085.0	7,084.6	82.8	1.7	-88.52	-4,221.9	444.5	481.6	397.3	84.37	5.709 CC, ES	
11,400.0	7,119.3	7,085.0	7,084.6	84.0	1.7	-88.52	-4,221.9	444.5	485.5	400.0	85.52	5.677 SF	
11,417.3	7,119.3	7,085.0	7,084.6	84.3	1.7	-88.52	-4,221.9	444.5	488.0	402.1	85.85	5.684	
11,500.0	7,119.1	7,085.0	7,084.6	85.9	1.7	-88.52	-4,221.9	444.5	507.9	420.4	87.41	5.810	
11,515.7	7,119.1	7,085.0	7,084.6	86.2	1.7	-88.52	-4,221.9	444.5	513.1	425.4	87.70	5.850	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,600.0	7,118.9	7,085.0	7,084.6	87.8	1.7	-88.52	-4,221.9	444.5	547.8	458.5	89.30	6.135	
11,614.1	7,118.8	7,085.0	7,084.6	88.0	1.7	-88.52	-4,221.9	444.5	554.7	465.2	89.56	6.194	
11,700.0	7,118.6	7,085.0	7,084.6	89.7	1.7	-88.52	-4,221.9	444.5	602.0	510.8	91.19	6.601	
11,712.6	7,118.6	7,085.0	7,084.6	89.9	1.7	-88.52	-4,221.9	444.5	609.6	518.2	91.42	6.668	
11,800.0	7,118.4	7,085.0	7,084.6	91.6	1.7	-88.52	-4,221.9	444.5	666.8	573.7	93.08	7.163	
11,811.0	7,118.4	7,085.0	7,084.6	91.8	1.7	-88.52	-4,221.9	444.5	674.4	581.1	93.29	7.229	
11,900.0	7,118.2	7,085.0	7,084.6	93.4	1.7	-88.52	-4,221.9	444.5	739.4	644.5	94.97	7.786	
11,909.4	7,118.2	7,085.0	7,084.6	93.6	1.7	-88.52	-4,221.9	444.5	746.6	651.5	95.15	7.847	
12,000.0	7,118.0	7,085.0	7,084.6	95.3	1.7	-88.52	-4,221.9	444.5	817.9	721.1	96.86	8.444	
12,007.8	7,118.0	7,085.0	7,084.6	95.5	1.7	-88.52	-4,221.9	444.5	824.3	727.3	97.01	8.497	
12,100.0	7,117.8	7,085.0	7,084.6	97.2	1.7	-88.52	-4,221.9	444.5	900.7	801.9	98.76	9.120	
12,106.3	7,117.7	7,085.0	7,084.6	97.4	1.7	-88.52	-4,221.9	444.5	906.0	807.1	98.88	9.163	
12,200.0	7,117.5	7,085.0	7,084.6	99.1	1.7	-88.52	-4,221.9	444.5	986.6	886.0	100.66	9.802	
12,204.7	7,117.5	7,085.0	7,084.6	99.2	1.7	-88.52	-4,221.9	444.5	990.7	890.0	100.74	9.834	
12,300.0	7,117.3	7,085.0	7,084.6	101.0	1.7	-88.52	-4,221.9	444.5	1,075.0	972.5	102.55	10.483	
12,303.1	7,117.3	7,085.0	7,084.6	101.1	1.7	-88.52	-4,221.9	444.5	1,077.8	975.2	102.61	10.504	
12,400.0	7,117.1	7,085.0	7,084.6	102.9	1.7	-88.52	-4,221.9	444.5	1,165.3	1,060.8	104.45	11.156	
12,401.5	7,117.1	7,085.0	7,084.6	103.0	1.7	-88.52	-4,221.9	444.5	1,166.7	1,062.2	104.48	11.167	
12,500.0	7,116.9	7,085.0	7,084.6	104.8	1.7	-88.52	-4,221.9	444.5	1,257.0	1,150.7	106.35	11.820	
12,598.4	7,116.6	7,085.0	7,084.6	106.7	1.7	-88.52	-4,221.9	444.5	1,348.4	1,240.2	108.22	12.460	
12,600.0	7,116.6	7,085.0	7,084.6	106.7	1.7	-88.52	-4,221.9	444.5	1,349.9	1,241.7	108.25	12.471	
12,696.8	7,116.4	7,085.0	7,084.6	108.6	1.7	-88.52	-4,221.9	444.5	1,440.8	1,330.7	110.09	13.088	
12,700.0	7,116.4	7,085.0	7,084.6	108.6	1.7	-88.52	-4,221.9	444.5	1,443.8	1,333.6	110.15	13.108	
12,795.2	7,116.2	7,085.0	7,084.6	110.4	1.7	-88.52	-4,221.9	444.5	1,533.9	1,421.9	111.96	13.701	
12,800.0	7,116.2	7,085.0	7,084.6	110.5	1.7	-88.52	-4,221.9	444.5	1,538.4	1,426.4	112.05	13.730	
12,893.7	7,116.0	7,085.0	7,084.6	112.3	1.7	-88.52	-4,221.9	444.5	1,627.6	1,513.8	113.83	14.299	
12,900.0	7,116.0	7,085.0	7,084.6	112.4	1.7	-88.52	-4,221.9	444.5	1,633.7	1,519.7	113.95	14.337	
12,992.1	7,115.7	7,085.0	7,084.6	114.2	1.7	-88.52	-4,221.9	444.5	1,721.9	1,606.2	115.70	14.883	
13,000.0	7,115.7	7,085.0	7,084.6	114.3	1.7	-88.52	-4,221.9	444.5	1,729.5	1,613.6	115.85	14.929	
13,090.5	7,115.5	7,085.0	7,084.6	116.1	1.7	-88.52	-4,221.9	444.5	1,816.6	1,699.0	117.57	15.451	
13,100.0	7,115.5	7,085.0	7,084.6	116.2	1.7	-88.52	-4,221.9	444.5	1,825.7	1,708.0	117.75	15.505	
13,188.9	7,115.3	7,085.0	7,084.6	117.9	1.7	-88.52	-4,221.9	444.5	1,911.7	1,792.2	119.44	16.005	
13,200.0	7,115.3	7,085.0	7,084.6	118.1	1.7	-88.52	-4,221.9	444.5	1,922.4	1,802.7	119.65	16.066	
13,287.4	7,115.1	7,085.0	7,084.6	119.8	1.7	-88.52	-4,221.9	444.5	2,007.1	1,885.8	121.32	16.544	
13,300.0	7,115.1	7,085.0	7,084.6	120.0	1.7	-88.52	-4,221.9	444.5	2,019.4	1,897.8	121.56	16.612	
13,385.8	7,114.9	7,085.0	7,084.6	121.7	1.7	-88.52	-4,221.9	444.5	2,102.8	1,979.6	123.19	17.069	
13,400.0	7,114.8	7,085.0	7,084.6	121.9	1.7	-88.52	-4,221.9	444.5	2,116.6	1,993.1	123.46	17.144	
13,484.2	7,114.6	7,085.0	7,084.6	123.6	1.7	-88.52	-4,221.9	444.5	2,198.7	2,073.6	125.07	17.580	
13,500.0	7,114.6	7,085.0	7,084.6	123.9	1.7	-88.53	-4,221.9	444.5	2,214.1	2,088.7	125.37	17.661	
13,582.6	7,114.4	7,085.0	7,084.6	125.4	1.7	-88.53	-4,221.9	444.5	2,294.8	2,167.9	126.94	18.078	
13,600.0	7,114.4	7,085.0	7,084.6	125.8	1.7	-88.53	-4,221.9	444.5	2,311.8	2,184.5	127.27	18.164	
13,681.1	7,114.2	7,085.0	7,084.6	127.3	1.7	-88.53	-4,221.9	444.5	2,391.2	2,262.3	128.82	18.563	
13,700.0	7,114.2	7,085.0	7,084.6	127.7	1.7	-88.53	-4,221.9	444.5	2,409.7	2,280.5	129.18	18.654	
13,779.5	7,114.0	7,085.0	7,084.6	129.2	1.7	-88.53	-4,221.9	444.5	2,487.6	2,357.0	130.69	19.035	
13,800.0	7,113.9	7,085.0	7,084.6	129.6	1.7	-88.53	-4,221.9	444.5	2,507.8	2,376.7	131.08	19.131	
13,877.9	7,113.8	7,085.0	7,084.6	131.1	1.7	-88.53	-4,221.9	444.5	2,584.3	2,451.7	132.57	19.494	
13,900.0	7,113.7	7,085.0	7,084.6	131.5	1.7	-88.53	-4,221.9	444.5	2,606.0	2,473.0	132.99	19.596	
13,976.3	7,113.5	7,085.0	7,084.6	132.9	1.7	-88.53	-4,221.9	444.5	2,681.0	2,546.6	134.44	19.942	
14,000.0	7,113.5	7,085.0	7,084.6	133.4	1.7	-88.53	-4,221.9	444.5	2,704.3	2,569.4	134.89	20.048	
14,074.8	7,113.3	7,085.0	7,084.6	134.8	1.7	-88.53	-4,221.9	444.5	2,777.9	2,641.6	136.32	20.378	
14,100.0	7,113.3	7,085.0	7,084.6	135.3	1.7	-88.53	-4,221.9	444.5	2,802.8	2,666.0	136.80	20.488	
14,173.2	7,113.1	7,085.0	7,084.6	136.7	1.7	-88.53	-4,221.9	444.5	2,874.9	2,736.7	138.20	20.803	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 100-GYD_CT												<b>Offset Well Error:</b>	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
14,200.0	7,113.0	7,085.0	7,084.6	137.2	1.7	-88.53	-4,221.9	444.5	2,901.3	2,762.6	138.71	20.917	
14,219.1	7,113.0	7,085.0	7,084.6	137.6	1.7	-88.53	-4,221.9	444.5	2,920.2	2,781.1	139.07	20.998	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - 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									
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	-178.04	-3,657.6	-125.5	3,660.0				
98.4	98.4	63.5	63.5	0.1	0.0	-178.03	-3,657.6	-125.6	3,659.8	3,659.6	0.14	N/A	
100.0	100.0	65.1	65.1	0.1	0.1	-178.03	-3,657.6	-125.6	3,659.8	3,659.6	0.15	N/A	
163.5	163.5	127.0	127.0	0.2	0.1	-178.03	-3,657.6	-125.8	3,659.7	3,659.4	0.36	N/A	
196.8	196.8	157.5	157.5	0.3	0.2	-178.03	-3,657.6	-126.0	3,659.8	3,659.3	0.47	7,718.291	
200.0	200.0	160.4	160.4	0.3	0.2	-178.03	-3,657.6	-126.0	3,659.8	3,659.3	0.49	7,540.524	
295.3	295.3	288.6	288.6	0.5	0.3	-178.01	-3,657.3	-127.0	3,659.7	3,658.8	0.82	4,489.089	
300.0	300.0	296.6	296.6	0.5	0.3	-178.01	-3,657.3	-127.1	3,659.6	3,658.8	0.83	4,402.564	
393.7	393.7	387.8	387.8	0.8	0.4	-178.00	-3,656.4	-127.9	3,658.8	3,657.7	1.11	3,309.760	
400.0	400.0	393.8	393.8	0.8	0.4	-178.00	-3,656.4	-128.0	3,658.7	3,657.6	1.12	3,255.620	
492.1	492.1	523.8	523.8	1.0	0.4	-177.99	-3,654.6	-128.5	3,657.5	3,656.1	1.40	2,611.541	
500.0	500.0	532.9	532.8	1.0	0.4	-177.99	-3,654.4	-128.4	3,657.3	3,655.9	1.42	2,569.531	
590.5	590.5	629.4	629.3	1.2	0.5	-177.99	-3,652.4	-128.2	3,655.5	3,653.8	1.68	2,175.625	
600.0	600.0	638.0	638.0	1.2	0.5	-177.99	-3,652.3	-128.2	3,655.3	3,653.6	1.71	2,142.723	
689.0	689.0	725.0	725.0	1.4	0.5	-177.99	-3,650.6	-127.9	3,653.5	3,651.6	1.95	1,873.603	
700.0	700.0	738.0	738.0	1.4	0.5	-178.00	-3,650.3	-127.8	3,653.3	3,651.3	1.98	1,844.124	
787.4	787.4	835.9	835.8	1.6	0.6	-178.01	-3,648.2	-126.9	3,651.4	3,649.1	2.22	1,641.702	
800.0	800.0	848.9	848.7	1.7	0.6	-178.01	-3,647.9	-126.8	3,651.1	3,648.8	2.26	1,616.587	
885.8	885.8	932.6	932.5	1.9	0.6	-178.02	-3,645.9	-126.4	3,649.1	3,646.6	2.49	1,465.713	
900.0	900.0	945.4	945.3	1.9	0.6	-178.02	-3,645.6	-126.3	3,648.7	3,646.2	2.53	1,443.844	
984.2	984.2	1,026.3	1,026.1	2.1	0.7	-178.03	-3,643.9	-125.5	3,646.9	3,644.2	2.75	1,325.253	
1,000.0	1,000.0	1,043.7	1,043.6	2.1	0.7	-178.03	-3,643.5	-125.4	3,646.6	3,643.8	2.79	1,304.761	
1,082.7	1,082.7	1,136.2	1,136.1	2.3	0.7	-178.04	-3,641.4	-124.4	3,644.7	3,641.6	3.02	1,206.668	
1,100.0	1,100.0	1,155.9	1,155.7	2.3	0.7	-178.05	-3,640.9	-124.1	3,644.2	3,641.2	3.07	1,187.916	
1,181.1	1,181.1	1,246.9	1,246.6	2.5	0.8	-178.06	-3,638.5	-123.2	3,642.1	3,638.8	3.29	1,107.532	
1,200.0	1,200.0	1,267.9	1,267.7	2.6	0.8	-178.06	-3,638.0	-123.1	3,641.5	3,638.2	3.34	1,090.372	
1,279.5	1,279.5	1,347.6	1,347.3	2.7	0.8	-178.07	-3,635.7	-122.6	3,639.2	3,635.7	3.55	1,024.748	
1,300.0	1,300.0	1,366.8	1,366.6	2.8	0.8	-178.07	-3,635.1	-122.6	3,638.6	3,635.0	3.61	1,009.269	
1,377.6	1,377.6	1,439.3	1,439.0	3.0	0.8	-173.79	-3,633.1	-122.5	3,637.5	3,633.7	3.81	955.306	
1,377.9	1,377.9	1,439.7	1,439.3	3.0	0.8	-173.79	-3,633.1	-122.5	3,637.5	3,633.7	3.81	955.071	
1,400.0	1,400.0	1,460.1	1,459.8	3.0	0.9	-173.79	-3,632.5	-122.4	3,637.6	3,633.8	3.87	940.926	
1,476.4	1,476.3	1,536.6	1,536.2	3.2	0.9	-173.79	-3,630.6	-122.4	3,639.3	3,635.2	4.07	894.351	
1,500.0	1,499.8	1,562.4	1,562.0	3.2	0.9	-173.79	-3,629.9	-122.4	3,640.2	3,636.1	4.13	880.815	
1,574.8	1,574.4	1,646.1	1,645.8	3.4	0.9	-173.79	-3,627.5	-122.7	3,644.2	3,639.9	4.34	840.373	
1,600.0	1,599.5	1,674.9	1,674.5	3.5	0.9	-173.79	-3,626.6	-122.9	3,646.0	3,641.6	4.40	827.710	
1,673.2	1,672.2	1,744.1	1,743.6	3.6	1.0	-173.78	-3,624.5	-123.4	3,652.3	3,647.7	4.60	793.790	
1,700.0	1,698.7	1,767.0	1,766.6	3.7	1.0	-173.78	-3,623.8	-123.6	3,655.1	3,650.4	4.67	782.354	
1,771.6	1,769.5	1,822.7	1,822.3	3.9	1.0	-173.76	-3,622.3	-124.0	3,664.0	3,659.1	4.86	753.421	
1,800.0	1,797.5	1,842.1	1,841.7	4.0	1.0	-173.76	-3,621.8	-124.2	3,668.1	3,663.2	4.94	742.811	
1,870.1	1,866.3	1,900.0	1,899.5	4.2	1.0	-173.74	-3,620.7	-124.7	3,679.7	3,674.6	5.13	717.107	
1,900.1	1,895.8	1,913.9	1,913.4	4.3	1.0	-173.73	-3,620.5	-124.9	3,685.3	3,680.1	5.21	707.442	
1,968.5	1,962.6	1,976.2	1,975.7	4.5	1.0	-173.74	-3,619.6	-125.7	3,698.5	3,693.1	5.40	685.323	
2,000.0	1,993.4	2,005.6	2,005.1	4.6	1.1	-173.74	-3,619.2	-126.1	3,704.6	3,699.2	5.48	675.726	
2,066.9	2,058.9	2,075.3	2,074.8	4.8	1.1	-173.75	-3,618.2	-127.1	3,717.6	3,711.9	5.67	655.701	
2,100.0	2,091.3	2,107.8	2,107.3	4.9	1.1	-173.76	-3,617.8	-127.6	3,724.0	3,718.2	5.76	646.855	
2,165.3	2,155.2	2,162.3	2,161.7	5.1	1.1	-173.76	-3,617.0	-128.3	3,736.7	3,730.7	5.93	629.841	
2,200.0	2,189.1	2,191.1	2,190.6	5.3	1.1	-173.77	-3,616.7	-128.7	3,743.5	3,737.4	6.03	620.865	
2,263.8	2,251.4	2,241.2	2,240.7	5.5	1.1	-173.78	-3,616.3	-129.3	3,756.1	3,749.9	6.20	605.553	
2,300.0	2,286.9	2,269.3	2,268.8	5.6	1.1	-173.78	-3,616.1	-129.8	3,763.4	3,757.1	6.30	597.216	
2,362.2	2,347.7	2,319.3	2,318.7	5.9	1.2	-173.78	-3,615.9	-130.7	3,776.1	3,769.6	6.47	583.504	
2,400.0	2,384.7	2,351.6	2,351.0	6.0	1.2	-173.78	-3,615.8	-131.4	3,783.8	3,777.2	6.57	575.524	
2,460.6	2,444.0	2,400.0	2,399.4	6.3	1.2	-173.79	-3,615.8	-132.2	3,796.4	3,789.6	6.74	563.303	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,482.5	2,432.8	2,432.2	6.4	1.2	-173.79	-3,615.9	-132.8	3,804.6	3,797.8	6.85	555.695	
2,559.0	2,540.3	2,477.6	2,477.0	6.6	1.2	-173.79	-3,616.1	-133.7	3,817.1	3,810.1	7.01	544.893	
2,600.0	2,580.3	2,500.0	2,499.4	6.8	1.2	-173.79	-3,616.3	-134.2	3,825.9	3,818.8	7.12	537.726	
2,617.6	2,597.5	2,523.0	2,522.4	6.9	1.2	-173.79	-3,616.5	-134.7	3,829.7	3,822.6	7.16	534.583	
2,657.5	2,636.6	2,554.7	2,554.1	7.0	1.2	-173.81	-3,616.8	-135.3	3,838.1	3,830.9	7.25	529.050	
2,700.0	2,678.4	2,588.6	2,588.0	7.2	1.2	-173.83	-3,617.2	-136.0	3,846.6	3,839.2	7.35	523.257	
2,755.9	2,733.5	2,650.2	2,649.6	7.3	1.2	-173.85	-3,618.0	-137.1	3,856.8	3,849.3	7.46	516.970	
2,800.0	2,777.0	2,700.0	2,699.3	7.4	1.2	-173.86	-3,618.5	-138.2	3,864.0	3,856.4	7.55	512.112	
2,854.3	2,830.9	2,744.7	2,744.0	7.6	1.2	-173.88	-3,619.0	-139.1	3,872.0	3,864.3	7.65	506.426	
2,900.0	2,876.2	2,780.5	2,779.8	7.7	1.2	-173.89	-3,619.5	-139.9	3,878.0	3,870.3	7.73	501.742	
2,952.7	2,928.7	2,834.7	2,834.0	7.8	1.3	-173.89	-3,620.3	-141.0	3,884.1	3,876.3	7.82	496.425	
3,000.0	2,975.8	2,893.8	2,893.1	7.9	1.3	-173.89	-3,621.1	-142.3	3,888.7	3,880.8	7.91	491.630	
3,051.2	3,026.8	2,942.5	2,941.7	8.0	1.3	-173.89	-3,621.6	-143.4	3,892.8	3,884.8	8.00	486.705	
3,100.0	3,075.6	2,987.3	2,986.6	8.1	1.3	-173.89	-3,622.2	-144.2	3,895.8	3,887.7	8.08	482.045	
3,149.6	3,125.2	3,029.2	3,028.5	8.2	1.3	-173.88	-3,622.8	-145.0	3,898.1	3,889.9	8.16	477.483	
3,200.0	3,175.6	3,070.3	3,069.6	8.3	1.3	-173.87	-3,623.4	-145.8	3,899.7	3,891.4	8.25	472.891	
3,217.7	3,193.3	3,084.8	3,084.1	8.3	1.3	-178.16	-3,623.7	-146.0	3,900.1	3,891.8	8.27	471.344	
3,248.0	3,223.6	3,114.5	3,113.7	8.4	1.3	-178.15	-3,624.2	-146.6	3,900.7	3,892.3	8.34	467.936	
3,300.0	3,275.6	3,178.8	3,178.0	8.5	1.3	-178.13	-3,625.3	-147.7	3,901.5	3,893.1	8.44	462.137	
3,346.4	3,322.0	3,231.0	3,230.2	8.6	1.3	-178.12	-3,626.0	-148.4	3,902.2	3,893.7	8.55	456.607	
3,400.0	3,375.6	3,287.7	3,286.9	8.7	1.3	-178.11	-3,626.8	-149.1	3,903.0	3,894.3	8.67	450.404	
3,444.9	3,420.4	3,330.4	3,329.5	8.7	1.3	-178.10	-3,627.4	-149.7	3,903.6	3,894.8	8.77	445.338	
3,500.0	3,475.6	3,380.8	3,379.9	8.8	1.3	-178.09	-3,628.1	-150.3	3,904.4	3,895.5	8.89	439.285	
3,543.3	3,518.9	3,429.3	3,428.4	8.9	1.3	-178.09	-3,628.8	-150.8	3,905.0	3,896.0	8.99	434.595	
3,600.0	3,575.6	3,500.0	3,499.2	9.0	1.4	-178.08	-3,629.6	-151.5	3,905.7	3,896.6	9.11	428.551	
3,641.7	3,617.3	3,539.4	3,538.6	9.1	1.4	-178.07	-3,630.0	-151.8	3,906.1	3,896.9	9.21	424.235	
3,700.0	3,675.6	3,590.8	3,590.0	9.2	1.4	-178.07	-3,630.5	-152.3	3,906.8	3,897.4	9.34	418.378	
3,740.1	3,715.7	3,629.3	3,628.5	9.3	1.4	-178.06	-3,631.0	-152.6	3,907.3	3,897.9	9.43	414.463	
3,800.0	3,775.6	3,688.4	3,687.5	9.4	1.4	-178.06	-3,631.8	-152.8	3,908.1	3,898.5	9.56	408.779	
3,838.6	3,814.1	3,732.4	3,731.5	9.5	1.4	-178.06	-3,632.4	-152.7	3,908.6	3,898.9	9.65	405.135	
3,900.0	3,875.6	3,800.0	3,799.1	9.6	1.4	-178.06	-3,633.1	-152.5	3,909.2	3,899.4	9.79	399.437	
3,937.0	3,912.6	3,834.6	3,833.7	9.7	1.4	-178.07	-3,633.4	-152.4	3,909.6	3,899.7	9.87	396.093	
4,000.0	3,975.6	3,885.9	3,885.0	9.8	1.4	-178.07	-3,634.0	-152.4	3,910.3	3,900.3	10.01	390.572	
4,035.4	4,011.0	3,922.3	3,921.4	9.9	1.4	-178.07	-3,634.6	-152.4	3,910.8	3,900.8	10.09	387.507	
4,100.0	4,075.6	4,001.7	4,000.8	10.0	1.4	-178.07	-3,635.5	-152.2	3,911.6	3,901.4	10.24	381.978	
4,133.8	4,109.4	4,037.6	4,036.7	10.0	1.4	-178.07	-3,635.8	-152.0	3,911.9	3,901.6	10.32	379.142	
4,200.0	4,175.6	4,108.3	4,107.4	10.2	1.4	-178.07	-3,636.5	-151.9	3,912.5	3,902.0	10.47	373.710	
4,232.3	4,207.8	4,145.5	4,144.6	10.2	1.4	-178.08	-3,636.7	-151.9	3,912.7	3,902.2	10.54	371.086	
4,300.0	4,275.6	4,224.1	4,223.2	10.4	1.4	-178.08	-3,637.2	-151.8	3,913.1	3,902.4	10.70	365.693	
4,330.7	4,306.3	4,260.3	4,259.4	10.4	1.4	-178.08	-3,637.3	-151.7	3,913.2	3,902.4	10.77	363.297	
4,400.0	4,375.6	4,340.7	4,339.8	10.6	1.4	-178.08	-3,637.4	-151.3	3,913.3	3,902.4	10.93	358.030	
4,429.1	4,404.7	4,374.0	4,373.1	10.6	1.4	-178.09	-3,637.4	-151.3	3,913.3	3,902.3	11.00	355.871	
4,500.0	4,475.6	4,440.3	4,439.4	10.8	1.4	-178.09	-3,637.3	-151.3	3,913.2	3,902.0	11.15	350.854	
4,502.4	4,477.9	4,442.3	4,441.4	10.8	1.4	-178.09	-3,637.3	-151.3	3,913.2	3,902.0	11.16	350.690	
4,527.5	4,503.1	4,463.4	4,462.5	10.8	1.4	-178.09	-3,637.3	-151.3	3,913.2	3,902.0	11.21	348.967	
4,600.0	4,575.6	4,531.8	4,530.9	11.0	1.4	-178.08	-3,637.5	-151.3	3,913.4	3,902.0	11.37	344.069	
4,626.0	4,601.5	4,560.5	4,559.6	11.0	1.4	-178.09	-3,637.5	-151.2	3,913.4	3,902.0	11.43	342.321	
4,700.0	4,675.6	4,660.3	4,659.4	11.2	1.4	-178.09	-3,637.4	-151.1	3,913.3	3,901.7	11.60	337.438	
4,724.4	4,700.0	4,698.7	4,697.8	11.2	1.4	-178.08	-3,637.1	-151.4	3,913.2	3,901.5	11.65	335.850	
4,800.0	4,775.6	4,802.8	4,801.8	11.4	1.5	-178.05	-3,635.8	-153.4	3,912.2	3,900.4	11.84	330.524	
4,822.8	4,798.4	4,840.7	4,839.8	11.4	1.5	-178.04	-3,635.1	-154.4	3,911.8	3,899.9	11.89	328.895	
4,900.0	4,875.6	4,942.9	4,941.9	11.6	1.5	-178.00	-3,632.5	-157.0	3,909.9	3,897.8	12.08	323.588	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - 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									
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
4,921.2	4,896.8	4,964.9	4,963.8	11.6	1.5	-177.99	-3,631.9	-157.5	3,909.4	3,897.2	12.13	322.181	
5,000.0	4,975.6	5,054.4	5,053.3	11.8	1.5	-177.96	-3,629.4	-159.5	3,907.2	3,894.9	12.32	317.019	
5,019.7	4,995.2	5,078.4	5,077.3	11.8	1.5	-177.95	-3,628.6	-159.9	3,906.6	3,894.2	12.37	315.742	
5,100.0	5,075.6	5,150.5	5,149.3	12.0	1.5	-177.94	-3,626.4	-161.0	3,904.2	3,891.6	12.56	310.745	
5,118.1	5,093.7	5,165.1	5,163.9	12.0	1.5	-177.93	-3,626.0	-161.2	3,903.7	3,891.1	12.61	309.650	
5,200.0	5,175.6	5,224.6	5,223.4	12.2	1.6	-177.92	-3,624.5	-161.9	3,901.7	3,888.9	12.80	304.848	
5,216.5	5,192.1	5,235.2	5,234.0	12.2	1.6	-177.92	-3,624.3	-162.1	3,901.3	3,888.5	12.84	303.911	
5,300.0	5,275.6	5,300.0	5,298.8	12.4	1.6	-177.91	-3,623.2	-162.9	3,900.0	3,887.0	13.03	299.242	
5,314.9	5,290.5	5,300.0	5,298.8	12.4	1.6	-177.91	-3,623.2	-162.9	3,899.8	3,886.7	13.07	298.472	
5,400.0	5,375.6	5,379.6	5,378.4	12.6	1.6	-177.90	-3,622.4	-163.6	3,898.9	3,885.6	13.27	293.858	
5,413.4	5,388.9	5,392.6	5,391.4	12.6	1.6	-177.90	-3,622.2	-163.7	3,898.8	3,885.5	13.30	293.144	
5,500.0	5,475.6	5,488.2	5,487.0	12.8	1.6	-177.90	-3,621.2	-163.2	3,897.8	3,884.3	13.51	288.586	
5,511.8	5,487.4	5,501.6	5,500.4	12.8	1.6	-177.90	-3,621.0	-163.0	3,897.7	3,884.1	13.53	287.973	
5,600.0	5,575.6	5,611.1	5,609.8	13.0	1.6	-177.94	-3,619.4	-160.5	3,896.3	3,882.5	13.75	283.354	
5,610.2	5,585.8	5,620.6	5,619.3	13.0	1.6	-177.95	-3,619.2	-160.2	3,896.1	3,882.3	13.77	282.840	
5,700.0	5,675.6	5,704.4	5,703.1	13.2	1.6	-177.98	-3,617.9	-157.4	3,894.5	3,880.5	13.99	278.409	
5,708.6	5,684.2	5,713.3	5,712.0	13.2	1.6	-177.99	-3,617.8	-157.1	3,894.4	3,880.4	14.01	277.987	
5,800.0	5,775.6	5,808.6	5,807.2	13.4	1.6	-178.04	-3,616.3	-153.3	3,892.9	3,878.6	14.23	273.605	
5,807.1	5,782.6	5,817.8	5,816.4	13.4	1.6	-178.05	-3,616.1	-152.9	3,892.7	3,878.5	14.25	273.263	
5,900.0	5,875.6	5,934.1	5,932.6	13.6	1.7	-178.12	-3,613.8	-148.3	3,890.7	3,876.3	14.47	268.837	
5,905.5	5,881.1	5,940.5	5,939.0	13.6	1.7	-178.12	-3,613.7	-148.1	3,890.6	3,876.1	14.49	268.579	
6,000.0	5,975.6	6,043.7	6,042.1	13.8	1.7	-178.17	-3,611.1	-144.9	3,888.2	3,873.5	14.72	264.222	
6,003.9	5,979.5	6,047.7	6,046.0	13.8	1.7	-178.17	-3,611.0	-144.8	3,888.1	3,873.3	14.73	264.045	
6,100.0	6,075.6	6,138.7	6,137.0	14.0	1.7	-178.20	-3,608.7	-142.3	3,885.5	3,870.6	14.96	259.797	
6,102.3	6,077.9	6,140.7	6,139.0	14.0	1.7	-178.20	-3,608.6	-142.3	3,885.5	3,870.5	14.96	259.696	
6,200.0	6,175.6	6,244.4	6,242.6	14.2	1.7	-178.25	-3,606.2	-139.3	3,883.1	3,867.9	15.20	255.489	
6,200.8	6,176.3	6,245.5	6,243.8	14.2	1.7	-178.25	-3,606.2	-139.2	3,883.1	3,867.9	15.20	255.454	
6,299.2	6,274.8	6,371.5	6,369.6	14.4	1.7	-178.30	-3,602.4	-135.7	3,880.0	3,864.6	15.45	251.202	
6,300.0	6,275.6	6,372.4	6,370.6	14.4	1.7	-178.30	-3,602.3	-135.7	3,880.0	3,864.5	15.45	251.168	
6,397.6	6,373.2	6,466.0	6,464.0	14.7	1.7	-178.33	-3,599.2	-133.7	3,876.7	3,861.0	15.69	247.156	
6,400.0	6,375.6	6,468.1	6,466.2	14.7	1.7	-178.33	-3,599.2	-133.6	3,876.6	3,860.9	15.69	247.061	
6,436.2	6,411.8	6,500.7	6,498.7	14.7	1.7	-178.34	-3,598.1	-133.0	3,875.4	3,859.6	15.78	245.613	
6,450.0	6,425.6	6,516.2	6,514.2	14.8	1.7	1.45	-3,597.6	-132.7	3,874.8	3,859.0	15.81	245.122	
6,496.0	6,471.5	6,567.8	6,565.8	14.8	1.8	1.45	-3,596.0	-131.7	3,871.0	3,855.0	15.93	242.993	
6,500.0	6,475.5	6,572.2	6,570.2	14.8	1.8	1.45	-3,595.8	-131.6	3,870.5	3,854.5	15.94	242.765	
6,550.0	6,525.1	6,633.8	6,631.7	14.9	1.8	1.45	-3,593.7	-130.4	3,862.6	3,846.4	16.13	239.423	
6,594.5	6,568.7	6,693.1	6,691.0	14.9	1.8	1.46	-3,591.4	-129.2	3,852.5	3,836.2	16.33	235.962	
6,600.0	6,574.1	6,700.5	6,698.3	14.9	1.8	1.46	-3,591.1	-129.1	3,851.0	3,834.7	16.35	235.515	
6,650.0	6,622.4	6,769.9	6,767.7	14.9	1.8	1.48	-3,588.0	-127.8	3,835.9	3,819.3	16.58	231.399	
6,692.9	6,663.0	6,820.1	6,817.8	14.9	1.8	1.51	-3,585.6	-127.0	3,820.1	3,803.3	16.75	228.022	
6,700.0	6,669.6	6,826.8	6,824.6	14.9	1.8	1.52	-3,585.2	-126.9	3,817.2	3,800.4	16.78	227.492	
6,750.0	6,715.6	6,873.8	6,871.4	14.9	1.8	1.57	-3,582.9	-126.4	3,795.3	3,778.4	16.95	223.953	
6,791.3	6,752.5	6,919.6	6,917.2	14.9	1.8	1.63	-3,580.5	-126.0	3,774.9	3,757.8	17.07	221.186	
6,800.0	6,760.1	6,933.1	6,930.6	14.9	1.8	1.64	-3,579.8	-125.9	3,770.3	3,753.2	17.09	220.579	
6,850.0	6,802.9	7,007.9	7,005.4	14.9	1.9	1.74	-3,575.4	-125.5	3,742.0	3,724.7	17.22	217.281	
6,889.7	6,835.6	7,000.0	6,997.5	14.9	1.9	1.81	-3,575.9	-125.6	3,717.5	3,700.3	17.22	215.852	
6,900.0	6,843.8	7,000.0	6,997.5	14.9	1.9	1.83	-3,575.9	-125.6	3,711.0	3,693.7	17.22	215.500	
6,950.0	6,882.6	7,000.0	6,997.5	14.9	1.9	1.95	-3,575.9	-125.6	3,677.7	3,660.5	17.18	214.021	
6,988.2	6,910.7	7,000.0	6,997.5	15.0	1.9	2.06	-3,575.9	-125.6	3,650.8	3,633.7	17.13	213.130	
7,000.0	6,919.1	7,000.0	6,997.5	15.0	1.9	2.09	-3,575.9	-125.6	3,642.2	3,625.1	17.11	212.894	
7,050.0	6,953.1	7,000.0	6,997.5	15.0	1.9	2.27	-3,575.9	-125.6	3,604.7	3,587.7	17.00	212.040	
7,086.6	6,976.4	7,000.0	6,997.5	15.1	1.9	2.42	-3,575.9	-125.6	3,576.0	3,559.1	16.91	211.525	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	6,984.5	7,000.0	6,997.5	15.1	1.9	2.48	-3,575.9	-125.6	3,565.3	3,548.4	16.87	211.360	
7,150.0	7,013.1	7,000.0	6,997.5	15.3	1.9	2.75	-3,575.9	-125.6	3,524.0	3,507.3	16.72	210.734	
7,185.0	7,031.4	7,000.0	6,997.5	15.4	1.9	2.98	-3,575.9	-125.6	3,494.1	3,477.5	16.62	210.238	
7,200.0	7,038.8	7,000.0	6,997.5	15.4	1.9	3.09	-3,575.9	-125.6	3,481.1	3,464.5	16.58	210.013	
7,250.0	7,061.4	7,000.0	6,997.5	15.6	1.9	3.54	-3,575.9	-125.6	3,436.6	3,420.2	16.44	209.021	
7,283.4	7,074.8	7,000.0	6,997.5	15.8	1.9	3.93	-3,575.9	-125.6	3,406.1	3,389.7	16.37	208.091	
7,300.0	7,080.9	7,000.0	6,997.5	15.9	1.9	4.15	-3,575.9	-125.6	3,390.8	3,374.4	16.34	207.558	
7,350.0	7,097.1	7,000.0	6,997.5	16.2	1.9	5.04	-3,575.9	-125.6	3,343.8	3,327.5	16.28	205.392	
7,381.9	7,105.7	7,000.0	6,997.5	16.4	1.9	5.83	-3,575.9	-125.6	3,313.3	3,297.0	16.28	203.499	
7,400.0	7,109.9	7,000.0	6,997.5	16.6	1.9	6.41	-3,575.9	-125.6	3,295.8	3,279.5	16.30	202.236	
7,450.0	7,119.4	7,000.0	6,997.5	17.0	1.9	8.82	-3,575.9	-125.6	3,246.9	3,230.5	16.43	197.566	
7,480.3	7,123.4	7,000.0	6,997.5	17.2	1.9	11.39	-3,575.9	-125.6	3,217.1	3,200.4	16.64	193.382	
7,500.0	7,125.4	7,000.0	6,997.5	17.4	1.9	14.03	-3,575.9	-125.6	3,197.5	3,180.7	16.86	189.603	
7,550.0	7,127.9	7,000.0	6,997.5	17.9	1.9	32.40	-3,575.9	-125.6	3,147.7	3,129.0	18.72	168.128	
7,562.9	7,128.0	7,000.0	6,997.5	18.0	1.9	46.30	-3,575.9	-125.6	3,134.9	3,115.0	19.89	157.644	
7,578.7	7,128.0	7,000.0	6,997.5	18.2	1.9	46.30	-3,575.9	-125.6	3,119.0	3,099.0	20.01	155.871	
7,600.0	7,127.9	7,000.0	6,997.5	18.4	1.9	46.30	-3,575.9	-125.6	3,097.8	3,077.6	20.18	153.527	
7,677.1	7,127.7	7,000.0	6,997.5	19.2	1.9	46.30	-3,575.9	-125.6	3,020.7	2,999.8	20.84	144.970	
7,700.0	7,127.7	7,000.0	6,997.5	19.5	1.9	46.30	-3,575.9	-125.6	2,997.8	2,976.8	21.03	142.538	
7,775.6	7,127.5	7,000.0	6,997.5	20.3	1.9	46.30	-3,575.9	-125.6	2,922.3	2,900.7	21.65	134.951	
7,800.0	7,127.5	7,000.0	6,997.5	20.5	1.9	46.30	-3,575.9	-125.6	2,897.9	2,876.1	21.86	132.591	
7,874.0	7,127.3	7,000.0	6,997.5	21.4	1.9	46.30	-3,575.9	-125.6	2,824.0	2,801.5	22.52	125.384	
7,900.0	7,127.2	7,000.0	6,997.5	21.7	1.9	46.30	-3,575.9	-125.6	2,798.0	2,775.3	22.76	122.951	
7,972.4	7,127.1	7,000.0	6,997.5	22.7	1.9	46.30	-3,575.9	-125.6	2,725.7	2,702.2	23.53	115.833	
8,000.0	7,127.0	7,000.0	6,997.5	23.1	1.9	46.30	-3,575.9	-125.6	2,698.1	2,674.3	23.83	113.244	
8,070.8	7,126.8	7,000.0	6,997.5	24.2	1.9	46.30	-3,575.9	-125.6	2,627.4	2,602.7	24.62	106.714	
8,100.0	7,126.8	7,000.0	6,997.5	24.6	1.9	46.30	-3,575.9	-125.6	2,598.3	2,573.3	24.95	104.147	
8,169.3	7,126.6	7,000.0	6,997.5	25.6	1.9	46.30	-3,575.9	-125.6	2,529.1	2,503.3	25.76	98.193	
8,200.0	7,126.6	7,000.0	6,997.5	26.1	1.9	46.30	-3,575.9	-125.6	2,498.4	2,472.3	26.11	95.670	
8,267.7	7,126.4	7,000.0	6,997.5	27.2	1.9	46.30	-3,575.9	-125.6	2,430.8	2,403.8	26.93	90.263	
8,300.0	7,126.3	7,000.0	6,997.5	27.7	1.9	46.30	-3,575.9	-125.6	2,398.5	2,371.2	27.32	87.797	
8,366.1	7,126.2	7,000.0	6,997.5	28.8	1.9	46.30	-3,575.9	-125.6	2,332.5	2,304.3	28.14	82.899	
8,400.0	7,126.1	7,000.0	6,997.5	29.3	1.9	46.30	-3,575.9	-125.6	2,298.6	2,270.1	28.55	80.499	
8,464.5	7,126.0	7,000.0	6,997.5	30.4	1.9	46.30	-3,575.9	-125.6	2,234.2	2,204.8	29.37	76.071	
8,500.0	7,125.9	7,000.0	6,997.5	31.0	1.9	46.30	-3,575.9	-125.6	2,198.8	2,169.0	29.82	73.741	
8,563.0	7,125.7	7,000.0	6,997.5	32.0	1.9	46.30	-3,575.9	-125.6	2,135.9	2,105.3	30.63	69.739	
8,600.0	7,125.6	7,000.0	6,997.5	32.6	1.9	46.30	-3,575.9	-125.6	2,099.0	2,067.9	31.10	67.484	
8,661.4	7,125.5	7,000.0	6,997.5	33.7	1.9	46.30	-3,575.9	-125.6	2,037.7	2,005.8	31.90	63.867	
8,700.0	7,125.4	7,000.0	6,997.5	34.4	1.9	46.30	-3,575.9	-125.6	1,999.2	1,966.8	32.41	61.686	
8,759.8	7,125.3	7,000.0	6,997.5	35.4	1.9	46.30	-3,575.9	-125.6	1,939.5	1,906.3	33.20	58.418	
8,800.0	7,125.2	7,000.0	6,997.5	36.1	1.9	46.30	-3,575.9	-125.6	1,899.4	1,865.6	33.73	56.309	
8,858.2	7,125.1	7,000.0	6,997.5	37.1	1.9	46.30	-3,575.9	-125.6	1,841.3	1,806.7	34.51	53.355	
8,900.0	7,125.0	7,000.0	6,997.5	37.8	1.9	46.30	-3,575.9	-125.6	1,799.6	1,764.5	35.07	51.318	
8,956.7	7,124.8	7,000.0	6,997.5	38.8	1.9	46.30	-3,575.9	-125.6	1,743.1	1,707.2	35.83	48.645	
9,000.0	7,124.7	7,000.0	6,997.5	39.6	1.9	46.30	-3,575.9	-125.6	1,699.9	1,663.4	36.42	46.677	
9,055.1	7,124.6	7,000.0	6,997.5	40.6	1.9	46.30	-3,575.9	-125.6	1,644.9	1,607.8	37.17	44.257	
9,100.0	7,124.5	7,000.0	6,997.5	41.4	1.9	46.30	-3,575.9	-125.6	1,600.2	1,562.4	37.78	42.357	
9,153.5	7,124.4	7,000.0	6,997.5	42.3	1.9	46.30	-3,575.9	-125.6	1,546.8	1,508.3	38.51	40.164	
9,200.0	7,124.3	7,000.0	6,997.5	43.2	1.9	46.30	-3,575.9	-125.6	1,500.5	1,461.3	39.15	38.328	
9,251.9	7,124.2	7,000.0	6,997.5	44.1	1.9	46.30	-3,575.9	-125.6	1,448.7	1,408.9	39.87	36.341	
9,300.0	7,124.1	7,000.0	6,997.5	45.0	1.9	46.30	-3,575.9	-125.6	1,400.9	1,360.3	40.53	34.565	
9,350.4	7,123.9	7,000.0	6,997.5	45.9	1.9	46.30	-3,575.9	-125.6	1,350.7	1,309.5	41.23	32.763	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.0	7,123.8	7,000.0	6,997.5	46.8	1.9	46.30	-3,575.9	-125.6	1,301.3	1,259.4	41.91	31.046	
9,448.8	7,123.7	7,000.0	6,997.5	47.7	1.9	46.30	-3,575.9	-125.6	1,252.7	1,210.1	42.59	29.411	
9,500.0	7,123.6	7,000.0	6,997.5	48.6	1.9	46.30	-3,575.9	-125.6	1,201.8	1,158.5	43.31	27.750	
9,547.2	7,123.5	7,000.0	6,997.5	49.4	1.9	46.30	-3,575.9	-125.6	1,154.9	1,110.9	43.97	26.265	
9,600.0	7,123.4	7,000.0	6,997.5	50.4	1.9	46.30	-3,575.9	-125.6	1,102.4	1,057.7	44.71	24.658	
9,645.6	7,123.3	7,000.0	6,997.5	51.2	1.9	46.30	-3,575.9	-125.6	1,057.1	1,011.7	45.35	23.309	
9,700.0	7,123.2	7,000.0	6,997.5	52.2	1.9	46.30	-3,575.9	-125.6	1,003.1	957.0	46.11	21.754	
9,744.1	7,123.1	7,000.0	6,997.5	53.1	1.9	46.30	-3,575.9	-125.6	959.4	912.7	46.73	20.529	
9,800.0	7,122.9	7,000.0	6,997.5	54.1	1.9	46.30	-3,575.9	-125.6	904.0	856.5	47.52	19.022	
9,842.5	7,122.8	7,000.0	6,997.5	54.9	1.9	46.30	-3,575.9	-125.6	861.9	813.8	48.12	17.911	
9,900.0	7,122.7	7,000.0	6,997.5	55.9	1.9	46.30	-3,575.9	-125.6	805.1	756.2	48.94	16.452	
9,940.9	7,122.6	7,000.0	6,997.5	56.7	1.9	46.30	-3,575.9	-125.6	764.7	715.2	49.52	15.443	
10,000.0	7,122.5	7,000.0	6,997.5	57.8	1.9	46.30	-3,575.9	-125.6	706.5	656.1	50.36	14.030	
10,039.3	7,122.4	7,000.0	6,997.5	58.5	1.9	46.30	-3,575.9	-125.6	667.8	616.9	50.92	13.116	
10,100.0	7,122.3	7,000.0	6,997.5	59.6	1.9	46.30	-3,575.9	-125.6	608.4	556.6	51.78	11.749	
10,137.8	7,122.2	7,000.0	6,997.5	60.3	1.9	46.30	-3,575.9	-125.6	571.5	519.1	52.32	10.923	
10,200.0	7,122.0	7,000.0	6,997.5	61.5	1.9	46.30	-3,575.9	-125.6	510.9	457.7	53.20	9.604	
10,236.2	7,121.9	7,000.0	6,997.5	62.2	1.9	46.30	-3,575.9	-125.6	475.9	422.2	53.72	8.860	
10,300.0	7,121.8	7,000.0	6,997.5	63.3	1.9	46.30	-3,575.9	-125.6	414.8	360.1	54.63	7.592	
10,334.6	7,121.7	7,000.0	6,997.5	64.0	1.9	46.30	-3,575.9	-125.6	381.9	326.8	55.13	6.928	
10,400.0	7,121.6	7,000.0	6,997.5	65.2	1.9	46.30	-3,575.9	-125.6	320.9	264.8	56.06	5.724	
10,433.0	7,121.5	7,000.0	6,997.5	65.8	1.9	46.30	-3,575.9	-125.6	290.8	234.3	56.54	5.143	
10,500.0	7,121.4	7,000.0	6,997.5	67.1	1.9	46.30	-3,575.9	-125.6	232.3	174.8	57.50	4.039	
10,531.5	7,121.3	7,000.0	6,997.5	67.7	1.9	46.30	-3,575.9	-125.6	206.5	148.6	57.95	3.564	
10,600.0	7,121.1	7,000.0	6,997.5	69.0	1.9	46.30	-3,575.9	-125.6	157.8	98.9	58.93	2.678	
10,629.9	7,121.1	7,000.0	6,997.5	69.5	1.9	46.30	-3,575.9	-125.6	141.8	82.4	59.36	2.388	
10,695.2	7,120.9	7,000.0	6,997.5	70.7	1.9	46.30	-3,575.9	-125.6	125.9	65.6	60.30	2.087 CC, ES	
10,700.0	7,120.9	7,000.0	6,997.5	70.8	1.9	46.30	-3,575.9	-125.6	125.9	65.6	60.37	2.086 SF	
10,728.3	7,120.8	7,000.0	6,997.5	71.4	1.9	46.30	-3,575.9	-125.6	130.1	69.4	60.78	2.141	
10,800.0	7,120.7	7,000.0	6,997.5	72.7	1.9	46.30	-3,575.9	-125.6	163.8	102.0	61.81	2.650	
10,826.7	7,120.6	7,000.0	6,997.5	73.2	1.9	46.30	-3,575.9	-125.6	182.1	119.9	62.20	2.927	
10,900.0	7,120.5	7,000.0	6,997.5	74.6	1.9	46.30	-3,575.9	-125.6	240.4	177.1	63.25	3.800	
10,925.2	7,120.4	7,000.0	6,997.5	75.1	1.9	46.30	-3,575.9	-125.6	262.2	198.5	63.62	4.121	
11,000.0	7,120.2	7,000.0	6,997.5	76.5	1.9	46.30	-3,575.9	-125.6	329.8	265.1	64.70	5.097	
11,023.6	7,120.2	7,000.0	6,997.5	76.9	1.9	46.30	-3,575.9	-125.6	351.7	286.7	65.04	5.407	
11,100.0	7,120.0	7,000.0	6,997.5	78.3	1.9	46.30	-3,575.9	-125.6	423.9	357.8	66.14	6.409	
11,122.0	7,120.0	7,000.0	6,997.5	78.8	1.9	46.30	-3,575.9	-125.6	445.0	378.5	66.46	6.696	
11,200.0	7,119.8	7,000.0	6,997.5	80.2	1.9	46.30	-3,575.9	-125.6	520.3	452.7	67.59	7.697	
11,220.4	7,119.7	7,000.0	6,997.5	80.6	1.9	46.30	-3,575.9	-125.6	540.1	472.2	67.89	7.956	
11,300.0	7,119.5	7,000.0	6,997.5	82.1	1.9	46.30	-3,575.9	-125.6	617.8	548.7	69.04	8.948	
11,318.9	7,119.5	7,000.0	6,997.5	82.5	1.9	46.30	-3,575.9	-125.6	636.2	566.9	69.31	9.180	
11,400.0	7,119.3	7,000.0	6,997.5	84.0	1.9	46.30	-3,575.9	-125.6	715.9	645.5	70.49	10.157	
11,417.3	7,119.3	7,000.0	6,997.5	84.3	1.9	46.30	-3,575.9	-125.6	733.0	662.2	70.74	10.362	
11,500.0	7,119.1	7,000.0	6,997.5	85.9	1.9	46.30	-3,575.9	-125.6	814.6	742.6	71.94	11.323	
11,515.7	7,119.1	7,000.0	6,997.5	86.2	1.9	46.30	-3,575.9	-125.6	830.1	758.0	72.17	11.503	
11,600.0	7,118.9	7,000.0	6,997.5	87.8	1.9	46.30	-3,575.9	-125.6	913.5	840.1	73.39	12.447	
11,614.1	7,118.8	7,000.0	6,997.5	88.0	1.9	46.30	-3,575.9	-125.6	927.5	853.9	73.60	12.603	
11,700.0	7,118.6	7,000.0	6,997.5	89.7	1.9	46.30	-3,575.9	-125.6	1,012.7	937.8	74.84	13.530	
11,712.6	7,118.6	7,000.0	6,997.5	89.9	1.9	46.30	-3,575.9	-125.6	1,025.1	950.1	75.03	13.664	
11,800.0	7,118.4	7,000.0	6,997.5	91.6	1.9	46.30	-3,575.9	-125.6	1,111.9	1,035.7	76.30	14.574	
11,811.0	7,118.4	7,000.0	6,997.5	91.8	1.9	46.30	-3,575.9	-125.6	1,122.9	1,046.4	76.46	14.687	
11,900.0	7,118.2	7,000.0	6,997.5	93.4	1.9	46.30	-3,575.9	-125.6	1,211.4	1,133.6	77.75	15.580	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,909.4	7,118.2	7,000.0	6,997.5	93.6	1.9	46.30	-3,575.9	-125.6	1,220.7	1,142.8	77.89	15.673	
12,000.0	7,118.0	7,000.0	6,997.5	95.3	1.9	46.30	-3,575.9	-125.6	1,310.9	1,231.7	79.21	16.550	
12,007.8	7,118.0	7,000.0	6,997.5	95.5	1.9	46.30	-3,575.9	-125.6	1,318.7	1,239.4	79.32	16.625	
12,100.0	7,117.8	7,000.0	6,997.5	97.2	1.9	46.30	-3,575.9	-125.6	1,410.4	1,329.8	80.66	17.485	
12,106.3	7,117.7	7,000.0	6,997.5	97.4	1.9	46.30	-3,575.9	-125.6	1,416.7	1,335.9	80.75	17.543	
12,200.0	7,117.5	6,990.9	6,988.4	99.1	1.9	43.47	-3,576.5	-125.6	1,510.0	1,430.4	79.64	18.960	
12,204.7	7,117.5	6,990.7	6,988.1	99.2	1.9	43.39	-3,576.5	-125.6	1,514.7	1,435.1	79.64	19.019	
12,300.0	7,117.3	6,985.6	6,983.0	101.0	1.9	41.93	-3,576.8	-125.6	1,609.7	1,530.0	79.62	20.215	
12,303.1	7,117.3	6,985.4	6,982.9	101.1	1.9	41.88	-3,576.8	-125.6	1,612.8	1,533.1	79.62	20.255	
12,400.0	7,117.1	6,980.3	6,977.8	102.9	1.8	40.51	-3,577.1	-125.7	1,709.3	1,629.7	79.63	21.465	
12,401.5	7,117.1	6,980.2	6,977.7	103.0	1.8	40.49	-3,577.1	-125.7	1,710.8	1,631.2	79.63	21.484	
12,500.0	7,116.9	6,975.2	6,972.7	104.8	1.8	39.19	-3,577.4	-125.7	1,809.0	1,729.3	79.67	22.706	
12,598.4	7,116.6	6,970.2	6,967.7	106.7	1.8	37.99	-3,577.7	-125.7	1,907.1	1,827.3	79.73	23.918	
12,600.0	7,116.6	6,970.1	6,967.7	106.7	1.8	37.97	-3,577.7	-125.7	1,908.7	1,828.9	79.73	23.938	
12,696.8	7,116.4	6,965.4	6,962.9	108.6	1.8	36.87	-3,578.0	-125.7	2,005.2	1,925.4	79.83	25.120	
12,700.0	7,116.4	6,965.2	6,962.7	108.6	1.8	36.83	-3,578.0	-125.7	2,008.4	1,928.5	79.83	25.158	
12,795.2	7,116.2	6,960.6	6,958.1	110.4	1.8	35.82	-3,578.3	-125.8	2,103.4	2,023.4	79.95	26.310	
12,800.0	7,116.2	6,960.4	6,957.9	110.5	1.8	35.78	-3,578.3	-125.8	2,108.1	2,028.1	79.95	26.367	
12,893.7	7,116.0	6,955.9	6,953.4	112.3	1.8	34.85	-3,578.5	-125.8	2,201.5	2,121.4	80.09	27.486	
12,900.0	7,116.0	6,955.6	6,953.1	112.4	1.8	34.79	-3,578.6	-125.8	2,207.8	2,127.7	80.11	27.562	
12,992.1	7,115.7	6,951.3	6,948.8	114.2	1.8	33.94	-3,578.8	-125.8	2,299.7	2,219.4	80.27	28.649	
13,000.0	7,115.7	6,950.9	6,948.5	114.3	1.8	33.87	-3,578.8	-125.8	2,307.6	2,227.3	80.29	28.742	
13,090.5	7,115.5	6,946.8	6,944.3	116.1	1.8	33.08	-3,579.1	-125.8	2,397.9	2,317.4	80.47	29.797	
13,100.0	7,115.5	6,946.4	6,943.9	116.2	1.8	33.00	-3,579.1	-125.8	2,407.3	2,326.8	80.49	29.907	
13,188.9	7,115.3	6,942.4	6,939.9	117.9	1.8	32.28	-3,579.3	-125.9	2,496.1	2,415.4	80.70	30.929	
13,200.0	7,115.3	6,941.9	6,939.4	118.1	1.8	32.19	-3,579.3	-125.9	2,507.1	2,426.4	80.73	31.056	
13,287.4	7,115.1	6,938.0	6,935.6	119.8	1.8	31.52	-3,579.6	-125.9	2,594.3	2,513.3	80.95	32.046	
13,300.0	7,115.1	6,937.5	6,935.0	120.0	1.8	31.43	-3,579.6	-125.9	2,606.9	2,525.9	80.99	32.188	
13,385.8	7,114.9	6,933.7	6,931.3	121.7	1.8	30.81	-3,579.8	-125.9	2,692.5	2,611.2	81.23	33.146	
13,400.0	7,114.8	6,933.1	6,930.7	121.9	1.8	30.72	-3,579.8	-125.9	2,706.6	2,625.4	81.27	33.303	
13,484.2	7,114.6	6,929.5	6,927.1	123.6	1.8	30.15	-3,580.0	-125.9	2,790.7	2,709.1	81.53	34.229	
13,500.0	7,114.6	6,928.9	6,926.5	123.9	1.8	30.04	-3,580.1	-126.0	2,806.4	2,724.8	81.58	34.401	
13,582.6	7,114.4	6,925.4	6,923.0	125.4	1.8	29.51	-3,580.2	-126.0	2,888.9	2,807.0	81.85	35.296	
13,600.0	7,114.4	6,924.7	6,922.3	125.8	1.8	29.41	-3,580.3	-126.0	2,906.2	2,824.3	81.91	35.482	
13,681.1	7,114.2	6,921.4	6,919.0	127.3	1.8	28.92	-3,580.5	-126.0	2,987.1	2,904.9	82.19	36.345	
13,700.0	7,114.2	6,920.6	6,918.2	127.7	1.8	28.80	-3,580.5	-126.0	3,006.0	2,923.8	82.26	36.545	
13,779.5	7,114.0	6,917.4	6,915.0	129.2	1.8	28.35	-3,580.7	-126.0	3,085.3	3,002.8	82.55	37.377	
13,800.0	7,113.9	6,916.6	6,914.2	129.6	1.8	28.24	-3,580.7	-126.0	3,105.8	3,023.2	82.62	37.590	
13,877.9	7,113.8	6,900.0	6,897.6	131.1	1.8	26.11	-3,581.6	-126.2	3,183.6	3,103.0	80.67	39.467	
13,900.0	7,113.7	6,900.0	6,897.6	131.5	1.8	26.11	-3,581.6	-126.2	3,205.7	3,124.8	80.90	39.625	
13,976.3	7,113.5	6,900.0	6,897.6	132.9	1.8	26.11	-3,581.6	-126.2	3,281.8	3,200.1	81.71	40.165	
14,000.0	7,113.5	6,900.0	6,897.6	133.4	1.8	26.11	-3,581.6	-126.2	3,305.4	3,223.5	81.96	40.330	
14,074.8	7,113.3	6,900.0	6,897.6	134.8	1.8	26.11	-3,581.6	-126.2	3,380.1	3,297.3	82.75	40.845	
14,100.0	7,113.3	6,900.0	6,897.6	135.3	1.8	26.11	-3,581.6	-126.2	3,405.3	3,322.2	83.02	41.016	
14,173.2	7,113.1	6,900.0	6,897.6	136.7	1.8	26.11	-3,581.6	-126.2	3,478.3	3,394.5	83.80	41.508	
14,200.0	7,113.0	6,900.0	6,897.6	137.2	1.8	26.11	-3,581.6	-126.2	3,505.1	3,421.0	84.08	41.685	
14,219.1	7,113.0	6,900.0	6,897.6	137.6	1.8	26.11	-3,581.6	-126.2	3,524.2	3,439.9	84.29	41.812	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - 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							
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	-167.15	-2,859.8	-652.5	2,933.6					
98.4	98.4	53.5	53.5	0.1	0.0	-167.15	-2,859.8	-652.6	2,933.3	2,933.2	0.14	N/A		
100.0	100.0	55.0	55.0	0.1	0.0	-167.15	-2,859.8	-652.6	2,933.3	2,933.2	0.14	N/A		
196.8	196.8	155.7	155.7	0.3	0.2	-167.14	-2,859.7	-653.1	2,933.3	2,932.9	0.48	6,164.091		
200.0	200.0	159.2	159.2	0.3	0.2	-167.14	-2,859.7	-653.1	2,933.3	2,932.9	0.49	6,014.910		
295.3	295.3	260.0	260.0	0.5	0.3	-167.12	-2,859.3	-653.9	2,933.1	2,932.3	0.81	3,631.950		
300.0	300.0	264.9	264.9	0.5	0.3	-167.12	-2,859.3	-653.9	2,933.1	2,932.3	0.82	3,567.063		
393.7	393.7	357.8	357.8	0.8	0.4	-167.10	-2,858.8	-654.9	2,932.9	2,931.8	1.10	2,666.743		
400.0	400.0	363.9	363.9	0.8	0.4	-167.10	-2,858.8	-654.9	2,932.8	2,931.7	1.12	2,623.481		
492.1	492.1	454.7	454.7	1.0	0.4	-167.08	-2,858.4	-655.8	2,932.6	2,931.3	1.38	2,126.981		
500.0	500.0	462.6	462.6	1.0	0.4	-167.08	-2,858.3	-655.9	2,932.6	2,931.2	1.40	2,093.488		
590.5	590.5	558.1	558.1	1.2	0.5	-167.06	-2,857.9	-656.8	2,932.4	2,930.7	1.65	1,774.080		
600.0	600.0	568.4	568.4	1.2	0.5	-167.06	-2,857.8	-656.9	2,932.4	2,930.7	1.68	1,746.383		
689.0	689.0	657.6	657.5	1.4	0.5	-167.04	-2,857.2	-657.5	2,931.9	2,930.0	1.92	1,527.028		
700.0	700.0	668.1	668.1	1.4	0.5	-167.04	-2,857.2	-657.6	2,931.9	2,930.0	1.95	1,503.889		
787.4	787.4	758.0	758.0	1.6	0.6	-167.03	-2,856.7	-658.2	2,931.6	2,929.4	2.18	1,342.708		
800.0	800.0	771.5	771.5	1.7	0.6	-167.02	-2,856.6	-658.2	2,931.5	2,929.3	2.22	1,322.283		
885.8	885.8	858.7	858.7	1.9	0.6	-167.02	-2,856.0	-658.5	2,931.0	2,928.6	2.45	1,198.734		
900.0	900.0	872.8	872.7	1.9	0.6	-167.02	-2,855.9	-658.5	2,930.9	2,928.5	2.48	1,180.562		
984.2	984.2	953.3	953.2	2.1	0.7	-167.01	-2,855.5	-658.8	2,930.5	2,927.8	2.70	1,084.596		
1,000.0	1,000.0	968.0	968.0	2.1	0.7	-167.01	-2,855.4	-658.9	2,930.4	2,927.7	2.74	1,068.507		
1,082.7	1,082.7	1,050.7	1,050.7	2.3	0.7	-166.99	-2,855.0	-659.4	2,930.1	2,927.2	2.96	990.819		
1,100.0	1,100.0	1,068.8	1,068.8	2.3	0.7	-166.99	-2,854.9	-659.5	2,930.1	2,927.1	3.00	975.873		
1,181.1	1,181.1	1,150.4	1,150.3	2.5	0.8	-166.98	-2,854.4	-659.8	2,929.7	2,926.5	3.21	911.679		
1,200.0	1,200.0	1,169.0	1,168.9	2.6	0.8	-166.98	-2,854.3	-659.9	2,929.6	2,926.4	3.26	897.938		
1,279.5	1,279.5	1,250.1	1,250.1	2.7	0.8	-166.97	-2,853.9	-660.2	2,929.3	2,925.8	3.47	844.280		
1,300.0	1,300.0	1,271.5	1,271.5	2.8	0.8	-166.97	-2,853.8	-660.3	2,929.2	2,925.7	3.52	831.466		
1,316.1	1,316.1	1,288.3	1,288.3	2.8	0.8	-162.69	-2,853.7	-660.4	2,929.1	2,925.6	3.57	820.374		
1,377.9	1,377.9	1,347.2	1,347.1	3.0	0.8	-162.68	-2,853.3	-660.6	2,929.8	2,926.1	3.73	785.276		
1,400.0	1,400.0	1,367.7	1,367.6	3.0	0.8	-162.68	-2,853.2	-660.7	2,930.4	2,926.6	3.79	773.558		
1,476.4	1,476.3	1,440.6	1,440.6	3.2	0.9	-162.68	-2,852.9	-660.8	2,933.7	2,929.7	3.99	735.361		
1,500.0	1,499.8	1,463.7	1,463.6	3.2	0.9	-162.68	-2,852.9	-660.8	2,935.1	2,931.0	4.05	724.383		
1,574.8	1,574.4	1,537.3	1,537.3	3.4	0.9	-162.68	-2,852.7	-660.8	2,940.8	2,936.6	4.25	691.712		
1,600.0	1,599.5	1,562.3	1,562.3	3.5	0.9	-162.68	-2,852.6	-660.8	2,943.2	2,938.9	4.32	681.515		
1,673.2	1,672.2	1,634.2	1,634.1	3.6	0.9	-162.68	-2,852.5	-660.7	2,951.2	2,946.7	4.52	653.623		
1,700.0	1,698.7	1,660.1	1,660.0	3.7	0.9	-162.68	-2,852.5	-660.6	2,954.6	2,950.0	4.59	644.182		
1,771.6	1,769.5	1,732.9	1,732.9	3.9	1.0	-162.69	-2,852.4	-660.6	2,964.9	2,960.1	4.78	619.843		
1,800.0	1,797.5	1,763.6	1,763.6	4.0	1.0	-162.69	-2,852.3	-660.6	2,969.4	2,964.5	4.86	610.755		
1,870.1	1,866.3	1,834.4	1,834.3	4.2	1.0	-162.69	-2,852.0	-660.4	2,981.5	2,976.5	5.06	589.319		
1,900.1	1,895.8	1,862.6	1,862.6	4.3	1.0	-162.69	-2,852.0	-660.3	2,987.3	2,982.1	5.14	580.811		
1,968.5	1,962.6	1,929.8	1,929.8	4.5	1.0	-162.78	-2,851.8	-660.1	3,000.7	2,995.3	5.33	562.809		
2,000.0	1,993.4	1,962.7	1,962.6	4.6	1.0	-162.82	-2,851.7	-659.9	3,006.8	3,001.4	5.42	554.886		
2,066.9	2,058.9	2,026.6	2,026.6	4.8	1.0	-162.90	-2,851.5	-659.7	3,019.8	3,014.2	5.61	538.561		
2,100.0	2,091.3	2,054.8	2,054.8	4.9	1.0	-162.94	-2,851.4	-659.5	3,026.3	3,020.6	5.69	531.469		
2,165.3	2,155.2	2,112.0	2,111.9	5.1	1.0	-163.01	-2,851.4	-659.2	3,039.3	3,033.4	5.87	517.529		
2,200.0	2,189.1	2,145.7	2,145.6	5.3	1.0	-163.05	-2,851.5	-659.0	3,046.2	3,040.2	5.97	510.133		
2,263.8	2,251.4	2,207.3	2,207.3	5.5	1.1	-163.13	-2,851.6	-658.5	3,058.9	3,052.7	6.15	497.343		
2,300.0	2,286.9	2,241.0	2,240.9	5.6	1.1	-163.18	-2,851.6	-658.2	3,066.1	3,059.9	6.25	490.447		
2,362.2	2,347.7	2,300.0	2,299.9	5.9	1.1	-163.26	-2,851.8	-657.7	3,078.6	3,072.2	6.43	479.045		
2,400.0	2,384.7	2,329.7	2,329.7	6.0	1.1	-163.30	-2,852.0	-657.4	3,086.3	3,079.7	6.53	472.497		
2,460.6	2,444.0	2,379.2	2,379.1	6.3	1.1	-163.36	-2,852.4	-656.8	3,098.7	3,092.0	6.70	462.341		
2,500.0	2,482.5	2,400.0	2,399.9	6.4	1.1	-163.39	-2,852.6	-656.6	3,106.9	3,100.1	6.81	456.173		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,559.0	2,540.3	2,450.2	2,450.1	6.6	1.1	-163.46	-2,853.3	-655.9	3,119.3	3,112.4	6.98	446.959	
2,600.0	2,580.3	2,478.4	2,478.3	6.8	1.1	-163.50	-2,853.9	-655.5	3,128.2	3,121.1	7.09	440.915	
2,617.6	2,597.5	2,500.0	2,499.9	6.9	1.1	-163.54	-2,854.4	-655.3	3,132.1	3,124.9	7.15	438.229	
2,657.5	2,636.6	2,524.4	2,524.3	7.0	1.1	-163.62	-2,855.0	-654.9	3,140.6	3,133.4	7.24	433.853	
2,700.0	2,678.4	2,564.6	2,564.5	7.2	1.1	-163.72	-2,856.0	-654.4	3,149.2	3,141.8	7.34	429.108	
2,755.9	2,733.5	2,617.7	2,617.6	7.3	1.1	-163.84	-2,857.4	-653.8	3,159.6	3,152.1	7.45	424.105	
2,800.0	2,777.0	2,660.1	2,659.9	7.4	1.1	-163.93	-2,858.5	-653.3	3,167.1	3,159.5	7.54	420.289	
2,854.3	2,830.9	2,716.0	2,715.9	7.6	1.1	-164.03	-2,859.9	-652.7	3,175.4	3,167.8	7.64	415.745	
2,900.0	2,876.2	2,773.0	2,772.8	7.7	1.1	-164.12	-2,861.3	-652.0	3,181.6	3,173.8	7.72	411.902	
2,952.7	2,928.7	2,830.4	2,830.2	7.8	1.1	-164.20	-2,862.4	-651.3	3,187.6	3,179.8	7.82	407.636	
3,000.0	2,975.8	2,876.7	2,876.4	7.9	1.1	-164.25	-2,863.4	-650.8	3,192.3	3,184.4	7.90	403.837	
3,051.2	3,026.8	2,929.6	2,929.3	8.0	1.1	-164.31	-2,864.4	-650.2	3,196.5	3,188.5	7.99	399.832	
3,100.0	3,075.6	2,982.4	2,982.1	8.1	1.1	-164.35	-2,865.4	-649.7	3,199.6	3,191.5	8.08	395.970	
3,149.6	3,125.2	3,035.9	3,035.7	8.2	1.1	-164.38	-2,866.3	-649.3	3,201.9	3,193.7	8.16	392.164	
3,200.0	3,175.6	3,090.3	3,090.0	8.3	1.1	-164.40	-2,867.1	-648.9	3,203.3	3,195.1	8.25	388.260	
3,217.7	3,193.3	3,108.3	3,108.0	8.3	1.1	-168.69	-2,867.4	-648.8	3,203.6	3,195.3	8.28	387.040	
3,248.0	3,223.6	3,137.1	3,136.9	8.4	1.2	-168.69	-2,867.8	-648.6	3,204.0	3,195.6	8.34	384.200	
3,300.0	3,275.6	3,186.6	3,186.3	8.5	1.2	-168.70	-2,868.6	-648.3	3,204.7	3,196.3	8.45	379.430	
3,346.4	3,322.0	3,231.5	3,231.3	8.6	1.2	-168.71	-2,869.3	-648.2	3,205.4	3,196.8	8.55	374.875	
3,400.0	3,375.6	3,283.7	3,283.4	8.7	1.2	-168.71	-2,870.1	-648.1	3,206.2	3,197.5	8.67	369.753	
3,444.9	3,420.4	3,328.6	3,328.3	8.7	1.2	-168.71	-2,870.8	-648.0	3,206.9	3,198.1	8.77	365.541	
3,500.0	3,475.6	3,384.7	3,384.4	8.8	1.2	-168.72	-2,871.6	-648.1	3,207.7	3,198.8	8.90	360.489	
3,543.3	3,518.9	3,424.8	3,424.5	8.9	1.2	-168.72	-2,872.2	-648.2	3,208.4	3,199.4	9.00	356.627	
3,600.0	3,575.6	3,474.6	3,474.3	9.0	1.2	-168.71	-2,873.0	-648.5	3,209.3	3,200.2	9.12	351.720	
3,641.7	3,617.3	3,513.5	3,513.2	9.1	1.2	-168.71	-2,873.7	-648.9	3,210.1	3,200.9	9.22	348.174	
3,700.0	3,675.6	3,575.2	3,574.9	9.2	1.2	-168.70	-2,874.7	-649.6	3,211.2	3,201.8	9.35	343.280	
3,740.1	3,715.7	3,614.8	3,614.5	9.3	1.2	-168.69	-2,875.3	-650.2	3,211.9	3,202.4	9.45	339.989	
3,800.0	3,775.6	3,667.9	3,667.6	9.4	1.2	-168.68	-2,876.2	-651.1	3,213.0	3,203.4	9.58	335.236	
3,838.6	3,814.1	3,702.7	3,702.3	9.5	1.2	-168.67	-2,876.8	-651.7	3,213.8	3,204.1	9.67	332.240	
3,900.0	3,875.6	3,770.6	3,770.2	9.6	1.3	-168.65	-2,877.9	-652.9	3,215.0	3,205.2	9.82	327.499	
3,937.0	3,912.6	3,809.2	3,808.8	9.7	1.3	-168.64	-2,878.5	-653.6	3,215.7	3,205.8	9.90	324.710	
4,000.0	3,975.6	3,864.5	3,864.1	9.8	1.3	-168.63	-2,879.4	-654.7	3,217.0	3,206.9	10.05	320.133	
4,035.4	4,011.0	3,900.0	3,899.6	9.9	1.3	-168.62	-2,880.1	-655.4	3,217.8	3,207.6	10.13	317.593	
4,100.0	4,075.6	3,981.6	3,981.1	10.0	1.3	-168.60	-2,881.4	-656.6	3,219.0	3,208.7	10.29	312.966	
4,133.8	4,109.4	4,027.5	4,027.1	10.0	1.3	-168.60	-2,882.0	-656.9	3,219.5	3,209.1	10.37	310.607	
4,200.0	4,175.6	4,115.6	4,115.1	10.2	1.3	-168.61	-2,882.9	-656.5	3,220.1	3,209.5	10.52	306.119	
4,232.3	4,207.8	4,156.1	4,155.6	10.2	1.3	-168.62	-2,883.1	-656.0	3,220.2	3,209.6	10.60	303.929	
4,300.0	4,275.6	4,230.4	4,230.0	10.4	1.3	-168.64	-2,883.4	-654.9	3,220.2	3,209.5	10.75	299.458	
4,330.7	4,306.3	4,259.0	4,258.5	10.4	1.3	-168.65	-2,883.6	-654.5	3,220.3	3,209.5	10.82	297.492	
4,400.0	4,375.6	4,327.7	4,327.2	10.6	1.3	-168.66	-2,883.9	-653.5	3,220.4	3,209.4	10.99	293.134	
4,429.1	4,404.7	4,359.9	4,359.4	10.6	1.3	-168.67	-2,884.0	-653.0	3,220.4	3,209.4	11.05	291.324	
4,500.0	4,475.6	4,436.4	4,435.9	10.8	1.4	-168.70	-2,884.2	-651.8	3,220.4	3,209.2	11.22	287.013	
4,527.5	4,503.1	4,465.5	4,465.0	10.8	1.4	-168.70	-2,884.3	-651.3	3,220.4	3,209.1	11.28	285.371	
4,592.4	4,568.0	4,525.0	4,524.5	10.9	1.4	-168.72	-2,884.3	-650.5	3,220.3	3,208.8	11.44	281.614	
4,600.0	4,575.6	4,530.9	4,530.4	11.0	1.4	-168.72	-2,884.4	-650.4	3,220.3	3,208.8	11.45	281.187	
4,626.0	4,601.5	4,551.0	4,550.5	11.0	1.4	-168.72	-2,884.4	-650.2	3,220.3	3,208.8	11.51	279.736	
4,700.0	4,675.6	4,612.7	4,612.2	11.2	1.4	-168.74	-2,884.9	-649.4	3,220.7	3,209.0	11.68	275.691	
4,724.4	4,700.0	4,641.0	4,640.5	11.2	1.4	-168.75	-2,885.1	-649.1	3,220.8	3,209.1	11.74	274.347	
4,800.0	4,775.6	4,722.8	4,722.3	11.4	1.4	-168.77	-2,885.7	-647.8	3,221.1	3,209.1	11.92	270.274	
4,822.8	4,798.4	4,743.8	4,743.2	11.4	1.4	-168.78	-2,885.8	-647.5	3,221.1	3,209.2	11.97	269.080	
4,900.0	4,875.6	4,813.1	4,812.5	11.6	1.4	-168.80	-2,886.3	-646.4	3,221.5	3,209.3	12.15	265.133	
4,921.2	4,896.8	4,830.5	4,830.0	11.6	1.4	-168.80	-2,886.5	-646.1	3,221.6	3,209.4	12.20	264.073	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
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
5,000.0	4,975.6	4,900.0	4,899.4	11.8	1.4	-168.83	-2,887.5	-644.8	3,222.4	3,210.0	12.38	260.220	
5,019.7	4,995.2	4,900.0	4,899.4	11.8	1.4	-168.83	-2,887.5	-644.8	3,222.6	3,210.2	12.43	259.340	
5,100.0	5,075.6	4,962.8	4,962.2	12.0	1.5	-168.86	-2,888.8	-643.4	3,224.0	3,211.4	12.61	255.609	
5,118.1	5,093.7	4,974.9	4,974.3	12.0	1.5	-168.86	-2,889.1	-643.1	3,224.4	3,211.8	12.65	254.798	
5,200.0	5,175.6	5,044.5	5,043.9	12.2	1.5	-168.90	-2,891.3	-641.5	3,226.6	3,213.8	12.85	251.159	
5,216.5	5,192.1	5,061.2	5,060.5	12.2	1.5	-168.91	-2,891.9	-641.1	3,227.1	3,214.2	12.89	250.429	
5,300.0	5,275.6	5,146.5	5,145.8	12.4	1.5	-168.95	-2,894.6	-639.2	3,229.3	3,216.2	13.08	246.803	
5,314.9	5,290.5	5,162.0	5,161.2	12.4	1.5	-168.96	-2,895.1	-638.9	3,229.7	3,216.6	13.12	246.164	
5,400.0	5,375.6	5,257.2	5,256.4	12.6	1.5	-168.99	-2,897.8	-637.6	3,231.9	3,218.6	13.32	242.558	
5,413.4	5,388.9	5,273.0	5,272.2	12.6	1.5	-168.99	-2,898.2	-637.4	3,232.2	3,218.8	13.36	241.994	
5,500.0	5,475.6	5,399.9	5,399.0	12.8	1.5	-169.02	-2,900.6	-636.6	3,233.7	3,220.1	13.57	238.289	
5,511.8	5,487.4	5,413.4	5,412.6	12.8	1.5	-169.02	-2,900.7	-636.6	3,233.8	3,220.2	13.60	237.797	
5,600.0	5,575.6	5,522.2	5,521.4	13.0	1.6	-169.02	-2,901.6	-636.3	3,234.5	3,220.7	13.81	234.194	
5,610.2	5,585.8	5,540.0	5,539.2	13.0	1.6	-169.03	-2,901.6	-636.3	3,234.5	3,220.7	13.83	233.796	
5,700.0	5,675.6	5,692.9	5,692.1	13.2	1.6	-169.06	-2,900.6	-634.2	3,233.7	3,219.6	14.05	230.227	
5,708.6	5,684.2	5,704.5	5,703.6	13.2	1.6	-169.06	-2,900.5	-634.0	3,233.5	3,219.5	14.07	229.884	
5,800.0	5,775.6	5,796.4	5,795.5	13.4	1.6	-169.10	-2,899.1	-631.7	3,231.7	3,217.5	14.28	226.367	
5,807.1	5,782.6	5,803.8	5,802.9	13.4	1.6	-169.10	-2,899.0	-631.5	3,231.6	3,217.3	14.29	226.098	
5,900.0	5,875.6	5,900.0	5,899.0	13.6	1.6	-169.14	-2,897.5	-628.7	3,229.7	3,215.2	14.51	222.617	
5,905.5	5,881.1	5,900.0	5,899.0	13.6	1.6	-169.14	-2,897.5	-628.7	3,229.6	3,215.0	14.52	222.424	
6,000.0	5,975.6	5,984.3	5,983.3	13.8	1.6	-169.18	-2,896.4	-626.2	3,227.8	3,213.1	14.74	219.023	
6,003.9	5,979.5	5,987.5	5,986.5	13.8	1.6	-169.19	-2,896.3	-626.1	3,227.7	3,213.0	14.75	218.885	
6,100.0	6,075.6	6,057.9	6,056.8	14.0	1.7	-169.22	-2,895.9	-623.9	3,226.6	3,211.6	14.97	215.591	
6,102.3	6,077.9	6,059.5	6,058.5	14.0	1.7	-169.22	-2,895.9	-623.8	3,226.6	3,211.6	14.97	215.512	
6,200.0	6,175.6	6,139.7	6,138.6	14.2	1.7	-169.27	-2,896.1	-621.2	3,226.2	3,211.0	15.20	212.290	
6,200.8	6,176.3	6,140.4	6,139.3	14.2	1.7	-169.27	-2,896.1	-621.2	3,226.2	3,211.0	15.20	212.264	
6,299.2	6,274.8	6,239.7	6,238.6	14.4	1.7	-169.34	-2,896.6	-617.3	3,226.0	3,210.6	15.43	209.081	
6,300.0	6,275.6	6,240.6	6,239.4	14.4	1.7	-169.34	-2,896.6	-617.3	3,226.0	3,210.6	15.43	209.055	
6,392.4	6,367.9	6,325.7	6,324.4	14.6	1.7	-169.41	-2,897.1	-613.5	3,225.8	3,210.2	15.65	206.160	
6,397.6	6,373.2	6,329.3	6,328.0	14.7	1.7	-169.41	-2,897.2	-613.4	3,225.8	3,210.1	15.66	206.001	
6,400.0	6,375.6	6,330.9	6,329.6	14.7	1.7	-169.41	-2,897.2	-613.3	3,225.8	3,210.1	15.66	205.929	
6,436.2	6,411.8	6,355.7	6,354.4	14.7	1.7	-169.43	-2,897.4	-612.1	3,225.9	3,210.1	15.75	204.843	
6,450.0	6,425.6	6,365.1	6,363.8	14.8	1.7	10.35	-2,897.6	-611.7	3,225.8	3,210.1	15.77	204.581	
6,496.0	6,471.5	6,400.0	6,398.7	14.8	1.7	10.35	-2,898.2	-610.0	3,223.9	3,208.0	15.85	203.357	
6,500.0	6,475.5	6,400.0	6,398.7	14.8	1.7	10.36	-2,898.2	-610.0	3,223.6	3,207.7	15.86	203.220	
6,550.0	6,525.1	6,433.6	6,432.2	14.9	1.7	10.42	-2,898.9	-608.4	3,218.1	3,202.1	16.00	201.077	
6,594.5	6,568.7	6,463.9	6,462.5	14.9	1.7	10.52	-2,899.7	-606.9	3,210.6	3,194.5	16.15	198.792	
6,600.0	6,574.1	6,467.7	6,466.2	14.9	1.8	10.54	-2,899.8	-606.7	3,209.5	3,193.4	16.17	198.493	
6,650.0	6,622.4	6,502.1	6,500.6	14.9	1.8	10.71	-2,900.9	-605.1	3,197.8	3,181.5	16.33	195.769	
6,692.9	6,663.0	6,547.2	6,545.7	14.9	1.8	10.91	-2,902.5	-602.7	3,185.2	3,168.7	16.47	193.358	
6,700.0	6,669.6	6,554.6	6,553.0	14.9	1.8	10.95	-2,902.7	-602.3	3,182.8	3,166.4	16.49	192.963	
6,750.0	6,715.6	6,607.2	6,605.5	14.9	1.8	11.26	-2,904.5	-599.1	3,164.6	3,147.9	16.63	190.264	
6,791.3	6,752.5	6,657.6	6,655.7	14.9	1.8	11.59	-2,906.1	-595.8	3,147.0	3,130.2	16.73	188.055	
6,800.0	6,760.1	6,668.0	6,666.1	14.9	1.8	11.67	-2,906.4	-595.1	3,143.0	3,126.2	16.75	187.604	
6,850.0	6,802.9	6,722.1	6,720.1	14.9	1.8	12.17	-2,907.9	-591.0	3,118.2	3,101.4	16.84	185.153	
6,889.7	6,835.6	6,759.6	6,757.4	14.9	1.8	12.65	-2,908.9	-587.9	3,096.3	3,079.4	16.89	183.363	
6,900.0	6,843.8	6,769.0	6,766.8	14.9	1.8	12.79	-2,909.2	-587.1	3,090.4	3,073.5	16.90	182.918	
6,950.0	6,882.6	6,810.7	6,808.3	14.9	1.8	13.55	-2,910.3	-583.5	3,059.8	3,042.9	16.92	180.854	
6,988.2	6,910.7	6,836.3	6,833.8	15.0	1.9	14.23	-2,911.0	-581.2	3,034.7	3,017.7	16.92	179.391	
7,000.0	6,919.1	6,844.0	6,841.5	15.0	1.9	14.47	-2,911.2	-580.4	3,026.6	3,009.7	16.91	178.944	
7,050.0	6,953.1	6,875.3	6,872.5	15.0	1.9	15.60	-2,912.2	-577.6	2,991.0	2,974.1	16.90	177.003	
7,086.6	6,976.4	6,900.0	6,897.2	15.1	1.9	16.61	-2,912.9	-575.3	2,963.5	2,946.6	16.89	175.422	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	6,984.5	6,906.1	6,903.2	15.1	1.9	17.01	-2,913.1	-574.7	2,953.1	2,936.2	16.89	174.854	
7,150.0	7,013.1	6,943.3	6,940.3	15.3	1.9	18.84	-2,914.2	-571.2	2,913.2	2,896.2	16.92	172.162	
7,185.0	7,031.4	6,967.2	6,964.0	15.4	1.9	20.42	-2,914.9	-569.0	2,884.0	2,867.0	16.98	169.891	
7,200.0	7,038.8	6,976.8	6,973.6	15.4	1.9	21.19	-2,915.1	-568.1	2,871.3	2,854.2	17.01	168.816	
7,250.0	7,061.4	7,006.2	7,002.8	15.6	1.9	24.26	-2,915.8	-565.4	2,827.6	2,810.4	17.19	164.498	
7,283.4	7,074.8	7,000.0	6,996.7	15.8	1.9	26.50	-2,915.7	-565.9	2,797.6	2,780.3	17.33	161.422	
7,300.0	7,080.9	7,000.0	6,996.7	15.9	1.9	27.81	-2,915.7	-565.9	2,782.6	2,765.2	17.43	159.645	
7,350.0	7,097.1	7,000.0	6,996.7	16.2	1.9	32.60	-2,915.7	-565.9	2,736.5	2,718.7	17.86	153.218	
7,381.9	7,105.7	7,000.0	6,996.7	16.4	1.9	36.52	-2,915.7	-565.9	2,706.6	2,688.4	18.24	148.352	
7,400.0	7,109.9	7,000.0	6,996.7	16.6	1.9	39.12	-2,915.7	-565.9	2,689.5	2,671.0	18.49	145.418	
7,450.0	7,119.4	7,000.0	6,996.7	17.0	1.9	48.14	-2,915.7	-565.9	2,641.7	2,622.4	19.29	136.947	
7,480.3	7,123.4	7,000.0	6,996.7	17.2	1.9	55.20	-2,915.7	-565.9	2,612.4	2,592.6	19.77	132.169	
7,500.0	7,125.4	7,000.0	6,996.7	17.4	1.9	60.54	-2,915.7	-565.9	2,593.3	2,573.3	20.01	129.614	
7,550.0	7,127.9	7,000.0	6,996.7	17.9	1.9	76.64	-2,915.7	-565.9	2,544.6	2,524.4	20.18	126.098	
7,562.9	7,128.0	7,000.0	6,996.7	18.0	1.9	81.25	-2,915.7	-565.9	2,532.0	2,511.9	20.12	125.828	
7,578.7	7,128.0	7,000.0	6,996.7	18.2	1.9	81.25	-2,915.7	-565.9	2,516.5	2,496.2	20.28	124.065	
7,600.0	7,127.9	7,000.0	6,996.7	18.4	1.9	81.25	-2,915.7	-565.9	2,495.7	2,475.2	20.50	121.744	
7,677.1	7,127.7	7,000.0	6,996.7	19.2	1.9	81.25	-2,915.7	-565.9	2,420.5	2,399.1	21.35	113.346	
7,700.0	7,127.7	7,000.0	6,996.7	19.5	1.9	81.25	-2,915.7	-565.9	2,398.2	2,376.6	21.61	110.988	
7,775.6	7,127.5	7,000.0	6,996.7	20.3	1.9	81.25	-2,915.7	-565.9	2,324.6	2,302.2	22.40	103.782	
7,800.0	7,127.5	7,000.0	6,996.7	20.5	1.9	81.25	-2,915.7	-565.9	2,300.9	2,278.2	22.65	101.562	
7,874.0	7,127.3	7,000.0	6,996.7	21.4	1.9	81.25	-2,915.7	-565.9	2,229.0	2,205.5	23.50	94.832	
7,900.0	7,127.2	7,000.0	6,996.7	21.7	1.9	81.25	-2,915.7	-565.9	2,203.8	2,180.0	23.80	92.583	
7,972.4	7,127.1	7,000.0	6,996.7	22.7	1.9	81.25	-2,915.7	-565.9	2,133.6	2,108.8	24.81	86.007	
8,000.0	7,127.0	7,000.0	6,996.7	23.1	1.9	81.25	-2,915.7	-565.9	2,107.0	2,081.8	25.19	83.642	
8,070.8	7,126.8	7,000.0	6,996.7	24.2	1.9	81.25	-2,915.7	-565.9	2,038.6	2,012.4	26.22	77.742	
8,100.0	7,126.8	7,000.0	6,996.7	24.6	1.9	81.25	-2,915.7	-565.9	2,010.5	1,983.8	26.65	75.449	
8,169.3	7,126.6	7,000.0	6,996.7	25.6	1.9	81.25	-2,915.7	-565.9	1,943.8	1,916.1	27.70	70.186	
8,200.0	7,126.6	7,000.0	6,996.7	26.1	1.9	81.24	-2,915.7	-565.9	1,914.3	1,886.2	28.16	67.979	
8,267.7	7,126.4	7,000.0	6,996.7	27.2	1.9	81.24	-2,915.7	-565.9	1,849.5	1,820.3	29.22	63.299	
8,300.0	7,126.3	7,000.0	6,996.7	27.7	1.9	81.24	-2,915.7	-565.9	1,818.6	1,788.9	29.72	61.185	
8,366.1	7,126.2	7,000.0	6,996.7	28.8	1.9	81.24	-2,915.7	-565.9	1,755.6	1,724.8	30.78	57.031	
8,400.0	7,126.1	7,000.0	6,996.7	29.3	1.9	81.24	-2,915.7	-565.9	1,723.4	1,692.1	31.33	55.015	
8,464.5	7,126.0	7,000.0	6,996.7	30.4	1.9	81.24	-2,915.7	-565.9	1,662.2	1,629.8	32.38	51.331	
8,500.0	7,125.9	7,000.0	6,996.7	31.0	1.9	81.24	-2,915.7	-565.9	1,628.7	1,595.8	32.96	49.412	
8,563.0	7,125.7	7,000.0	6,996.7	32.0	1.9	81.24	-2,915.7	-565.9	1,569.5	1,535.4	34.01	46.145	
8,600.0	7,125.6	7,000.0	6,996.7	32.6	1.9	81.24	-2,915.7	-565.9	1,534.7	1,500.1	34.63	44.321	
8,661.4	7,125.5	7,000.0	6,996.7	33.7	1.9	81.24	-2,915.7	-565.9	1,477.4	1,441.8	35.67	41.425	
8,700.0	7,125.4	7,000.0	6,996.7	34.4	1.9	81.24	-2,915.7	-565.9	1,441.6	1,405.3	36.32	39.693	
8,759.8	7,125.3	7,000.0	6,996.7	35.4	1.9	81.24	-2,915.7	-565.9	1,386.3	1,348.9	37.34	37.124	
8,800.0	7,125.2	7,000.0	6,996.7	36.1	1.9	81.24	-2,915.7	-565.9	1,349.4	1,311.3	38.03	35.483	
8,858.2	7,125.1	7,000.0	6,996.7	37.1	1.9	81.24	-2,915.7	-565.9	1,296.2	1,257.2	39.04	33.205	
8,900.0	7,125.0	7,000.0	6,996.7	37.8	1.9	81.24	-2,915.7	-565.9	1,258.4	1,218.6	39.76	31.650	
8,956.7	7,124.8	7,000.0	6,996.7	38.8	1.9	81.24	-2,915.7	-565.9	1,207.4	1,166.7	40.75	29.632	
9,000.0	7,124.7	7,000.0	6,996.7	39.6	1.9	81.24	-2,915.7	-565.9	1,168.8	1,127.3	41.50	28.162	
9,055.1	7,124.6	7,000.0	6,996.7	40.6	1.9	81.24	-2,915.7	-565.9	1,120.3	1,077.8	42.47	26.376	
9,100.0	7,124.5	7,000.0	6,996.7	41.4	1.9	81.24	-2,915.7	-565.9	1,081.1	1,037.9	43.26	24.990	
9,153.5	7,124.4	7,000.0	6,996.7	42.3	1.9	81.24	-2,915.7	-565.9	1,035.1	990.9	44.21	23.413	
9,200.0	7,124.3	7,000.0	6,996.7	43.2	1.9	81.24	-2,915.7	-565.9	995.8	950.7	45.03	22.111	
9,251.9	7,124.2	7,000.0	6,996.7	44.1	1.9	81.24	-2,915.7	-565.9	952.5	906.6	45.96	20.725	
9,300.0	7,124.1	7,000.0	6,996.7	45.0	1.9	81.24	-2,915.7	-565.9	913.4	866.5	46.82	19.509	
9,350.4	7,123.9	7,000.0	6,996.7	45.9	1.9	81.24	-2,915.7	-565.9	873.2	825.5	47.72	18.300	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,400.0	7,123.8	7,000.0	6,996.7	46.8	1.9	81.24	-2,915.7	-565.9	834.8	786.2	48.61	17.175	
9,448.8	7,123.7	7,000.0	6,996.7	47.7	1.9	81.24	-2,915.7	-565.9	798.2	748.7	49.49	16.130	
9,500.0	7,123.6	7,000.0	6,996.7	48.6	1.9	81.24	-2,915.7	-565.9	761.3	710.9	50.41	15.103	
9,547.2	7,123.5	7,000.0	6,996.7	49.4	1.9	81.24	-2,915.7	-565.9	728.8	677.5	51.26	14.217	
9,600.0	7,123.4	7,000.0	6,996.7	50.4	1.9	81.24	-2,915.7	-565.9	694.5	642.2	52.21	13.300	
9,645.6	7,123.3	7,000.0	6,996.7	51.2	1.9	81.24	-2,915.7	-565.9	666.7	613.7	53.04	12.569	
9,700.0	7,123.2	7,000.0	6,996.7	52.2	1.9	81.24	-2,915.7	-565.9	636.4	582.3	54.03	11.778	
9,744.1	7,123.1	7,000.0	6,996.7	53.1	1.9	81.24	-2,915.7	-565.9	614.2	559.4	54.83	11.202	
9,800.0	7,122.9	7,000.0	6,996.7	54.1	1.9	81.24	-2,915.7	-565.9	589.6	533.8	55.85	10.557	
9,842.5	7,122.8	7,000.0	6,996.7	54.9	1.9	81.24	-2,915.7	-565.9	573.9	517.3	56.62	10.135	
9,900.0	7,122.7	7,000.0	6,996.7	55.9	1.9	81.24	-2,915.7	-565.9	557.1	499.4	57.67	9.659	
9,940.9	7,122.6	7,000.0	6,996.7	56.7	1.9	81.24	-2,915.7	-565.9	548.5	490.0	58.42	9.388	
10,000.0	7,122.5	7,000.0	6,996.7	57.8	1.9	81.24	-2,915.7	-565.9	541.3	481.8	59.50	9.097	
10,036.6	7,122.4	7,000.0	6,996.7	58.5	1.9	81.24	-2,915.7	-565.9	540.1	479.9	60.17	8.975 CC	
10,039.3	7,122.4	7,000.0	6,996.7	58.5	1.9	81.24	-2,915.7	-565.9	540.1	479.8	60.23	8.967 ES	
10,100.0	7,122.3	7,000.0	6,996.7	59.6	1.9	81.24	-2,915.7	-565.9	543.8	482.4	61.34	8.865	
10,137.8	7,122.2	7,000.0	6,996.7	60.3	1.9	81.24	-2,915.7	-565.9	549.5	487.4	62.03	8.858 SF	
10,200.0	7,122.0	7,000.0	6,996.7	61.5	1.9	81.24	-2,915.7	-565.9	564.2	501.1	63.18	8.931	
10,236.2	7,121.9	7,000.0	6,996.7	62.2	1.9	81.24	-2,915.7	-565.9	575.8	511.9	63.84	9.018	
10,300.0	7,121.8	7,000.0	6,996.7	63.3	1.9	81.24	-2,915.7	-565.9	600.9	535.9	65.02	9.242	
10,334.6	7,121.7	7,000.0	6,996.7	64.0	1.9	81.24	-2,915.7	-565.9	616.8	551.2	65.66	9.395	
10,400.0	7,121.6	7,000.0	6,996.7	65.2	1.9	81.24	-2,915.7	-565.9	650.9	584.1	66.86	9.735	
10,433.0	7,121.5	7,000.0	6,996.7	65.8	1.9	81.24	-2,915.7	-565.9	670.0	602.5	67.48	9.929	
10,500.0	7,121.4	7,000.0	6,996.7	67.1	1.9	81.24	-2,915.7	-565.9	711.6	642.9	68.71	10.356	
10,531.5	7,121.3	7,000.0	6,996.7	67.7	1.9	81.24	-2,915.7	-565.9	732.5	663.2	69.30	10.571	
10,600.0	7,121.1	7,000.0	6,996.7	69.0	1.9	81.24	-2,915.7	-565.9	780.4	709.9	70.56	11.060	
10,629.9	7,121.1	7,000.0	6,996.7	69.5	1.9	81.24	-2,915.7	-565.9	802.3	731.2	71.12	11.281	
10,700.0	7,120.9	7,000.0	6,996.7	70.8	1.9	81.24	-2,915.7	-565.9	855.4	783.0	72.42	11.812	
10,728.3	7,120.8	7,000.0	6,996.7	71.4	1.9	81.24	-2,915.7	-565.9	877.6	804.6	72.94	12.031	
10,800.0	7,120.7	7,000.0	6,996.7	72.7	1.9	81.24	-2,915.7	-565.9	935.1	860.8	74.28	12.590	
10,826.7	7,120.6	7,000.0	6,996.7	73.2	1.9	81.24	-2,915.7	-565.9	957.1	882.3	74.77	12.800	
10,900.0	7,120.5	7,000.0	6,996.7	74.6	1.9	81.24	-2,915.7	-565.9	1,018.4	942.3	76.13	13.376	
10,925.2	7,120.4	7,000.0	6,996.7	75.1	1.9	81.24	-2,915.7	-565.9	1,039.8	963.2	76.60	13.574	
11,000.0	7,120.2	7,000.0	6,996.7	76.5	1.9	81.24	-2,915.7	-565.9	1,104.5	1,026.5	78.00	14.161	
11,023.6	7,120.2	7,000.0	6,996.7	76.9	1.9	81.24	-2,915.7	-565.9	1,125.1	1,046.7	78.43	14.344	
11,100.0	7,120.0	7,000.0	6,996.7	78.3	1.9	81.24	-2,915.7	-565.9	1,192.7	1,112.8	79.86	14.935	
11,122.0	7,120.0	7,000.0	6,996.7	78.8	1.9	81.24	-2,915.7	-565.9	1,212.4	1,132.1	80.27	15.104	
11,200.0	7,119.8	7,000.0	6,996.7	80.2	1.9	81.24	-2,915.7	-565.9	1,282.6	1,200.9	81.72	15.695	
11,220.4	7,119.7	7,000.0	6,996.7	80.6	1.9	81.24	-2,915.7	-565.9	1,301.2	1,219.1	82.10	15.848	
11,300.0	7,119.5	7,000.0	6,996.7	82.1	1.9	81.24	-2,915.7	-565.9	1,374.0	1,290.4	83.59	16.438	
11,318.9	7,119.5	7,000.0	6,996.7	82.5	1.9	81.24	-2,915.7	-565.9	1,391.4	1,307.4	83.94	16.575	
11,400.0	7,119.3	7,000.0	6,996.7	84.0	1.9	81.24	-2,915.7	-565.9	1,466.5	1,381.0	85.46	17.160	
11,417.3	7,119.3	7,000.0	6,996.7	84.3	1.9	81.24	-2,915.7	-565.9	1,482.6	1,396.8	85.78	17.283	
11,500.0	7,119.1	7,000.0	6,996.7	85.9	1.9	81.24	-2,915.7	-565.9	1,559.9	1,472.6	87.33	17.863	
11,515.7	7,119.1	7,000.0	6,996.7	86.2	1.9	81.24	-2,915.7	-565.9	1,574.6	1,487.0	87.62	17.971	
11,600.0	7,118.9	7,000.0	6,996.7	87.8	1.9	81.24	-2,915.7	-565.9	1,654.1	1,564.9	89.20	18.544	
11,614.1	7,118.8	7,000.0	6,996.7	88.0	1.9	81.24	-2,915.7	-565.9	1,667.4	1,578.0	89.46	18.639	
11,700.0	7,118.6	7,000.0	6,996.7	89.7	1.9	81.24	-2,915.7	-565.9	1,748.9	1,657.8	91.07	19.204	
11,712.6	7,118.6	7,000.0	6,996.7	89.9	1.9	81.24	-2,915.7	-565.9	1,760.9	1,669.5	91.30	19.286	
11,800.0	7,118.4	7,000.0	6,996.7	91.6	1.9	81.24	-2,915.7	-565.9	1,844.3	1,751.3	92.94	19.843	
11,811.0	7,118.4	7,000.0	6,996.7	91.8	1.9	81.24	-2,915.7	-565.9	1,854.8	1,761.6	93.15	19.912	
11,900.0	7,118.2	7,000.0	6,996.7	93.4	1.9	81.24	-2,915.7	-565.9	1,940.1	1,845.3	94.82	20.462	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,909.4	7,118.2	7,000.0	6,996.7	93.6	1.9	81.24	-2,915.7	-565.9	1,949.1	1,854.2	94.99	20.519	
12,000.0	7,118.0	7,000.0	6,996.7	95.3	1.9	81.25	-2,915.7	-565.9	2,036.3	1,939.6	96.69	21.060	
12,007.8	7,118.0	7,000.0	6,996.7	95.5	1.9	81.25	-2,915.7	-565.9	2,043.9	1,947.1	96.84	21.106	
12,100.0	7,117.8	7,000.0	6,996.7	97.2	1.9	81.25	-2,915.7	-565.9	2,132.9	2,034.4	98.57	21.639	
12,106.3	7,117.7	7,000.0	6,996.7	97.4	1.9	81.25	-2,915.7	-565.9	2,139.0	2,040.3	98.69	21.675	
12,200.0	7,117.5	7,000.0	6,996.7	99.1	1.9	81.25	-2,915.7	-565.9	2,229.8	2,129.4	100.44	22.199	
12,204.7	7,117.5	7,000.0	6,996.7	99.2	1.9	81.25	-2,915.7	-565.9	2,234.4	2,133.8	100.53	22.225	
12,300.0	7,117.3	7,000.0	6,996.7	101.0	1.9	81.25	-2,915.7	-565.9	2,327.0	2,224.6	102.32	22.741	
12,303.1	7,117.3	7,000.0	6,996.7	101.1	1.9	81.25	-2,915.7	-565.9	2,330.0	2,227.6	102.38	22.758	
12,400.0	7,117.1	7,000.0	6,996.7	102.9	1.9	81.25	-2,915.7	-565.9	2,424.3	2,320.1	104.20	23.266	
12,401.5	7,117.1	7,000.0	6,996.7	103.0	1.9	81.25	-2,915.7	-565.9	2,425.8	2,321.6	104.23	23.274	
12,500.0	7,116.9	7,000.0	6,996.7	104.8	1.9	81.25	-2,915.7	-565.9	2,521.9	2,415.8	106.08	23.773	
12,598.4	7,116.6	7,000.0	6,996.7	106.7	1.9	81.25	-2,915.7	-565.9	2,618.1	2,510.2	107.93	24.257	
12,600.0	7,116.6	7,000.0	6,996.7	106.7	1.9	81.25	-2,915.7	-565.9	2,619.7	2,511.7	107.96	24.265	
12,696.8	7,116.4	7,000.0	6,996.7	108.6	1.9	81.25	-2,915.7	-565.9	2,714.5	2,604.7	109.78	24.726	
12,700.0	7,116.4	7,000.0	6,996.7	108.6	1.9	81.25	-2,915.7	-565.9	2,717.6	2,607.8	109.84	24.741	
12,795.2	7,116.2	7,000.0	6,996.7	110.4	1.9	81.25	-2,915.7	-565.9	2,811.0	2,699.4	111.64	25.181	
12,800.0	7,116.2	7,000.0	6,996.7	110.5	1.9	81.25	-2,915.7	-565.9	2,815.7	2,704.0	111.72	25.202	
12,893.7	7,116.0	7,000.0	6,996.7	112.3	1.9	81.25	-2,915.7	-565.9	2,907.7	2,794.2	113.49	25.621	
12,900.0	7,116.0	7,000.0	6,996.7	112.4	1.9	81.25	-2,915.7	-565.9	2,913.9	2,800.3	113.61	25.649	
12,992.1	7,115.7	7,000.0	6,996.7	114.2	1.9	81.25	-2,915.7	-565.9	3,004.5	2,889.1	115.34	26.048	
13,000.0	7,115.7	7,000.0	6,996.7	114.3	1.9	81.25	-2,915.7	-565.9	3,012.2	2,896.7	115.49	26.082	
13,090.5	7,115.5	7,000.0	6,996.7	116.1	1.9	81.25	-2,915.7	-565.9	3,101.3	2,984.1	117.20	26.463	
13,100.0	7,115.5	7,000.0	6,996.7	116.2	1.9	81.25	-2,915.7	-565.9	3,110.7	2,993.3	117.37	26.502	
13,188.9	7,115.3	7,000.0	6,996.7	117.9	1.9	81.25	-2,915.7	-565.9	3,198.3	3,079.2	119.05	26.865	
13,200.0	7,115.3	7,000.0	6,996.7	118.1	1.9	81.25	-2,915.7	-565.9	3,209.2	3,089.9	119.26	26.910	
13,287.4	7,115.1	7,000.0	6,996.7	119.8	1.9	81.25	-2,915.7	-565.9	3,295.3	3,174.4	120.90	27.256	
13,300.0	7,115.1	7,000.0	6,996.7	120.0	1.9	81.25	-2,915.7	-565.9	3,307.8	3,186.7	121.14	27.305	
13,385.8	7,114.9	7,000.0	6,996.7	121.7	1.9	81.25	-2,915.7	-565.9	3,392.5	3,269.7	122.76	27.635	
13,400.0	7,114.8	7,000.0	6,996.7	121.9	1.9	81.25	-2,915.7	-565.9	3,406.5	3,283.5	123.03	27.689	
13,484.2	7,114.6	7,000.0	6,996.7	123.6	1.9	81.25	-2,915.7	-565.9	3,489.7	3,365.1	124.62	28.004	
13,500.0	7,114.6	7,000.0	6,996.7	123.9	1.9	81.25	-2,915.7	-565.9	3,505.3	3,380.4	124.91	28.062	
13,582.6	7,114.4	7,000.0	6,996.7	125.4	1.9	81.25	-2,915.7	-565.9	3,587.0	3,460.5	126.47	28.362	
13,600.0	7,114.4	7,000.0	6,996.7	125.8	1.9	81.25	-2,915.7	-565.9	3,604.1	3,477.3	126.80	28.424	
13,681.1	7,114.2	7,000.0	6,996.7	127.3	1.9	81.25	-2,915.7	-565.9	3,684.3	3,556.0	128.33	28.710	
13,700.0	7,114.2	7,000.0	6,996.7	127.7	1.9	81.25	-2,915.7	-565.9	3,703.0	3,574.3	128.69	28.776	
13,779.5	7,114.0	7,000.0	6,996.7	129.2	1.9	81.25	-2,915.7	-565.9	3,781.7	3,651.5	130.19	29.048	
13,800.0	7,113.9	7,000.0	6,996.7	129.6	1.9	81.25	-2,915.7	-565.9	3,802.0	3,671.4	130.57	29.118	
13,877.9	7,113.8	7,000.0	6,996.7	131.1	1.9	81.25	-2,915.7	-565.9	3,879.1	3,747.1	132.04	29.378	
13,900.0	7,113.7	7,000.0	6,996.7	131.5	1.9	81.25	-2,915.7	-565.9	3,901.0	3,768.5	132.46	29.450	
13,976.3	7,113.5	7,000.0	6,996.7	132.9	1.9	81.25	-2,915.7	-565.9	3,976.6	3,842.7	133.90	29.698	
14,000.0	7,113.5	7,000.0	6,996.7	133.4	1.9	81.25	-2,915.7	-565.9	4,000.0	3,865.7	134.35	29.774	
14,074.8	7,113.3	7,000.0	6,996.7	134.8	1.9	81.25	-2,915.7	-565.9	4,074.1	3,938.4	135.76	30.010	
14,100.0	7,113.3	7,000.0	6,996.7	135.3	1.9	81.25	-2,915.7	-565.9	4,099.1	3,962.9	136.24	30.089	
14,173.2	7,113.1	7,000.0	6,996.7	136.7	1.9	81.25	-2,915.7	-565.9	4,171.7	4,034.1	137.62	30.314	
14,200.0	7,113.0	7,000.0	6,996.7	137.2	1.9	81.25	-2,915.7	-565.9	4,198.3	4,060.2	138.12	30.395	
14,219.1	7,113.0	7,000.0	6,996.7	137.6	1.9	81.25	-2,915.7	-565.9	4,217.3	4,078.8	138.49	30.453	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												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	-102.75	-193.1	-853.2	875.1				
98.4	98.4	75.7	75.7	0.1	0.1	-102.75	-193.0	-853.2	874.8	874.6	0.17	5,005.693	
100.0	100.0	77.2	77.2	0.1	0.1	-102.75	-193.0	-853.2	874.8	874.6	0.18	4,909.742	
196.8	196.8	173.7	173.7	0.3	0.2	-102.74	-192.9	-853.3	874.8	874.4	0.50	1,760.112	
200.0	200.0	176.9	176.9	0.3	0.2	-102.74	-192.9	-853.3	874.9	874.3	0.51	1,724.142	
295.3	295.3	271.8	271.8	0.5	0.3	-102.73	-192.7	-853.4	874.9	874.1	0.82	1,065.580	
300.0	300.0	276.5	276.5	0.5	0.3	-102.73	-192.7	-853.5	874.9	874.1	0.84	1,045.773	
393.7	393.7	369.9	369.9	0.8	0.4	-102.71	-192.5	-853.6	875.1	873.9	1.15	764.158	
400.0	400.0	376.1	376.1	0.8	0.4	-102.70	-192.4	-853.7	875.1	873.9	1.17	750.571	
492.1	492.1	467.9	467.9	1.0	0.5	-102.68	-192.1	-853.9	875.2	873.8	1.47	595.728	
500.0	500.0	475.8	475.8	1.0	0.5	-102.68	-192.1	-853.9	875.3	873.8	1.50	585.408	
590.5	590.5	566.0	566.0	1.2	0.6	-102.65	-191.7	-854.2	875.4	873.7	1.79	488.194	
600.0	600.0	575.4	575.4	1.2	0.6	-102.64	-191.6	-854.2	875.5	873.6	1.82	479.881	
689.0	689.0	661.6	661.6	1.4	0.8	-102.61	-191.2	-854.7	875.8	873.6	2.18	400.948	
700.0	700.0	672.2	672.2	1.4	0.8	-102.60	-191.1	-854.7	875.9	873.6	2.23	392.393	
787.4	787.4	757.5	757.5	1.6	1.0	-102.57	-190.8	-855.5	876.5	873.9	2.60	336.515	
800.0	800.0	769.9	769.9	1.7	1.0	-102.57	-190.8	-855.6	876.6	874.0	2.66	329.812	
885.8	885.8	854.2	854.1	1.9	1.2	-102.56	-190.8	-856.4	877.4	874.4	3.02	290.143	
900.0	900.0	868.0	868.0	1.9	1.2	-102.56	-190.8	-856.6	877.6	874.5	3.08	284.474	
984.2	984.2	949.7	949.7	2.1	1.4	-102.54	-190.8	-857.6	878.6	875.2	3.45	254.738	
1,000.0	1,000.0	964.9	964.9	2.1	1.4	-102.54	-190.8	-857.8	878.8	875.3	3.52	249.847	
1,082.7	1,082.7	1,046.6	1,046.6	2.3	1.6	-102.54	-191.1	-859.0	880.1	876.2	3.87	227.144	
1,100.0	1,100.0	1,064.1	1,064.1	2.3	1.6	-102.55	-191.2	-859.2	880.4	876.4	3.95	222.923	
1,181.1	1,181.1	1,144.9	1,144.8	2.5	1.8	-102.58	-192.0	-860.3	881.6	877.3	4.30	205.227	
1,200.0	1,200.0	1,163.5	1,163.4	2.6	1.8	-102.59	-192.2	-860.6	881.9	877.5	4.38	201.529	
1,279.5	1,279.5	1,242.7	1,242.7	2.7	2.0	-102.64	-193.2	-861.7	883.2	878.5	4.72	187.275	
1,300.0	1,300.0	1,263.3	1,263.3	2.8	2.0	-102.65	-193.4	-862.0	883.5	878.7	4.80	183.912	
1,377.9	1,377.9	1,341.3	1,341.3	3.0	2.2	-98.45	-194.4	-863.0	884.9	879.8	5.14	172.194	
1,400.0	1,400.0	1,363.3	1,363.2	3.0	2.2	-98.50	-194.6	-863.3	885.4	880.1	5.23	169.158	
1,476.4	1,476.3	1,441.2	1,441.1	3.2	2.4	-98.74	-195.5	-864.4	887.1	881.6	5.57	159.383	
1,500.0	1,499.8	1,465.8	1,465.7	3.2	2.4	-98.85	-195.8	-864.7	887.7	882.0	5.67	156.569	
1,574.8	1,574.4	1,541.2	1,541.1	3.4	2.6	-99.24	-196.5	-865.4	889.6	883.6	6.00	148.330	
1,600.0	1,599.5	1,566.0	1,565.9	3.5	2.6	-99.39	-196.7	-865.7	890.3	884.2	6.11	145.795	
1,673.2	1,672.2	1,637.6	1,637.5	3.6	2.8	-99.89	-197.1	-866.6	892.7	886.3	6.43	138.791	
1,700.0	1,698.7	1,663.8	1,663.7	3.7	2.9	-100.10	-197.2	-866.9	893.7	887.2	6.55	136.424	
1,771.6	1,769.5	1,733.7	1,733.6	3.9	3.0	-100.70	-197.5	-867.9	896.7	889.9	6.88	130.288	
1,800.0	1,797.5	1,761.3	1,761.1	4.0	3.1	-100.96	-197.5	-868.3	898.1	891.1	7.01	128.045	
1,870.1	1,866.3	1,829.3	1,829.1	4.2	3.2	-101.66	-197.5	-869.4	901.8	894.4	7.36	122.579	
1,900.1	1,895.8	1,858.4	1,858.2	4.3	3.3	-101.98	-197.5	-869.9	903.6	896.1	7.50	120.417	
1,968.5	1,962.6	1,924.5	1,924.3	4.5	3.4	-102.80	-197.3	-871.2	907.9	900.0	7.86	115.552	
2,000.0	1,993.4	1,955.0	1,954.8	4.6	3.5	-103.17	-197.1	-871.8	910.0	901.9	8.02	113.466	
2,066.9	2,058.9	2,020.0	2,019.8	4.8	3.6	-103.94	-196.7	-873.2	914.5	906.1	8.38	109.158	
2,100.0	2,091.3	2,052.4	2,052.2	4.9	3.7	-104.33	-196.5	-873.8	916.8	908.3	8.56	107.167	
2,165.3	2,155.2	2,116.3	2,116.1	5.1	3.8	-105.08	-196.1	-875.2	921.6	912.6	8.91	103.376	
2,200.0	2,189.1	2,150.2	2,150.0	5.3	3.9	-105.48	-195.9	-875.9	924.1	915.0	9.11	101.494	
2,263.8	2,251.4	2,212.7	2,212.4	5.5	4.0	-106.20	-195.5	-877.3	929.0	919.5	9.46	98.176	
2,300.0	2,286.9	2,248.1	2,247.9	5.6	4.1	-106.61	-195.3	-878.0	931.8	922.1	9.67	96.410	
2,362.2	2,347.7	2,309.0	2,308.7	5.9	4.2	-107.31	-195.0	-879.3	936.8	926.8	10.02	93.510	
2,400.0	2,384.7	2,346.0	2,345.7	6.0	4.3	-107.73	-194.7	-880.1	939.9	929.6	10.23	91.855	
2,460.6	2,444.0	2,405.3	2,405.0	6.3	4.4	-108.39	-194.4	-881.4	944.9	934.4	10.58	89.320	
2,500.0	2,482.5	2,443.8	2,443.5	6.4	4.5	-108.82	-194.2	-882.2	948.3	937.5	10.80	87.772	
2,559.0	2,540.3	2,501.6	2,501.3	6.6	4.6	-109.46	-193.9	-883.4	953.4	942.3	11.14	85.555	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												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	
2,600.0	2,580.3	2,541.9	2,541.6	6.8	4.7	-109.91	-193.7	-884.3	957.1	945.7	11.38	84.105	
2,617.6	2,597.5	2,559.2	2,558.9	6.9	4.7	-110.09	-193.6	-884.7	958.7	947.2	11.48	83.498	
2,657.5	2,636.6	2,598.5	2,598.2	7.0	4.8	-110.57	-193.3	-885.5	962.2	950.5	11.69	82.283	
2,700.0	2,678.4	2,640.5	2,640.2	7.2	4.9	-111.04	-193.1	-886.4	965.7	953.8	11.92	81.019	
2,755.9	2,733.5	2,696.0	2,695.6	7.3	5.0	-111.60	-192.7	-887.5	970.1	958.0	12.19	79.613	
2,800.0	2,777.0	2,739.8	2,739.5	7.4	5.1	-111.98	-192.4	-888.5	973.4	961.0	12.40	78.524	
2,854.3	2,830.9	2,794.0	2,793.6	7.6	5.2	-112.40	-192.0	-889.6	977.0	964.4	12.64	77.277	
2,900.0	2,876.2	2,839.6	2,839.2	7.7	5.3	-112.70	-191.7	-890.5	979.8	966.9	12.85	76.242	
2,952.7	2,928.7	2,892.4	2,892.0	7.8	5.4	-113.00	-191.3	-891.6	982.7	969.6	13.08	75.134	
3,000.0	2,975.8	2,939.7	2,939.3	7.9	5.5	-113.20	-190.9	-892.6	984.9	971.6	13.28	74.147	
3,051.2	3,026.8	2,991.1	2,990.7	8.0	5.7	-113.38	-190.4	-893.6	987.0	973.5	13.49	73.157	
3,100.0	3,075.6	3,042.2	3,041.8	8.1	5.8	-113.49	-190.0	-894.6	988.6	974.9	13.69	72.187	
3,149.6	3,125.2	3,094.7	3,094.2	8.2	5.9	-113.56	-189.5	-895.4	989.7	975.8	13.89	71.259	
3,200.0	3,175.6	3,148.0	3,147.5	8.3	6.0	-113.57	-189.1	-896.1	990.4	976.3	14.09	70.305	
3,217.7	3,193.3	3,166.8	3,166.3	8.3	6.0	-117.84	-188.9	-896.3	990.5	976.3	14.15	69.996	
3,248.0	3,223.6	3,198.8	3,198.3	8.4	6.1	-117.82	-188.6	-896.6	990.6	976.3	14.27	69.422	
3,300.0	3,275.6	3,253.8	3,253.3	8.5	6.2	-117.79	-188.2	-896.9	990.7	976.2	14.47	68.449	
3,346.4	3,322.0	3,302.9	3,302.5	8.6	6.3	-117.77	-187.8	-897.0	990.6	975.9	14.66	67.560	
3,400.0	3,375.6	3,359.6	3,359.1	8.7	6.4	-117.75	-187.3	-896.9	990.3	975.5	14.88	66.553	
3,444.9	3,420.4	3,407.1	3,406.6	8.7	6.5	-117.73	-187.0	-896.7	990.0	974.9	15.06	65.720	
3,500.0	3,475.6	3,465.4	3,464.9	8.8	6.6	-117.72	-186.5	-896.3	989.4	974.1	15.29	64.713	
3,543.3	3,518.9	3,510.4	3,509.9	8.9	6.7	-117.72	-186.2	-895.8	988.9	973.4	15.47	63.939	
3,600.0	3,575.6	3,565.9	3,565.5	9.0	6.9	-117.71	-185.8	-895.2	988.1	972.4	15.69	62.982	
3,641.7	3,617.3	3,606.8	3,606.4	9.1	6.9	-117.71	-185.5	-894.8	987.6	971.7	15.85	62.294	
3,700.0	3,675.6	3,663.9	3,663.5	9.2	7.1	-117.70	-185.0	-894.3	987.0	970.9	16.08	61.360	
3,740.1	3,715.7	3,703.3	3,702.8	9.3	7.1	-117.69	-184.6	-894.1	986.5	970.3	16.24	60.732	
3,800.0	3,775.6	3,761.9	3,761.5	9.4	7.3	-117.67	-184.1	-893.7	986.0	969.5	16.48	59.823	
3,838.6	3,814.1	3,799.7	3,799.3	9.5	7.3	-117.65	-183.8	-893.6	985.7	969.0	16.64	59.250	
3,900.0	3,875.6	3,859.9	3,859.5	9.6	7.5	-117.63	-183.2	-893.4	985.2	968.4	16.88	58.364	
3,937.0	3,912.6	3,896.2	3,895.7	9.7	7.5	-117.61	-182.8	-893.3	985.0	968.0	17.03	57.843	
4,000.0	3,975.6	3,957.9	3,957.5	9.8	7.7	-117.58	-182.2	-893.3	984.7	967.4	17.28	56.980	
4,035.4	4,011.0	3,992.7	3,992.2	9.9	7.7	-117.56	-181.8	-893.3	984.6	967.1	17.42	56.506	
4,100.0	4,075.6	4,058.5	4,058.0	10.0	7.9	-117.51	-181.0	-893.4	984.3	966.6	17.69	55.635	
4,133.8	4,109.4	4,093.3	4,092.8	10.0	8.0	-117.49	-180.5	-893.5	984.1	966.3	17.83	55.184	
4,200.0	4,175.6	4,161.1	4,160.6	10.2	8.1	-117.44	-179.5	-893.5	983.6	965.5	18.11	54.318	
4,232.3	4,207.8	4,194.2	4,193.7	10.2	8.2	-117.41	-179.0	-893.5	983.4	965.1	18.24	53.901	
4,300.0	4,275.6	4,263.6	4,263.1	10.4	8.3	-117.34	-177.7	-893.4	982.7	964.2	18.53	53.042	
4,330.7	4,306.3	4,295.1	4,294.6	10.4	8.4	-117.31	-177.0	-893.3	982.4	963.8	18.66	52.658	
4,400.0	4,375.6	4,366.2	4,365.6	10.6	8.5	-117.24	-175.5	-893.2	981.6	962.6	18.95	51.806	
4,429.1	4,404.7	4,396.0	4,395.5	10.6	8.6	-117.20	-174.8	-893.1	981.2	962.1	19.07	51.453	
4,500.0	4,475.6	4,468.7	4,468.1	10.8	8.8	-117.12	-173.0	-892.8	980.2	960.8	19.37	50.608	
4,527.5	4,503.1	4,496.9	4,496.3	10.8	8.8	-117.08	-172.3	-892.7	979.8	960.3	19.48	50.284	
4,600.0	4,575.6	4,572.1	4,571.5	11.0	9.0	-116.99	-170.3	-892.3	978.5	958.7	19.79	49.446	
4,626.0	4,601.5	4,599.1	4,598.4	11.0	9.0	-116.96	-169.6	-892.0	978.0	958.1	19.90	49.149	
4,700.0	4,675.6	4,675.9	4,675.3	11.2	9.2	-116.90	-167.9	-891.1	976.4	956.2	20.21	48.313	
4,724.4	4,700.0	4,701.2	4,700.6	11.2	9.2	-116.88	-167.4	-890.7	975.8	955.5	20.31	48.040	
4,800.0	4,775.6	4,779.7	4,779.1	11.4	9.4	-116.84	-165.8	-889.2	973.9	953.3	20.63	47.206	
4,822.8	4,798.4	4,803.4	4,802.7	11.4	9.5	-116.83	-165.4	-888.7	973.3	952.6	20.73	46.956	
4,900.0	4,875.6	4,883.5	4,882.8	11.6	9.6	-116.81	-164.1	-888.8	971.1	950.0	21.05	46.123	
4,921.2	4,896.8	4,905.6	4,904.9	11.6	9.7	-116.81	-163.8	-886.2	970.4	949.3	21.14	45.896	
5,000.0	4,975.6	4,987.3	4,986.5	11.8	9.8	-116.82	-162.7	-883.7	967.8	946.3	21.48	45.064	
5,019.7	4,995.2	5,007.3	5,006.5	11.8	9.9	-116.82	-162.5	-883.0	967.1	945.6	21.56	44.862	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 13-7U - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 usft
Survey Program: 600-MWD													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					
5,100.0	5,075.6	5,085.5	5,084.7	12.0	10.0	-116.85	-161.6	-880.5	964.4	942.5	21.88	44.071					
5,118.1	5,093.7	5,103.2	5,102.3	12.0	10.1	-116.85	-161.4	-879.9	963.8	941.9	21.96	43.896					
5,200.0	5,175.6	5,183.0	5,182.1	12.2	10.2	-116.87	-160.6	-877.6	961.3	939.0	22.29	43.127					
5,216.5	5,192.1	5,199.1	5,198.2	12.2	10.3	-116.88	-160.5	-877.1	960.8	938.4	22.36	42.975					
5,300.0	5,275.6	5,280.5	5,279.6	12.4	10.4	-116.90	-159.7	-874.8	958.4	935.7	22.70	42.227					
5,314.9	5,290.5	5,295.1	5,294.1	12.4	10.5	-116.90	-159.6	-874.5	957.9	935.2	22.76	42.096					
5,400.0	5,375.6	5,378.0	5,377.0	12.6	10.6	-116.92	-158.9	-872.4	955.7	932.6	23.10	41.369					
5,413.4	5,388.9	5,391.0	5,390.1	12.6	10.7	-116.93	-158.8	-872.1	955.4	932.2	23.16	41.257					
5,500.0	5,475.6	5,475.5	5,474.5	12.8	10.8	-116.95	-158.2	-870.1	953.3	929.8	23.51	40.550					
5,511.8	5,487.4	5,487.0	5,486.0	12.8	10.9	-116.95	-158.1	-869.9	953.1	929.5	23.56	40.456					
5,600.0	5,575.6	5,573.7	5,572.7	13.0	11.0	-116.97	-157.6	-868.1	951.2	927.3	23.92	39.765					
5,610.2	5,585.8	5,583.8	5,582.7	13.0	11.1	-116.97	-157.5	-867.9	951.0	927.0	23.96	39.687					
5,700.0	5,675.6	5,672.1	5,671.1	13.2	11.2	-117.00	-157.2	-866.1	949.2	924.9	24.33	39.012					
5,708.6	5,684.2	5,680.6	5,679.6	13.2	11.3	-117.01	-157.2	-865.9	949.1	924.7	24.37	38.948					
5,800.0	5,775.6	5,770.5	5,769.5	13.4	11.4	-117.05	-157.1	-864.1	947.4	922.7	24.74	38.290					
5,807.1	5,782.6	5,777.5	5,776.4	13.4	11.5	-117.05	-157.1	-864.0	947.3	922.5	24.77	38.240					
5,900.0	5,875.6	5,868.9	5,867.9	13.6	11.6	-117.11	-157.2	-862.3	945.8	920.6	25.15	37.597					
5,905.5	5,881.1	5,874.3	5,873.3	13.6	11.7	-117.11	-157.2	-862.2	945.7	920.5	25.18	37.560					
6,000.0	5,975.6	5,967.3	5,966.3	13.8	11.8	-117.17	-157.5	-860.5	944.3	918.7	25.57	36.933					
6,003.9	5,979.5	5,971.2	5,970.1	13.8	11.9	-117.18	-157.5	-860.4	944.2	918.6	25.58	36.907					
6,100.0	6,075.6	6,066.9	6,065.8	14.0	12.1	-117.25	-158.0	-858.7	942.9	916.9	25.98	36.288					
6,102.3	6,077.9	6,069.2	6,068.1	14.0	12.1	-117.25	-158.0	-858.7	942.9	916.9	25.99	36.273					
6,200.0	6,175.6	6,167.0	6,165.8	14.2	12.3	-117.33	-158.5	-856.9	941.6	915.2	26.40	35.661					
6,200.8	6,176.3	6,167.7	6,166.6	14.2	12.3	-117.33	-158.5	-856.9	941.6	915.1	26.41	35.656					
6,299.2	6,274.8	6,266.3	6,265.1	14.4	12.5	-117.40	-158.9	-855.2	940.2	913.4	26.82	35.056					
6,300.0	6,275.6	6,267.1	6,265.9	14.4	12.5	-117.40	-158.9	-855.1	940.2	913.4	26.82	35.052					
6,397.6	6,373.2	6,364.8	6,363.6	14.7	12.7	-117.47	-159.4	-853.4	938.9	911.6	27.23	34.474					
6,400.0	6,375.6	6,367.1	6,366.0	14.7	12.7	-117.47	-159.4	-853.4	938.8	911.6	27.24	34.460					
6,436.2	6,411.8	6,403.4	6,402.3	14.7	12.8	-117.50	-159.5	-852.7	938.3	910.9	27.40	34.250					
6,450.0	6,425.6	6,417.2	6,416.0	14.8	12.8	62.30	-159.6	-852.5	938.1	910.6	27.45	34.175					
6,496.0	6,471.5	6,463.2	6,462.0	14.8	12.9	62.52	-159.8	-851.7	936.3	908.8	27.59	33.935					
6,500.0	6,475.5	6,467.2	6,466.0	14.8	12.9	62.55	-159.8	-851.6	936.1	908.5	27.60	33.913					
6,550.0	6,525.1	6,517.4	6,516.2	14.9	13.0	63.11	-160.0	-850.7	932.6	904.9	27.73	33.634					
6,594.5	6,568.7	6,562.5	6,561.3	14.9	13.1	63.87	-160.1	-849.9	928.1	900.3	27.82	33.365					
6,600.0	6,574.1	6,568.0	6,566.8	14.9	13.1	63.99	-160.2	-849.7	927.4	899.6	27.83	33.329					
6,650.0	6,622.4	6,617.9	6,616.7	14.9	13.2	65.17	-160.3	-848.7	920.8	892.9	27.91	32.996					
6,692.9	6,663.0	6,659.8	6,658.6	14.9	13.3	66.43	-160.3	-847.8	914.0	886.1	27.97	32.683					
6,700.0	6,669.6	6,666.6	6,665.4	14.9	13.3	66.65	-160.3	-847.7	912.8	884.8	27.98	32.628					
6,750.0	6,715.6	6,714.0	6,712.8	14.9	13.4	68.42	-160.3	-846.6	903.7	875.6	28.05	32.220					
6,791.3	6,752.5	6,752.0	6,750.8	14.9	13.5	70.07	-160.3	-845.7	895.4	867.3	28.11	31.849					
6,800.0	6,760.1	6,759.9	6,758.6	14.9	13.5	70.44	-160.3	-845.5	893.6	865.5	28.13	31.767					
6,850.0	6,802.9	6,803.9	6,802.6	14.9	13.6	72.68	-160.2	-844.4	882.9	854.6	28.23	31.274					
6,889.7	6,835.6	6,837.5	6,836.2	14.9	13.7	74.58	-160.1	-843.5	874.0	845.7	28.33	30.854					
6,900.0	6,843.8	6,845.9	6,844.6	14.9	13.7	75.09	-160.1	-843.2	871.8	843.4	28.35	30.744					
6,950.0	6,882.6	6,885.7	6,884.4	14.9	13.8	77.62	-159.9	-842.1	860.6	832.1	28.51	30.193					
6,988.2	6,910.7	6,914.5	6,913.2	15.0	13.8	79.58	-159.8	-841.3	852.4	823.7	28.64	29.764					
7,000.0	6,919.1	6,923.1	6,921.8	15.0	13.9	80.19	-159.7	-841.1	849.9	821.2	28.68	29.635					
7,050.0	6,953.1	6,957.8	6,956.5	15.0	13.9	82.74	-159.6	-840.0	839.9	811.0	28.87	29.090					
7,086.6	6,976.4	6,981.5	6,980.2	15.1	14.0	84.54	-159.4	-839.3	833.2	804.2	29.03	28.706					
7,100.0	6,984.5	6,989.8	6,988.4	15.1	14.0	85.18	-159.4	-839.0	831.0	801.9	29.08	28.576					
7,150.0	7,013.1	7,017.3	7,016.0	15.3	14.1	87.35	-159.2	-838.2	823.7	794.4	29.30	28.113					
7,185.0	7,031.4	7,034.4	7,033.0	15.4	14.1	88.69	-159.1	-837.7	819.7	790.3	29.46	27.821					

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												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	
7,200.0	7,038.8	7,041.2	7,039.8	15.4	14.1	89.22	-159.0	-837.5	818.4	788.8	29.53	27.711	
7,250.0	7,061.4	7,062.1	7,060.7	15.6	14.2	90.77	-158.8	-836.9	815.4	785.6	29.79	27.372	
7,281.9	7,074.2	7,073.8	7,072.4	15.8	14.2	91.57	-158.7	-836.6	814.8	784.9	29.97	27.186 CC	
7,283.4	7,074.8	7,074.3	7,072.9	15.8	14.2	91.61	-158.7	-836.6	814.8	784.8	29.98	27.178 ES	
7,300.0	7,080.9	7,079.8	7,078.5	15.9	14.2	91.96	-158.6	-836.5	815.0	784.9	30.07	27.100	
7,350.0	7,097.1	7,094.5	7,093.1	16.2	14.2	92.74	-158.4	-836.1	817.5	787.1	30.40	26.892	
7,381.9	7,105.7	7,102.2	7,100.8	16.4	14.2	93.01	-158.4	-835.9	820.6	790.0	30.63	26.788	
7,400.0	7,109.9	7,105.9	7,104.5	16.6	14.2	93.08	-158.3	-835.8	822.9	792.1	30.77	26.747	
7,450.0	7,119.4	7,114.1	7,112.8	17.0	14.3	92.96	-158.2	-835.6	831.4	800.2	31.18	26.664	
7,480.3	7,123.4	7,117.5	7,116.2	17.2	14.3	92.66	-158.2	-835.6	838.0	806.5	31.46	26.639 SF	
7,500.0	7,125.4	7,119.1	7,117.7	17.4	14.3	92.37	-158.1	-835.5	842.9	811.2	31.64	26.641	
7,550.0	7,127.9	7,120.8	7,119.5	17.9	14.3	91.29	-158.1	-835.5	857.2	825.1	32.13	26.680	
7,562.9	7,128.0	7,120.8	7,119.4	18.0	14.3	90.93	-158.1	-835.5	861.4	829.1	32.26	26.701	
7,578.7	7,128.0	7,120.5	7,119.1	18.2	14.3	90.92	-158.1	-835.5	866.7	834.3	32.42	26.732	
7,600.0	7,127.9	7,120.2	7,118.8	18.4	14.3	90.89	-158.1	-835.5	874.3	841.6	32.64	26.785	
7,677.1	7,127.7	7,119.1	7,117.7	19.2	14.3	90.82	-158.1	-835.5	905.4	871.9	33.50	27.025	
7,700.0	7,127.7	7,118.8	7,117.4	19.5	14.3	90.79	-158.1	-835.5	915.6	881.9	33.76	27.124	
7,775.6	7,127.5	7,117.7	7,116.3	20.3	14.3	90.72	-158.2	-835.6	952.7	918.1	34.55	27.571	
7,800.0	7,127.5	7,117.4	7,116.0	20.5	14.3	90.69	-158.2	-835.6	965.6	930.8	34.81	27.738	
7,874.0	7,127.3	7,116.3	7,114.9	21.4	14.3	90.62	-158.2	-835.6	1,007.4	971.7	35.67	28.244	
7,900.0	7,127.2	7,116.0	7,114.6	21.7	14.3	90.59	-158.2	-835.6	1,022.9	987.0	35.97	28.440	
7,972.4	7,127.1	7,115.0	7,113.6	22.7	14.3	90.52	-158.2	-835.6	1,068.4	1,031.4	36.98	28.890	
8,000.0	7,127.0	7,114.6	7,113.2	23.1	14.3	90.50	-158.2	-835.6	1,086.5	1,049.1	37.37	29.075	
8,070.8	7,126.8	7,113.6	7,112.2	24.2	14.3	90.43	-158.2	-835.7	1,134.7	1,096.3	38.41	29.542	
8,100.0	7,126.8	7,113.2	7,111.8	24.6	14.3	90.40	-158.2	-835.7	1,155.2	1,116.3	38.84	29.744	
8,169.3	7,126.6	7,112.2	7,110.9	25.6	14.3	90.33	-158.2	-835.7	1,205.3	1,165.5	39.90	30.213	
8,200.0	7,126.6	7,111.8	7,110.4	26.1	14.3	90.30	-158.2	-835.7	1,228.2	1,187.8	40.36	30.428	
8,267.7	7,126.4	7,110.9	7,109.5	27.2	14.3	90.24	-158.2	-835.7	1,279.7	1,238.3	41.43	30.887	
8,300.0	7,126.3	7,110.5	7,109.1	27.7	14.3	90.21	-158.3	-835.7	1,304.8	1,262.8	41.94	31.110	
8,366.1	7,126.2	7,109.6	7,108.2	28.8	14.3	90.15	-158.3	-835.7	1,357.1	1,314.1	43.01	31.554	
8,400.0	7,126.1	7,109.1	7,107.8	29.3	14.3	90.11	-158.3	-835.8	1,384.4	1,340.8	43.56	31.783	
8,464.5	7,126.0	7,108.3	7,106.9	30.4	14.3	90.05	-158.3	-835.8	1,437.1	1,392.5	44.62	32.205	
8,500.0	7,125.9	7,107.8	7,106.4	31.0	14.3	90.02	-158.3	-835.8	1,466.4	1,421.2	45.21	32.438	
8,563.0	7,125.7	7,107.0	7,105.6	32.0	14.2	89.96	-158.3	-835.8	1,519.2	1,473.0	46.27	32.837	
8,600.0	7,125.6	7,106.5	7,105.1	32.6	14.2	89.93	-158.3	-835.8	1,550.6	1,503.7	46.89	33.071	
8,661.4	7,125.5	7,105.7	7,104.3	33.7	14.2	89.87	-158.3	-835.8	1,603.2	1,555.3	47.93	33.446	
8,700.0	7,125.4	7,105.2	7,103.8	34.4	14.2	89.84	-158.3	-835.8	1,636.6	1,588.0	48.59	33.680	
8,759.8	7,125.3	7,104.4	7,103.1	35.4	14.2	89.78	-158.3	-835.9	1,688.8	1,639.1	49.63	34.030	
8,800.0	7,125.2	7,103.9	7,102.5	36.1	14.2	89.75	-158.3	-835.9	1,724.1	1,673.8	50.32	34.263	
8,858.2	7,125.1	7,103.2	7,101.8	37.1	14.2	89.70	-158.3	-835.9	1,775.6	1,724.3	51.34	34.589	
8,900.0	7,125.0	7,102.7	7,101.3	37.8	14.2	89.66	-158.4	-835.9	1,812.9	1,760.8	52.06	34.820	
8,956.7	7,124.8	7,101.9	7,100.6	38.8	14.2	89.61	-158.4	-835.9	1,863.7	1,810.6	53.06	35.123	
9,000.0	7,124.7	7,101.4	7,100.0	39.6	14.2	89.57	-158.4	-835.9	1,902.7	1,848.9	53.82	35.351	
9,055.1	7,124.6	7,100.7	7,099.3	40.6	14.2	89.52	-158.4	-836.0	1,952.7	1,897.9	54.80	35.632	
9,100.0	7,124.5	7,100.2	7,098.8	41.4	14.2	89.48	-158.4	-836.0	1,993.6	1,938.0	55.60	35.857	
9,153.5	7,124.4	7,099.5	7,098.1	42.3	14.2	89.44	-158.4	-836.0	2,042.6	1,986.0	56.55	36.117	
9,200.0	7,124.3	7,098.9	7,097.5	43.2	14.2	89.40	-158.4	-836.0	2,085.3	2,027.9	57.38	36.339	
9,251.9	7,124.2	7,098.3	7,096.9	44.1	14.2	89.35	-158.4	-836.0	2,133.2	2,074.9	58.32	36.579	
9,300.0	7,124.1	7,097.7	7,096.3	45.0	14.2	89.31	-158.4	-836.0	2,177.7	2,118.5	59.18	36.797	
9,350.4	7,123.9	7,097.1	7,095.7	45.9	14.2	89.27	-158.4	-836.0	2,224.5	2,164.4	60.09	37.019	
9,400.0	7,123.8	7,096.5	7,095.1	46.8	14.2	89.22	-158.4	-836.1	2,270.7	2,209.8	60.99	37.234	
9,448.8	7,123.7	7,095.9	7,094.5	47.7	14.2	89.18	-158.4	-836.1	2,316.4	2,254.5	61.87	37.438	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 13-7U - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												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	
9,500.0	7,123.6	7,095.3	7,093.9	48.6	14.2	89.14	-158.4	-836.1	2,364.4	2,301.6	62.80	37.649	
9,547.2	7,123.5	7,094.7	7,093.4	49.4	14.2	89.10	-158.4	-836.1	2,408.8	2,345.1	63.66	37.837	
9,600.0	7,123.4	7,094.1	7,092.7	50.4	14.2	89.06	-158.5	-836.1	2,458.5	2,393.9	64.62	38.044	
9,645.6	7,123.3	7,093.6	7,092.2	51.2	14.2	89.02	-158.5	-836.1	2,501.6	2,436.2	65.46	38.217	
9,700.0	7,123.2	7,092.9	7,091.6	52.2	14.2	88.97	-158.5	-836.1	2,553.1	2,486.6	66.45	38.420	
9,744.1	7,123.1	7,092.4	7,091.0	53.1	14.2	88.94	-158.5	-836.1	2,594.9	2,527.6	67.26	38.580	
9,800.0	7,122.9	7,091.8	7,090.4	54.1	14.2	88.89	-158.5	-836.2	2,648.0	2,579.8	68.29	38.779	
9,842.5	7,122.8	7,091.3	7,089.9	54.9	14.2	88.86	-158.5	-836.2	2,688.5	2,619.4	69.07	38.926	
9,900.0	7,122.7	7,090.6	7,089.2	55.9	14.2	88.81	-158.5	-836.2	2,743.4	2,673.2	70.13	39.121	
9,940.9	7,122.6	7,090.1	7,088.8	56.7	14.2	88.78	-158.5	-836.2	2,782.5	2,711.6	70.88	39.256	
10,000.0	7,122.5	7,089.5	7,088.1	57.8	14.2	88.73	-158.5	-836.2	2,839.0	2,767.0	71.97	39.447	
10,039.3	7,122.4	7,089.0	7,087.6	58.5	14.2	88.70	-158.5	-836.2	2,876.7	2,804.0	72.70	39.572	
10,100.0	7,122.3	7,088.3	7,087.0	59.6	14.2	88.65	-158.5	-836.2	2,935.0	2,861.1	73.82	39.759	
10,137.8	7,122.2	7,087.9	7,086.5	60.3	14.2	88.62	-158.5	-836.3	2,971.3	2,896.7	74.52	39.873	
10,200.0	7,122.0	7,087.2	7,085.8	61.5	14.2	88.57	-158.5	-836.3	3,031.2	2,955.5	75.67	40.057	
10,236.2	7,121.9	7,086.8	7,085.4	62.2	14.2	88.54	-158.5	-836.3	3,066.0	2,989.7	76.34	40.161	
10,300.0	7,121.8	7,086.1	7,084.7	63.3	14.2	88.50	-158.5	-836.3	3,127.6	3,050.1	77.53	40.342	
10,334.6	7,121.7	7,085.7	7,084.3	64.0	14.2	88.47	-158.6	-836.3	3,161.0	3,082.9	78.17	40.438	
10,400.0	7,121.6	7,085.0	7,083.6	65.2	14.2	88.42	-158.6	-836.3	3,224.2	3,144.9	79.39	40.615	
10,433.0	7,121.5	7,084.6	7,083.3	65.8	14.2	88.39	-158.6	-836.3	3,256.2	3,176.2	80.00	40.702	
10,500.0	7,121.4	7,083.9	7,082.5	67.1	14.2	88.34	-158.6	-836.4	3,321.1	3,239.9	81.25	40.876	
10,531.5	7,121.3	7,083.6	7,082.2	67.7	14.2	88.32	-158.6	-836.4	3,351.6	3,269.8	81.84	40.956	
10,600.0	7,121.1	7,082.8	7,081.5	69.0	14.2	88.27	-158.6	-836.4	3,418.1	3,335.0	83.11	41.126	
10,629.9	7,121.1	7,082.5	7,081.1	69.5	14.2	88.24	-158.6	-836.4	3,447.2	3,363.5	83.67	41.199	
10,700.0	7,120.9	7,081.8	7,080.4	70.8	14.2	88.19	-158.6	-836.4	3,515.3	3,430.4	84.98	41.366	
10,728.3	7,120.8	7,081.5	7,080.1	71.4	14.2	88.17	-158.6	-836.4	3,542.9	3,457.4	85.51	41.432	
10,800.0	7,120.7	7,080.7	7,079.3	72.7	14.2	88.12	-158.6	-836.4	3,612.7	3,525.8	86.85	41.597	
10,826.7	7,120.6	7,080.4	7,079.0	73.2	14.2	88.10	-158.6	-836.4	3,638.8	3,551.4	87.35	41.657	
10,900.0	7,120.5	7,079.7	7,078.3	74.6	14.2	88.04	-158.6	-836.5	3,710.2	3,621.5	88.72	41.818	
10,925.2	7,120.4	7,079.4	7,078.0	75.1	14.2	88.02	-158.6	-836.5	3,734.7	3,645.5	89.19	41.872	
11,000.0	7,120.2	7,078.6	7,077.2	76.5	14.2	87.97	-158.6	-836.5	3,807.8	3,717.2	90.60	42.031	
11,023.6	7,120.2	7,078.4	7,077.0	76.9	14.2	87.95	-158.6	-836.5	3,830.9	3,739.8	91.04	42.080	
11,100.0	7,120.0	7,077.6	7,076.2	78.3	14.2	87.90	-158.6	-836.5	3,905.5	3,813.1	92.47	42.236	
11,122.0	7,120.0	7,077.3	7,076.0	78.8	14.2	87.88	-158.6	-836.5	3,927.1	3,834.2	92.88	42.280	
11,200.0	7,119.8	7,076.6	7,075.2	80.2	14.2	87.83	-158.7	-836.5	4,003.4	3,909.0	94.35	42.433	
11,220.4	7,119.7	7,076.3	7,075.0	80.6	14.2	87.81	-158.7	-836.5	4,023.4	3,928.7	94.73	42.472	
11,300.0	7,119.5	7,075.5	7,074.2	82.1	14.2	87.75	-158.7	-836.6	4,101.3	4,005.1	96.23	42.622	
11,318.9	7,119.5	7,075.3	7,074.0	82.5	14.2	87.74	-158.7	-836.6	4,119.9	4,023.3	96.58	42.657	
11,400.0	7,119.3	7,074.5	7,073.2	84.0	14.2	87.68	-158.7	-836.6	4,199.4	4,101.3	98.10	42.805	
11,417.3	7,119.3	7,074.4	7,073.0	84.3	14.2	87.67	-158.7	-836.6	4,216.4	4,117.9	98.43	42.836	
11,500.0	7,119.1	7,073.5	7,072.2	85.9	14.2	87.61	-158.7	-836.6	4,297.5	4,197.6	99.99	42.982	
11,515.7	7,119.1	7,073.4	7,072.0	86.2	14.2	87.60	-158.7	-836.6	4,313.0	4,212.7	100.28	43.009	
11,600.0	7,118.9	7,072.5	7,071.2	87.8	14.2	87.55	-158.7	-836.6	4,395.8	4,293.9	101.87	43.152	
11,614.1	7,118.8	7,072.4	7,071.0	88.0	14.2	87.54	-158.7	-836.6	4,409.7	4,307.5	102.13	43.175	
11,700.0	7,118.6	7,071.6	7,070.2	89.7	14.2	87.48	-158.7	-836.7	4,494.1	4,390.3	103.75	43.316	
11,712.6	7,118.6	7,071.4	7,070.1	89.9	14.2	87.47	-158.7	-836.7	4,506.4	4,402.5	103.99	43.336	
11,800.0	7,118.4	7,070.6	7,069.2	91.6	14.2	87.41	-158.7	-836.7	4,592.4	4,486.8	105.63	43.475	
11,811.0	7,118.4	7,070.5	7,069.1	91.8	14.2	87.40	-158.7	-836.7	4,603.3	4,497.4	105.84	43.492	
11,900.0	7,118.2	7,069.6	7,068.3	93.4	14.2	87.34	-158.7	-836.7	4,690.9	4,583.4	107.52	43.629	
11,909.4	7,118.2	7,069.5	7,068.2	93.6	14.2	87.34	-158.7	-836.7	4,700.2	4,592.5	107.70	43.643	
12,000.0	7,118.0	7,068.7	7,067.3	95.3	14.2	87.27	-158.7	-836.7	4,789.4	4,680.0	109.40	43.777	
12,007.8	7,118.0	7,068.6	7,067.2	95.5	14.2	87.27	-158.7	-836.7	4,797.1	4,687.6	109.55	43.788	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												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	
12,100.0	7,117.8	7,067.7	7,066.4	97.2	14.2	87.21	-158.7	-836.8	4,888.0	4,776.7	111.29	43.921	
12,106.3	7,117.7	7,067.7	7,066.3	97.4	14.2	87.20	-158.7	-836.8	4,894.2	4,782.7	111.41	43.930	
12,200.0	7,117.5	7,066.8	7,065.4	99.1	14.2	87.14	-158.8	-836.8	4,986.6	4,873.4	113.18	44.060	
12,204.7	7,117.5	7,066.8	7,065.4	99.2	14.2	87.14	-158.8	-836.8	4,991.2	4,878.0	113.27	44.066	
12,300.0	7,117.3	7,065.9	7,064.5	101.0	14.2	87.08	-158.8	-836.8	5,085.3	4,970.2	115.07	44.195	
12,303.1	7,117.3	7,065.8	7,064.5	101.1	14.2	87.08	-158.8	-836.8	5,088.4	4,973.2	115.12	44.199	
12,400.0	7,117.1	7,000.0	6,998.7	102.9	14.0	82.51	-159.3	-838.7	5,184.6	5,068.4	116.12	44.647	
12,401.5	7,117.1	7,000.0	6,998.7	103.0	14.0	82.51	-159.3	-838.7	5,186.1	5,069.9	116.15	44.649	
12,500.0	7,116.9	7,000.0	6,998.7	104.8	14.0	82.51	-159.3	-838.7	5,283.3	5,165.3	118.01	44.771	
12,598.4	7,116.6	7,000.0	6,998.7	106.7	14.0	82.51	-159.3	-838.7	5,380.5	5,260.7	119.86	44.889	
12,600.0	7,116.6	7,000.0	6,998.7	106.7	14.0	82.51	-159.3	-838.7	5,382.1	5,262.2	119.89	44.891	
12,696.8	7,116.4	7,000.0	6,998.7	108.6	14.0	82.51	-159.3	-838.7	5,477.8	5,356.1	121.72	45.004	
12,700.0	7,116.4	7,000.0	6,998.7	108.6	14.0	82.51	-159.3	-838.7	5,481.0	5,359.2	121.78	45.007	
12,795.2	7,116.2	7,000.0	6,998.7	110.4	14.0	82.51	-159.3	-838.7	5,575.1	5,451.6	123.58	45.115	
12,800.0	7,116.2	7,000.0	6,998.7	110.5	14.0	82.51	-159.3	-838.7	5,579.8	5,456.2	123.67	45.120	
12,893.7	7,116.0	7,000.0	6,998.7	112.3	14.0	82.51	-159.3	-838.7	5,672.5	5,547.1	125.43	45.223	
12,900.0	7,116.0	7,000.0	6,998.7	112.4	14.0	82.51	-159.3	-838.7	5,678.8	5,553.2	125.55	45.230	
12,992.1	7,115.7	7,000.0	6,998.7	114.2	14.0	82.51	-159.3	-838.7	5,769.9	5,642.6	127.29	45.328	
13,000.0	7,115.7	7,000.0	6,998.7	114.3	14.0	82.51	-159.3	-838.7	5,777.7	5,650.3	127.44	45.336	
13,090.5	7,115.5	7,000.0	6,998.7	116.1	14.0	82.51	-159.3	-838.7	5,867.3	5,738.2	129.15	45.430	
13,100.0	7,115.5	7,000.0	6,998.7	116.2	14.0	82.51	-159.3	-838.7	5,876.7	5,747.4	129.33	45.439	
13,188.9	7,115.3	7,000.0	6,998.7	117.9	14.0	82.51	-159.3	-838.7	5,964.8	5,833.8	131.01	45.529	
13,200.0	7,115.3	7,000.0	6,998.7	118.1	14.0	82.51	-159.3	-838.7	5,975.8	5,844.5	131.22	45.540	
13,287.4	7,115.1	7,000.0	6,998.7	119.8	14.0	82.51	-159.3	-838.7	6,062.3	5,929.4	132.87	45.625	
13,300.0	7,115.1	7,000.0	6,998.7	120.0	14.0	82.51	-159.3	-838.7	6,074.8	5,941.7	133.11	45.638	
13,385.8	7,114.9	7,000.0	6,998.7	121.7	14.0	82.51	-159.3	-838.7	6,159.8	6,025.1	134.73	45.719	
13,400.0	7,114.8	7,000.0	6,998.7	121.9	14.0	82.51	-159.3	-838.7	6,173.9	6,038.9	135.00	45.733	
13,484.2	7,114.6	7,000.0	6,998.7	123.6	14.0	82.51	-159.3	-838.7	6,257.4	6,120.8	136.59	45.811	
13,500.0	7,114.6	7,000.0	6,998.7	123.9	14.0	82.51	-159.3	-838.7	6,273.0	6,136.1	136.89	45.825	
13,582.6	7,114.4	7,000.0	6,998.7	125.4	14.0	82.51	-159.3	-838.7	6,355.0	6,216.5	138.45	45.900	
13,600.0	7,114.4	7,000.0	6,998.7	125.8	14.0	82.51	-159.3	-838.7	6,372.2	6,233.4	138.78	45.915	
13,681.1	7,114.2	7,000.0	6,998.7	127.3	14.0	82.51	-159.3	-838.7	6,452.6	6,312.3	140.32	45.986	
13,700.0	7,114.2	7,000.0	6,998.7	127.7	14.0	82.51	-159.3	-838.7	6,471.3	6,330.7	140.67	46.003	
13,779.5	7,114.0	7,000.0	6,998.7	129.2	14.0	82.51	-159.3	-838.7	6,550.2	6,408.0	142.18	46.071	
13,800.0	7,113.9	7,000.0	6,998.7	129.6	14.0	82.51	-159.3	-838.7	6,570.5	6,428.0	142.57	46.088	
13,877.9	7,113.8	7,000.0	6,998.7	131.1	14.0	82.51	-159.3	-838.7	6,647.9	6,503.8	144.04	46.153	
13,900.0	7,113.7	7,000.0	6,998.7	131.5	14.0	82.51	-159.3	-838.7	6,669.8	6,525.3	144.46	46.171	
13,976.3	7,113.5	7,000.0	6,998.7	132.9	14.0	82.51	-159.3	-838.7	6,745.5	6,599.6	145.90	46.233	
14,000.0	7,113.5	7,000.0	6,998.7	133.4	14.0	82.51	-159.3	-838.7	6,769.0	6,622.7	146.35	46.252	
14,074.8	7,113.3	7,000.0	6,998.7	134.8	14.0	82.51	-159.3	-838.7	6,843.2	6,695.5	147.77	46.311	
14,100.0	7,113.3	7,000.0	6,998.7	135.3	14.0	82.51	-159.3	-838.7	6,868.3	6,720.0	148.24	46.331	
14,173.2	7,113.1	7,000.0	6,998.7	136.7	14.0	82.51	-159.3	-838.7	6,941.0	6,791.3	149.63	46.387	
14,200.0	7,113.0	7,000.0	6,998.7	137.2	14.0	82.51	-159.3	-838.7	6,967.6	6,817.4	150.14	46.408	
14,219.1	7,113.0	7,000.0	6,998.7	137.6	14.0	82.51	-159.3	-838.7	6,986.6	6,836.1	150.50	46.422	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	-90.00	0.0	-89.2	89.3				
98.4	98.4	95.4	95.4	0.1	0.1	-90.00	0.0	-89.2	89.2	89.0	0.19	474.080	
100.0	100.0	97.0	97.0	0.1	0.1	-90.00	0.0	-89.2	89.2	89.0	0.19	465.908	
196.8	196.8	193.8	193.8	0.3	0.3	-90.00	0.0	-89.2	89.2	88.6	0.62	143.206	
200.0	200.0	197.0	197.0	0.3	0.3	-90.00	0.0	-89.2	89.2	88.6	0.64	140.023	
295.3	295.3	292.3	292.3	0.5	0.5	-90.00	0.0	-89.2	89.2	88.2	1.07	83.739	
300.0	300.0	297.0	297.0	0.5	0.5	-90.00	0.0	-89.2	89.2	88.1	1.09	82.103	
393.7	393.7	390.7	390.7	0.8	0.8	-90.00	0.0	-89.2	89.2	87.7	1.51	59.169	
400.0	400.0	397.0	397.0	0.8	0.8	-90.00	0.0	-89.2	89.2	87.7	1.54	58.078	
492.1	492.1	489.1	489.1	1.0	1.0	-90.00	0.0	-89.2	89.2	87.3	1.95	45.747	
500.0	500.0	497.0	497.0	1.0	1.0	-90.00	0.0	-89.2	89.2	87.2	1.99	44.931	
590.5	590.5	587.5	587.5	1.2	1.2	-90.00	0.0	-89.2	89.2	86.8	2.39	37.288	
600.0	600.0	597.0	597.0	1.2	1.2	-90.00	0.0	-89.2	89.2	86.8	2.44	36.637	
689.0	689.0	686.0	686.0	1.4	1.4	-90.00	0.0	-89.2	89.2	86.4	2.84	31.469	
700.0	700.0	697.0	697.0	1.4	1.4	-90.00	0.0	-89.2	89.2	86.3	2.88	30.928	
787.4	787.4	784.4	784.4	1.6	1.6	-90.00	0.0	-89.2	89.2	85.9	3.28	27.221	
800.0	800.0	797.0	797.0	1.7	1.7	-90.00	0.0	-89.2	89.2	85.9	3.33	26.759	
885.8	885.8	882.8	882.8	1.9	1.9	-90.00	0.0	-89.2	89.2	85.5	3.72	23.984	
900.0	900.0	897.0	897.0	1.9	1.9	-90.00	0.0	-89.2	89.2	85.4	3.78	23.580	
984.2	984.2	981.2	981.2	2.1	2.1	-90.00	0.0	-89.2	89.2	85.1	4.16	21.434	
1,000.0	1,000.0	997.0	997.0	2.1	2.1	-90.00	0.0	-89.2	89.2	85.0	4.23	21.076 CC, ES	
1,082.7	1,082.7	1,077.3	1,077.3	2.3	2.3	-89.85	0.2	-90.2	90.3	85.7	4.59	19.660	
1,100.0	1,100.0	1,094.1	1,094.1	2.3	2.3	-89.79	0.3	-90.7	90.8	86.1	4.67	19.453	
1,181.1	1,181.1	1,172.6	1,172.5	2.5	2.5	-89.31	1.1	-94.3	94.5	89.5	5.01	18.844	
1,200.0	1,200.0	1,190.9	1,190.8	2.6	2.5	-89.16	1.4	-95.4	95.6	90.5	5.09	18.775	
1,279.5	1,279.5	1,267.6	1,267.2	2.7	2.7	-88.45	2.7	-101.4	101.9	96.4	5.44	18.739	
1,300.0	1,300.0	1,287.3	1,286.8	2.8	2.7	-88.25	3.2	-103.3	103.8	98.3	5.52	18.792	
1,377.9	1,377.9	1,362.0	1,361.0	3.0	2.9	-83.49	5.0	-111.5	112.4	106.5	5.86	19.169	
1,400.0	1,400.0	1,383.0	1,381.9	3.0	3.0	-83.51	5.6	-114.2	115.1	109.1	5.96	19.321	
1,476.4	1,476.3	1,455.7	1,453.8	3.2	3.2	-84.01	7.9	-124.5	125.7	119.4	6.29	19.977	
1,500.0	1,499.8	1,478.0	1,475.8	3.2	3.2	-84.28	8.7	-128.0	129.3	122.9	6.39	20.219	
1,574.8	1,574.4	1,548.5	1,545.1	3.4	3.4	-85.38	11.5	-140.3	141.8	135.0	6.73	21.079	
1,600.0	1,599.5	1,572.0	1,568.2	3.5	3.5	-85.82	12.5	-144.8	146.4	139.5	6.84	21.403	
1,673.2	1,672.2	1,640.1	1,634.8	3.6	3.8	-87.23	15.6	-158.7	160.8	153.7	7.18	22.407	
1,700.0	1,698.7	1,664.9	1,658.9	3.7	3.8	-87.78	16.9	-164.2	166.6	159.3	7.30	22.805	
1,771.6	1,769.5	1,730.5	1,722.6	3.9	4.1	-89.29	20.3	-179.6	183.0	175.3	7.66	23.891	
1,800.0	1,797.5	1,757.6	1,748.8	4.0	4.2	-89.93	21.8	-186.3	189.9	182.1	7.80	24.333	
1,870.1	1,866.3	1,825.1	1,814.2	4.2	4.5	-91.66	25.6	-203.0	207.1	198.9	8.19	25.302	
1,900.1	1,895.8	1,854.1	1,842.1	4.3	4.6	-92.44	27.2	-210.2	214.6	206.2	8.35	25.695	
1,968.5	1,962.6	1,919.8	1,905.7	4.5	4.9	-94.42	30.9	-226.5	231.8	223.1	8.76	26.475	
2,000.0	1,993.4	1,950.1	1,935.0	4.6	5.1	-95.24	32.6	-234.0	239.8	230.9	8.95	26.809	
2,066.9	2,058.9	2,014.4	1,997.2	4.8	5.4	-96.82	36.1	-250.0	257.0	247.6	9.36	27.445	
2,100.0	2,091.3	2,046.2	2,028.0	4.9	5.5	-97.52	37.9	-257.8	265.5	256.0	9.57	27.736	
2,165.3	2,155.2	2,109.1	2,088.8	5.1	5.8	-98.78	41.4	-273.4	282.5	272.5	10.00	28.249	
2,200.0	2,189.1	2,142.4	2,121.0	5.3	6.0	-99.39	43.3	-281.7	291.6	281.3	10.23	28.501	
2,263.8	2,251.4	2,203.7	2,180.3	5.5	6.3	-100.43	46.7	-296.9	308.3	297.7	10.66	28.916	
2,300.0	2,286.9	2,238.5	2,214.0	5.6	6.5	-100.96	48.6	-305.5	317.9	306.9	10.91	29.134	
2,362.2	2,347.7	2,298.3	2,271.8	5.9	6.8	-101.81	52.0	-320.3	334.3	323.0	11.34	29.472	
2,400.0	2,384.7	2,334.7	2,307.0	6.0	7.0	-102.29	54.0	-329.3	344.3	332.7	11.61	29.661	
2,460.6	2,444.0	2,393.0	2,363.3	6.3	7.2	-103.00	57.2	-343.8	360.4	348.4	12.04	29.936	
2,500.0	2,482.5	2,430.8	2,400.0	6.4	7.4	-103.43	59.4	-353.1	370.9	358.6	12.32	30.102	
2,559.0	2,540.3	2,487.6	2,454.9	6.6	7.7	-104.03	62.5	-367.2	386.7	374.0	12.75	30.327	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
2,600.0	2,580.3	2,527.0	2,493.0	6.8	7.9	-104.42	64.7	-377.0	397.7	384.6	13.05	30.473	
2,617.6	2,597.5	2,543.9	2,509.3	6.9	8.0	-104.58	65.7	-381.2	402.4	389.2	13.18	30.532	
2,657.5	2,636.6	2,582.3	2,546.4	7.0	8.2	-105.11	67.8	-390.7	413.0	399.6	13.46	30.679	
2,700.0	2,678.4	2,623.3	2,586.1	7.2	8.4	-105.56	70.1	-400.8	424.2	410.5	13.76	30.819	
2,755.9	2,733.5	2,677.2	2,638.3	7.3	8.7	-106.01	73.1	-414.2	438.7	424.6	14.13	31.051	
2,800.0	2,777.0	2,719.9	2,679.6	7.4	8.9	-106.26	75.5	-424.8	449.9	435.5	14.41	31.215	
2,854.3	2,830.9	2,772.5	2,730.4	7.6	9.2	-106.44	78.4	-437.8	463.4	448.7	14.75	31.423	
2,900.0	2,876.2	2,816.8	2,773.2	7.7	9.4	-106.50	80.9	-448.8	474.6	459.6	15.03	31.582	
2,952.7	2,928.7	2,867.9	2,822.7	7.8	9.7	-106.46	83.7	-461.4	487.3	472.0	15.33	31.778	
3,000.0	2,975.8	2,913.7	2,867.0	7.9	10.0	-106.35	86.3	-472.8	498.4	482.8	15.60	31.941	
3,051.2	3,026.8	2,963.4	2,915.1	8.0	10.2	-106.14	89.0	-485.1	510.3	494.4	15.88	32.135	
3,100.0	3,075.6	3,010.7	2,960.9	8.1	10.5	-105.86	91.7	-496.8	521.4	505.2	16.14	32.311	
3,149.6	3,125.2	3,058.8	3,007.3	8.2	10.7	-105.51	94.3	-508.7	532.5	516.1	16.38	32.511	
3,200.0	3,175.6	3,107.6	3,054.5	8.3	11.0	-105.08	97.1	-520.8	543.6	526.9	16.62	32.709	
3,217.7	3,193.3	3,124.8	3,071.1	8.3	11.1	-109.20	98.0	-525.1	547.4	530.7	16.71	32.762	
3,248.0	3,223.6	3,154.0	3,099.5	8.4	11.2	-108.78	99.7	-532.4	554.0	537.2	16.84	32.897	
3,300.0	3,275.6	3,204.3	3,148.1	8.5	11.5	-108.09	102.5	-544.8	565.4	548.4	17.07	33.132	
3,346.4	3,322.0	3,249.2	3,191.5	8.6	11.7	-107.49	105.0	-555.9	575.7	558.4	17.27	33.328	
3,400.0	3,375.6	3,301.0	3,241.6	8.7	12.0	-106.83	107.8	-568.8	587.6	570.1	17.51	33.555	
3,444.9	3,420.4	3,344.4	3,283.6	8.7	12.2	-106.30	110.3	-579.5	597.6	579.9	17.71	33.743	
3,500.0	3,475.6	3,397.8	3,335.2	8.8	12.5	-105.66	113.2	-592.7	610.0	592.0	17.95	33.975	
3,543.3	3,518.9	3,439.6	3,375.7	8.9	12.8	-105.18	115.6	-603.1	619.8	601.6	18.15	34.154	
3,600.0	3,575.6	3,494.5	3,428.7	9.0	13.1	-104.58	118.6	-616.7	632.6	614.2	18.40	34.389	
3,641.7	3,617.3	3,534.8	3,467.8	9.1	13.3	-104.15	120.9	-626.7	642.1	623.5	18.58	34.559	
3,700.0	3,675.6	3,591.2	3,522.3	9.2	13.6	-103.57	124.0	-640.7	655.4	636.6	18.84	34.795	
3,740.1	3,715.7	3,630.0	3,559.8	9.3	13.8	-103.18	126.2	-650.3	664.7	645.7	19.01	34.956	
3,800.0	3,775.6	3,687.9	3,615.8	9.4	14.1	-102.63	129.4	-664.6	678.5	659.2	19.28	35.193	
3,838.6	3,814.1	3,725.2	3,651.9	9.5	14.3	-102.28	131.5	-673.9	687.4	667.9	19.45	35.343	
3,900.0	3,875.6	3,784.6	3,709.4	9.6	14.6	-101.74	134.8	-688.6	701.6	681.9	19.72	35.581	
3,937.0	3,912.6	3,820.4	3,744.0	9.7	14.8	-101.43	136.8	-697.5	710.3	690.4	19.88	35.722	
4,000.0	3,975.6	3,881.4	3,802.9	9.8	15.1	-100.92	140.2	-712.6	725.0	704.8	20.16	35.959	
4,035.4	4,011.0	3,915.6	3,836.1	9.9	15.3	-100.64	142.1	-721.1	733.3	712.9	20.32	36.090	
4,100.0	4,075.6	3,978.1	3,896.5	10.0	15.7	-100.14	145.6	-736.6	748.4	727.8	20.60	36.325	
4,133.8	4,109.4	4,010.8	3,928.1	10.0	15.8	-99.89	147.4	-744.7	756.4	735.6	20.75	36.447	
4,200.0	4,175.6	4,074.8	3,990.0	10.2	16.2	-99.42	151.0	-760.5	772.0	751.0	21.05	36.681	
4,232.3	4,207.8	4,106.0	4,020.2	10.2	16.4	-99.19	152.7	-768.3	779.7	758.5	21.19	36.793	
4,300.0	4,275.6	4,171.5	4,083.6	10.4	16.7	-98.73	156.4	-784.5	795.7	774.2	21.49	37.026	
4,330.7	4,306.3	4,201.2	4,112.3	10.4	16.9	-98.53	158.0	-791.8	803.0	781.4	21.63	37.129	
4,400.0	4,375.6	4,268.2	4,177.1	10.6	17.2	-98.09	161.7	-808.5	819.5	797.6	21.94	37.359	
4,429.1	4,404.7	4,296.4	4,204.4	10.6	17.4	-97.91	163.3	-815.4	826.5	804.4	22.07	37.454	
4,500.0	4,475.6	4,365.0	4,270.7	10.8	17.8	-97.48	167.1	-832.4	843.4	821.0	22.38	37.682	
4,527.5	4,503.1	4,391.6	4,296.4	10.8	17.9	-97.32	168.6	-839.0	850.0	827.5	22.51	37.768	
4,600.0	4,575.6	4,461.7	4,364.2	11.0	18.3	-96.90	172.5	-856.4	867.4	844.6	22.83	37.993	
4,626.0	4,601.5	4,486.8	4,388.5	11.0	18.4	-96.76	173.9	-862.6	873.6	850.7	22.95	38.072	
4,700.0	4,675.6	4,558.4	4,457.8	11.2	18.8	-96.36	177.9	-880.4	891.4	868.2	23.28	38.294	
4,724.4	4,700.0	4,582.0	4,480.6	11.2	18.9	-96.23	179.2	-886.2	897.3	873.9	23.39	38.366	
4,800.0	4,775.6	4,655.1	4,551.3	11.4	19.3	-95.84	183.3	-904.3	915.6	891.8	23.73	38.585	
4,822.8	4,798.4	4,677.2	4,572.7	11.4	19.5	-95.73	184.5	-909.8	921.1	897.3	23.83	38.650	
4,900.0	4,875.6	4,751.8	4,644.9	11.6	19.9	-95.35	188.7	-928.3	939.8	915.6	24.18	38.866	
4,921.2	4,896.8	4,772.4	4,664.8	11.6	20.0	-95.25	189.8	-933.4	944.9	920.6	24.28	38.924	
5,000.0	4,975.6	4,848.6	4,738.4	11.8	20.4	-94.88	194.1	-952.3	964.0	939.4	24.63	39.137	
5,019.7	4,995.2	4,867.6	4,756.8	11.8	20.5	-94.79	195.1	-957.0	968.8	944.1	24.72	39.189	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
5,100.0	5,075.6	4,945.3	4,832.0	12.0	20.9	-94.44	199.5	-976.2	988.3	963.3	25.09	39.398	
5,118.1	5,093.7	4,962.8	4,848.9	12.0	21.0	-94.36	200.5	-980.6	992.7	967.6	25.17	39.444	
5,200.0	5,175.6	5,042.0	4,925.5	12.2	21.4	-94.02	204.9	-1,000.2	1,012.7	987.2	25.54	39.650	
5,216.5	5,192.1	5,058.0	4,941.0	12.2	21.5	-93.95	205.8	-1,004.2	1,016.7	991.1	25.62	39.691	
5,300.0	5,275.6	5,138.7	5,019.1	12.4	22.0	-93.62	210.3	-1,024.2	1,037.1	1,011.1	26.00	39.894	
5,314.9	5,290.5	5,153.2	5,033.1	12.4	22.0	-93.56	211.1	-1,027.7	1,040.8	1,014.7	26.07	39.930	
5,400.0	5,375.6	5,235.4	5,112.6	12.6	22.5	-93.23	215.6	-1,048.1	1,061.6	1,035.1	26.45	40.129	
5,413.4	5,388.9	5,248.4	5,125.1	12.6	22.6	-93.18	216.4	-1,051.3	1,064.9	1,038.3	26.52	40.160	
5,500.0	5,475.6	5,332.2	5,206.2	12.8	23.0	-92.87	221.0	-1,072.1	1,086.1	1,059.2	26.91	40.356	
5,511.8	5,487.4	5,343.6	5,217.2	12.8	23.1	-92.82	221.7	-1,074.9	1,089.0	1,062.0	26.97	40.382	
5,600.0	5,575.6	5,428.9	5,299.7	13.0	23.5	-92.52	226.4	-1,096.1	1,110.6	1,083.3	27.37	40.575	
5,610.2	5,585.8	5,438.8	5,309.3	13.0	23.6	-92.48	227.0	-1,098.5	1,113.2	1,085.7	27.42	40.597	
5,700.0	5,675.6	5,525.6	5,393.3	13.2	24.1	-92.18	231.8	-1,120.0	1,135.2	1,107.4	27.83	40.787	
5,708.6	5,684.2	5,534.0	5,401.4	13.2	24.1	-92.15	232.3	-1,122.1	1,137.4	1,109.5	27.87	40.805	
5,800.0	5,775.6	5,622.3	5,486.8	13.4	24.6	-91.86	237.2	-1,144.0	1,159.8	1,131.5	28.29	40.992	
5,807.1	5,782.6	5,629.2	5,493.4	13.4	24.6	-91.84	237.6	-1,145.7	1,161.6	1,133.3	28.33	41.006	
5,900.0	5,875.6	5,767.2	5,627.5	13.6	25.2	-91.43	244.7	-1,177.5	1,183.0	1,154.2	28.84	41.023	
5,905.5	5,881.1	5,776.2	5,636.3	13.6	25.3	-91.41	245.2	-1,179.4	1,184.2	1,155.3	28.87	41.019	
6,000.0	5,975.6	5,932.2	5,789.6	13.8	25.8	-91.07	251.4	-1,207.3	1,201.0	1,171.6	29.38	40.872	
6,003.9	5,979.5	5,938.7	5,796.1	13.8	25.8	-91.06	251.7	-1,208.3	1,201.6	1,172.2	29.41	40.863	
6,100.0	6,075.6	6,100.2	5,956.3	14.0	26.2	-90.83	256.1	-1,228.2	1,213.4	1,183.5	29.91	40.567	
6,102.3	6,077.9	6,104.2	5,960.3	14.0	26.2	-90.83	256.2	-1,228.6	1,213.7	1,183.7	29.92	40.558	
6,200.0	6,175.6	6,270.3	6,125.9	14.2	26.5	-90.70	258.7	-1,239.7	1,220.1	1,189.7	30.41	40.123	
6,200.8	6,176.3	6,271.6	6,127.2	14.2	26.5	-90.70	258.7	-1,239.7	1,220.2	1,189.8	30.41	40.119	
6,299.2	6,274.8	6,416.1	6,271.7	14.4	26.6	-90.68	259.2	-1,241.8	1,221.4	1,190.6	30.85	39.590	
6,300.0	6,275.6	6,416.8	6,272.4	14.4	26.6	-90.68	259.2	-1,241.8	1,221.4	1,190.6	30.85	39.586	
6,397.6	6,373.2	6,511.3	6,366.6	14.7	26.7	-91.00	252.5	-1,241.8	1,221.5	1,190.3	31.21	39.143	
6,400.0	6,375.6	6,513.6	6,368.9	14.7	26.7	-91.01	252.1	-1,241.8	1,221.5	1,190.3	31.22	39.133	
6,436.2	6,411.8	6,547.9	6,402.8	14.7	26.7	-91.28	246.5	-1,241.9	1,221.7	1,190.3	31.35	38.974	
6,450.0	6,425.6	6,560.9	6,415.4	14.8	26.7	88.40	244.0	-1,241.9	1,221.8	1,190.4	31.37	38.947	
6,496.0	6,471.5	6,603.8	6,457.1	14.8	26.8	88.00	233.9	-1,241.9	1,222.0	1,190.5	31.50	38.798	
6,500.0	6,475.5	6,607.4	6,460.7	14.8	26.8	87.97	232.9	-1,241.9	1,222.1	1,190.5	31.51	38.787	
6,550.0	6,525.1	6,653.5	6,504.6	14.9	26.8	87.56	219.2	-1,242.0	1,222.4	1,190.8	31.61	38.669	
6,594.5	6,568.7	6,694.1	6,542.5	14.9	26.8	87.20	204.7	-1,242.0	1,222.8	1,191.1	31.68	38.598	
6,600.0	6,574.1	6,700.0	6,548.0	14.9	26.8	87.15	202.4	-1,242.0	1,222.8	1,191.1	31.69	38.589	
6,650.0	6,622.4	6,744.3	6,588.2	14.9	26.8	86.77	183.9	-1,242.1	1,223.3	1,191.5	31.74	38.543	
6,692.9	6,663.0	6,782.7	6,622.1	14.9	26.8	86.44	165.9	-1,242.2	1,223.7	1,191.9	31.76	38.524	
6,700.0	6,669.6	6,789.0	6,627.5	14.9	26.8	86.39	162.7	-1,242.2	1,223.7	1,192.0	31.77	38.522	
6,750.0	6,715.6	6,833.3	6,665.2	14.9	26.8	86.04	139.3	-1,242.3	1,224.3	1,192.5	31.78	38.517	
6,791.3	6,752.5	6,869.7	6,695.0	14.9	26.8	85.76	118.4	-1,242.3	1,224.7	1,192.9	31.79	38.519	
6,800.0	6,760.1	6,877.3	6,701.1	14.9	26.8	85.70	113.8	-1,242.4	1,224.8	1,193.0	31.80	38.519	
6,850.0	6,802.9	6,921.0	6,735.0	14.9	26.8	85.38	86.4	-1,242.5	1,225.3	1,193.5	31.81	38.518	
6,889.7	6,835.6	6,955.5	6,760.7	14.9	26.8	85.14	63.3	-1,242.5	1,225.7	1,193.9	31.83	38.506	
6,900.0	6,843.8	6,964.4	6,767.1	14.9	26.8	85.08	57.2	-1,242.6	1,225.8	1,194.0	31.84	38.501	
6,950.0	6,882.6	7,007.5	6,797.1	14.9	26.8	84.80	26.2	-1,242.7	1,226.4	1,194.5	31.89	38.456	
6,988.2	6,910.7	7,040.2	6,818.6	15.0	26.8	84.61	1.6	-1,242.8	1,226.8	1,194.8	31.95	38.391	
7,000.0	6,919.1	7,050.0	6,824.8	15.0	26.8	84.55	-6.0	-1,242.8	1,226.9	1,194.9	31.97	38.370	
7,050.0	6,953.1	7,093.0	6,850.9	15.0	26.8	84.32	-40.1	-1,242.9	1,227.3	1,195.2	32.11	38.228	
7,086.6	6,976.4	7,124.1	6,868.4	15.1	26.8	84.16	-65.8	-1,243.0	1,227.7	1,195.4	32.25	38.064	
7,100.0	6,984.5	7,135.4	6,874.6	15.1	26.8	84.11	-75.4	-1,243.1	1,227.8	1,195.5	32.31	38.005	
7,150.0	7,013.1	7,177.7	6,896.0	15.3	26.8	83.93	-111.8	-1,243.2	1,228.2	1,195.6	32.55	37.733	
7,185.0	7,031.4	7,207.2	6,909.7	15.4	26.9	83.82	-137.9	-1,243.3	1,228.4	1,195.7	32.77	37.488	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
7,200.0	7,038.8	7,219.8	6,915.2	15.4	26.9	83.77	-149.3	-1,243.3	1,228.5	1,195.7	32.87	37.373	
7,250.0	7,061.4	7,261.8	6,932.1	15.6	26.9	83.64	-187.7	-1,243.5	1,228.8	1,195.6	33.27	36.930	
7,283.4	7,074.8	7,289.9	6,942.2	15.8	27.0	83.57	-213.9	-1,243.6	1,229.0	1,195.4	33.60	36.583	
7,300.0	7,080.9	7,300.0	6,945.5	15.9	27.0	83.54	-223.4	-1,243.6	1,229.1	1,195.4	33.74	36.432	
7,350.0	7,097.1	7,345.6	6,959.0	16.2	27.1	83.46	-267.0	-1,243.8	1,229.3	1,194.9	34.33	35.805	
7,381.9	7,105.7	7,372.2	6,965.6	16.4	27.1	83.43	-292.8	-1,243.8	1,229.4	1,194.6	34.75	35.376	
7,400.0	7,109.9	7,387.4	6,968.9	16.6	27.2	83.41	-307.6	-1,243.9	1,229.4	1,194.4	34.99	35.133	
7,450.0	7,119.4	7,429.1	6,976.5	17.0	27.3	83.39	-348.6	-1,244.1	1,229.4	1,193.7	35.73	34.405	
7,480.3	7,123.4	7,454.4	6,979.8	17.2	27.4	83.39	-373.7	-1,244.1	1,229.4	1,193.2	36.22	33.940	
7,500.0	7,125.4	7,470.9	6,981.6	17.4	27.4	83.39	-390.1	-1,244.2	1,229.4	1,192.9	36.55	33.633	
7,550.0	7,127.9	7,512.6	6,984.3	17.9	27.6	83.43	-431.7	-1,244.4	1,229.3	1,191.9	37.44	32.832	
7,562.9	7,128.0	7,523.4	6,984.6	18.0	27.6	83.44	-442.5	-1,244.4	1,229.3	1,191.6	37.68	32.622	
7,578.7	7,128.0	7,536.6	6,984.7	18.2	27.7	83.45	-455.7	-1,244.4	1,229.3	1,191.3	37.97	32.375	
7,584.0	7,127.9	7,541.4	6,984.7	18.2	27.7	83.45	-460.5	-1,244.5	1,229.3	1,191.2	38.07	32.291	
7,600.0	7,127.9	7,557.0	6,984.6	18.4	27.8	83.45	-476.1	-1,244.5	1,229.3	1,190.9	38.39	32.022	
7,677.1	7,127.7	7,634.1	6,984.2	19.2	28.2	83.44	-553.2	-1,244.8	1,229.3	1,189.3	40.04	30.700	
7,700.0	7,127.7	7,657.0	6,984.1	19.5	28.3	83.43	-576.1	-1,244.9	1,229.3	1,188.8	40.54	30.324	
7,775.6	7,127.5	7,732.6	6,983.8	20.3	28.8	83.43	-651.6	-1,245.2	1,229.4	1,187.2	42.17	29.154	
7,800.0	7,127.5	7,757.0	6,983.6	20.5	29.0	83.42	-676.1	-1,245.3	1,229.4	1,186.7	42.71	28.787	
7,874.0	7,127.3	7,831.0	6,983.3	21.4	29.6	83.41	-750.1	-1,245.5	1,229.4	1,184.9	44.44	27.661	
7,900.0	7,127.2	7,857.0	6,983.1	21.7	29.9	83.41	-776.1	-1,245.6	1,229.4	1,184.3	45.07	27.276	
7,972.4	7,127.1	7,929.4	6,982.8	22.7	30.6	83.40	-848.5	-1,245.9	1,229.4	1,182.4	47.02	26.147	
8,000.0	7,127.0	7,957.0	6,982.7	23.1	30.8	83.40	-876.1	-1,246.0	1,229.4	1,181.6	47.78	25.733	
8,070.8	7,126.8	8,027.8	6,982.3	24.2	31.6	83.39	-946.9	-1,246.2	1,229.4	1,179.6	49.79	24.691	
8,100.0	7,126.8	8,057.0	6,982.2	24.6	31.9	83.39	-976.1	-1,246.4	1,229.5	1,178.8	50.64	24.280	
8,169.3	7,126.6	8,126.2	6,981.8	25.6	32.7	83.38	-1,045.3	-1,246.6	1,229.5	1,176.8	52.70	23.331	
8,200.0	7,126.6	8,157.0	6,981.7	26.1	33.1	83.37	-1,076.1	-1,246.7	1,229.5	1,175.9	53.62	22.928	
8,267.7	7,126.4	8,224.7	6,981.3	27.2	33.9	83.37	-1,143.8	-1,247.0	1,229.5	1,173.8	55.71	22.068	
8,300.0	7,126.3	8,257.0	6,981.2	27.7	34.3	83.36	-1,176.1	-1,247.1	1,229.5	1,172.8	56.72	21.676	
8,366.1	7,126.2	8,323.1	6,980.9	28.8	35.2	83.35	-1,242.2	-1,247.3	1,229.5	1,170.7	58.82	20.902	
8,400.0	7,126.1	8,357.0	6,980.7	29.3	35.7	83.35	-1,276.1	-1,247.5	1,229.5	1,169.6	59.91	20.523	
8,464.5	7,126.0	8,421.5	6,980.4	30.4	36.6	83.34	-1,340.6	-1,247.7	1,229.6	1,167.6	62.01	19.827	
8,500.0	7,125.9	8,457.0	6,980.2	31.0	37.1	83.34	-1,376.0	-1,247.8	1,229.6	1,166.4	63.18	19.462	
8,563.0	7,125.7	8,519.9	6,979.9	32.0	38.0	83.33	-1,439.0	-1,248.1	1,229.6	1,164.3	65.27	18.838	
8,600.0	7,125.6	8,557.0	6,979.7	32.6	38.5	83.32	-1,476.0	-1,248.2	1,229.6	1,163.1	66.51	18.487	
8,661.4	7,125.5	8,618.4	6,979.4	33.7	39.4	83.32	-1,537.4	-1,248.4	1,229.6	1,161.0	68.59	17.928	
8,700.0	7,125.4	8,657.0	6,979.2	34.4	40.0	83.31	-1,576.0	-1,248.6	1,229.6	1,159.7	69.90	17.591	
8,759.8	7,125.3	8,716.8	6,978.9	35.4	40.9	83.31	-1,635.9	-1,248.8	1,229.7	1,157.7	71.96	17.089	
8,800.0	7,125.2	8,757.0	6,978.7	36.1	41.5	83.30	-1,676.0	-1,248.9	1,229.7	1,156.3	73.34	16.766	
8,858.2	7,125.1	8,815.2	6,978.5	37.1	42.5	83.29	-1,734.3	-1,249.1	1,229.7	1,154.3	75.37	16.316	
8,900.0	7,125.0	8,857.0	6,978.2	37.8	43.1	83.29	-1,776.0	-1,249.3	1,229.7	1,152.9	76.83	16.007	
8,956.7	7,124.8	8,913.6	6,978.0	38.8	44.0	83.28	-1,832.7	-1,249.5	1,229.7	1,150.9	78.82	15.602	
9,000.0	7,124.7	8,957.0	6,977.8	39.6	44.7	83.28	-1,876.0	-1,249.7	1,229.7	1,149.4	80.34	15.306	
9,055.1	7,124.6	9,012.1	6,977.5	40.6	45.6	83.27	-1,931.1	-1,249.9	1,229.8	1,147.5	82.30	14.943	
9,100.0	7,124.5	9,057.0	6,977.3	41.4	46.4	83.26	-1,976.0	-1,250.0	1,229.8	1,145.9	83.90	14.658	
9,153.5	7,124.4	9,110.5	6,977.0	42.3	47.3	83.26	-2,029.5	-1,250.2	1,229.8	1,144.0	85.81	14.332	
9,200.0	7,124.3	9,157.0	6,976.8	43.2	48.0	83.25	-2,076.0	-1,250.4	1,229.8	1,142.3	87.48	14.059	
9,251.9	7,124.2	9,208.9	6,976.5	44.1	48.9	83.25	-2,128.0	-1,250.6	1,229.8	1,140.5	89.35	13.765	
9,300.0	7,124.1	9,257.0	6,976.3	45.0	49.7	83.24	-2,176.0	-1,250.8	1,229.8	1,138.8	91.08	13.503	
9,350.4	7,123.9	9,307.3	6,976.0	45.9	50.6	83.23	-2,226.4	-1,251.0	1,229.9	1,137.0	92.91	13.238	
9,400.0	7,123.8	9,357.0	6,975.8	46.8	51.5	83.23	-2,276.0	-1,251.1	1,229.9	1,135.2	94.71	12.986	
9,448.8	7,123.7	9,405.7	6,975.6	47.7	52.3	83.22	-2,324.8	-1,251.3	1,229.9	1,133.4	96.49	12.747	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
9,500.0	7,123.6	9,456.9	6,975.3	48.6	53.2	83.21	-2,376.0	-1,251.5	1,229.9	1,131.6	98.36	12.505	
9,547.2	7,123.5	9,504.2	6,975.1	49.4	54.0	83.21	-2,423.2	-1,251.7	1,229.9	1,129.8	100.08	12.289	
9,600.0	7,123.4	9,556.9	6,974.8	50.4	55.0	83.20	-2,476.0	-1,251.9	1,230.0	1,127.9	102.02	12.056	
9,645.6	7,123.3	9,602.6	6,974.6	51.2	55.8	83.20	-2,521.7	-1,252.0	1,230.0	1,126.3	103.70	11.861	
9,700.0	7,123.2	9,656.9	6,974.3	52.2	56.7	83.19	-2,576.0	-1,252.2	1,230.0	1,124.3	105.70	11.636	
9,744.1	7,123.1	9,701.0	6,974.1	53.1	57.5	83.19	-2,620.1	-1,252.4	1,230.0	1,122.7	107.33	11.460	
9,800.0	7,122.9	9,756.9	6,973.8	54.1	58.5	83.18	-2,676.0	-1,252.6	1,230.0	1,120.6	109.40	11.244	
9,842.5	7,122.8	9,799.4	6,973.6	54.9	59.3	83.17	-2,718.5	-1,252.8	1,230.0	1,119.1	110.97	11.085	
9,900.0	7,122.7	9,856.9	6,973.3	55.9	60.3	83.17	-2,776.0	-1,253.0	1,230.1	1,117.0	113.10	10.876	
9,940.9	7,122.6	9,897.9	6,973.1	56.7	61.0	83.16	-2,816.9	-1,253.1	1,230.1	1,115.4	114.62	10.732	
10,000.0	7,122.5	9,956.9	6,972.8	57.8	62.1	83.15	-2,876.0	-1,253.4	1,230.1	1,113.3	116.82	10.530	
10,039.3	7,122.4	9,996.3	6,972.7	58.5	62.8	83.15	-2,915.3	-1,253.5	1,230.1	1,111.8	118.29	10.399	
10,100.0	7,122.3	10,056.9	6,972.4	59.6	63.9	83.14	-2,976.0	-1,253.7	1,230.1	1,109.6	120.55	10.204	
10,137.8	7,122.2	10,094.7	6,972.2	60.3	64.6	83.14	-3,013.8	-1,253.9	1,230.1	1,108.2	121.96	10.086	
10,200.0	7,122.0	10,156.9	6,971.9	61.5	65.8	83.13	-3,076.0	-1,254.1	1,230.2	1,105.9	124.29	9.898	
10,236.2	7,121.9	10,193.1	6,971.7	62.2	66.4	83.12	-3,112.2	-1,254.2	1,230.2	1,104.5	125.64	9.791	
10,300.0	7,121.8	10,256.9	6,971.4	63.3	67.6	83.12	-3,176.0	-1,254.5	1,230.2	1,102.2	128.03	9.608	
10,334.6	7,121.7	10,291.6	6,971.2	64.0	68.2	83.11	-3,210.6	-1,254.6	1,230.2	1,100.9	129.33	9.512	
10,400.0	7,121.6	10,356.9	6,970.9	65.2	69.5	83.10	-3,276.0	-1,254.8	1,230.2	1,098.4	131.79	9.335	
10,433.0	7,121.5	10,390.0	6,970.7	65.8	70.1	83.10	-3,309.0	-1,255.0	1,230.2	1,097.2	133.03	9.248	
10,500.0	7,121.4	10,456.9	6,970.4	67.1	71.3	83.09	-3,376.0	-1,255.2	1,230.3	1,094.7	135.55	9.076	
10,531.5	7,121.3	10,488.4	6,970.2	67.7	71.9	83.09	-3,407.4	-1,255.3	1,230.3	1,093.6	136.74	8.998	
10,600.0	7,121.1	10,556.9	6,969.9	69.0	73.2	83.08	-3,476.0	-1,255.6	1,230.3	1,091.0	139.32	8.831	
10,629.9	7,121.1	10,586.8	6,969.7	69.5	73.7	83.08	-3,505.9	-1,255.7	1,230.3	1,089.9	140.45	8.760	
10,700.0	7,120.9	10,656.9	6,969.4	70.8	75.0	83.07	-3,576.0	-1,255.9	1,230.3	1,087.3	143.09	8.598	
10,728.3	7,120.8	10,685.3	6,969.3	71.4	75.6	83.06	-3,604.3	-1,256.1	1,230.4	1,086.2	144.16	8.535	
10,800.0	7,120.7	10,756.9	6,968.9	72.7	76.9	83.06	-3,676.0	-1,256.3	1,230.4	1,083.5	146.87	8.377	
10,826.7	7,120.6	10,783.7	6,968.8	73.2	77.4	83.05	-3,702.7	-1,256.4	1,230.4	1,082.5	147.88	8.320	
10,900.0	7,120.5	10,856.9	6,968.4	74.6	78.8	83.04	-3,776.0	-1,256.7	1,230.4	1,079.8	150.66	8.167	
10,925.2	7,120.4	10,882.1	6,968.3	75.1	79.3	83.04	-3,801.1	-1,256.8	1,230.4	1,078.8	151.61	8.116	
11,000.0	7,120.2	10,956.9	6,967.9	76.5	80.7	83.03	-3,876.0	-1,257.1	1,230.5	1,076.0	154.45	7.967	
11,023.6	7,120.2	10,980.5	6,967.8	76.9	81.1	83.03	-3,899.6	-1,257.1	1,230.5	1,075.1	155.34	7.921	
11,100.0	7,120.0	11,056.9	6,967.4	78.3	82.6	83.02	-3,975.9	-1,257.4	1,230.5	1,072.3	158.24	7.776	
11,122.0	7,120.0	11,078.9	6,967.3	78.8	83.0	83.02	-3,998.0	-1,257.5	1,230.5	1,071.4	159.08	7.735	
11,200.0	7,119.8	11,156.9	6,966.9	80.2	84.5	83.01	-4,075.9	-1,257.8	1,230.5	1,068.5	162.04	7.594	
11,220.4	7,119.7	11,177.4	6,966.8	80.6	84.9	83.00	-4,096.4	-1,257.9	1,230.5	1,067.7	162.82	7.558	
11,300.0	7,119.5	11,256.9	6,966.4	82.1	86.4	82.99	-4,175.9	-1,258.2	1,230.6	1,064.7	165.84	7.420	
11,318.9	7,119.5	11,275.8	6,966.3	82.5	86.7	82.99	-4,194.8	-1,258.2	1,230.6	1,064.0	166.56	7.388	
11,400.0	7,119.3	11,356.9	6,965.9	84.0	88.3	82.98	-4,275.9	-1,258.5	1,230.6	1,061.0	169.65	7.254	
11,417.3	7,119.3	11,374.2	6,965.9	84.3	88.6	82.98	-4,293.2	-1,258.6	1,230.6	1,060.3	170.31	7.226	
11,500.0	7,119.1	11,456.9	6,965.5	85.9	90.2	82.97	-4,375.9	-1,258.9	1,230.7	1,057.2	173.46	7.095	
11,515.7	7,119.1	11,472.6	6,965.4	86.2	90.5	82.97	-4,391.7	-1,259.0	1,230.7	1,056.6	174.05	7.071	
11,600.0	7,118.9	11,556.9	6,965.0	87.8	92.1	82.96	-4,475.9	-1,259.3	1,230.7	1,053.4	177.27	6.943	
11,614.1	7,118.8	11,571.1	6,964.9	88.0	92.4	82.95	-4,490.1	-1,259.3	1,230.7	1,052.9	177.81	6.922	
11,700.0	7,118.6	11,656.9	6,964.5	89.7	94.0	82.94	-4,575.9	-1,259.7	1,230.7	1,049.7	181.08	6.797	
11,712.6	7,118.6	11,669.5	6,964.4	89.9	94.2	82.94	-4,588.5	-1,259.7	1,230.7	1,049.2	181.56	6.779	
11,800.0	7,118.4	11,756.9	6,964.0	91.6	95.9	82.93	-4,675.9	-1,260.0	1,230.8	1,045.9	184.90	6.657	
11,811.0	7,118.4	11,767.9	6,963.9	91.8	96.1	82.93	-4,686.9	-1,260.1	1,230.8	1,045.5	185.32	6.641	
11,900.0	7,118.2	11,856.9	6,963.5	93.4	97.8	82.92	-4,775.9	-1,260.4	1,230.8	1,042.1	188.72	6.522	
11,909.4	7,118.2	11,866.3	6,963.4	93.6	98.0	82.92	-4,785.3	-1,260.4	1,230.8	1,041.7	189.08	6.510	
12,000.0	7,118.0	11,956.9	6,963.0	95.3	99.8	82.91	-4,875.9	-1,260.8	1,230.9	1,038.3	192.54	6.393	
12,007.8	7,118.0	11,964.8	6,962.9	95.5	99.9	82.91	-4,883.8	-1,260.8	1,230.9	1,038.0	192.84	6.383	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
12,100.0	7,117.8	12,056.9	6,962.5	97.2	101.7	82.89	-4,975.9	-1,261.1	1,230.9	1,034.5	196.36	6.268	
12,106.3	7,117.7	12,063.2	6,962.5	97.4	101.8	82.89	-4,982.2	-1,261.2	1,230.9	1,034.3	196.60	6.261	
12,200.0	7,117.5	12,156.9	6,962.0	99.1	103.6	82.88	-5,075.9	-1,261.5	1,230.9	1,030.8	200.19	6.149	
12,204.7	7,117.5	12,161.6	6,962.0	99.2	103.7	82.88	-5,080.6	-1,261.5	1,230.9	1,030.6	200.37	6.143	
12,300.0	7,117.3	12,256.9	6,961.5	101.0	105.6	82.87	-5,175.9	-1,261.9	1,231.0	1,027.0	204.02	6.034	
12,303.1	7,117.3	12,260.0	6,961.5	101.1	105.6	82.87	-5,179.0	-1,261.9	1,231.0	1,026.8	204.14	6.030	
12,400.0	7,117.1	12,356.9	6,961.0	102.9	107.5	82.86	-5,275.9	-1,262.3	1,231.0	1,023.2	207.85	5.923	
12,401.5	7,117.1	12,358.4	6,961.0	103.0	107.5	82.86	-5,277.4	-1,262.3	1,231.0	1,023.1	207.91	5.921	
12,500.0	7,116.9	12,456.9	6,960.5	104.8	109.4	82.84	-5,375.9	-1,262.6	1,231.1	1,019.4	211.68	5.816	
12,598.4	7,116.6	12,555.3	6,960.0	106.7	111.3	82.83	-5,474.3	-1,263.0	1,231.1	1,015.7	215.45	5.714	
12,600.0	7,116.6	12,556.9	6,960.0	106.7	111.4	82.83	-5,475.9	-1,263.0	1,231.1	1,015.6	215.51	5.712	
12,696.8	7,116.4	12,653.7	6,959.5	108.6	113.2	82.82	-5,572.7	-1,263.4	1,231.1	1,011.9	219.23	5.616	
12,700.0	7,116.4	12,656.9	6,959.5	108.6	113.3	82.82	-5,575.9	-1,263.4	1,231.1	1,011.8	219.35	5.613	
12,795.2	7,116.2	12,752.1	6,959.0	110.4	115.1	82.81	-5,671.1	-1,263.7	1,231.2	1,008.2	223.00	5.521	
12,800.0	7,116.2	12,756.9	6,959.0	110.5	115.2	82.81	-5,675.9	-1,263.7	1,231.2	1,008.0	223.18	5.517	
12,893.7	7,116.0	12,850.6	6,958.6	112.3	117.1	82.80	-5,769.6	-1,264.1	1,231.2	1,004.5	226.78	5.429	
12,900.0	7,116.0	12,856.9	6,958.5	112.4	117.2	82.79	-5,775.9	-1,264.1	1,231.2	1,004.2	227.02	5.423	
12,992.1	7,115.7	12,949.0	6,958.1	114.2	119.0	82.78	-5,868.0	-1,264.5	1,231.3	1,000.7	230.56	5.340	
13,000.0	7,115.7	12,956.9	6,958.0	114.3	119.1	82.78	-5,875.9	-1,264.5	1,231.3	1,000.4	230.86	5.333	
13,090.5	7,115.5	13,047.4	6,957.6	116.1	120.9	82.77	-5,966.4	-1,264.8	1,231.3	997.0	234.33	5.255	
13,100.0	7,115.5	13,056.9	6,957.5	116.2	121.1	82.77	-5,975.9	-1,264.9	1,231.3	996.6	234.70	5.246	
13,188.9	7,115.3	13,145.8	6,957.1	117.9	122.8	82.76	-6,064.8	-1,265.2	1,231.4	993.2	238.11	5.171	
13,200.0	7,115.3	13,156.9	6,957.0	118.1	123.0	82.76	-6,075.9	-1,265.2	1,231.4	992.8	238.54	5.162	
13,287.4	7,115.1	13,244.3	6,956.6	119.8	124.7	82.75	-6,163.2	-1,265.6	1,231.4	989.5	241.90	5.091	
13,300.0	7,115.1	13,256.9	6,956.5	120.0	125.0	82.74	-6,175.9	-1,265.6	1,231.4	989.0	242.38	5.080	
13,385.8	7,114.9	13,342.7	6,956.1	121.7	126.6	82.73	-6,261.7	-1,265.9	1,231.4	985.8	245.68	5.012	
13,400.0	7,114.8	13,356.9	6,956.0	121.9	126.9	82.73	-6,275.9	-1,266.0	1,231.5	985.2	246.22	5.001	
13,484.2	7,114.6	13,441.1	6,955.6	123.6	128.6	82.72	-6,360.1	-1,266.3	1,231.5	982.0	249.46	4.937	
13,500.0	7,114.6	13,456.9	6,955.5	123.9	128.9	82.72	-6,375.9	-1,266.4	1,231.5	981.4	250.07	4.925	
13,582.6	7,114.4	13,539.5	6,955.1	125.4	130.5	82.71	-6,458.5	-1,266.7	1,231.5	978.3	253.24	4.863	
13,600.0	7,114.4	13,556.9	6,955.0	125.8	130.8	82.71	-6,475.9	-1,266.7	1,231.5	977.6	253.91	4.850	
13,681.1	7,114.2	13,637.9	6,954.6	127.3	132.4	82.70	-6,556.9	-1,267.0	1,231.6	974.5	257.03	4.792	
13,700.0	7,114.2	13,656.9	6,954.6	127.7	132.8	82.69	-6,575.8	-1,267.1	1,231.6	973.8	257.76	4.778	
13,779.5	7,114.0	13,736.4	6,954.2	129.2	134.3	82.68	-6,655.3	-1,267.4	1,231.6	970.8	260.81	4.722	
13,800.0	7,113.9	13,756.9	6,954.1	129.6	134.7	82.68	-6,675.8	-1,267.5	1,231.6	970.0	261.60	4.708	
13,877.9	7,113.8	13,834.8	6,953.7	131.1	136.2	82.67	-6,753.8	-1,267.8	1,231.7	967.1	264.60	4.655	
13,900.0	7,113.7	13,856.9	6,953.6	131.5	136.7	82.67	-6,775.8	-1,267.9	1,231.7	966.2	265.45	4.640	
13,976.3	7,113.5	13,933.2	6,953.2	132.9	138.2	82.66	-6,852.2	-1,268.1	1,231.7	963.3	268.39	4.589	
14,000.0	7,113.5	13,956.9	6,953.1	133.4	138.6	82.66	-6,875.8	-1,268.2	1,231.7	962.4	269.30	4.574	
14,074.8	7,113.3	14,031.6	6,952.7	134.8	140.1	82.65	-6,950.6	-1,268.5	1,231.8	959.6	272.17	4.526	
14,100.0	7,113.3	14,056.9	6,952.6	135.3	140.6	82.64	-6,975.8	-1,268.6	1,231.8	958.6	273.15	4.510	
14,173.2	7,113.1	14,130.1	6,952.2	136.7	142.0	82.64	-7,049.0	-1,268.9	1,231.8	955.9	275.94	4.464	
14,200.0	7,113.0	14,156.9	6,952.1	137.2	142.5	82.63	-7,075.8	-1,269.0	1,231.8	954.9	276.95	4.448	
14,202.4	7,113.0	14,159.2	6,952.1	137.2	142.5	82.63	-7,078.2	-1,269.0	1,231.8	954.8	277.03	4.446	
14,219.1	7,113.0	14,170.4	6,952.0	137.6	142.8	82.63	-7,089.4	-1,269.0	1,231.8	954.3	277.56	4.438 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	-90.00	0.0	-58.6	58.6				
98.4	98.4	96.4	96.4	0.1	0.1	-90.00	0.0	-58.6	58.6	58.4	0.19	309.516	
100.0	100.0	98.0	98.0	0.1	0.1	-90.00	0.0	-58.6	58.6	58.4	0.19	304.208	
196.8	196.8	194.8	194.8	0.3	0.3	-90.00	0.0	-58.6	58.6	57.9	0.63	93.641	
200.0	200.0	198.0	198.0	0.3	0.3	-90.00	0.0	-58.6	58.6	57.9	0.64	91.567	
295.3	295.3	293.3	293.3	0.5	0.5	-90.00	0.0	-58.6	58.6	57.5	1.07	54.838	
300.0	300.0	298.0	298.0	0.5	0.5	-90.00	0.0	-58.6	58.6	57.5	1.09	53.769	
393.7	393.7	391.7	391.7	0.8	0.8	-90.00	0.0	-58.6	58.6	57.0	1.51	38.772	
400.0	400.0	398.0	398.0	0.8	0.8	-90.00	0.0	-58.6	58.6	57.0	1.54	38.058	
492.1	492.1	490.1	490.1	1.0	1.0	-90.00	0.0	-58.6	58.6	56.6	1.95	29.987	
500.0	500.0	498.0	498.0	1.0	1.0	-90.00	0.0	-58.6	58.6	56.6	1.99	29.453	
590.5	590.5	588.5	588.5	1.2	1.2	-90.00	0.0	-58.6	58.6	56.2	2.40	24.447	
600.0	600.0	598.0	598.0	1.2	1.2	-90.00	0.0	-58.6	58.6	56.1	2.44	24.021	
689.0	689.0	687.0	687.0	1.4	1.4	-90.00	0.0	-58.6	58.6	55.7	2.84	20.635	
700.0	700.0	698.0	698.0	1.4	1.4	-90.00	0.0	-58.6	58.6	55.7	2.89	20.281	
787.4	787.4	785.4	785.4	1.6	1.6	-90.00	0.0	-58.6	58.6	55.3	3.28	17.852	
800.0	800.0	798.0	798.0	1.7	1.7	-90.00	0.0	-58.6	58.6	55.2	3.34	17.549	
885.8	885.8	883.8	883.8	1.9	1.9	-90.00	0.0	-58.6	58.6	54.8	3.72	15.730	
900.0	900.0	898.0	898.0	1.9	1.9	-90.00	0.0	-58.6	58.6	54.8	3.79	15.465	
984.2	984.2	982.2	982.2	2.1	2.1	-90.00	0.0	-58.6	58.6	54.4	4.16	14.059	
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-90.00	0.0	-58.6	58.6	54.3	4.24	13.824	
1,082.7	1,082.7	1,080.7	1,080.7	2.3	2.3	-90.00	0.0	-58.6	58.6	53.9	4.61	12.709	
1,100.0	1,100.0	1,098.0	1,098.0	2.3	2.3	-90.00	0.0	-58.6	58.6	53.9	4.69	12.497 CC, ES	
1,181.1	1,181.1	1,177.6	1,177.5	2.5	2.5	-89.72	0.3	-59.6	59.6	54.5	5.04	11.825	
1,200.0	1,200.0	1,196.1	1,196.1	2.6	2.6	-89.58	0.4	-60.1	60.1	55.0	5.12	11.743	
1,279.5	1,279.5	1,273.9	1,273.8	2.7	2.7	-88.70	1.4	-63.6	63.8	58.3	5.46	11.670	
1,300.0	1,300.0	1,293.9	1,293.7	2.8	2.8	-88.42	1.8	-64.9	65.0	59.5	5.55	11.715	
1,377.9	1,377.9	1,369.9	1,369.5	3.0	2.9	-83.63	3.5	-70.8	71.0	65.1	5.89	12.065	
1,400.0	1,400.0	1,391.3	1,390.8	3.0	3.0	-83.71	4.0	-72.8	73.0	67.1	5.98	12.211	
1,476.4	1,476.3	1,465.3	1,464.3	3.2	3.2	-84.63	6.3	-80.9	81.1	74.8	6.31	12.850	
1,500.0	1,499.8	1,488.1	1,486.9	3.2	3.2	-85.07	7.2	-83.8	84.0	77.6	6.42	13.089	
1,574.8	1,574.4	1,560.0	1,558.0	3.4	3.4	-86.78	10.1	-94.0	94.2	87.4	6.75	13.952	
1,600.0	1,599.5	1,584.1	1,581.8	3.5	3.5	-87.43	11.1	-97.8	98.0	91.1	6.86	14.281	
1,673.2	1,672.2	1,653.8	1,650.3	3.6	3.7	-89.45	14.6	-109.9	110.3	103.1	7.20	15.314	
1,700.0	1,698.7	1,679.1	1,675.2	3.7	3.8	-90.21	15.9	-114.7	115.2	107.9	7.33	15.727	
1,771.6	1,769.5	1,748.4	1,742.9	3.9	4.0	-92.36	19.8	-128.5	129.3	121.6	7.69	16.826	
1,800.0	1,797.5	1,776.0	1,770.0	4.0	4.1	-93.28	21.4	-134.0	135.0	127.2	7.83	17.242	
1,870.1	1,866.3	1,844.3	1,836.8	4.2	4.3	-95.68	25.3	-147.7	149.3	141.1	8.21	18.187	
1,900.1	1,895.8	1,873.5	1,865.4	4.3	4.4	-96.75	26.9	-153.5	155.6	147.2	8.38	18.579	
1,968.5	1,962.6	1,940.0	1,930.3	4.5	4.7	-99.26	30.7	-166.8	170.2	161.4	8.78	19.389	
2,000.0	1,993.4	1,970.6	1,960.3	4.6	4.8	-100.28	32.4	-172.9	177.0	168.0	8.97	19.742	
2,066.9	2,058.9	2,035.6	2,023.9	4.8	5.1	-102.20	36.1	-185.9	191.6	182.2	9.38	20.428	
2,100.0	2,091.3	2,067.7	2,055.3	4.9	5.2	-103.05	37.9	-192.4	198.9	189.3	9.59	20.750	
2,165.3	2,155.2	2,131.2	2,117.4	5.1	5.4	-104.55	41.5	-205.1	213.5	203.4	10.01	21.329	
2,200.0	2,189.1	2,164.9	2,150.4	5.3	5.6	-105.27	43.5	-211.8	221.2	211.0	10.23	21.618	
2,263.8	2,251.4	2,226.9	2,211.0	5.5	5.8	-106.46	47.0	-224.2	235.6	224.9	10.66	22.106	
2,300.0	2,286.9	2,262.1	2,245.4	5.6	6.0	-107.08	49.0	-231.2	243.7	232.8	10.90	22.366	
2,362.2	2,347.7	2,322.5	2,304.5	5.9	6.2	-108.05	52.4	-243.3	257.9	246.5	11.32	22.778	
2,400.0	2,384.7	2,359.2	2,340.4	6.0	6.4	-108.59	54.5	-250.7	266.5	254.9	11.58	23.013	
2,460.6	2,444.0	2,418.1	2,398.0	6.3	6.6	-109.38	57.8	-262.5	280.3	268.3	12.00	23.362	
2,500.0	2,482.5	2,456.4	2,435.5	6.4	6.8	-109.86	60.0	-270.1	289.4	277.1	12.27	23.575	
2,559.0	2,540.3	2,513.8	2,491.6	6.6	7.0	-110.52	63.3	-281.6	302.9	290.2	12.69	23.872	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
2,600.0	2,580.3	2,553.5	2,530.5	6.8	7.2	-110.94	65.5	-289.6	312.3	299.4	12.98	24.066	
2,617.6	2,597.5	2,570.7	2,547.2	6.9	7.3	-111.11	66.5	-293.0	316.4	303.3	13.10	24.146	
2,657.5	2,636.6	2,609.4	2,585.2	7.0	7.4	-111.62	68.7	-300.8	325.5	312.1	13.38	24.335	
2,700.0	2,678.4	2,650.9	2,625.7	7.2	7.6	-112.04	71.0	-309.0	335.0	321.3	13.67	24.512	
2,755.9	2,733.5	2,705.4	2,679.1	7.3	7.9	-112.41	74.1	-320.0	347.1	333.1	14.02	24.767	
2,800.0	2,777.0	2,748.5	2,721.2	7.4	8.0	-112.57	76.6	-328.6	356.4	342.1	14.29	24.940	
2,854.3	2,830.9	2,801.7	2,773.2	7.6	8.3	-112.63	79.6	-339.2	367.5	352.9	14.62	25.146	
2,900.0	2,876.2	2,846.4	2,817.0	7.7	8.5	-112.56	82.1	-348.2	376.5	361.7	14.89	25.294	
2,952.7	2,928.7	2,898.2	2,867.6	7.8	8.7	-112.37	85.1	-358.5	386.6	371.5	15.18	25.465	
3,000.0	2,975.8	2,944.5	2,912.9	7.9	8.9	-112.09	87.7	-367.8	395.4	380.0	15.45	25.597	
3,051.2	3,026.8	2,994.7	2,962.0	8.0	9.1	-111.69	90.5	-377.8	404.6	388.9	15.71	25.747	
3,100.0	3,075.6	3,042.6	3,008.8	8.1	9.3	-111.22	93.3	-387.4	413.1	397.1	15.97	25.874	
3,149.6	3,125.2	3,091.2	3,056.4	8.2	9.6	-110.66	96.0	-397.1	421.5	405.3	16.20	26.013	
3,200.0	3,175.6	3,140.5	3,104.6	8.3	9.8	-110.00	98.8	-407.0	429.8	413.3	16.44	26.145	
3,217.7	3,193.3	3,157.9	3,121.6	8.3	9.9	-114.03	99.8	-410.5	432.7	416.1	16.52	26.183	
3,248.0	3,223.6	3,187.5	3,150.6	8.4	10.0	-113.51	101.5	-416.4	437.5	420.9	16.66	26.267	
3,300.0	3,275.6	3,238.3	3,200.3	8.5	10.2	-112.64	104.4	-426.6	446.0	429.1	16.88	26.416	
3,346.4	3,322.0	3,283.8	3,244.7	8.6	10.4	-111.88	106.9	-435.7	453.7	436.6	17.09	26.542	
3,400.0	3,375.6	3,336.1	3,296.0	8.7	10.6	-111.05	109.9	-446.2	462.6	445.3	17.33	26.691	
3,444.9	3,420.4	3,380.0	3,338.9	8.7	10.8	-110.37	112.4	-454.9	470.2	452.7	17.53	26.819	
3,500.0	3,475.6	3,433.9	3,391.7	8.8	11.1	-109.56	115.5	-465.7	479.6	461.8	17.78	26.978	
3,543.3	3,518.9	3,476.3	3,433.1	8.9	11.3	-108.96	117.9	-474.2	487.0	469.0	17.97	27.104	
3,600.0	3,575.6	3,531.8	3,487.3	9.0	11.5	-108.18	121.0	-485.3	496.8	478.6	18.22	27.271	
3,641.7	3,617.3	3,572.6	3,527.2	9.1	11.7	-107.64	123.3	-493.5	504.0	485.6	18.40	27.395	
3,700.0	3,675.6	3,629.6	3,583.0	9.2	12.0	-106.90	126.6	-504.9	514.3	495.6	18.65	27.569	
3,740.1	3,715.7	3,668.8	3,621.4	9.3	12.1	-106.40	128.8	-512.7	521.3	502.5	18.83	27.688	
3,800.0	3,775.6	3,727.4	3,678.7	9.4	12.4	-105.69	132.1	-524.4	532.0	512.9	19.09	27.867	
3,838.6	3,814.1	3,765.1	3,715.6	9.5	12.6	-105.25	134.3	-532.0	538.9	519.6	19.26	27.982	
3,900.0	3,875.6	3,825.2	3,774.4	9.6	12.8	-104.57	137.7	-544.0	549.9	530.4	19.52	28.165	
3,937.0	3,912.6	3,861.4	3,809.8	9.7	13.0	-104.17	139.7	-551.3	556.6	536.9	19.69	28.275	
4,000.0	3,975.6	3,923.0	3,870.0	9.8	13.3	-103.51	143.2	-563.6	568.1	548.1	19.96	28.461	
4,035.4	4,011.0	3,957.7	3,903.9	9.9	13.4	-103.15	145.2	-570.5	574.5	554.4	20.11	28.565	
4,100.0	4,075.6	4,020.8	3,965.7	10.0	13.7	-102.52	148.8	-583.2	586.4	566.0	20.39	28.753	
4,133.8	4,109.4	4,053.9	3,998.1	10.0	13.9	-102.20	150.7	-589.8	592.6	572.1	20.54	28.851	
4,200.0	4,175.6	4,118.6	4,061.4	10.2	14.2	-101.59	154.3	-602.7	604.8	584.0	20.83	29.041	
4,232.3	4,207.8	4,150.2	4,092.3	10.2	14.3	-101.30	156.1	-609.0	610.8	589.9	20.97	29.132	
4,300.0	4,275.6	4,216.5	4,157.0	10.4	14.6	-100.71	159.9	-622.3	623.5	602.2	21.26	29.323	
4,330.7	4,306.3	4,246.5	4,186.4	10.4	14.8	-100.45	161.6	-628.3	629.2	607.8	21.40	29.408	
4,400.0	4,375.6	4,314.3	4,252.7	10.6	15.1	-99.88	165.4	-641.9	642.2	620.5	21.70	29.600	
4,429.1	4,404.7	4,342.8	4,280.6	10.6	15.2	-99.65	167.0	-647.6	647.7	625.9	21.82	29.679	
4,500.0	4,475.6	4,412.1	4,348.4	10.8	15.5	-99.11	171.0	-661.4	661.1	639.0	22.13	29.870	
4,527.5	4,503.1	4,439.0	4,374.8	10.8	15.6	-98.90	172.5	-666.8	666.3	644.1	22.25	29.943	
4,600.0	4,575.6	4,509.9	4,444.1	11.0	15.9	-98.37	176.5	-681.0	680.1	657.5	22.57	30.134	
4,626.0	4,601.5	4,535.3	4,468.9	11.0	16.1	-98.18	178.0	-686.1	685.0	662.3	22.68	30.201	
4,700.0	4,675.6	4,607.7	4,539.7	11.2	16.4	-97.67	182.1	-700.6	699.2	676.2	23.01	30.391	
4,724.4	4,700.0	4,631.6	4,563.1	11.2	16.5	-97.51	183.4	-705.4	703.8	680.7	23.11	30.452	
4,800.0	4,775.6	4,705.5	4,635.4	11.4	16.8	-97.01	187.6	-720.2	718.3	694.9	23.44	30.641	
4,822.8	4,798.4	4,727.8	4,657.3	11.4	16.9	-96.87	188.9	-724.6	722.7	699.2	23.54	30.697	
4,900.0	4,875.6	4,803.3	4,731.1	11.6	17.3	-96.39	193.2	-739.7	737.6	713.7	23.88	30.884	
4,921.2	4,896.8	4,824.1	4,751.4	11.6	17.4	-96.26	194.4	-743.9	741.7	717.7	23.98	30.935	
5,000.0	4,975.6	4,901.1	4,826.8	11.8	17.7	-95.79	198.7	-759.3	757.0	732.6	24.32	31.121	
5,019.7	4,995.2	4,920.4	4,845.6	11.8	17.8	-95.68	199.8	-763.2	760.8	736.4	24.41	31.167	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
5,100.0	5,075.6	4,999.0	4,922.4	12.0	18.2	-95.23	204.3	-778.9	776.4	751.6	24.76	31.351	
5,118.1	5,093.7	5,016.7	4,939.8	12.0	18.3	-95.13	205.3	-782.4	779.9	755.1	24.84	31.392	
5,200.0	5,175.6	5,096.8	5,018.1	12.2	18.6	-94.69	209.8	-798.4	795.9	770.7	25.21	31.574	
5,216.5	5,192.1	5,112.9	5,033.9	12.2	18.7	-94.61	210.7	-801.7	799.1	773.8	25.28	31.611	
5,300.0	5,275.6	5,194.6	5,113.8	12.4	19.1	-94.18	215.4	-818.0	815.5	789.8	25.65	31.791	
5,314.9	5,290.5	5,209.2	5,128.1	12.4	19.1	-94.11	216.2	-820.9	818.4	792.7	25.72	31.823	
5,400.0	5,375.6	5,292.4	5,209.5	12.6	19.5	-93.70	220.9	-837.6	835.1	809.0	26.09	32.001	
5,413.4	5,388.9	5,305.5	5,222.3	12.6	19.6	-93.63	221.7	-840.2	837.7	811.5	26.15	32.029	
5,500.0	5,475.6	5,390.2	5,305.1	12.8	20.0	-93.23	226.5	-857.2	854.8	828.2	26.54	32.206	
5,511.8	5,487.4	5,401.8	5,316.4	12.8	20.0	-93.18	227.1	-859.5	857.1	830.5	26.59	32.229	
5,600.0	5,575.6	5,488.0	5,400.8	13.0	20.4	-92.79	232.0	-876.7	874.5	847.5	26.99	32.404	
5,610.2	5,585.8	5,498.0	5,410.6	13.0	20.5	-92.74	232.6	-878.7	876.5	849.5	27.03	32.423	
5,700.0	5,675.6	5,585.8	5,496.5	13.2	20.9	-92.36	237.6	-896.3	894.3	866.8	27.43	32.596	
5,708.6	5,684.2	5,594.3	5,504.8	13.2	20.9	-92.33	238.1	-898.0	896.0	868.5	27.47	32.612	
5,800.0	5,775.6	5,683.7	5,592.2	13.4	21.3	-91.96	243.1	-915.9	914.1	886.2	27.88	32.782	
5,807.1	5,782.6	5,690.6	5,598.9	13.4	21.3	-91.93	243.5	-917.3	915.5	887.6	27.92	32.795	
5,900.0	5,875.6	5,805.1	5,711.2	13.6	21.8	-91.49	249.8	-939.2	933.3	904.9	28.37	32.895	
5,905.5	5,881.1	5,813.0	5,718.9	13.6	21.8	-91.47	250.1	-940.6	934.2	905.8	28.40	32.898	
6,000.0	5,975.6	5,949.2	5,853.4	13.8	22.2	-91.08	255.9	-961.0	948.3	919.5	28.86	32.863	
6,003.9	5,979.5	5,954.9	5,859.1	13.8	22.2	-91.07	256.1	-961.7	948.8	919.9	28.88	32.859	
6,100.0	6,075.6	6,095.1	5,998.5	14.0	22.5	-90.81	260.2	-976.0	958.6	929.2	29.33	32.680	
6,102.3	6,077.9	6,098.6	6,002.0	14.0	22.6	-90.81	260.3	-976.3	958.8	929.4	29.34	32.674	
6,200.0	6,175.6	6,242.3	6,145.5	14.2	22.8	-90.67	262.4	-984.0	964.0	934.2	29.79	32.359	
6,200.8	6,176.3	6,243.5	6,146.6	14.2	22.8	-90.67	262.5	-984.0	964.0	934.2	29.79	32.356	
6,299.2	6,274.8	6,369.6	6,272.8	14.4	23.0	-90.65	262.8	-985.3	964.8	934.6	30.21	31.940	
6,300.0	6,275.6	6,370.4	6,273.6	14.4	23.0	-90.65	262.8	-985.3	964.8	934.6	30.21	31.937	
6,357.5	6,333.0	6,427.9	6,331.0	14.6	23.0	-90.65	262.8	-985.3	964.8	934.4	30.43	31.705	
6,397.6	6,373.2	6,467.7	6,370.8	14.7	23.1	-90.66	262.6	-985.3	964.8	934.2	30.58	31.547	
6,400.0	6,375.6	6,470.0	6,373.1	14.7	23.1	-90.66	262.5	-985.3	964.8	934.2	30.59	31.538	
6,436.2	6,411.8	6,505.4	6,408.5	14.7	23.1	-90.78	260.6	-985.3	964.9	934.1	30.73	31.398	
6,450.0	6,425.6	6,518.8	6,421.8	14.8	23.1	88.95	259.4	-985.3	964.9	934.1	30.76	31.370	
6,496.0	6,471.5	6,563.5	6,466.2	14.8	23.2	88.74	253.7	-985.3	964.9	934.1	30.88	31.244	
6,500.0	6,475.5	6,567.3	6,469.9	14.8	23.2	88.72	253.1	-985.3	964.9	934.1	30.89	31.234	
6,550.0	6,525.1	6,615.6	6,517.3	14.9	23.2	88.50	243.6	-985.3	965.0	934.0	31.00	31.135	
6,594.5	6,568.7	6,658.4	6,558.5	14.9	23.2	88.31	232.5	-985.4	965.1	934.1	31.06	31.075	
6,600.0	6,574.1	6,663.7	6,563.6	14.9	23.2	88.29	231.0	-985.4	965.1	934.1	31.06	31.069	
6,650.0	6,622.4	6,711.5	6,608.8	14.9	23.2	88.08	215.4	-985.4	965.2	934.1	31.11	31.031	
6,692.9	6,663.0	6,752.4	6,646.5	14.9	23.2	87.92	199.7	-985.5	965.3	934.2	31.12	31.017	
6,700.0	6,669.6	6,759.1	6,652.7	14.9	23.2	87.89	196.9	-985.5	965.4	934.2	31.13	31.015	
6,750.0	6,715.6	6,806.6	6,695.1	14.9	23.2	87.70	175.6	-985.6	965.5	934.4	31.13	31.014	
6,791.3	6,752.5	6,845.6	6,728.9	14.9	23.2	87.56	155.9	-985.6	965.6	934.5	31.13	31.017	
6,800.0	6,760.1	6,853.8	6,735.8	14.9	23.2	87.53	151.6	-985.7	965.6	934.5	31.13	31.018	
6,850.0	6,802.9	6,900.0	6,774.0	14.9	23.2	87.37	125.6	-985.8	965.7	934.6	31.13	31.019	
6,889.7	6,835.6	6,938.2	6,804.3	14.9	23.2	87.25	102.3	-985.8	965.8	934.7	31.15	31.007	
6,900.0	6,843.8	6,947.9	6,811.7	14.9	23.2	87.22	96.2	-985.9	965.8	934.7	31.15	31.004	
6,950.0	6,882.6	6,994.7	6,846.6	14.9	23.2	87.08	65.1	-986.0	966.0	934.8	31.20	30.964	
6,988.2	6,910.7	7,030.3	6,871.8	15.0	23.2	86.98	39.8	-986.1	966.0	934.8	31.26	30.906	
7,000.0	6,919.1	7,041.3	6,879.3	15.0	23.2	86.95	31.8	-986.1	966.1	934.8	31.28	30.887	
7,050.0	6,953.1	7,087.9	6,909.7	15.0	23.2	86.84	-3.5	-986.2	966.2	934.8	31.41	30.763	
7,086.6	6,976.4	7,121.9	6,930.5	15.1	23.2	86.77	-30.4	-986.3	966.2	934.7	31.54	30.637	
7,100.0	6,984.5	7,134.4	6,937.7	15.1	23.2	86.75	-40.5	-986.4	966.3	934.7	31.59	30.585	
7,150.0	7,013.1	7,180.7	6,963.2	15.3	23.3	86.67	-79.3	-986.5	966.3	934.5	31.86	30.336	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
7,185.0	7,031.4	7,213.2	6,979.5	15.4	23.3	86.62	-107.3	-986.6	966.4	934.3	32.08	30.123	
7,200.0	7,038.8	7,227.1	6,986.1	15.4	23.3	86.60	-119.5	-986.7	966.4	934.2	32.19	30.026	
7,250.0	7,061.4	7,273.3	7,006.4	15.6	23.4	86.55	-161.1	-986.8	966.5	933.9	32.60	29.646	
7,283.4	7,074.8	7,304.3	7,018.4	15.8	23.4	86.53	-189.6	-986.9	966.5	933.6	32.93	29.352	
7,300.0	7,080.9	7,319.5	7,023.8	15.9	23.4	86.52	-203.9	-987.0	966.5	933.4	33.10	29.199	
7,350.0	7,097.1	7,365.7	7,038.5	16.2	23.5	86.50	-247.7	-987.1	966.5	932.8	33.69	28.690	
7,381.9	7,105.7	7,395.2	7,046.4	16.4	23.6	86.49	-276.1	-987.2	966.5	932.4	34.11	28.334	
7,400.0	7,109.9	7,411.9	7,050.4	16.6	23.7	86.50	-292.4	-987.3	966.5	932.2	34.36	28.126	
7,450.0	7,119.4	7,458.1	7,059.3	17.0	23.8	86.51	-337.7	-987.5	966.5	931.4	35.12	27.518	
7,480.3	7,123.4	7,486.1	7,063.3	17.2	23.9	86.52	-365.4	-987.6	966.5	930.9	35.63	27.127	
7,500.0	7,125.4	7,504.3	7,065.3	17.4	24.0	86.54	-383.5	-987.6	966.5	930.5	35.96	26.876	
7,550.0	7,127.9	7,550.0	7,068.3	17.9	24.2	86.58	-429.0	-987.8	966.4	929.6	36.87	26.215	
7,562.9	7,128.0	7,562.5	7,068.6	18.0	24.3	86.60	-441.5	-987.8	966.4	929.3	37.12	26.037	
7,577.4	7,128.0	7,576.0	7,068.7	18.1	24.4	86.60	-455.0	-987.9	966.4	929.0	37.39	25.843	
7,578.7	7,128.0	7,577.2	7,068.7	18.2	24.4	86.60	-456.2	-987.9	966.4	929.0	37.42	25.826	
7,600.0	7,127.9	7,598.3	7,068.6	18.4	24.5	86.60	-477.3	-988.0	966.4	928.6	37.85	25.535	
7,677.1	7,127.7	7,675.5	7,068.1	19.2	25.0	86.58	-554.5	-988.3	966.4	927.0	39.45	24.495	
7,700.0	7,127.7	7,698.3	7,067.9	19.5	25.2	86.57	-577.3	-988.3	966.4	926.5	39.93	24.203	
7,775.6	7,127.5	7,773.9	7,067.5	20.3	25.8	86.56	-652.9	-988.6	966.5	924.9	41.54	23.263	
7,800.0	7,127.5	7,798.3	7,067.3	20.5	26.1	86.55	-677.3	-988.7	966.5	924.4	42.07	22.974	
7,874.0	7,127.3	7,872.3	7,066.8	21.4	26.8	86.53	-751.3	-989.0	966.5	922.6	43.87	22.033	
7,900.0	7,127.2	7,898.3	7,066.7	21.7	27.0	86.53	-777.3	-989.1	966.5	922.0	44.50	21.720	
7,972.4	7,127.1	7,970.7	7,066.2	22.7	27.8	86.51	-849.8	-989.3	966.5	920.0	46.50	20.787	
8,000.0	7,127.0	7,998.3	7,066.0	23.1	28.1	86.50	-877.3	-989.4	966.5	919.3	47.26	20.452	
8,070.8	7,126.8	8,069.2	7,065.6	24.2	28.9	86.49	-948.2	-989.7	966.5	917.2	49.31	19.600	
8,100.0	7,126.8	8,098.3	7,065.4	24.6	29.3	86.48	-977.3	-989.8	966.5	916.4	50.16	19.270	
8,169.3	7,126.6	8,167.6	7,065.0	25.6	30.1	86.46	-1,046.6	-990.1	966.6	914.3	52.25	18.499	
8,200.0	7,126.6	8,198.3	7,064.8	26.1	30.5	86.46	-1,077.3	-990.2	966.6	913.4	53.18	18.176	
8,267.7	7,126.4	8,266.0	7,064.4	27.2	31.4	86.44	-1,145.0	-990.4	966.6	911.3	55.29	17.483	
8,300.0	7,126.3	8,298.3	7,064.2	27.7	31.9	86.43	-1,177.3	-990.5	966.6	910.3	56.29	17.170	
8,366.1	7,126.2	8,364.4	7,063.7	28.8	32.8	86.42	-1,243.4	-990.8	966.6	908.2	58.41	16.549	
8,400.0	7,126.1	8,398.3	7,063.5	29.3	33.3	86.41	-1,277.3	-990.9	966.6	907.1	59.49	16.247	
8,464.5	7,126.0	8,462.9	7,063.1	30.4	34.2	86.39	-1,341.9	-991.1	966.6	905.0	61.61	15.690	
8,500.0	7,125.9	8,498.3	7,062.9	31.0	34.7	86.38	-1,377.3	-991.3	966.6	903.9	62.77	15.401	
8,563.0	7,125.7	8,561.3	7,062.5	32.0	35.7	86.37	-1,440.3	-991.5	966.7	901.8	64.86	14.903	
8,600.0	7,125.6	8,598.3	7,062.3	32.6	36.2	86.36	-1,477.3	-991.6	966.7	900.6	66.10	14.625	
8,661.4	7,125.5	8,659.7	7,061.9	33.7	37.2	86.35	-1,538.7	-991.9	966.7	898.5	68.18	14.179	
8,700.0	7,125.4	8,698.3	7,061.6	34.4	37.8	86.34	-1,577.3	-992.0	966.7	897.2	69.48	13.913	
8,759.8	7,125.3	8,758.1	7,061.3	35.4	38.7	86.32	-1,637.1	-992.2	966.7	895.2	71.53	13.514	
8,800.0	7,125.2	8,798.3	7,061.0	36.1	39.4	86.31	-1,677.3	-992.4	966.7	893.8	72.91	13.259	
8,858.2	7,125.1	8,856.6	7,060.7	37.1	40.3	86.30	-1,735.5	-992.6	966.7	891.8	74.93	12.902	
8,900.0	7,125.0	8,898.3	7,060.4	37.8	41.0	86.29	-1,777.3	-992.7	966.8	890.4	76.37	12.658	
8,956.7	7,124.8	8,955.0	7,060.0	38.8	41.9	86.28	-1,834.0	-993.0	966.8	888.4	78.36	12.338	
9,000.0	7,124.7	8,998.3	7,059.8	39.6	42.6	86.27	-1,877.3	-993.1	966.8	886.9	79.87	12.104	
9,055.1	7,124.6	9,053.4	7,059.4	40.6	43.5	86.25	-1,932.4	-993.3	966.8	885.0	81.82	11.816	
9,100.0	7,124.5	9,098.3	7,059.1	41.4	44.3	86.24	-1,977.3	-993.5	966.8	883.4	83.40	11.592	
9,153.5	7,124.4	9,151.8	7,058.8	42.3	45.2	86.23	-2,030.8	-993.7	966.8	881.5	85.30	11.334	
9,200.0	7,124.3	9,198.3	7,058.5	43.2	46.0	86.22	-2,077.3	-993.8	966.8	879.9	86.96	11.119	
9,251.9	7,124.2	9,250.2	7,058.2	44.1	46.8	86.21	-2,129.2	-994.0	966.9	878.0	88.81	10.886	
9,300.0	7,124.1	9,298.3	7,057.9	45.0	47.7	86.19	-2,177.3	-994.2	966.9	876.3	90.53	10.680	
9,350.4	7,123.9	9,348.7	7,057.6	45.9	48.5	86.18	-2,227.6	-994.4	966.9	874.5	92.34	10.471	
9,400.0	7,123.8	9,398.3	7,057.3	46.8	49.4	86.17	-2,277.3	-994.6	966.9	872.8	94.13	10.272	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
9,448.8	7,123.7	9,447.1	7,056.9	47.7	50.2	86.16	-2,326.1	-994.8	966.9	871.0	95.89	10.083	
9,500.0	7,123.6	9,498.3	7,056.6	48.6	51.1	86.15	-2,377.3	-995.0	966.9	869.2	97.74	9.893	
9,547.2	7,123.5	9,545.5	7,056.3	49.4	51.9	86.13	-2,424.5	-995.1	966.9	867.5	99.45	9.722	
9,600.0	7,123.4	9,598.3	7,056.0	50.4	52.9	86.12	-2,477.3	-995.3	967.0	865.6	101.37	9.539	
9,645.6	7,123.3	9,643.9	7,055.7	51.2	53.7	86.11	-2,522.9	-995.5	967.0	863.9	103.03	9.385	
9,700.0	7,123.2	9,698.3	7,055.4	52.2	54.6	86.10	-2,577.3	-995.7	967.0	862.0	105.01	9.208	
9,744.1	7,123.1	9,742.4	7,055.1	53.1	55.4	86.09	-2,621.3	-995.9	967.0	860.4	106.62	9.069	
9,800.0	7,122.9	9,798.3	7,054.7	54.1	56.4	86.07	-2,677.3	-996.1	967.0	858.3	108.67	8.899	
9,842.5	7,122.8	9,840.8	7,054.5	54.9	57.1	86.06	-2,719.7	-996.2	967.0	856.8	110.23	8.773	
9,900.0	7,122.7	9,898.3	7,054.1	55.9	58.2	86.05	-2,777.2	-996.4	967.0	854.7	112.34	8.608	
9,940.9	7,122.6	9,939.2	7,053.9	56.7	58.9	86.04	-2,818.2	-996.6	967.1	853.2	113.84	8.495	
10,000.0	7,122.5	9,998.3	7,053.5	57.8	59.9	86.03	-2,877.2	-996.8	967.1	851.1	116.01	8.336	
10,039.3	7,122.4	10,037.6	7,053.2	58.5	60.6	86.02	-2,916.6	-996.9	967.1	849.6	117.47	8.233	
10,100.0	7,122.3	10,098.3	7,052.9	59.6	61.7	86.00	-2,977.2	-997.2	967.1	847.4	119.70	8.079	
10,137.8	7,122.2	10,136.1	7,052.6	60.3	62.4	85.99	-3,015.0	-997.3	967.1	846.0	121.10	7.986	
10,200.0	7,122.0	10,198.3	7,052.2	61.5	63.5	85.98	-3,077.2	-997.5	967.1	843.7	123.40	7.838	
10,236.2	7,121.9	10,234.5	7,052.0	62.2	64.2	85.97	-3,113.4	-997.7	967.2	842.4	124.74	7.754	
10,300.0	7,121.8	10,298.3	7,051.6	63.3	65.3	85.96	-3,177.2	-997.9	967.2	840.1	127.10	7.610	
10,334.6	7,121.7	10,332.9	7,051.4	64.0	66.0	85.95	-3,211.9	-998.0	967.2	838.8	128.39	7.533	
10,400.0	7,121.6	10,398.3	7,051.0	65.2	67.2	85.93	-3,277.2	-998.3	967.2	836.4	130.81	7.394	
10,433.0	7,121.5	10,431.3	7,050.8	65.8	67.8	85.92	-3,310.3	-998.4	967.2	835.2	132.04	7.325	
10,500.0	7,121.4	10,498.3	7,050.3	67.1	69.0	85.91	-3,377.2	-998.6	967.2	832.7	134.53	7.190	
10,531.5	7,121.3	10,529.7	7,050.1	67.7	69.6	85.90	-3,408.7	-998.8	967.3	831.6	135.70	7.128	
10,600.0	7,121.1	10,598.3	7,049.7	69.0	70.8	85.88	-3,477.2	-999.0	967.3	829.0	138.25	6.997	
10,629.9	7,121.1	10,628.2	7,049.5	69.5	71.4	85.88	-3,507.1	-999.1	967.3	827.9	139.37	6.941	
10,700.0	7,120.9	10,698.3	7,049.1	70.8	72.6	85.86	-3,577.2	-999.4	967.3	825.3	141.98	6.813	
10,728.3	7,120.8	10,726.6	7,048.9	71.4	73.2	85.85	-3,605.5	-999.5	967.3	824.3	143.04	6.763	
10,800.0	7,120.7	10,798.3	7,048.5	72.7	74.5	85.84	-3,677.2	-999.8	967.3	821.6	145.71	6.639	
10,826.7	7,120.6	10,825.0	7,048.3	73.2	75.0	85.83	-3,704.0	-999.9	967.4	820.6	146.71	6.594	
10,900.0	7,120.5	10,898.3	7,047.8	74.6	76.3	85.81	-3,777.2	-1,000.1	967.4	817.9	149.45	6.473	
10,925.2	7,120.4	10,923.4	7,047.7	75.1	76.8	85.81	-3,802.4	-1,000.2	967.4	817.0	150.39	6.432	
11,000.0	7,120.2	10,998.3	7,047.2	76.5	78.2	85.79	-3,877.2	-1,000.5	967.4	814.2	153.19	6.315	
11,023.6	7,120.2	11,021.9	7,047.0	76.9	78.6	85.78	-3,900.8	-1,000.6	967.4	813.3	154.08	6.279	
11,100.0	7,120.0	11,098.3	7,046.6	78.3	80.0	85.77	-3,977.2	-1,000.9	967.4	810.5	156.94	6.165	
11,122.0	7,120.0	11,120.3	7,046.4	78.8	80.4	85.76	-3,999.2	-1,000.9	967.5	809.7	157.76	6.132	
11,200.0	7,119.8	11,198.3	7,045.9	80.2	81.9	85.74	-4,077.2	-1,001.2	967.5	806.8	160.69	6.021	
11,220.4	7,119.7	11,218.7	7,045.8	80.6	82.2	85.74	-4,097.6	-1,001.3	967.5	806.0	161.45	5.992	
11,300.0	7,119.5	11,298.3	7,045.3	82.1	83.7	85.72	-4,177.2	-1,001.6	967.5	803.1	164.44	5.884	
11,318.9	7,119.5	11,317.1	7,045.2	82.5	84.1	85.71	-4,196.1	-1,001.7	967.5	802.4	165.15	5.859	
11,400.0	7,119.3	11,398.3	7,044.7	84.0	85.6	85.69	-4,277.2	-1,002.0	967.6	799.4	168.19	5.753	
11,417.3	7,119.3	11,415.6	7,044.6	84.3	85.9	85.69	-4,294.5	-1,002.0	967.6	798.7	168.85	5.730	
11,500.0	7,119.1	11,498.3	7,044.1	85.9	87.4	85.67	-4,377.2	-1,002.3	967.6	795.6	171.95	5.627	
11,515.7	7,119.1	11,514.0	7,044.0	86.2	87.7	85.67	-4,392.9	-1,002.4	967.6	795.1	172.55	5.608	
11,600.0	7,118.9	11,598.3	7,043.4	87.8	89.3	85.65	-4,477.2	-1,002.7	967.6	791.9	175.72	5.507	
11,614.1	7,118.8	11,612.4	7,043.3	88.0	89.5	85.64	-4,491.3	-1,002.8	967.6	791.4	176.25	5.490	
11,700.0	7,118.6	11,698.3	7,042.8	89.7	91.1	85.62	-4,577.2	-1,003.1	967.7	788.2	179.48	5.392	
11,712.6	7,118.6	11,710.8	7,042.7	89.9	91.4	85.62	-4,589.7	-1,003.1	967.7	787.7	179.95	5.377	
11,800.0	7,118.4	11,798.3	7,042.2	91.6	93.0	85.60	-4,677.2	-1,003.5	967.7	784.5	183.25	5.281	
11,811.0	7,118.4	11,809.3	7,042.1	91.8	93.2	85.60	-4,688.2	-1,003.5	967.7	784.0	183.66	5.269	
11,900.0	7,118.2	11,898.2	7,041.5	93.4	94.9	85.58	-4,777.2	-1,003.8	967.7	780.7	187.01	5.175	
11,909.4	7,118.2	11,907.7	7,041.5	93.6	95.1	85.57	-4,786.6	-1,003.9	967.7	780.4	187.37	5.165	
12,000.0	7,118.0	11,998.2	7,040.9	95.3	96.7	85.55	-4,877.2	-1,004.2	967.8	777.0	190.78	5.073	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
12,007.8	7,118.0	12,006.1	7,040.9	95.5	96.9	85.55	-4,885.0	-1,004.2	967.8	776.7	191.08	5.065	
12,100.0	7,117.8	12,098.2	7,040.3	97.2	98.6	85.53	-4,977.2	-1,004.6	967.8	773.3	194.56	4.974	
12,106.3	7,117.7	12,104.5	7,040.2	97.4	98.7	85.53	-4,983.4	-1,004.6	967.8	773.0	194.79	4.968	
12,200.0	7,117.5	12,198.2	7,039.7	99.1	100.5	85.50	-5,077.1	-1,004.9	967.9	769.5	198.33	4.880	
12,204.7	7,117.5	12,202.9	7,039.6	99.2	100.6	85.50	-5,081.8	-1,005.0	967.9	769.3	198.51	4.876	
12,300.0	7,117.3	12,298.2	7,039.0	101.0	102.4	85.48	-5,177.1	-1,005.3	967.9	765.8	202.11	4.789	
12,303.1	7,117.3	12,301.4	7,039.0	101.1	102.4	85.48	-5,180.3	-1,005.3	967.9	765.7	202.22	4.786	
12,400.0	7,117.1	12,398.2	7,038.4	102.9	104.2	85.46	-5,277.1	-1,005.7	967.9	762.0	205.88	4.701	
12,401.5	7,117.1	12,399.8	7,038.4	103.0	104.3	85.46	-5,278.7	-1,005.7	967.9	762.0	205.94	4.700	
12,500.0	7,116.9	12,498.2	7,037.8	104.8	106.1	85.43	-5,377.1	-1,006.1	968.0	758.3	209.66	4.617	
12,598.4	7,116.6	12,596.6	7,037.1	106.7	108.0	85.41	-5,475.5	-1,006.4	968.0	754.6	213.38	4.537	
12,600.0	7,116.6	12,598.2	7,037.1	106.7	108.0	85.41	-5,477.1	-1,006.4	968.0	754.6	213.44	4.535	
12,696.8	7,116.4	12,695.1	7,036.5	108.6	109.8	85.39	-5,573.9	-1,006.8	968.1	750.9	217.10	4.459	
12,700.0	7,116.4	12,698.2	7,036.5	108.6	109.9	85.38	-5,577.1	-1,006.8	968.1	750.8	217.22	4.456	
12,795.2	7,116.2	12,793.5	7,035.9	110.4	111.7	85.36	-5,672.4	-1,007.2	968.1	747.3	220.83	4.384	
12,800.0	7,116.2	12,798.2	7,035.9	110.5	111.8	85.36	-5,677.1	-1,007.2	968.1	747.1	221.01	4.380	
12,893.7	7,116.0	12,891.9	7,035.3	112.3	113.5	85.34	-5,770.8	-1,007.5	968.1	743.6	224.55	4.311	
12,900.0	7,116.0	12,898.2	7,035.3	112.4	113.7	85.34	-5,777.1	-1,007.5	968.1	743.3	224.79	4.307	
12,992.1	7,115.7	12,990.3	7,034.7	114.2	115.4	85.32	-5,869.2	-1,007.9	968.2	739.9	228.28	4.241	
13,000.0	7,115.7	12,998.2	7,034.6	114.3	115.5	85.31	-5,877.1	-1,007.9	968.2	739.6	228.58	4.236	
13,090.5	7,115.5	13,088.8	7,034.1	116.1	117.2	85.29	-5,967.6	-1,008.3	968.2	736.2	232.00	4.173	
13,100.0	7,115.5	13,098.2	7,034.0	116.2	117.4	85.29	-5,977.1	-1,008.3	968.2	735.9	232.36	4.167	
13,188.9	7,115.3	13,187.2	7,033.4	117.9	119.1	85.27	-6,066.1	-1,008.6	968.3	732.5	235.73	4.107	
13,200.0	7,115.3	13,198.2	7,033.4	118.1	119.3	85.27	-6,077.1	-1,008.7	968.3	732.1	236.15	4.100	
13,287.4	7,115.1	13,285.6	7,032.8	119.8	121.0	85.24	-6,164.5	-1,009.0	968.3	728.8	239.46	4.044	
13,300.0	7,115.1	13,298.2	7,032.7	120.0	121.2	85.24	-6,177.1	-1,009.0	968.3	728.4	239.94	4.036	
13,385.8	7,114.9	13,384.0	7,032.2	121.7	122.8	85.22	-6,262.9	-1,009.3	968.3	725.2	243.19	3.982	
13,400.0	7,114.8	13,398.2	7,032.1	121.9	123.1	85.22	-6,277.1	-1,009.4	968.3	724.6	243.73	3.973	
13,484.2	7,114.6	13,482.4	7,031.6	123.6	124.7	85.20	-6,361.3	-1,009.7	968.4	721.5	246.92	3.922	
13,500.0	7,114.6	13,498.2	7,031.5	123.9	125.0	85.19	-6,377.1	-1,009.8	968.4	720.9	247.51	3.912	
13,582.6	7,114.4	13,580.9	7,031.0	125.4	126.5	85.17	-6,459.7	-1,010.1	968.4	717.8	250.65	3.864	
13,600.0	7,114.4	13,598.2	7,030.8	125.8	126.9	85.17	-6,477.1	-1,010.1	968.4	717.1	251.30	3.854	
13,681.1	7,114.2	13,679.3	7,030.3	127.3	128.4	85.15	-6,558.2	-1,010.4	968.5	714.1	254.38	3.807	
13,700.0	7,114.2	13,698.2	7,030.2	127.7	128.8	85.15	-6,577.1	-1,010.5	968.5	713.4	255.09	3.797	
13,779.5	7,114.0	13,777.7	7,029.7	129.2	130.3	85.13	-6,656.6	-1,010.8	968.5	710.4	258.11	3.752	
13,800.0	7,113.9	13,798.2	7,029.6	129.6	130.7	85.12	-6,677.1	-1,010.9	968.5	709.6	258.89	3.741	
13,877.9	7,113.8	13,876.1	7,029.1	131.1	132.1	85.10	-6,755.0	-1,011.2	968.6	706.7	261.84	3.699	
13,900.0	7,113.7	13,898.2	7,029.0	131.5	132.5	85.10	-6,777.1	-1,011.3	968.6	705.9	262.68	3.687	
13,976.3	7,113.5	13,974.6	7,028.5	132.9	134.0	85.08	-6,853.4	-1,011.5	968.6	703.0	265.57	3.647	
14,000.0	7,113.5	13,998.2	7,028.3	133.4	134.4	85.07	-6,877.1	-1,011.6	968.6	702.1	266.47	3.635	
14,074.8	7,113.3	14,073.0	7,027.9	134.8	135.9	85.06	-6,951.8	-1,011.9	968.6	699.3	269.31	3.597	
14,100.0	7,113.3	14,098.2	7,027.7	135.3	136.3	85.05	-6,977.1	-1,012.0	968.6	698.4	270.26	3.584	
14,173.2	7,113.1	14,171.4	7,027.2	136.7	137.7	85.03	-7,050.3	-1,012.3	968.7	695.6	273.04	3.548	
14,200.0	7,113.0	14,198.2	7,027.1	137.2	138.2	85.03	-7,077.1	-1,012.4	968.7	694.6	274.06	3.535	
14,202.1	7,113.0	14,200.3	7,027.1	137.2	138.3	85.03	-7,079.1	-1,012.4	968.7	694.6	274.14	3.534	
14,219.1	7,113.0	14,210.5	7,027.0	137.6	138.5	85.02	-7,089.4	-1,012.4	968.7	694.1	274.65	3.527 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	1.0	1.0	0.0	0.0	90.00	0.0	30.7	30.7				
98.4	98.4	99.4	99.4	0.1	0.1	90.00	0.0	30.7	30.7	30.5	0.19	159.666	
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	30.7	30.7	30.5	0.20	155.951	
196.8	196.8	197.8	197.8	0.3	0.3	90.00	0.0	30.7	30.7	30.0	0.63	48.527	
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	30.7	30.7	30.0	0.65	47.463	
295.3	295.3	296.3	296.3	0.5	0.5	90.00	0.0	30.7	30.7	29.6	1.07	28.545	
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	30.7	30.7	29.6	1.10	27.991	
393.7	393.7	394.7	394.7	0.8	0.8	90.00	0.0	30.7	30.7	29.2	1.52	20.219	
400.0	400.0	401.0	401.0	0.8	0.8	90.00	0.0	30.7	30.7	29.1	1.55	19.848	
492.1	492.1	493.1	493.1	1.0	1.0	90.00	0.0	30.7	30.7	28.7	1.96	15.653	
500.0	500.0	501.0	501.0	1.0	1.0	90.00	0.0	30.7	30.7	28.7	1.99	15.375	
590.5	590.5	591.5	591.5	1.2	1.2	90.00	0.0	30.7	30.7	28.3	2.40	12.770	
600.0	600.0	601.0	601.0	1.2	1.2	90.00	0.0	30.7	30.7	28.2	2.44	12.548	
689.0	689.0	690.0	690.0	1.4	1.4	90.00	0.0	30.7	30.7	27.8	2.84	10.783	
700.0	700.0	701.0	701.0	1.4	1.4	90.00	0.0	30.7	30.7	27.8	2.89	10.599	
787.4	787.4	788.4	788.4	1.6	1.6	90.00	0.0	30.7	30.7	27.4	3.29	9.332	
800.0	800.0	801.0	801.0	1.7	1.7	90.00	0.0	30.7	30.7	27.3	3.34	9.174	
885.8	885.8	886.8	886.8	1.9	1.9	90.00	0.0	30.7	30.7	26.9	3.73	8.225	
900.0	900.0	901.0	901.0	1.9	1.9	90.00	0.0	30.7	30.7	26.9	3.79	8.086	
984.2	984.2	985.2	985.2	2.1	2.1	90.00	0.0	30.7	30.7	26.5	4.17	7.352	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	90.00	0.0	30.7	30.7	26.4	4.24	7.230	
1,082.7	1,082.7	1,083.7	1,083.7	2.3	2.3	90.00	0.0	30.7	30.7	26.1	4.61	6.647	
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	90.00	0.0	30.7	30.7	26.0	4.69	6.537	
1,181.1	1,181.1	1,182.1	1,182.1	2.5	2.5	90.00	0.0	30.7	30.7	25.6	5.06	6.066	
1,193.3	1,193.3	1,194.3	1,194.3	2.6	2.6	90.00	0.0	30.7	30.7	25.6	5.11	6.000 CC	
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	90.00	0.0	30.7	30.7	25.5	5.14	5.965 ES	
1,279.5	1,279.5	1,280.0	1,280.0	2.7	2.7	88.36	0.9	31.3	31.4	25.9	5.50	5.706	
1,300.0	1,300.0	1,300.0	1,300.0	2.8	2.8	87.47	1.4	31.7	31.8	26.2	5.59	5.686	
1,377.9	1,377.9	1,377.6	1,377.5	3.0	3.0	88.57	4.4	33.9	34.2	28.3	5.93	5.770	
1,400.0	1,400.0	1,399.5	1,399.3	3.0	3.0	87.92	5.6	34.8	35.2	29.2	6.03	5.836	
1,476.4	1,476.3	1,475.1	1,474.6	3.2	3.2	86.45	10.6	38.5	39.4	33.0	6.37	6.181	
1,500.0	1,499.8	1,498.4	1,497.9	3.2	3.2	86.22	12.5	39.9	40.9	34.4	6.47	6.321	
1,574.8	1,574.4	1,572.2	1,571.1	3.4	3.4	86.04	19.4	45.0	46.6	39.8	6.81	6.844	
1,600.0	1,599.5	1,597.0	1,595.7	3.5	3.5	86.12	22.1	47.0	48.8	41.9	6.93	7.049	
1,673.2	1,672.2	1,669.0	1,666.9	3.6	3.7	86.68	30.8	53.5	56.0	48.7	7.28	7.694	
1,700.0	1,698.7	1,695.2	1,692.7	3.7	3.7	86.96	34.3	56.1	58.9	51.5	7.41	7.954	
1,771.6	1,769.5	1,765.3	1,761.6	3.9	3.9	87.86	44.7	63.7	67.5	59.7	7.78	8.676	
1,800.0	1,797.5	1,792.9	1,788.7	4.0	4.0	88.24	49.1	67.0	71.2	63.3	7.93	8.981	
1,870.1	1,866.3	1,862.2	1,856.5	4.2	4.2	89.61	60.7	75.6	80.7	72.4	8.33	9.687	
1,900.1	1,895.8	1,892.0	1,885.6	4.3	4.3	90.45	65.7	79.3	84.8	76.3	8.50	9.969	
1,968.5	1,962.6	1,959.6	1,951.8	4.5	4.6	92.46	77.0	87.7	94.2	85.2	8.93	10.544	
2,000.0	1,993.4	1,990.8	1,982.2	4.6	4.7	93.25	82.2	91.5	98.5	89.4	9.13	10.793	
2,066.9	2,058.9	2,057.0	2,047.0	4.8	4.9	94.73	93.3	99.7	107.8	98.2	9.57	11.268	
2,100.0	2,091.3	2,089.7	2,079.0	4.9	5.0	95.37	98.8	103.8	112.4	102.6	9.79	11.488	
2,165.3	2,155.2	2,154.4	2,142.3	5.1	5.3	96.50	109.6	111.8	121.6	111.4	10.24	11.879	
2,200.0	2,189.1	2,188.7	2,175.8	5.3	5.4	97.02	115.3	116.0	126.5	116.0	10.48	12.073	
2,263.8	2,251.4	2,251.8	2,237.5	5.5	5.7	97.90	125.8	123.8	135.5	124.6	10.93	12.397	
2,300.0	2,286.9	2,287.6	2,272.6	5.6	5.8	98.34	131.8	128.2	140.6	129.4	11.19	12.569	
2,362.2	2,347.7	2,349.2	2,332.8	5.9	6.0	99.04	142.1	135.9	149.4	137.8	11.64	12.836	
2,400.0	2,384.7	2,386.6	2,369.4	6.0	6.2	99.42	148.4	140.5	154.8	142.9	11.92	12.989	
2,460.6	2,444.0	2,446.6	2,428.1	6.3	6.4	99.99	158.4	147.9	163.4	151.1	12.37	13.212	
2,500.0	2,482.5	2,485.5	2,466.2	6.4	6.6	100.32	164.9	152.7	169.0	156.4	12.66	13.348	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
2,559.0	2,540.3	2,544.0	2,523.3	6.6	6.8	100.78	174.7	159.9	177.5	164.4	13.11	13.535	
2,600.0	2,580.3	2,584.5	2,563.0	6.8	7.0	101.08	181.4	165.0	183.3	169.9	13.42	13.657	
2,617.6	2,597.5	2,601.9	2,580.0	6.9	7.1	101.20	184.4	167.1	185.8	172.3	13.56	13.707	
2,657.5	2,636.6	2,641.4	2,618.6	7.0	7.2	101.49	191.0	172.0	191.5	177.6	13.85	13.829	
2,700.0	2,678.4	2,683.5	2,659.8	7.2	7.4	101.62	198.0	177.2	197.4	183.2	14.15	13.946	
2,755.9	2,733.5	2,738.9	2,714.0	7.3	7.6	101.51	207.3	184.1	204.9	190.4	14.52	14.112	
2,800.0	2,777.0	2,782.5	2,756.7	7.4	7.8	101.23	214.6	189.5	210.8	196.0	14.81	14.229	
2,854.3	2,830.9	2,836.4	2,809.3	7.6	8.0	100.66	223.6	196.1	217.8	202.6	15.15	14.373	
2,900.0	2,876.2	2,882.6	2,854.5	7.7	8.2	100.03	231.2	201.8	223.5	208.1	15.43	14.488	
2,952.7	2,928.7	2,937.1	2,908.1	7.8	8.4	99.26	239.5	207.9	229.6	213.9	15.70	14.621	
3,000.0	2,975.8	2,986.1	2,956.3	7.9	8.5	98.59	246.3	212.9	234.5	218.6	15.94	14.712	
3,051.2	3,026.8	3,039.3	3,008.9	8.0	8.7	97.85	252.9	217.8	239.3	223.1	16.17	14.795	
3,100.0	3,075.6	3,090.2	3,059.3	8.1	8.8	97.13	258.5	222.0	243.3	226.9	16.39	14.843	
3,149.6	3,125.2	3,142.0	3,110.8	8.2	9.0	96.39	263.5	225.7	246.7	230.2	16.58	14.882	
3,200.0	3,175.6	3,194.9	3,163.4	8.3	9.1	95.62	267.7	228.8	249.7	233.0	16.77	14.890	
3,217.7	3,193.3	3,213.5	3,181.9	8.3	9.1	91.06	269.1	229.8	250.6	233.8	16.83	14.897	
3,248.0	3,223.6	3,245.3	3,213.6	8.4	9.2	90.59	271.1	231.3	252.1	235.1	16.93	14.889	
3,300.0	3,275.6	3,300.0	3,268.2	8.5	9.3	89.95	273.9	233.4	254.0	236.9	17.11	14.847	
3,346.4	3,322.0	3,349.0	3,317.2	8.6	9.4	89.54	275.8	234.7	255.3	238.1	17.27	14.784	
3,400.0	3,375.6	3,405.6	3,373.7	8.7	9.5	89.26	277.0	235.7	256.2	238.8	17.46	14.675	
3,444.9	3,420.4	3,453.1	3,421.2	8.7	9.6	89.17	277.4	236.0	256.5	238.9	17.62	14.561	
3,500.0	3,475.6	3,508.4	3,476.6	8.8	9.7	89.17	277.4	236.0	256.5	238.7	17.81	14.403	
3,543.3	3,518.9	3,551.7	3,519.9	8.9	9.7	89.17	277.4	236.0	256.5	238.5	17.97	14.276	
3,600.0	3,575.6	3,608.4	3,576.6	9.0	9.8	89.17	277.4	236.0	256.5	238.3	18.17	14.114	
3,641.7	3,617.3	3,650.2	3,618.3	9.1	9.9	89.17	277.4	236.0	256.5	238.2	18.33	13.996	
3,700.0	3,675.6	3,708.4	3,676.6	9.2	10.0	89.17	277.4	236.0	256.5	238.0	18.54	13.834	
3,740.1	3,715.7	3,748.6	3,716.7	9.3	10.1	89.17	277.4	236.0	256.5	237.8	18.69	13.723	
3,800.0	3,775.6	3,808.4	3,776.6	9.4	10.2	89.17	277.4	236.0	256.5	237.6	18.91	13.562	
3,838.6	3,814.1	3,847.0	3,815.1	9.5	10.2	89.17	277.4	236.0	256.5	237.4	19.06	13.459	
3,900.0	3,875.6	3,908.4	3,876.6	9.6	10.4	89.17	277.4	236.0	256.5	237.2	19.29	13.298	
3,937.0	3,912.6	3,945.4	3,913.6	9.7	10.4	89.17	277.4	236.0	256.5	237.1	19.43	13.203	
4,000.0	3,975.6	4,008.4	3,976.6	9.8	10.5	89.17	277.4	236.0	256.5	236.8	19.67	13.043	
4,035.4	4,011.0	4,043.9	4,012.0	9.9	10.6	89.17	277.4	236.0	256.5	236.7	19.80	12.954	
4,100.0	4,075.6	4,108.4	4,076.6	10.0	10.7	89.17	277.4	236.0	256.5	236.5	20.05	12.795	
4,133.8	4,109.4	4,142.3	4,110.4	10.0	10.8	89.17	277.4	236.0	256.5	236.3	20.18	12.713	
4,200.0	4,175.6	4,208.4	4,176.6	10.2	10.9	89.17	277.4	236.0	256.5	236.1	20.43	12.555	
4,232.3	4,207.8	4,240.7	4,208.8	10.2	11.0	89.17	277.4	236.0	256.5	235.9	20.56	12.478	
4,300.0	4,275.6	4,308.4	4,276.6	10.4	11.1	89.17	277.4	236.0	256.5	235.7	20.82	12.321	
4,330.7	4,306.3	4,339.1	4,307.3	10.4	11.1	89.17	277.4	236.0	256.5	235.6	20.94	12.251	
4,400.0	4,375.6	4,408.4	4,376.6	10.6	11.3	89.17	277.4	236.0	256.5	235.3	21.21	12.096	
4,429.1	4,404.7	4,437.6	4,405.7	10.6	11.3	89.17	277.4	236.0	256.5	235.2	21.32	12.031	
4,500.0	4,475.6	4,508.4	4,476.6	10.8	11.4	89.17	277.4	236.0	256.5	234.9	21.60	11.876	
4,527.5	4,503.1	4,536.0	4,504.1	10.8	11.5	89.17	277.4	236.0	256.5	234.8	21.71	11.817	
4,600.0	4,575.6	4,608.4	4,576.6	11.0	11.6	89.17	277.4	236.0	256.5	234.5	21.99	11.664	
4,626.0	4,601.5	4,634.4	4,602.5	11.0	11.7	89.17	277.4	236.0	256.5	234.4	22.09	11.610	
4,700.0	4,675.6	4,708.4	4,676.6	11.2	11.8	89.17	277.4	236.0	256.5	234.1	22.39	11.458	
4,724.4	4,700.0	4,732.8	4,701.0	11.2	11.9	89.17	277.4	236.0	256.5	234.0	22.48	11.408	
4,800.0	4,775.6	4,808.4	4,776.6	11.4	12.0	89.17	277.4	236.0	256.5	233.7	22.78	11.258	
4,822.8	4,798.4	4,831.3	4,799.4	11.4	12.0	89.17	277.4	236.0	256.5	233.6	22.88	11.213	
4,900.0	4,875.6	4,908.4	4,876.6	11.6	12.2	89.17	277.4	236.0	256.5	233.3	23.18	11.064	
4,921.2	4,896.8	4,929.7	4,897.8	11.6	12.2	89.17	277.4	236.0	256.5	233.2	23.27	11.023	
5,000.0	4,975.6	5,008.4	4,976.6	11.8	12.4	89.17	277.4	236.0	256.5	232.9	23.58	10.876	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
5,019.7	4,995.2	5,028.1	4,996.2	11.8	12.4	89.17	277.4	236.0	256.5	232.8	23.66	10.839	
5,100.0	5,075.6	5,108.4	5,076.6	12.0	12.6	89.17	277.4	236.0	256.5	232.5	23.99	10.693	
5,118.1	5,093.7	5,126.5	5,094.7	12.0	12.6	89.17	277.4	236.0	256.5	232.4	24.06	10.660	
5,200.0	5,175.6	5,208.4	5,176.6	12.2	12.8	89.17	277.4	236.0	256.5	232.1	24.39	10.516	
5,216.5	5,192.1	5,225.0	5,193.1	12.2	12.8	89.17	277.4	236.0	256.5	232.0	24.46	10.487	
5,300.0	5,275.6	5,308.4	5,276.6	12.4	13.0	89.17	277.4	236.0	256.5	231.7	24.80	10.343	
5,314.9	5,290.5	5,323.4	5,291.5	12.4	13.0	89.17	277.4	236.0	256.5	231.6	24.86	10.318	
5,400.0	5,375.6	5,408.4	5,376.6	12.6	13.2	89.17	277.4	236.0	256.5	231.3	25.21	10.176	
5,413.4	5,388.9	5,421.8	5,389.9	12.6	13.2	89.17	277.4	236.0	256.5	231.2	25.26	10.154	
5,500.0	5,475.6	5,508.4	5,476.6	12.8	13.4	89.17	277.4	236.0	256.5	230.9	25.62	10.014	
5,511.8	5,487.4	5,520.2	5,488.4	12.8	13.4	89.17	277.4	236.0	256.5	230.8	25.66	9.995	
5,600.0	5,575.6	5,608.4	5,576.6	13.0	13.6	89.17	277.4	236.0	256.5	230.5	26.03	9.856	
5,610.2	5,585.8	5,618.7	5,586.8	13.0	13.6	89.17	277.4	236.0	256.5	230.4	26.07	9.840	
5,700.0	5,675.6	5,708.4	5,676.6	13.2	13.8	89.17	277.4	236.0	256.5	230.1	26.44	9.702	
5,708.6	5,684.2	5,717.1	5,685.2	13.2	13.8	89.17	277.4	236.0	256.5	230.0	26.47	9.689	
5,800.0	5,775.6	5,808.4	5,776.6	13.4	14.0	89.17	277.4	236.0	256.5	229.6	26.85	9.553	
5,807.1	5,782.6	5,815.5	5,783.6	13.4	14.0	89.17	277.4	236.0	256.5	229.6	26.88	9.543	
5,900.0	5,875.6	5,908.4	5,876.6	13.6	14.2	89.17	277.4	236.0	256.5	229.2	27.26	9.408	
5,905.5	5,881.1	5,913.9	5,882.1	13.6	14.2	89.17	277.4	236.0	256.5	229.2	27.29	9.400	
6,000.0	5,975.6	6,008.4	5,976.6	13.8	14.4	89.17	277.4	236.0	256.5	228.8	27.68	9.267	
6,003.9	5,979.5	6,012.4	5,980.5	13.8	14.4	89.17	277.4	236.0	256.5	228.8	27.70	9.261	
6,100.0	6,075.6	6,108.4	6,076.6	14.0	14.6	89.17	277.4	236.0	256.5	228.4	28.10	9.130	
6,102.3	6,077.9	6,110.8	6,078.9	14.0	14.6	89.17	277.4	236.0	256.5	228.4	28.11	9.126	
6,200.0	6,175.6	6,208.4	6,176.6	14.2	14.8	89.17	277.4	236.0	256.5	228.0	28.51	8.996	
6,200.8	6,176.3	6,209.2	6,177.3	14.2	14.8	89.17	277.4	236.0	256.5	228.0	28.52	8.995	
6,299.2	6,274.8	6,307.7	6,275.9	14.4	15.0	89.23	277.1	236.0	256.5	227.6	28.92	8.869	
6,300.0	6,275.6	6,308.6	6,276.7	14.4	15.0	89.24	277.1	236.0	256.5	227.6	28.92	8.868	
6,361.4	6,337.0	6,370.0	6,338.0	14.6	15.0	90.21	272.8	236.0	256.5	227.3	29.15	8.799	
6,397.6	6,373.2	6,405.8	6,373.4	14.7	15.1	91.31	267.8	235.9	256.5	227.2	29.27	8.762	
6,400.0	6,375.6	6,408.1	6,375.7	14.7	15.1	91.40	267.4	235.9	256.5	227.2	29.28	8.760	
6,436.2	6,411.8	6,443.2	6,410.2	14.7	15.1	92.89	260.7	235.9	256.8	227.3	29.40	8.732	
6,450.0	6,425.6	6,456.4	6,423.0	14.8	15.1	-86.68	257.8	235.9	256.9	227.5	29.45	8.724	
6,496.0	6,471.5	6,500.0	6,465.1	14.8	15.1	-84.56	246.4	235.9	257.7	228.1	29.55	8.720	
6,500.0	6,475.5	6,503.9	6,468.8	14.8	15.1	-84.37	245.2	235.9	257.8	228.2	29.56	8.720	
6,550.0	6,525.1	6,550.0	6,512.4	14.9	15.1	-82.16	230.2	235.8	259.0	229.4	29.63	8.742	
6,594.5	6,568.7	6,592.0	6,551.1	14.9	15.1	-80.18	214.0	235.7	260.4	230.8	29.66	8.781	
6,600.0	6,574.1	6,597.1	6,555.7	14.9	15.1	-79.94	211.9	235.7	260.6	231.0	29.66	8.787	
6,650.0	6,622.4	6,642.8	6,596.7	14.9	15.1	-77.84	191.5	235.7	262.6	232.9	29.65	8.855	
6,692.9	6,663.0	6,681.6	6,630.3	14.9	15.1	-76.11	172.2	235.6	264.5	234.8	29.62	8.930	
6,700.0	6,669.6	6,688.0	6,635.7	14.9	15.1	-75.83	168.8	235.6	264.8	235.2	29.61	8.943	
6,750.0	6,715.6	6,732.7	6,672.9	14.9	15.1	-73.92	144.0	235.5	267.2	237.7	29.53	9.049	
6,791.3	6,752.5	6,769.4	6,702.2	14.9	15.1	-72.42	121.9	235.4	269.4	240.0	29.45	9.148	
6,800.0	6,760.1	6,777.0	6,708.1	14.9	15.1	-72.12	117.1	235.4	269.9	240.4	29.43	9.170	
6,850.0	6,802.9	6,820.9	6,741.3	14.9	15.1	-70.42	88.4	235.3	272.6	243.3	29.31	9.303	
6,889.7	6,835.6	6,855.5	6,766.2	14.9	15.1	-69.15	64.4	235.2	274.9	245.7	29.20	9.414	
6,900.0	6,843.8	6,864.4	6,772.4	14.9	15.1	-68.84	58.1	235.2	275.5	246.3	29.17	9.443	
6,950.0	6,882.6	6,907.5	6,801.4	14.9	15.1	-67.37	26.1	235.0	278.3	249.3	29.03	9.586	
6,988.2	6,910.7	6,940.2	6,822.1	15.0	15.1	-66.33	0.7	235.0	280.5	251.5	28.94	9.692	
7,000.0	6,919.1	6,950.0	6,828.0	15.0	15.1	-66.03	-7.0	234.9	281.1	252.2	28.91	9.725	
7,050.0	6,953.1	6,992.9	6,852.8	15.0	15.1	-64.79	-42.0	234.8	283.9	255.1	28.80	9.856	
7,086.6	6,976.4	7,023.8	6,869.4	15.1	15.1	-63.96	-68.1	234.7	285.8	257.1	28.77	9.936	
7,100.0	6,984.5	7,035.1	6,875.2	15.1	15.1	-63.67	-77.8	234.7	286.5	257.8	28.75	9.967	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
7,150.0	7,013.1	7,077.2	6,895.3	15.3	15.3	-62.67	-114.7	234.5	289.0	260.3	28.74	10.058	
7,185.0	7,031.4	7,106.5	6,908.0	15.4	15.4	-62.04	-141.1	234.4	290.7	261.9	28.77	10.104	
7,200.0	7,038.8	7,119.0	6,913.1	15.4	15.5	-61.78	-152.6	234.4	291.3	262.5	28.79	10.119	
7,250.0	7,061.4	7,160.6	6,928.6	15.6	15.7	-61.01	-191.2	234.3	293.4	264.5	28.93	10.144	
7,283.4	7,074.8	7,188.4	6,937.7	15.8	15.9	-60.55	-217.4	234.2	294.7	265.6	29.07	10.136	
7,300.0	7,080.9	7,200.0	6,941.2	15.9	16.0	-60.37	-228.5	234.1	295.3	266.1	29.14	10.132	
7,350.0	7,097.1	7,243.5	6,952.7	16.2	16.3	-59.79	-270.4	234.0	296.9	267.4	29.48	10.069	
7,381.9	7,105.7	7,269.8	6,958.4	16.4	16.5	-59.50	-296.1	233.9	297.7	268.0	29.76	10.006	
7,400.0	7,109.9	7,284.7	6,961.3	16.6	16.6	-59.35	-310.7	233.8	298.2	268.3	29.92	9.965	
7,450.0	7,119.4	7,325.9	6,967.4	17.0	17.0	-59.02	-351.4	233.7	299.2	268.7	30.47	9.819	
7,480.3	7,123.4	7,350.0	6,970.0	17.2	17.2	-58.87	-375.4	233.6	299.6	268.8	30.85	9.713	
7,500.0	7,125.4	7,367.0	6,971.3	17.4	17.4	-58.79	-392.3	233.5	299.9	268.7	31.13	9.634	
7,550.0	7,127.9	7,408.0	6,972.8	17.9	17.7	-58.67	-433.4	233.4	300.2	268.4	31.89	9.416	
7,562.9	7,128.0	7,420.0	6,972.8	18.0	17.9	-58.65	-445.3	233.3	300.3	268.2	32.11	9.352	
7,563.5	7,128.0	7,420.0	6,972.8	18.0	17.9	-58.65	-445.3	233.3	300.3	268.2	32.12	9.350	
7,578.7	7,128.0	7,434.2	6,972.6	18.2	18.0	-58.64	-459.5	233.3	300.3	268.0	32.38	9.275	
7,600.0	7,127.9	7,455.4	6,972.4	18.4	18.2	-58.61	-480.8	233.2	300.4	267.7	32.77	9.168	
7,677.1	7,127.7	7,532.6	6,971.7	19.2	19.1	-58.53	-557.9	232.9	300.7	266.4	34.26	8.777	
7,700.0	7,127.7	7,555.4	6,971.5	19.5	19.4	-58.50	-580.8	232.8	300.8	266.1	34.71	8.664	
7,775.6	7,127.5	7,631.0	6,970.9	20.3	20.3	-58.42	-656.3	232.5	301.0	264.8	36.21	8.314	
7,800.0	7,127.5	7,655.4	6,970.6	20.5	20.6	-58.39	-680.8	232.5	301.1	264.4	36.70	8.205	
7,874.0	7,127.3	7,729.4	6,970.0	21.4	21.6	-58.31	-754.7	232.2	301.4	263.1	38.30	7.870	
7,900.0	7,127.2	7,755.4	6,969.7	21.7	22.0	-58.28	-780.7	232.1	301.5	262.6	38.87	7.757	
7,972.4	7,127.1	7,827.9	6,969.1	22.7	23.0	-58.20	-853.2	231.8	301.8	261.1	40.63	7.427	
8,000.0	7,127.0	7,855.4	6,968.8	23.1	23.4	-58.17	-880.7	231.7	301.9	260.5	41.31	7.307	
8,070.8	7,126.8	7,926.3	6,968.2	24.2	24.5	-58.09	-951.6	231.5	302.1	259.0	43.12	7.007	
8,100.0	7,126.8	7,955.4	6,967.9	24.6	24.9	-58.06	-980.7	231.4	302.2	258.3	43.87	6.889	
8,169.3	7,126.6	8,024.7	6,967.3	25.6	26.0	-57.98	-1,050.0	231.1	302.5	256.8	45.71	6.617	
8,200.0	7,126.6	8,055.4	6,967.0	26.1	26.5	-57.95	-1,080.7	231.0	302.6	256.0	46.53	6.503	
8,267.7	7,126.4	8,123.1	6,966.4	27.2	27.6	-57.88	-1,148.4	230.7	302.8	254.4	48.38	6.259	
8,300.0	7,126.3	8,155.4	6,966.1	27.7	28.1	-57.84	-1,180.7	230.6	302.9	253.7	49.28	6.148	
8,366.1	7,126.2	8,221.5	6,965.5	28.8	29.2	-57.77	-1,246.8	230.4	303.2	252.0	51.13	5.929	
8,400.0	7,126.1	8,255.4	6,965.2	29.3	29.8	-57.73	-1,280.7	230.3	303.3	251.2	52.09	5.823	
8,464.5	7,126.0	8,320.0	6,964.6	30.4	30.9	-57.66	-1,345.2	230.0	303.5	249.6	53.94	5.628	
8,500.0	7,125.9	8,355.4	6,964.3	31.0	31.5	-57.62	-1,380.7	229.9	303.7	248.7	54.96	5.526	
8,563.0	7,125.7	8,418.4	6,963.7	32.0	32.6	-57.56	-1,443.7	229.7	303.9	247.1	56.79	5.351	
8,600.0	7,125.6	8,455.4	6,963.4	32.6	33.2	-57.52	-1,480.7	229.5	304.0	246.2	57.87	5.254	
8,661.4	7,125.5	8,516.8	6,962.8	33.7	34.3	-57.45	-1,542.1	229.3	304.3	244.6	59.68	5.098	
8,700.0	7,125.4	8,555.4	6,962.5	34.4	35.0	-57.41	-1,580.7	229.2	304.4	243.6	60.83	5.004	
8,759.8	7,125.3	8,615.2	6,961.9	35.4	36.0	-57.34	-1,640.5	229.0	304.6	242.0	62.61	4.865	
8,800.0	7,125.2	8,655.4	6,961.5	36.1	36.8	-57.30	-1,680.7	228.8	304.8	241.0	63.81	4.776	
8,858.2	7,125.1	8,713.7	6,961.0	37.1	37.8	-57.24	-1,738.9	228.6	305.0	239.4	65.57	4.651	
8,900.0	7,125.0	8,755.4	6,960.6	37.8	38.6	-57.19	-1,780.7	228.4	305.1	238.3	66.83	4.566	
8,956.7	7,124.8	8,812.1	6,960.1	38.8	39.6	-57.13	-1,837.3	228.2	305.4	236.8	68.55	4.455	
9,000.0	7,124.7	8,855.4	6,959.7	39.6	40.4	-57.08	-1,880.7	228.1	305.5	235.6	69.86	4.373	
9,055.1	7,124.6	8,910.5	6,959.2	40.6	41.4	-57.02	-1,935.8	227.9	305.7	234.2	71.55	4.273	
9,100.0	7,124.5	8,955.4	6,958.8	41.4	42.2	-56.98	-1,980.7	227.7	305.9	233.0	72.92	4.195	
9,153.5	7,124.4	9,008.9	6,958.3	42.3	43.2	-56.92	-2,034.2	227.5	306.1	231.5	74.56	4.105	
9,200.0	7,124.3	9,055.4	6,957.9	43.2	44.1	-56.87	-2,080.6	227.3	306.3	230.3	75.99	4.030	
9,251.9	7,124.2	9,107.3	6,957.4	44.1	45.1	-56.81	-2,132.6	227.2	306.5	228.9	77.59	3.949	
9,300.0	7,124.1	9,155.4	6,957.0	45.0	46.0	-56.76	-2,180.6	227.0	306.6	227.6	79.08	3.878	
9,350.4	7,123.9	9,205.8	6,956.5	45.9	46.9	-56.71	-2,231.0	226.8	306.8	226.2	80.63	3.805	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
9,400.0	7,123.8	9,255.4	6,956.1	46.8	47.8	-56.66	-2,280.6	226.6	307.0	224.8	82.17	3.736	
9,448.8	7,123.7	9,304.2	6,955.6	47.7	48.8	-56.60	-2,329.4	226.4	307.2	223.5	83.69	3.671	
9,500.0	7,123.6	9,355.4	6,955.2	48.6	49.7	-56.55	-2,380.6	226.3	307.4	222.1	85.28	3.605	
9,547.2	7,123.5	9,402.6	6,954.7	49.4	50.6	-56.50	-2,427.8	226.1	307.6	220.8	86.74	3.546	
9,600.0	7,123.4	9,455.4	6,954.3	50.4	51.6	-56.44	-2,480.6	225.9	307.8	219.4	88.39	3.482	
9,645.6	7,123.3	9,501.0	6,953.8	51.2	52.5	-56.39	-2,526.3	225.7	307.9	218.1	89.81	3.429	
9,700.0	7,123.2	9,555.4	6,953.4	52.2	53.5	-56.34	-2,580.6	225.5	308.1	216.6	91.50	3.368	
9,744.1	7,123.1	9,599.5	6,953.0	53.1	54.4	-56.29	-2,624.7	225.4	308.3	215.4	92.88	3.320	
9,800.0	7,122.9	9,655.4	6,952.4	54.1	55.4	-56.23	-2,680.6	225.2	308.5	213.9	94.63	3.261	
9,842.5	7,122.8	9,697.9	6,952.1	54.9	56.2	-56.19	-2,723.1	225.0	308.7	212.7	95.95	3.217	
9,900.0	7,122.7	9,755.4	6,951.5	55.9	57.3	-56.13	-2,780.6	224.8	308.9	211.2	97.75	3.160	
9,940.9	7,122.6	9,796.3	6,951.2	56.7	58.1	-56.08	-2,821.5	224.6	309.1	210.0	99.03	3.121	
10,000.0	7,122.5	9,855.4	6,950.6	57.8	59.3	-56.02	-2,880.6	224.4	309.3	208.4	100.88	3.066	
10,039.3	7,122.4	9,894.7	6,950.3	58.5	60.0	-55.98	-2,919.9	224.3	309.4	207.3	102.11	3.031	
10,100.0	7,122.3	9,955.4	6,949.7	59.6	61.2	-55.92	-2,980.6	224.1	309.7	205.7	104.01	2.978	
10,137.8	7,122.2	9,993.1	6,949.4	60.3	61.9	-55.88	-3,018.3	223.9	309.8	204.6	105.19	2.945	
10,200.0	7,122.0	10,055.4	6,948.8	61.5	63.1	-55.81	-3,080.6	223.7	310.1	202.9	107.14	2.894	
10,236.2	7,121.9	10,091.6	6,948.5	62.2	63.8	-55.77	-3,116.8	223.6	310.2	201.9	108.27	2.865	
10,300.0	7,121.8	10,155.4	6,947.9	63.3	65.0	-55.71	-3,180.6	223.3	310.5	200.2	110.27	2.816	
10,334.6	7,121.7	10,190.0	6,947.6	64.0	65.7	-55.67	-3,215.2	223.2	310.6	199.2	111.35	2.789	
10,400.0	7,121.6	10,255.4	6,947.0	65.2	67.0	-55.60	-3,280.6	223.0	310.8	197.4	113.40	2.741	
10,433.0	7,121.5	10,288.4	6,946.7	65.8	67.6	-55.57	-3,313.6	222.9	311.0	196.5	114.43	2.718	
10,500.0	7,121.4	10,355.4	6,946.1	67.1	68.9	-55.50	-3,380.5	222.6	311.2	194.7	116.52	2.671	
10,531.5	7,121.3	10,386.8	6,945.8	67.7	69.5	-55.47	-3,412.0	222.5	311.4	193.8	117.51	2.650	
10,600.0	7,121.1	10,455.4	6,945.2	69.0	70.8	-55.39	-3,480.5	222.3	311.6	192.0	119.65	2.604	
10,629.9	7,121.1	10,485.3	6,944.9	69.5	71.4	-55.36	-3,510.4	222.1	311.7	191.2	120.59	2.585	
10,700.0	7,120.9	10,555.4	6,944.2	70.8	72.8	-55.29	-3,580.5	221.9	312.0	189.2	122.78	2.541	
10,728.3	7,120.8	10,583.7	6,944.0	71.4	73.3	-55.26	-3,608.9	221.8	312.1	188.5	123.66	2.524	
10,800.0	7,120.7	10,655.4	6,943.3	72.7	74.7	-55.19	-3,680.5	221.5	312.4	186.5	125.90	2.481	
10,826.7	7,120.6	10,682.1	6,943.1	73.2	75.3	-55.16	-3,707.3	221.4	312.5	185.8	126.73	2.466	
10,900.0	7,120.5	10,755.4	6,942.4	74.6	76.7	-55.08	-3,780.5	221.2	312.8	183.8	129.02	2.425	
10,925.2	7,120.4	10,780.5	6,942.2	75.1	77.2	-55.06	-3,805.7	221.1	312.9	183.1	129.80	2.411	
11,000.0	7,120.2	10,855.3	6,941.5	76.5	78.6	-54.98	-3,880.5	220.8	313.2	181.1	132.14	2.370	
11,023.6	7,120.2	10,878.9	6,941.3	76.9	79.1	-54.96	-3,904.1	220.7	313.3	180.4	132.87	2.358	
11,100.0	7,120.0	10,955.3	6,940.6	78.3	80.6	-54.88	-3,980.5	220.4	313.6	178.3	135.25	2.319	
11,122.0	7,120.0	10,977.4	6,940.4	78.8	81.0	-54.86	-4,002.5	220.4	313.7	177.8	135.94	2.308	
11,200.0	7,119.8	11,055.3	6,939.7	80.2	82.5	-54.78	-4,080.5	220.1	314.0	175.6	138.36	2.269	
11,220.4	7,119.7	11,075.8	6,939.5	80.6	82.9	-54.76	-4,100.9	220.0	314.1	175.1	139.00	2.260	
11,300.0	7,119.5	11,155.3	6,938.8	82.1	84.5	-54.67	-4,180.5	219.7	314.4	172.9	141.47	2.222	
11,318.9	7,119.5	11,174.2	6,938.6	82.5	84.9	-54.65	-4,199.4	219.6	314.5	172.4	142.05	2.214	
11,400.0	7,119.3	11,255.3	6,937.8	84.0	86.5	-54.57	-4,280.5	219.4	314.8	170.2	144.57	2.177	
11,417.3	7,119.3	11,272.6	6,937.7	84.3	86.8	-54.55	-4,297.8	219.3	314.9	169.8	145.11	2.170	
11,500.0	7,119.1	11,355.3	6,936.9	85.9	88.4	-54.47	-4,380.5	219.0	315.2	167.5	147.67	2.134	
11,515.7	7,119.1	11,371.1	6,936.8	86.2	88.7	-54.45	-4,396.2	218.9	315.3	167.1	148.16	2.128	
11,600.0	7,118.9	11,455.3	6,936.0	87.8	90.4	-54.37	-4,480.5	218.6	315.6	164.8	150.77	2.093	
11,614.1	7,118.8	11,469.5	6,935.9	88.0	90.7	-54.35	-4,494.6	218.6	315.7	164.5	151.20	2.088	
11,700.0	7,118.6	11,555.3	6,935.1	89.7	92.3	-54.27	-4,580.5	218.3	316.0	162.1	153.86	2.054	
11,712.6	7,118.6	11,567.9	6,935.0	89.9	92.6	-54.25	-4,593.0	218.2	316.1	161.8	154.25	2.049	
11,800.0	7,118.4	11,655.3	6,934.2	91.6	94.3	-54.17	-4,680.4	217.9	316.4	159.5	156.94	2.016	
11,811.0	7,118.4	11,666.3	6,934.1	91.8	94.5	-54.16	-4,691.4	217.9	316.5	159.2	157.28	2.012	
11,900.0	7,118.2	11,755.3	6,933.3	93.4	96.3	-54.07	-4,780.4	217.5	316.8	156.8	160.02	1.980	
11,909.4	7,118.2	11,764.7	6,933.2	93.6	96.5	-54.06	-4,789.9	217.5	316.9	156.5	160.32	1.976	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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
12,000.0	7,118.0	11,855.3	6,932.4	95.3	98.2	-53.97	-4,880.4	217.2	317.2	154.1	163.10	1.945	
12,007.8	7,118.0	11,863.2	6,932.3	95.5	98.4	-53.96	-4,888.3	217.2	317.3	153.9	163.34	1.942	
12,100.0	7,117.8	11,955.3	6,931.5	97.2	100.2	-53.87	-4,980.4	216.8	317.6	151.5	166.17	1.911	
12,106.3	7,117.7	11,961.6	6,931.4	97.4	100.3	-53.86	-4,986.7	216.8	317.7	151.3	166.37	1.909	
12,200.0	7,117.5	12,055.3	6,930.5	99.1	102.2	-53.77	-5,080.4	216.5	318.0	148.8	169.24	1.879	
12,204.7	7,117.5	12,060.0	6,930.5	99.2	102.3	-53.76	-5,085.1	216.4	318.1	148.7	169.39	1.878	
12,300.0	7,117.3	12,155.3	6,929.6	101.0	104.1	-53.67	-5,180.4	216.1	318.5	146.1	172.30	1.848	
12,303.1	7,117.3	12,158.4	6,929.6	101.1	104.2	-53.66	-5,183.5	216.1	318.5	146.1	172.40	1.847	
12,400.0	7,117.1	12,255.3	6,928.7	102.9	106.1	-53.57	-5,280.4	215.7	318.9	143.5	175.36	1.818	
12,401.5	7,117.1	12,256.9	6,928.7	103.0	106.1	-53.56	-5,281.9	215.7	318.9	143.5	175.41	1.818	
12,500.0	7,116.9	12,355.3	6,927.8	104.8	108.1	-53.47	-5,380.4	215.4	319.3	140.9	178.41	1.790	
12,598.4	7,116.6	12,453.7	6,926.9	106.7	110.0	-53.37	-5,478.8	215.0	319.7	138.3	181.41	1.762	
12,600.0	7,116.6	12,455.3	6,926.9	106.7	110.1	-53.37	-5,480.4	215.0	319.7	138.2	181.46	1.762	
12,696.8	7,116.4	12,552.1	6,926.0	108.6	112.0	-53.27	-5,577.2	214.7	320.1	135.7	184.41	1.736	
12,700.0	7,116.4	12,555.3	6,926.0	108.6	112.0	-53.27	-5,580.4	214.7	320.1	135.6	184.50	1.735	
12,795.2	7,116.2	12,650.5	6,925.1	110.4	113.9	-53.17	-5,675.6	214.3	320.5	133.1	187.39	1.710	
12,800.0	7,116.2	12,655.3	6,925.0	110.5	114.0	-53.17	-5,680.4	214.3	320.5	133.0	187.54	1.709	
12,893.7	7,116.0	12,749.0	6,924.2	112.3	115.8	-53.08	-5,774.0	214.0	320.9	130.5	190.38	1.686	
12,900.0	7,116.0	12,755.3	6,924.1	112.4	116.0	-53.07	-5,780.4	213.9	320.9	130.4	190.57	1.684	
12,992.1	7,115.7	12,847.4	6,923.3	114.2	117.8	-52.98	-5,872.4	213.6	321.3	128.0	193.36	1.662	
13,000.0	7,115.7	12,855.3	6,923.2	114.3	117.9	-52.97	-5,880.3	213.6	321.4	127.8	193.59	1.660	
13,090.5	7,115.5	12,945.8	6,922.4	116.1	119.7	-52.88	-5,970.9	213.3	321.7	125.4	196.33	1.639	
13,100.0	7,115.5	12,955.3	6,922.3	116.2	119.9	-52.88	-5,980.3	213.2	321.8	125.2	196.61	1.637	
13,188.9	7,115.3	13,044.2	6,921.5	117.9	121.7	-52.79	-6,069.3	212.9	322.2	122.9	199.30	1.616	
13,200.0	7,115.3	13,055.3	6,921.4	118.1	121.9	-52.78	-6,080.3	212.9	322.2	122.6	199.63	1.614	
13,287.4	7,115.1	13,142.7	6,920.6	119.8	123.6	-52.69	-6,167.7	212.5	322.6	120.3	202.26	1.595	
13,300.0	7,115.1	13,155.3	6,920.5	120.0	123.9	-52.68	-6,180.3	212.5	322.6	120.0	202.64	1.592	
13,385.8	7,114.9	13,241.1	6,919.7	121.7	125.6	-52.60	-6,266.1	212.2	323.0	117.8	205.21	1.574	
13,400.0	7,114.8	13,255.3	6,919.6	121.9	125.8	-52.58	-6,280.3	212.1	323.0	117.4	205.64	1.571	
13,484.2	7,114.6	13,339.5	6,918.8	123.6	127.5	-52.50	-6,364.5	211.8	323.4	115.2	208.16	1.554	
13,500.0	7,114.6	13,355.3	6,918.6	123.9	127.8	-52.49	-6,380.3	211.8	323.5	114.8	208.64	1.550	
13,582.6	7,114.4	13,437.9	6,917.9	125.4	129.5	-52.41	-6,463.0	211.5	323.8	112.7	211.11	1.534	
13,600.0	7,114.4	13,455.3	6,917.7	125.8	129.8	-52.39	-6,480.3	211.4	323.9	112.3	211.63	1.530	
13,681.1	7,114.2	13,536.3	6,917.0	127.3	131.4	-52.31	-6,561.4	211.1	324.2	110.2	214.05	1.515	
13,700.0	7,114.2	13,555.3	6,916.8	127.7	131.8	-52.29	-6,580.3	211.1	324.3	109.7	214.61	1.511	
13,779.5	7,114.0	13,634.8	6,916.1	129.2	133.4	-52.22	-6,659.8	210.8	324.7	107.7	216.98	1.496 Level 3	
13,800.0	7,113.9	13,655.3	6,915.9	129.6	133.8	-52.20	-6,680.3	210.7	324.7	107.2	217.59	1.492 Level 3	
13,877.9	7,113.8	13,733.2	6,915.2	131.1	135.3	-52.12	-6,758.2	210.4	325.1	105.2	219.91	1.478 Level 3	
13,900.0	7,113.7	13,755.3	6,915.0	131.5	135.7	-52.10	-6,780.3	210.3	325.2	104.6	220.57	1.474 Level 3	
13,976.3	7,113.5	13,831.6	6,914.3	132.9	137.2	-52.03	-6,856.6	210.1	325.5	102.7	222.84	1.461 Level 3	
14,000.0	7,113.5	13,855.3	6,914.1	133.4	137.7	-52.00	-6,880.3	210.0	325.6	102.1	223.54	1.457 Level 3	
14,074.8	7,113.3	13,930.0	6,913.4	134.8	139.2	-51.93	-6,955.0	209.7	325.9	100.2	225.75	1.444 Level 3	
14,100.0	7,113.3	13,955.3	6,913.1	135.3	139.7	-51.91	-6,980.3	209.6	326.0	99.5	226.50	1.439 Level 3	
14,173.2	7,113.1	14,028.5	6,912.5	136.7	141.1	-51.84	-7,053.5	209.4	326.4	97.7	228.65	1.427 Level 3	
14,200.0	7,113.0	14,055.3	6,912.2	137.2	141.6	-51.81	-7,080.3	209.3	326.5	97.0	229.42	1.423 Level 3	
14,219.1	7,113.0	14,074.4	6,912.0	137.6	142.0	-51.80	-7,099.4	209.2	326.6	96.6	229.97	1.420 Level 3, SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	-90.00	0.0	-30.7	30.7				
98.4	98.4	97.4	97.4	0.1	0.1	-90.00	0.0	-30.7	30.7	30.5	0.19	161.299	
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-30.7	30.7	30.5	0.19	158.546	
196.8	196.8	195.8	195.8	0.3	0.3	-90.00	0.0	-30.7	30.7	30.0	0.63	48.874	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.7	30.7	30.0	0.64	47.796	
295.3	295.3	294.3	294.3	0.5	0.5	-90.00	0.0	-30.7	30.7	29.6	1.07	28.664	
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-30.7	30.7	29.6	1.09	28.106	
393.7	393.7	392.7	392.7	0.8	0.8	-90.00	0.0	-30.7	30.7	29.2	1.51	20.279	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-30.7	30.7	29.1	1.54	19.906	
492.1	492.1	491.1	491.1	1.0	1.0	-90.00	0.0	-30.7	30.7	28.7	1.95	15.689	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-30.7	30.7	28.7	1.99	15.410	
590.5	590.5	589.5	589.5	1.2	1.2	-90.00	0.0	-30.7	30.7	28.3	2.40	12.794	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-30.7	30.7	28.2	2.44	12.571	
689.0	689.0	688.0	688.0	1.4	1.4	-90.00	0.0	-30.7	30.7	27.8	2.84	10.800	
700.0	700.0	699.0	699.0	1.4	1.4	-90.00	0.0	-30.7	30.7	27.8	2.89	10.615	
787.4	787.4	786.4	786.4	1.6	1.6	-90.00	0.0	-30.7	30.7	27.4	3.28	9.344	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-30.7	30.7	27.3	3.34	9.186	
885.8	885.8	884.8	884.8	1.9	1.9	-90.00	0.0	-30.7	30.7	26.9	3.72	8.234	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-30.7	30.7	26.9	3.79	8.096	
984.2	984.2	983.2	983.2	2.1	2.1	-90.00	0.0	-30.7	30.7	26.5	4.17	7.360	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-30.7	30.7	26.4	4.24	7.237	
1,082.7	1,082.7	1,081.7	1,081.7	2.3	2.3	-90.00	0.0	-30.7	30.7	26.1	4.61	6.654	
1,100.0	1,100.0	1,099.0	1,099.0	2.3	2.3	-90.00	0.0	-30.7	30.7	26.0	4.69	6.543	
1,181.1	1,181.1	1,180.1	1,180.1	2.5	2.5	-90.00	0.0	-30.7	30.7	25.6	5.05	6.071	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	-90.00	0.0	-30.7	30.7	25.5	5.14	5.971 CC, ES	
1,279.5	1,279.5	1,277.8	1,277.8	2.7	2.7	-88.88	0.6	-31.5	31.5	26.1	5.49	5.747	
1,300.0	1,300.0	1,298.1	1,298.1	2.8	2.8	-88.24	1.0	-32.0	32.1	26.5	5.58	5.747	
1,377.9	1,377.9	1,375.2	1,375.1	3.0	3.0	-82.24	3.1	-35.0	35.0	29.1	5.92	5.920	
1,400.0	1,400.0	1,397.0	1,396.9	3.0	3.0	-82.08	4.0	-36.2	36.2	30.1	6.02	6.012	
1,476.4	1,476.3	1,472.4	1,472.0	3.2	3.2	-82.42	7.6	-41.2	41.0	34.6	6.35	6.447	
1,500.0	1,499.8	1,495.7	1,495.1	3.2	3.2	-82.75	8.9	-43.0	42.7	36.3	6.46	6.618	
1,574.8	1,574.4	1,569.2	1,568.2	3.4	3.4	-84.27	13.9	-49.9	49.2	42.4	6.79	7.250	
1,600.0	1,599.5	1,593.9	1,592.7	3.5	3.5	-84.89	15.8	-52.6	51.8	44.8	6.91	7.495	
1,673.2	1,672.2	1,665.5	1,663.5	3.6	3.7	-86.83	22.1	-61.3	60.0	52.8	7.25	8.274	
1,700.0	1,698.7	1,691.6	1,689.2	3.7	3.7	-87.57	24.6	-64.8	63.4	56.0	7.38	8.588	
1,771.6	1,769.5	1,761.2	1,757.7	3.9	3.9	-89.50	32.1	-75.1	73.3	65.6	7.75	9.468	
1,800.0	1,797.5	1,788.7	1,784.6	4.0	4.0	-90.24	35.3	-79.6	77.7	69.8	7.89	9.841	
1,870.1	1,866.3	1,857.6	1,851.9	4.2	4.2	-92.26	43.6	-91.2	88.9	80.6	8.29	10.725	
1,900.1	1,895.8	1,887.2	1,880.9	4.3	4.3	-93.29	47.2	-96.1	93.8	85.3	8.46	11.084	
1,968.5	1,962.6	1,954.5	1,946.7	4.5	4.6	-95.64	55.4	-107.5	105.0	96.1	8.88	11.825	
2,000.0	1,993.4	1,985.5	1,977.1	4.6	4.7	-96.57	59.2	-112.7	110.2	101.2	9.08	12.147	
2,066.9	2,058.9	2,051.4	2,041.5	4.8	4.9	-98.27	67.2	-123.8	121.4	111.9	9.51	12.769	
2,100.0	2,091.3	2,084.0	2,073.4	4.9	5.1	-99.00	71.1	-129.3	127.0	117.3	9.73	13.057	
2,165.3	2,155.2	2,148.3	2,136.3	5.1	5.3	-100.26	79.0	-140.2	138.1	127.9	10.17	13.575	
2,200.0	2,189.1	2,182.4	2,169.7	5.3	5.4	-100.86	83.1	-145.9	143.9	133.5	10.41	13.832	
2,263.8	2,251.4	2,245.2	2,231.1	5.5	5.7	-101.83	90.7	-156.5	154.8	144.0	10.85	14.263	
2,300.0	2,286.9	2,280.9	2,266.0	5.6	5.8	-102.32	95.1	-162.5	161.0	149.9	11.11	14.493	
2,362.2	2,347.7	2,342.1	2,325.9	5.9	6.1	-103.09	102.5	-172.9	171.6	160.1	11.56	14.854	
2,400.0	2,384.7	2,379.3	2,362.3	6.0	6.2	-103.51	107.0	-179.1	178.1	166.3	11.83	15.059	
2,460.6	2,444.0	2,439.0	2,420.7	6.3	6.5	-104.12	114.3	-189.2	188.6	176.3	12.27	15.362	
2,500.0	2,482.5	2,477.8	2,458.6	6.4	6.6	-104.49	119.0	-195.7	195.3	182.8	12.56	15.547	
2,559.0	2,540.3	2,535.9	2,515.5	6.6	6.9	-104.99	126.1	-205.5	205.5	192.5	13.00	15.803	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
2,600.0	2,580.3	2,576.3	2,554.9	6.8	7.0	-105.31	131.0	-212.3	212.6	199.3	13.31	15.970	
2,617.6	2,597.5	2,593.6	2,571.9	6.9	7.1	-105.44	133.1	-215.3	215.6	202.2	13.44	16.038	
2,657.5	2,636.6	2,632.9	2,610.3	7.0	7.3	-105.78	137.9	-221.9	222.4	208.7	13.73	16.201	
2,700.0	2,678.4	2,674.8	2,651.3	7.2	7.4	-105.99	143.0	-228.9	229.5	215.5	14.03	16.356	
2,755.9	2,733.5	2,729.9	2,705.3	7.3	7.7	-106.02	149.7	-238.2	238.6	224.2	14.40	16.571	
2,800.0	2,777.0	2,773.5	2,747.8	7.4	7.9	-105.87	155.0	-245.6	245.6	230.9	14.69	16.722	
2,854.3	2,830.9	2,827.1	2,800.3	7.6	8.1	-105.50	161.5	-254.6	253.9	238.9	15.02	16.902	
2,900.0	2,876.2	2,872.2	2,844.4	7.7	8.3	-105.05	167.0	-262.2	260.7	245.4	15.30	17.038	
2,952.7	2,928.7	2,924.2	2,895.3	7.8	8.5	-104.36	173.3	-271.0	268.4	252.8	15.61	17.197	
3,000.0	2,975.8	2,970.8	2,940.9	7.9	8.7	-103.62	179.0	-278.9	275.1	259.3	15.88	17.331	
3,051.2	3,026.8	3,021.2	2,990.2	8.0	8.9	-102.69	185.1	-287.4	282.3	266.2	16.14	17.486	
3,100.0	3,075.6	3,069.3	3,037.2	8.1	9.1	-101.69	190.9	-295.5	289.1	272.7	16.40	17.631	
3,149.6	3,125.2	3,118.0	3,084.8	8.2	9.4	-100.56	196.8	-303.7	295.9	279.3	16.63	17.795	
3,200.0	3,175.6	3,167.4	3,133.1	8.3	9.6	-99.32	202.8	-312.0	302.8	286.0	16.86	17.965	
3,217.7	3,193.3	3,184.7	3,150.1	8.3	9.6	-103.14	205.0	-314.9	305.3	288.3	16.94	18.023	
3,248.0	3,223.6	3,214.3	3,179.1	8.4	9.8	-102.28	208.6	-319.9	309.5	292.4	17.07	18.136	
3,300.0	3,275.6	3,265.2	3,228.8	8.5	10.0	-100.84	214.7	-328.5	316.9	299.6	17.28	18.339	
3,346.4	3,322.0	3,310.6	3,273.2	8.6	10.2	-99.61	220.3	-336.1	323.7	306.2	17.48	18.522	
3,400.0	3,375.6	3,363.0	3,324.5	8.7	10.4	-98.25	226.6	-345.0	331.7	314.0	17.70	18.741	
3,444.9	3,420.4	3,406.9	3,367.4	8.7	10.6	-97.17	232.0	-352.4	338.5	320.6	17.88	18.929	
3,500.0	3,475.6	3,464.9	3,424.3	8.8	10.8	-95.83	238.8	-361.9	346.8	328.7	18.10	19.159	
3,543.3	3,518.9	3,511.9	3,470.4	8.9	11.0	-94.89	243.9	-368.9	352.9	334.6	18.27	19.313	
3,600.0	3,575.6	3,573.7	3,531.4	9.0	11.2	-93.82	249.9	-377.2	360.1	341.6	18.48	19.489	
3,641.7	3,617.3	3,619.5	3,576.6	9.1	11.3	-93.15	253.8	-382.7	364.9	346.2	18.63	19.585	
3,700.0	3,675.6	3,683.7	3,640.4	9.2	11.5	-92.34	258.6	-389.3	370.7	351.9	18.84	19.675	
3,740.1	3,715.7	3,728.2	3,684.6	9.3	11.6	-91.88	261.5	-393.3	374.2	355.2	18.99	19.705	
3,800.0	3,775.6	3,794.8	3,750.9	9.4	11.7	-91.33	265.0	-398.1	378.5	359.3	19.21	19.702	
3,838.6	3,814.1	3,837.8	3,793.8	9.5	11.8	-91.05	266.7	-400.6	380.7	361.3	19.35	19.672	
3,900.0	3,875.6	3,906.5	3,862.4	9.6	12.0	-90.73	268.8	-403.5	383.2	363.6	19.58	19.573	
3,937.0	3,912.6	3,948.0	3,903.8	9.7	12.0	-90.61	269.6	-404.5	384.1	364.4	19.71	19.489	
4,000.0	3,975.6	4,018.6	3,974.5	9.8	12.1	-90.54	270.1	-405.3	384.8	364.8	19.94	19.293	
4,035.4	4,011.0	4,054.1	4,010.0	9.9	12.2	-90.54	270.1	-405.3	384.8	364.7	20.07	19.170	
4,100.0	4,075.6	4,118.7	4,074.6	10.0	12.3	-90.54	270.1	-405.3	384.8	364.5	20.31	18.948	
4,133.8	4,109.4	4,152.5	4,108.4	10.0	12.3	-90.54	270.1	-405.3	384.8	364.4	20.44	18.830	
4,200.0	4,175.6	4,218.7	4,174.6	10.2	12.4	-90.54	270.1	-405.3	384.8	364.1	20.68	18.603	
4,232.3	4,207.8	4,251.0	4,206.8	10.2	12.5	-90.54	270.1	-405.3	384.8	364.0	20.81	18.493	
4,300.0	4,275.6	4,318.7	4,274.6	10.4	12.6	-90.54	270.1	-405.3	384.8	363.7	21.06	18.268	
4,330.7	4,306.3	4,349.4	4,305.3	10.4	12.6	-90.54	270.1	-405.3	384.8	363.6	21.18	18.167	
4,400.0	4,375.6	4,418.7	4,374.6	10.6	12.8	-90.54	270.1	-405.3	384.8	363.3	21.45	17.943	
4,429.1	4,404.7	4,447.8	4,403.7	10.6	12.8	-90.54	270.1	-405.3	384.8	363.2	21.56	17.850	
4,500.0	4,475.6	4,518.7	4,474.6	10.8	12.9	-90.54	270.1	-405.3	384.8	363.0	21.83	17.627	
4,527.5	4,503.1	4,546.2	4,502.1	10.8	13.0	-90.54	270.1	-405.3	384.8	362.9	21.94	17.541	
4,600.0	4,575.6	4,618.7	4,574.6	11.0	13.1	-90.54	270.1	-405.3	384.8	362.6	22.22	17.320	
4,626.0	4,601.5	4,644.7	4,600.5	11.0	13.1	-90.54	270.1	-405.3	384.8	362.5	22.32	17.241	
4,700.0	4,675.6	4,718.7	4,674.6	11.2	13.3	-90.54	270.1	-405.3	384.8	362.2	22.61	17.022	
4,724.4	4,700.0	4,743.1	4,699.0	11.2	13.3	-90.54	270.1	-405.3	384.8	362.1	22.70	16.950	
4,800.0	4,775.6	4,818.7	4,774.6	11.4	13.4	-90.54	270.1	-405.3	384.8	361.8	23.00	16.732	
4,822.8	4,798.4	4,841.5	4,797.4	11.4	13.5	-90.54	270.1	-405.3	384.8	361.7	23.09	16.667	
4,900.0	4,875.6	4,918.7	4,874.6	11.6	13.6	-90.54	270.1	-405.3	384.8	361.4	23.39	16.450	
4,921.2	4,896.8	4,939.9	4,895.8	11.6	13.6	-90.54	270.1	-405.3	384.8	361.3	23.47	16.392	
5,000.0	4,975.6	5,018.7	4,974.6	11.8	13.8	-90.54	270.1	-405.3	384.8	361.0	23.79	16.177	
5,019.7	4,995.2	5,038.4	4,994.2	11.8	13.8	-90.54	270.1	-405.3	384.8	360.9	23.86	16.124	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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
5,100.0	5,075.6	5,118.7	5,074.6	12.0	13.9	-90.54	270.1	-405.3	384.8	360.6	24.18	15.911	
5,118.1	5,093.7	5,136.8	5,092.7	12.0	14.0	-90.54	270.1	-405.3	384.8	360.5	24.26	15.864	
5,200.0	5,175.6	5,218.7	5,174.6	12.2	14.1	-90.54	270.1	-405.3	384.8	360.2	24.58	15.653	
5,216.5	5,192.1	5,235.2	5,191.1	12.2	14.1	-90.54	270.1	-405.3	384.8	360.1	24.65	15.611	
5,300.0	5,275.6	5,318.7	5,274.6	12.4	14.3	-90.54	270.1	-405.3	384.8	359.8	24.98	15.402	
5,314.9	5,290.5	5,333.6	5,289.5	12.4	14.3	-90.54	270.1	-405.3	384.8	359.7	25.04	15.365	
5,400.0	5,375.6	5,418.7	5,374.6	12.6	14.5	-90.54	270.1	-405.3	384.8	359.4	25.39	15.157	
5,413.4	5,388.9	5,432.1	5,387.9	12.6	14.5	-90.54	270.1	-405.3	384.8	359.3	25.44	15.125	
5,500.0	5,475.6	5,518.7	5,474.6	12.8	14.6	-90.54	270.1	-405.3	384.8	359.0	25.79	14.920	
5,511.8	5,487.4	5,530.5	5,486.4	12.8	14.7	-90.54	270.1	-405.3	384.8	358.9	25.84	14.892	
5,600.0	5,575.6	5,618.7	5,574.6	13.0	14.8	-90.54	270.1	-405.3	384.8	358.6	26.20	14.689	
5,610.2	5,585.8	5,628.9	5,584.8	13.0	14.8	-90.54	270.1	-405.3	384.8	358.6	26.24	14.666	
5,700.0	5,675.6	5,718.7	5,674.6	13.2	15.0	-90.54	270.1	-405.3	384.8	358.2	26.60	14.464	
5,708.6	5,684.2	5,727.3	5,683.2	13.2	15.0	-90.54	270.1	-405.3	384.8	358.1	26.64	14.445	
5,800.0	5,775.6	5,818.7	5,774.6	13.4	15.2	-90.54	270.1	-405.3	384.8	357.8	27.01	14.246	
5,807.1	5,782.6	5,825.8	5,781.6	13.4	15.2	-90.54	270.1	-405.3	384.8	357.7	27.04	14.231	
5,900.0	5,875.6	5,918.7	5,874.6	13.6	15.4	-90.54	270.1	-405.3	384.8	357.4	27.42	14.033	
5,905.5	5,881.1	5,924.2	5,880.1	13.6	15.4	-90.54	270.1	-405.3	384.8	357.3	27.44	14.021	
6,000.0	5,975.6	6,018.7	5,974.6	13.8	15.6	-90.54	270.1	-405.3	384.8	357.0	27.83	13.826	
6,003.9	5,979.5	6,022.6	5,978.5	13.8	15.6	-90.54	270.1	-405.3	384.8	356.9	27.85	13.818	
6,100.0	6,075.6	6,118.7	6,074.6	14.0	15.7	-90.54	270.1	-405.3	384.8	356.5	28.24	13.624	
6,102.3	6,077.9	6,121.0	6,076.9	14.0	15.8	-90.54	270.1	-405.3	384.8	356.5	28.25	13.620	
6,200.0	6,175.6	6,218.7	6,174.6	14.2	15.9	-90.54	270.1	-405.3	384.8	356.1	28.66	13.428	
6,200.8	6,176.3	6,219.5	6,175.3	14.2	15.9	-90.54	270.1	-405.3	384.8	356.1	28.66	13.426	
6,259.0	6,234.6	6,277.7	6,233.6	14.4	16.0	-90.54	270.1	-405.3	384.8	355.9	28.90	13.314	
6,299.2	6,274.8	6,317.7	6,273.6	14.4	16.1	-90.57	269.9	-405.3	384.8	355.7	29.06	13.241	
6,300.0	6,275.6	6,318.5	6,274.4	14.4	16.1	-90.57	269.8	-405.3	384.8	355.7	29.06	13.240	
6,397.6	6,373.2	6,414.5	6,369.9	14.7	16.2	-91.91	260.9	-405.3	385.0	355.6	29.44	13.080	
6,400.0	6,375.6	6,416.8	6,372.1	14.7	16.2	-91.96	260.5	-405.3	385.0	355.6	29.44	13.077	
6,436.2	6,411.8	6,451.5	6,406.3	14.7	16.3	-92.93	254.0	-405.3	385.4	355.8	29.58	13.028	
6,450.0	6,425.6	6,464.5	6,419.0	14.8	16.3	86.44	251.2	-405.3	385.5	355.9	29.62	13.017	
6,496.0	6,471.5	6,507.8	6,460.8	14.8	16.3	85.05	240.0	-405.4	386.3	356.5	29.75	12.985	
6,500.0	6,475.5	6,511.5	6,464.3	14.8	16.3	84.93	238.9	-405.4	386.3	356.6	29.76	12.983	
6,550.0	6,525.1	6,557.9	6,508.2	14.9	16.3	83.46	224.0	-405.4	387.4	357.5	29.86	12.975	
6,594.5	6,568.7	6,600.0	6,547.1	14.9	16.3	82.15	207.9	-405.5	388.5	358.6	29.92	12.987	
6,600.0	6,574.1	6,603.7	6,550.5	14.9	16.3	82.03	206.4	-405.5	388.7	358.7	29.92	12.989	
6,650.0	6,622.4	6,650.0	6,592.0	14.9	16.3	80.62	186.0	-405.6	390.1	360.2	29.95	13.025	
6,692.9	6,663.0	6,687.5	6,624.6	14.9	16.3	79.51	167.5	-405.6	391.5	361.6	29.95	13.071	
6,700.0	6,669.6	6,693.8	6,630.0	14.9	16.3	79.32	164.2	-405.7	391.8	361.8	29.95	13.079	
6,750.0	6,715.6	6,738.2	6,667.1	14.9	16.3	78.06	139.9	-405.7	393.5	363.6	29.93	13.149	
6,791.3	6,752.5	6,774.5	6,696.3	14.9	16.3	77.06	118.2	-405.8	395.1	365.2	29.90	13.215	
6,800.0	6,760.1	6,782.1	6,702.3	14.9	16.3	76.85	113.5	-405.8	395.4	365.5	29.89	13.229	
6,850.0	6,802.9	6,825.7	6,735.4	14.9	16.3	75.72	85.3	-405.9	397.3	367.5	29.84	13.317	
6,889.7	6,835.6	6,860.0	6,760.4	14.9	16.2	74.87	61.7	-406.0	398.9	369.1	29.79	13.388	
6,900.0	6,843.8	6,868.9	6,766.6	14.9	16.2	74.66	55.4	-406.1	399.3	369.5	29.78	13.406	
6,950.0	6,882.6	6,911.8	6,795.7	14.9	16.2	73.66	23.9	-406.2	401.2	371.5	29.74	13.491	
6,988.2	6,910.7	6,944.3	6,816.5	15.0	16.2	72.96	-1.1	-406.3	402.7	373.0	29.73	13.548	
7,000.0	6,919.1	6,954.3	6,822.7	15.0	16.2	72.75	-9.0	-406.3	403.2	373.4	29.72	13.565	
7,050.0	6,953.1	7,000.0	6,849.4	15.0	16.3	71.86	-46.1	-406.4	405.0	375.3	29.74	13.620	
7,086.6	6,976.4	7,027.5	6,864.3	15.1	16.3	71.35	-69.2	-406.5	406.3	376.5	29.78	13.643	
7,100.0	6,984.5	7,038.8	6,870.1	15.1	16.3	71.15	-78.8	-406.5	406.8	377.0	29.81	13.648	
7,150.0	7,013.1	7,080.6	6,890.6	15.3	16.3	70.47	-115.4	-406.7	408.4	378.5	29.93	13.646	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
7,185.0	7,031.4	7,109.9	6,903.5	15.4	16.4	70.04	-141.6	-406.8	409.5	379.4	30.06	13.623	
7,200.0	7,038.8	7,122.3	6,908.7	15.4	16.4	69.87	-152.9	-406.8	409.9	379.8	30.13	13.608	
7,250.0	7,061.4	7,163.9	6,924.6	15.6	16.5	69.36	-191.2	-407.0	411.3	380.9	30.40	13.527	
7,283.4	7,074.8	7,191.6	6,934.0	15.8	16.6	69.06	-217.3	-407.1	412.1	381.4	30.65	13.447	
7,300.0	7,080.9	7,205.3	6,938.2	15.9	16.7	68.92	-230.3	-407.1	412.4	381.7	30.77	13.403	
7,350.0	7,097.1	7,250.0	6,950.4	16.2	17.0	68.55	-273.4	-407.3	413.4	382.2	31.26	13.226	
7,381.9	7,105.7	7,272.8	6,955.5	16.4	17.1	68.39	-295.6	-407.3	413.9	382.3	31.60	13.098	
7,400.0	7,109.9	7,287.8	6,958.5	16.6	17.2	68.30	-310.3	-407.4	414.1	382.3	31.81	13.018	
7,450.0	7,119.4	7,328.9	6,965.1	17.0	17.6	68.11	-350.8	-407.5	414.7	382.2	32.48	12.765	
7,480.3	7,123.4	7,350.0	6,967.6	17.2	17.7	68.04	-371.8	-407.6	414.9	382.0	32.91	12.608	
7,500.0	7,125.4	7,370.0	6,969.4	17.4	17.9	68.01	-391.7	-407.7	415.0	381.7	33.25	12.480	
7,550.0	7,127.9	7,411.1	6,971.4	17.9	18.3	67.99	-432.7	-407.8	415.0	380.9	34.11	12.167	
7,562.9	7,128.0	7,421.6	6,971.5	18.0	18.4	67.99	-443.3	-407.9	415.0	380.6	34.34	12.083	
7,567.1	7,128.0	7,425.1	6,971.5	18.0	18.5	68.00	-446.8	-407.9	415.0	380.6	34.42	12.057	
7,578.7	7,128.0	7,436.2	6,971.5	18.2	18.6	67.99	-457.9	-407.9	415.0	380.4	34.64	11.980	
7,600.0	7,127.9	7,457.5	6,971.4	18.4	18.8	67.99	-479.2	-408.0	415.0	379.9	35.06	11.837	
7,677.1	7,127.7	7,534.6	6,971.0	19.2	19.7	67.97	-556.3	-408.3	415.1	378.4	36.68	11.315	
7,700.0	7,127.7	7,557.5	6,970.9	19.5	19.9	67.96	-579.2	-408.4	415.1	377.9	37.18	11.166	
7,775.6	7,127.5	7,633.1	6,970.6	20.3	20.8	67.94	-654.7	-408.7	415.1	376.4	38.80	10.701	
7,800.0	7,127.5	7,657.5	6,970.5	20.5	21.1	67.93	-679.2	-408.8	415.2	375.8	39.33	10.555	
7,874.0	7,127.3	7,731.5	6,970.2	21.4	22.1	67.91	-753.2	-409.0	415.2	374.2	41.06	10.113	
7,900.0	7,127.2	7,757.5	6,970.0	21.7	22.5	67.91	-779.2	-409.1	415.2	373.6	41.68	9.964	
7,972.4	7,127.1	7,829.9	6,969.7	22.7	23.5	67.89	-851.6	-409.4	415.3	371.7	43.58	9.530	
8,000.0	7,127.0	7,857.5	6,969.6	23.1	23.9	67.88	-879.1	-409.5	415.3	371.0	44.31	9.372	
8,070.8	7,126.8	7,928.3	6,969.3	24.2	24.9	67.86	-950.0	-409.7	415.4	369.1	46.26	8.978	
8,100.0	7,126.8	7,957.5	6,969.2	24.6	25.3	67.85	-979.1	-409.9	415.4	368.3	47.08	8.824	
8,169.3	7,126.6	8,026.8	6,968.9	25.6	26.4	67.83	-1,048.4	-410.1	415.5	366.4	49.06	8.469	
8,200.0	7,126.6	8,057.5	6,968.7	26.1	26.9	67.83	-1,079.1	-410.2	415.5	365.5	49.95	8.319	
8,267.7	7,126.4	8,125.2	6,968.4	27.2	27.9	67.81	-1,146.8	-410.5	415.5	363.6	51.94	8.000	
8,300.0	7,126.3	8,157.5	6,968.3	27.7	28.4	67.80	-1,179.1	-410.6	415.6	362.7	52.90	7.855	
8,366.1	7,126.2	8,223.6	6,968.0	28.8	29.5	67.78	-1,245.3	-410.8	415.6	360.7	54.90	7.570	
8,400.0	7,126.1	8,257.5	6,967.9	29.3	30.0	67.77	-1,279.1	-411.0	415.6	359.7	55.93	7.431	
8,464.5	7,126.0	8,322.0	6,967.6	30.4	31.1	67.75	-1,343.7	-411.2	415.7	357.8	57.92	7.177	
8,500.0	7,125.9	8,357.5	6,967.4	31.0	31.7	67.74	-1,379.1	-411.3	415.7	356.7	59.02	7.043	
8,563.0	7,125.7	8,420.5	6,967.1	32.0	32.7	67.73	-1,442.1	-411.5	415.8	354.8	61.00	6.816	
8,600.0	7,125.6	8,457.5	6,967.0	32.6	33.4	67.72	-1,479.1	-411.7	415.8	353.6	62.17	6.689	
8,661.4	7,125.5	8,518.9	6,966.7	33.7	34.4	67.70	-1,540.5	-411.9	415.9	351.7	64.12	6.485	
8,700.0	7,125.4	8,557.5	6,966.5	34.4	35.1	67.69	-1,579.1	-412.1	415.9	350.5	65.36	6.363	
8,759.8	7,125.3	8,617.3	6,966.3	35.4	36.1	67.67	-1,639.0	-412.3	415.9	348.7	67.28	6.182	
8,800.0	7,125.2	8,657.5	6,966.1	36.1	36.8	67.66	-1,679.1	-412.4	416.0	347.4	68.58	6.065	
8,858.2	7,125.1	8,715.7	6,965.9	37.1	37.8	67.65	-1,737.4	-412.6	416.0	345.5	70.48	5.903	
8,900.0	7,125.0	8,757.5	6,965.7	37.8	38.5	67.64	-1,779.1	-412.8	416.1	344.2	71.84	5.791	
8,956.7	7,124.8	8,814.2	6,965.4	38.8	39.5	67.62	-1,835.8	-413.0	416.1	342.4	73.70	5.646	
9,000.0	7,124.7	8,857.5	6,965.2	39.6	40.3	67.61	-1,879.1	-413.2	416.1	341.0	75.13	5.539	
9,055.1	7,124.6	8,912.6	6,965.0	40.6	41.3	67.59	-1,934.2	-413.4	416.2	339.2	76.95	5.408	
9,100.0	7,124.5	8,957.5	6,964.8	41.4	42.0	67.58	-1,979.1	-413.5	416.2	337.8	78.44	5.306	
9,153.5	7,124.4	9,011.0	6,964.6	42.3	43.0	67.57	-2,032.6	-413.7	416.3	336.0	80.23	5.189	
9,200.0	7,124.3	9,057.5	6,964.3	43.2	43.8	67.56	-2,079.1	-413.9	416.3	334.5	81.78	5.091	
9,251.9	7,124.2	9,109.4	6,964.1	44.1	44.8	67.54	-2,131.1	-414.1	416.3	332.8	83.52	4.985	
9,300.0	7,124.1	9,157.5	6,963.9	45.0	45.6	67.53	-2,179.1	-414.3	416.4	331.3	85.13	4.891	
9,350.4	7,123.9	9,207.9	6,963.7	45.9	46.5	67.51	-2,229.5	-414.4	416.4	329.6	86.83	4.796	
9,400.0	7,123.8	9,257.5	6,963.5	46.8	47.4	67.50	-2,279.1	-414.6	416.5	328.0	88.50	4.706	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
9,448.8	7,123.7	9,306.3	6,963.3	47.7	48.3	67.49	-2,327.9	-414.8	416.5	326.4	90.15	4.620	
9,500.0	7,123.6	9,357.5	6,963.0	48.6	49.2	67.47	-2,379.1	-415.0	416.6	324.7	91.89	4.533	
9,547.2	7,123.5	9,404.7	6,962.8	49.4	50.1	67.46	-2,426.3	-415.2	416.6	323.1	93.49	4.456	
9,600.0	7,123.4	9,457.5	6,962.6	50.4	51.1	67.45	-2,479.1	-415.4	416.6	321.3	95.29	4.373	
9,645.6	7,123.3	9,503.1	6,962.4	51.2	51.9	67.43	-2,524.8	-415.5	416.7	319.8	96.84	4.303	
9,700.0	7,123.2	9,557.5	6,962.1	52.2	52.9	67.42	-2,579.1	-415.7	416.7	318.0	98.69	4.222	
9,744.1	7,123.1	9,601.6	6,962.0	53.1	53.7	67.41	-2,623.2	-415.9	416.8	316.6	100.20	4.159	
9,800.0	7,122.9	9,657.5	6,961.7	54.1	54.7	67.39	-2,679.1	-416.1	416.8	314.7	102.11	4.082	
9,842.5	7,122.8	9,700.0	6,961.5	54.9	55.5	67.38	-2,721.6	-416.2	416.8	313.3	103.57	4.025	
9,900.0	7,122.7	9,757.5	6,961.3	55.9	56.6	67.37	-2,779.1	-416.5	416.9	311.3	105.54	3.950	
9,940.9	7,122.6	9,798.4	6,961.1	56.7	57.3	67.35	-2,820.0	-416.6	416.9	310.0	106.95	3.898	
10,000.0	7,122.5	9,857.5	6,960.8	57.8	58.4	67.34	-2,879.1	-416.8	417.0	308.0	108.98	3.826	
10,039.3	7,122.4	9,896.8	6,960.6	58.5	59.1	67.33	-2,918.5	-417.0	417.0	306.7	110.33	3.780	
10,100.0	7,122.3	9,957.5	6,960.4	59.6	60.2	67.31	-2,979.1	-417.2	417.1	304.6	112.42	3.710	
10,137.8	7,122.2	9,995.2	6,960.2	60.3	60.9	67.30	-3,016.9	-417.3	417.1	303.4	113.72	3.668	
10,200.0	7,122.0	10,057.5	6,959.9	61.5	62.1	67.28	-3,079.1	-417.6	417.1	301.3	115.87	3.600	
10,236.2	7,121.9	10,093.7	6,959.8	62.2	62.8	67.27	-3,115.3	-417.7	417.2	300.0	117.12	3.562	
10,300.0	7,121.8	10,157.5	6,959.5	63.3	64.0	67.26	-3,179.1	-417.9	417.2	297.9	119.33	3.496	
10,334.6	7,121.7	10,192.1	6,959.3	64.0	64.6	67.25	-3,213.7	-418.0	417.3	296.7	120.53	3.462	
10,400.0	7,121.6	10,257.5	6,959.1	65.2	65.8	67.23	-3,279.1	-418.3	417.3	294.5	122.79	3.399	
10,433.0	7,121.5	10,290.5	6,958.9	65.8	66.4	67.22	-3,312.1	-418.4	417.3	293.4	123.93	3.367	
10,500.0	7,121.4	10,357.5	6,958.6	67.1	67.7	67.20	-3,379.1	-418.7	417.4	291.1	126.25	3.306	
10,531.5	7,121.3	10,388.9	6,958.5	67.7	68.3	67.19	-3,410.6	-418.8	417.4	290.1	127.35	3.278	
10,600.0	7,121.1	10,457.5	6,958.2	69.0	69.5	67.17	-3,479.1	-419.0	417.5	287.8	129.72	3.218	
10,629.9	7,121.1	10,487.4	6,958.0	69.5	70.1	67.17	-3,509.0	-419.1	417.5	286.7	130.76	3.193	
10,700.0	7,120.9	10,557.5	6,957.7	70.8	71.4	67.15	-3,579.1	-419.4	417.6	284.4	133.20	3.135	
10,728.3	7,120.8	10,585.8	6,957.6	71.4	71.9	67.14	-3,607.4	-419.5	417.6	283.4	134.18	3.112	
10,800.0	7,120.7	10,657.5	6,957.3	72.7	73.3	67.12	-3,679.1	-419.8	417.7	281.0	136.67	3.056	
10,826.7	7,120.6	10,684.2	6,957.2	73.2	73.8	67.11	-3,705.8	-419.9	417.7	280.1	137.60	3.035	
10,900.0	7,120.5	10,757.5	6,956.8	74.6	75.2	67.09	-3,779.1	-420.1	417.7	277.6	140.15	2.981	
10,925.2	7,120.4	10,782.6	6,956.7	75.1	75.6	67.08	-3,804.3	-420.2	417.8	276.7	141.03	2.962	
11,000.0	7,120.2	10,857.5	6,956.4	76.5	77.0	67.06	-3,879.1	-420.5	417.8	274.2	143.64	2.909	
11,023.6	7,120.2	10,881.1	6,956.3	76.9	77.5	67.06	-3,902.7	-420.6	417.9	273.4	144.46	2.893	
11,100.0	7,120.0	10,957.5	6,956.0	78.3	78.9	67.04	-3,979.1	-420.9	417.9	270.8	147.12	2.841	
11,122.0	7,120.0	10,979.5	6,955.9	78.8	79.3	67.03	-4,001.1	-420.9	417.9	270.0	147.89	2.826	
11,200.0	7,119.8	11,057.5	6,955.5	80.2	80.8	67.01	-4,079.1	-421.2	418.0	267.4	150.61	2.775	
11,220.4	7,119.7	11,077.9	6,955.4	80.6	81.2	67.00	-4,099.5	-421.3	418.0	266.7	151.32	2.762	
11,300.0	7,119.5	11,157.5	6,955.1	82.1	82.7	66.98	-4,179.1	-421.6	418.1	264.0	154.10	2.713	
11,318.9	7,119.5	11,176.3	6,955.0	82.5	83.0	66.98	-4,197.9	-421.7	418.1	263.4	154.76	2.702	
11,400.0	7,119.3	11,257.5	6,954.6	84.0	84.6	66.95	-4,279.1	-422.0	418.2	260.6	157.59	2.654	
11,417.3	7,119.3	11,274.8	6,954.5	84.3	84.9	66.95	-4,296.4	-422.0	418.2	260.0	158.19	2.644	
11,500.0	7,119.1	11,357.5	6,954.2	85.9	86.4	66.93	-4,379.1	-422.3	418.3	257.2	161.08	2.597	
11,515.7	7,119.1	11,373.2	6,954.1	86.2	86.7	66.92	-4,394.8	-422.4	418.3	256.7	161.63	2.588	
11,600.0	7,118.9	11,457.5	6,953.7	87.8	88.3	66.90	-4,479.1	-422.7	418.4	253.8	164.57	2.542	
11,614.1	7,118.8	11,471.6	6,953.7	88.0	88.6	66.89	-4,493.2	-422.7	418.4	253.3	165.07	2.535	
11,700.0	7,118.6	11,557.5	6,953.3	89.7	90.2	66.87	-4,579.1	-423.1	418.4	250.4	168.07	2.490	
11,712.6	7,118.6	11,570.0	6,953.2	89.9	90.5	66.87	-4,591.6	-423.1	418.5	250.0	168.51	2.483	
11,800.0	7,118.4	11,657.5	6,952.8	91.6	92.1	66.84	-4,679.1	-423.4	418.5	247.0	171.56	2.440	
11,811.0	7,118.4	11,668.5	6,952.8	91.8	92.3	66.84	-4,690.1	-423.5	418.5	246.6	171.95	2.434	
11,900.0	7,118.2	11,757.5	6,952.4	93.4	94.0	66.82	-4,779.1	-423.8	418.6	243.6	175.06	2.391	
11,909.4	7,118.2	11,766.9	6,952.3	93.6	94.2	66.81	-4,788.5	-423.8	418.6	243.2	175.39	2.387	
12,000.0	7,118.0	11,857.5	6,951.9	95.3	95.9	66.79	-4,879.1	-424.2	418.7	240.2	178.56	2.345	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
12,007.8	7,118.0	11,865.3	6,951.9	95.5	96.0	66.79	-4,886.9	-424.2	418.7	239.9	178.83	2.341	
12,100.0	7,117.8	11,957.5	6,951.5	97.2	97.8	66.76	-4,979.1	-424.5	418.8	236.8	182.06	2.300	
12,106.3	7,117.7	11,963.7	6,951.5	97.4	97.9	66.76	-4,985.3	-424.6	418.8	236.5	182.28	2.298	
12,200.0	7,117.5	12,057.5	6,951.1	99.1	99.7	66.73	-5,079.1	-424.9	418.9	233.3	185.55	2.258	
12,204.7	7,117.5	12,062.2	6,951.0	99.2	99.8	66.73	-5,083.8	-424.9	418.9	233.2	185.72	2.256	
12,300.0	7,117.3	12,157.5	6,950.6	101.0	101.6	66.70	-5,179.1	-425.3	419.0	229.9	189.05	2.216	
12,303.1	7,117.3	12,160.6	6,950.6	101.1	101.6	66.70	-5,182.2	-425.3	419.0	229.8	189.16	2.215	
12,400.0	7,117.1	12,257.5	6,950.2	102.9	103.5	66.68	-5,279.0	-425.6	419.1	226.5	192.55	2.176	
12,401.5	7,117.1	12,259.0	6,950.2	103.0	103.5	66.68	-5,280.6	-425.6	419.1	226.5	192.61	2.176	
12,500.0	7,116.9	12,357.5	6,949.7	104.8	105.4	66.65	-5,379.0	-426.0	419.2	223.1	196.05	2.138	
12,598.4	7,116.6	12,455.9	6,949.3	106.7	107.2	66.62	-5,477.4	-426.4	419.3	219.8	199.49	2.102	
12,600.0	7,116.6	12,457.5	6,949.3	106.7	107.3	66.62	-5,479.0	-426.4	419.3	219.7	199.55	2.101	
12,696.8	7,116.4	12,554.3	6,948.8	108.6	109.1	66.59	-5,575.9	-426.7	419.3	216.4	202.94	2.066	
12,700.0	7,116.4	12,557.5	6,948.8	108.6	109.2	66.59	-5,579.0	-426.7	419.4	216.3	203.05	2.065	
12,795.2	7,116.2	12,652.7	6,948.4	110.4	111.0	66.57	-5,674.3	-427.1	419.4	213.1	206.38	2.032	
12,800.0	7,116.2	12,657.5	6,948.4	110.5	111.1	66.57	-5,679.0	-427.1	419.4	212.9	206.55	2.031	
12,893.7	7,116.0	12,751.1	6,948.0	112.3	112.8	66.54	-5,772.7	-427.4	419.5	209.7	209.83	1.999	
12,900.0	7,116.0	12,757.5	6,947.9	112.4	113.0	66.54	-5,779.0	-427.5	419.5	209.5	210.05	1.997	
12,992.1	7,115.7	12,849.6	6,947.5	114.2	114.7	66.51	-5,871.1	-427.8	419.6	206.3	213.27	1.968	
13,000.0	7,115.7	12,857.5	6,947.5	114.3	114.9	66.51	-5,879.0	-427.8	419.6	206.1	213.55	1.965	
13,090.5	7,115.5	12,948.0	6,947.1	116.1	116.6	66.49	-5,969.6	-428.2	419.7	203.0	216.72	1.937	
13,100.0	7,115.5	12,957.5	6,947.0	116.2	116.8	66.48	-5,979.0	-428.2	419.7	202.7	217.05	1.934	
13,188.9	7,115.3	13,046.4	6,946.6	117.9	118.4	66.46	-6,068.0	-428.5	419.8	199.6	220.16	1.907	
13,200.0	7,115.3	13,057.5	6,946.6	118.1	118.7	66.45	-6,079.0	-428.6	419.8	199.3	220.55	1.904	
13,287.4	7,115.1	13,144.8	6,946.2	119.8	120.3	66.43	-6,166.4	-428.9	419.9	196.3	223.60	1.878	
13,300.0	7,115.1	13,157.5	6,946.1	120.0	120.6	66.43	-6,179.0	-428.9	419.9	195.9	224.04	1.874	
13,385.8	7,114.9	13,243.3	6,945.7	121.7	122.2	66.40	-6,264.8	-429.2	420.0	192.9	227.05	1.850	
13,400.0	7,114.8	13,257.5	6,945.7	121.9	122.5	66.40	-6,279.0	-429.3	420.0	192.5	227.54	1.846	
13,484.2	7,114.6	13,341.7	6,945.3	123.6	124.1	66.38	-6,363.2	-429.6	420.1	189.6	230.49	1.823	
13,500.0	7,114.6	13,357.5	6,945.2	123.9	124.4	66.37	-6,379.0	-429.7	420.1	189.1	231.04	1.818	
13,582.6	7,114.4	13,440.1	6,944.9	125.4	125.9	66.35	-6,461.7	-430.0	420.2	186.2	233.93	1.796	
13,600.0	7,114.4	13,457.5	6,944.8	125.8	126.3	66.34	-6,479.0	-430.0	420.2	185.7	234.54	1.792	
13,681.1	7,114.2	13,538.5	6,944.4	127.3	127.8	66.32	-6,560.1	-430.3	420.3	182.9	237.37	1.770	
13,700.0	7,114.2	13,557.5	6,944.3	127.7	128.2	66.31	-6,579.0	-430.4	420.3	182.2	238.03	1.766	
13,779.5	7,114.0	13,637.0	6,944.0	129.2	129.7	66.29	-6,658.5	-430.7	420.4	179.5	240.81	1.746	
13,800.0	7,113.9	13,657.5	6,943.9	129.6	130.1	66.29	-6,679.0	-430.8	420.4	178.8	241.53	1.740	
13,877.9	7,113.8	13,735.4	6,943.5	131.1	131.6	66.27	-6,756.9	-431.1	420.5	176.2	244.25	1.721	
13,900.0	7,113.7	13,757.5	6,943.4	131.5	132.0	66.26	-6,779.0	-431.1	420.5	175.4	245.03	1.716	
13,976.3	7,113.5	13,833.8	6,943.1	132.9	133.4	66.24	-6,855.4	-431.4	420.5	172.9	247.69	1.698	
14,000.0	7,113.5	13,857.4	6,943.0	133.4	133.9	66.23	-6,879.0	-431.5	420.6	172.0	248.52	1.692	
14,074.8	7,113.3	13,932.2	6,942.6	134.8	135.3	66.21	-6,953.8	-431.8	420.6	169.5	251.13	1.675	
14,100.0	7,113.3	13,957.4	6,942.5	135.3	135.8	66.20	-6,979.0	-431.9	420.7	168.6	252.01	1.669	
14,173.2	7,113.1	14,030.6	6,942.2	136.7	137.2	66.18	-7,052.2	-432.1	420.7	166.2	254.57	1.653	
14,200.0	7,113.0	14,057.4	6,942.1	137.2	137.7	66.17	-7,079.0	-432.2	420.8	165.2	255.51	1.647	
14,219.1	7,113.0	14,075.1	6,942.0	137.6	138.0	66.17	-7,096.7	-432.3	420.8	164.6	256.15	1.643 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	2.0	2.0	0.0	0.0	90.00	0.0	61.3	61.3				
98.4	98.4	100.4	100.4	0.1	0.1	90.00	0.0	61.3	61.3	61.1	0.19	316.835	
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	61.3	61.3	61.1	0.20	308.377	
196.8	196.8	198.8	198.8	0.3	0.3	90.00	0.0	61.3	61.3	60.7	0.63	96.709	
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	61.3	61.3	60.7	0.65	94.598	
295.3	295.3	297.3	297.3	0.5	0.5	90.00	0.0	61.3	61.3	60.3	1.08	56.970	
300.0	300.0	302.0	302.0	0.5	0.6	90.00	0.0	61.3	61.3	60.2	1.10	55.868	
393.7	393.7	395.7	395.7	0.8	0.8	90.00	0.0	61.3	61.3	59.8	1.52	40.378	
400.0	400.0	402.0	402.0	0.8	0.8	90.00	0.0	61.3	61.3	59.8	1.55	39.639	
492.1	492.1	494.1	494.1	1.0	1.0	90.00	0.0	61.3	61.3	59.4	1.96	31.271	
500.0	500.0	502.0	502.0	1.0	1.0	90.00	0.0	61.3	61.3	59.3	2.00	30.716	
590.5	590.5	592.5	592.5	1.2	1.2	90.00	0.0	61.3	61.3	58.9	2.40	25.516	
600.0	600.0	602.0	602.0	1.2	1.2	90.00	0.0	61.3	61.3	58.9	2.45	25.072	
689.0	689.0	691.0	691.0	1.4	1.4	90.00	0.0	61.3	61.3	58.5	2.85	21.550	
700.0	700.0	702.0	702.0	1.4	1.5	90.00	0.0	61.3	61.3	58.4	2.90	21.181	
787.4	787.4	789.4	789.4	1.6	1.6	90.00	0.0	61.3	61.3	58.1	3.29	18.651	
800.0	800.0	802.0	802.0	1.7	1.7	90.00	0.0	61.3	61.3	58.0	3.35	18.335	
885.8	885.8	887.8	887.8	1.9	1.9	90.00	0.0	61.3	61.3	57.6	3.73	16.439	
900.0	900.0	902.0	902.0	1.9	1.9	90.00	0.0	61.3	61.3	57.5	3.80	16.163	
984.2	984.2	986.2	986.2	2.1	2.1	90.00	0.0	61.3	61.3	57.2	4.17	14.697	
1,000.0	1,000.0	1,002.0	1,002.0	2.1	2.1	90.00	0.0	61.3	61.3	57.1	4.24	14.451	
1,082.7	1,082.7	1,084.7	1,084.7	2.3	2.3	90.00	0.0	61.3	61.3	56.7	4.62	13.288	
1,088.5	1,088.5	1,090.5	1,090.5	2.3	2.3	90.00	0.0	61.3	61.3	56.7	4.64	13.213 CC	
1,100.0	1,100.0	1,102.0	1,102.0	2.3	2.3	90.00	0.0	61.3	61.3	56.6	4.69	13.068 ES	
1,181.1	1,181.1	1,181.5	1,181.5	2.5	2.5	89.51	0.5	62.4	62.4	57.3	5.05	12.357	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	89.27	0.8	62.9	62.9	57.8	5.13	12.263	
1,279.5	1,279.5	1,277.9	1,277.8	2.7	2.7	87.80	2.5	66.2	66.4	60.9	5.48	12.124	
1,300.0	1,300.0	1,297.9	1,297.8	2.8	2.8	87.33	3.1	67.4	67.6	62.0	5.57	12.149	
1,377.9	1,377.9	1,373.9	1,373.5	3.0	2.9	90.25	6.0	73.0	73.5	67.6	5.91	12.444	
1,400.0	1,400.0	1,395.4	1,394.8	3.0	3.0	90.07	7.0	74.8	75.5	69.5	6.00	12.580	
1,476.4	1,476.3	1,469.4	1,468.4	3.2	3.2	90.03	11.0	82.5	83.6	77.3	6.34	13.197	
1,500.0	1,499.8	1,492.2	1,491.0	3.2	3.2	90.18	12.4	85.1	86.5	80.1	6.44	13.432	
1,574.8	1,574.4	1,564.2	1,562.2	3.4	3.4	90.97	17.3	94.7	96.8	90.0	6.78	14.280	
1,600.0	1,599.5	1,588.4	1,586.0	3.5	3.5	91.33	19.1	98.2	100.6	93.7	6.89	14.604	
1,673.2	1,672.2	1,658.1	1,654.6	3.6	3.7	92.55	25.0	109.4	113.0	105.7	7.23	15.616	
1,700.0	1,698.7	1,683.5	1,679.5	3.7	3.8	93.04	27.3	113.9	117.9	110.6	7.36	16.020	
1,771.6	1,769.5	1,753.1	1,747.5	3.9	4.0	94.55	33.9	126.7	131.9	124.2	7.72	17.078	
1,800.0	1,797.5	1,780.8	1,774.7	4.0	4.1	95.25	36.6	131.8	137.5	129.6	7.87	17.477	
1,870.1	1,866.3	1,849.2	1,841.6	4.2	4.3	97.18	43.1	144.4	151.6	143.4	8.25	18.378	
1,900.1	1,895.8	1,878.5	1,870.2	4.3	4.4	98.07	45.9	149.8	157.8	149.4	8.42	18.752	
1,968.5	1,962.6	1,945.1	1,935.3	4.5	4.7	100.23	52.3	162.1	172.1	163.3	8.82	19.516	
2,000.0	1,993.4	1,975.7	1,965.3	4.6	4.8	101.11	55.3	167.8	178.8	169.8	9.01	19.848	
2,066.9	2,058.9	2,040.9	2,029.1	4.8	5.1	102.78	61.5	179.8	193.1	183.6	9.42	20.486	
2,100.0	2,091.3	2,073.1	2,060.6	4.9	5.2	103.52	64.6	185.8	200.2	190.5	9.63	20.784	
2,165.3	2,155.2	2,136.8	2,122.8	5.1	5.4	104.83	70.7	197.5	214.3	204.3	10.05	21.316	
2,200.0	2,189.1	2,170.5	2,155.8	5.3	5.6	105.46	73.9	203.7	221.8	211.6	10.28	21.582	
2,263.8	2,251.4	2,232.6	2,216.6	5.5	5.8	106.51	79.9	215.2	235.8	225.1	10.70	22.026	
2,300.0	2,286.9	2,267.9	2,251.1	5.6	6.0	107.06	83.2	221.7	243.7	232.8	10.95	22.263	
2,362.2	2,347.7	2,328.4	2,310.3	5.9	6.2	107.91	89.0	232.9	257.4	246.0	11.37	22.635	
2,400.0	2,384.7	2,365.2	2,346.3	6.0	6.4	108.39	92.6	239.7	265.7	254.1	11.63	22.847	
2,460.6	2,444.0	2,424.3	2,404.1	6.3	6.6	109.10	98.2	250.6	279.1	267.1	12.05	23.160	
2,500.0	2,482.5	2,462.6	2,441.6	6.4	6.8	109.52	101.9	257.6	287.8	275.5	12.33	23.351	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
2,559.0	2,540.3	2,520.1	2,497.8	6.6	7.0	110.11	107.4	268.3	300.9	288.2	12.74	23.616	
2,600.0	2,580.3	2,560.0	2,536.8	6.8	7.2	110.49	111.2	275.6	310.1	297.0	13.03	23.789	
2,617.6	2,597.5	2,577.1	2,553.6	6.9	7.3	110.65	112.9	278.8	314.0	300.8	13.16	23.860	
2,657.5	2,636.6	2,616.0	2,591.6	7.0	7.4	111.11	116.6	285.9	322.8	309.3	13.43	24.028	
2,700.0	2,678.4	2,657.5	2,632.2	7.2	7.6	111.48	120.6	293.6	331.9	318.2	13.72	24.184	
2,755.9	2,733.5	2,712.2	2,685.7	7.3	7.8	111.79	125.8	303.7	343.6	329.5	14.08	24.410	
2,800.0	2,777.0	2,755.3	2,727.9	7.4	8.0	111.91	129.9	311.7	352.6	338.2	14.35	24.562	
2,854.3	2,830.9	2,808.6	2,780.0	7.6	8.2	111.91	135.0	321.5	363.3	348.6	14.68	24.742	
2,900.0	2,876.2	2,853.4	2,823.8	7.7	8.4	111.80	139.3	329.8	372.0	357.0	14.96	24.871	
2,952.7	2,928.7	2,905.2	2,874.4	7.8	8.7	111.55	144.3	339.3	381.7	366.5	15.26	25.021	
3,000.0	2,975.8	2,951.5	2,919.8	7.9	8.9	111.23	148.7	347.9	390.2	374.6	15.52	25.137	
3,051.2	3,026.8	3,001.8	2,968.9	8.0	9.1	110.78	153.5	357.1	399.0	383.2	15.79	25.270	
3,100.0	3,075.6	3,049.7	3,015.8	8.1	9.3	110.26	158.1	366.0	407.2	391.2	16.04	25.382	
3,149.6	3,125.2	3,098.3	3,063.3	8.2	9.5	109.64	162.8	375.0	415.4	399.1	16.28	25.509	
3,200.0	3,175.6	3,147.6	3,111.6	8.3	9.7	108.93	167.5	384.1	423.4	406.9	16.52	25.628	
3,217.7	3,193.3	3,165.0	3,128.6	8.3	9.8	104.38	169.2	387.3	426.2	409.6	16.59	25.684	
3,248.0	3,223.6	3,194.6	3,157.6	8.4	9.9	103.82	172.0	392.7	431.0	414.2	16.73	25.763	
3,300.0	3,275.6	3,245.5	3,207.3	8.5	10.1	102.90	176.9	402.1	439.2	422.3	16.96	25.903	
3,346.4	3,322.0	3,290.9	3,251.7	8.6	10.3	102.11	181.2	410.5	446.7	429.5	17.17	26.023	
3,400.0	3,375.6	3,343.3	3,303.0	8.7	10.6	101.22	186.2	420.2	455.4	438.0	17.40	26.166	
3,444.9	3,420.4	3,387.2	3,345.9	8.7	10.8	100.51	190.5	428.3	462.8	445.2	17.60	26.289	
3,500.0	3,475.6	3,441.1	3,398.7	8.8	11.0	99.66	195.6	438.2	472.0	454.1	17.85	26.443	
3,543.3	3,518.9	3,483.4	3,440.1	8.9	11.2	99.02	199.7	446.0	479.2	461.2	18.04	26.566	
3,600.0	3,575.6	3,538.9	3,494.3	9.0	11.4	98.20	205.0	456.3	488.8	470.5	18.29	26.730	
3,641.7	3,617.3	3,579.7	3,534.3	9.1	11.6	97.62	208.9	463.8	496.0	477.5	18.47	26.851	
3,700.0	3,675.6	3,636.7	3,590.0	9.2	11.9	96.84	214.4	474.3	506.0	487.3	18.73	27.022	
3,740.1	3,715.7	3,676.0	3,628.4	9.3	12.1	96.32	218.1	481.6	513.0	494.1	18.90	27.140	
3,800.0	3,775.6	3,734.5	3,685.7	9.4	12.3	95.57	223.7	492.4	523.4	504.3	19.16	27.317	
3,838.6	3,814.1	3,772.3	3,722.6	9.5	12.5	95.10	227.3	499.3	530.2	510.9	19.33	27.431	
3,900.0	3,875.6	3,832.3	3,781.4	9.6	12.7	94.37	233.1	510.4	541.1	521.5	19.59	27.614	
3,937.0	3,912.6	3,868.5	3,816.8	9.7	12.9	93.95	236.6	517.1	547.7	527.9	19.76	27.723	
4,000.0	3,975.6	3,930.2	3,877.0	9.8	13.2	93.26	242.5	528.5	559.0	538.9	20.03	27.909	
4,035.4	4,011.0	3,964.8	3,910.9	9.9	13.3	92.88	245.8	534.9	565.4	545.2	20.18	28.013	
4,100.0	4,075.6	4,028.0	3,972.7	10.0	13.6	92.21	251.8	546.5	577.0	556.6	20.46	28.202	
4,133.8	4,109.4	4,061.1	4,005.1	10.0	13.8	91.87	255.0	552.6	583.2	562.6	20.61	28.300	
4,200.0	4,175.6	4,138.5	4,081.0	10.2	14.0	91.14	262.0	566.2	594.7	573.8	20.90	28.460	
4,232.3	4,207.8	4,177.5	4,119.3	10.2	14.2	90.82	265.2	572.3	599.7	578.7	21.03	28.514	
4,300.0	4,275.6	4,259.7	4,200.6	10.4	14.4	90.24	271.2	583.7	609.1	587.8	21.32	28.573	
4,330.7	4,306.3	4,297.3	4,237.8	10.4	14.5	90.02	273.5	588.3	612.8	591.4	21.45	28.572	
4,400.0	4,375.6	4,382.4	4,322.4	10.6	14.7	89.60	278.0	596.9	619.9	598.2	21.74	28.520	
4,429.1	4,404.7	4,418.4	4,358.2	10.6	14.8	89.46	279.6	599.9	622.3	600.5	21.86	28.474	
4,500.0	4,475.6	4,506.2	4,445.7	10.8	15.0	89.20	282.5	605.5	626.9	604.8	22.15	28.307	
4,527.5	4,503.1	4,540.4	4,479.9	10.8	15.0	89.13	283.3	607.1	628.2	605.9	22.26	28.223	
4,600.0	4,575.6	4,630.5	4,570.0	11.0	15.2	89.02	284.5	609.4	630.1	607.5	22.55	27.942	
4,626.0	4,601.5	4,662.9	4,602.3	11.0	15.2	89.01	284.6	609.6	630.2	607.6	22.65	27.822	
4,700.0	4,675.6	4,738.1	4,677.6	11.2	15.3	89.01	284.6	609.6	630.2	607.3	22.93	27.483	
4,724.4	4,700.0	4,762.5	4,702.0	11.2	15.4	89.01	284.6	609.6	630.2	607.2	23.02	27.372	
4,800.0	4,775.6	4,838.1	4,777.6	11.4	15.5	89.01	284.6	609.6	630.2	606.9	23.31	27.033	
4,822.8	4,798.4	4,860.9	4,800.4	11.4	15.5	89.01	284.6	609.6	630.2	606.8	23.40	26.932	
4,900.0	4,875.6	4,938.1	4,877.6	11.6	15.6	89.01	284.6	609.6	630.2	606.5	23.70	26.595	
4,921.2	4,896.8	4,959.3	4,898.8	11.6	15.6	89.01	284.6	609.6	630.2	606.5	23.78	26.503	
5,000.0	4,975.6	5,038.1	4,977.6	11.8	15.8	89.01	284.6	609.6	630.2	606.2	24.08	26.168	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
5,019.7	4,995.2	5,057.8	4,997.2	11.8	15.8	89.01	284.6	609.6	630.2	606.1	24.16	26.085	
5,100.0	5,075.6	5,138.1	5,077.6	12.0	15.9	89.01	284.6	609.6	630.2	605.8	24.47	25.753	
5,118.1	5,093.7	5,156.2	5,095.7	12.0	15.9	89.01	284.6	609.6	630.2	605.7	24.54	25.679	
5,200.0	5,175.6	5,238.1	5,177.6	12.2	16.1	89.01	284.6	609.6	630.2	605.4	24.86	25.348	
5,216.5	5,192.1	5,254.6	5,194.1	12.2	16.1	89.01	284.6	609.6	630.2	605.3	24.93	25.282	
5,300.0	5,275.6	5,338.1	5,277.6	12.4	16.2	89.01	284.6	609.6	630.2	605.0	25.26	24.954	
5,314.9	5,290.5	5,353.0	5,292.5	12.4	16.2	89.01	284.6	609.6	630.2	604.9	25.31	24.896	
5,400.0	5,375.6	5,438.1	5,377.6	12.6	16.4	89.01	284.6	609.6	630.2	604.6	25.65	24.570	
5,413.4	5,388.9	5,451.5	5,390.9	12.6	16.4	89.01	284.6	609.6	630.2	604.5	25.70	24.520	
5,500.0	5,475.6	5,538.1	5,477.6	12.8	16.5	89.01	284.6	609.6	630.2	604.2	26.05	24.197	
5,511.8	5,487.4	5,549.9	5,489.4	12.8	16.6	89.01	284.6	609.6	630.2	604.1	26.09	24.153	
5,600.0	5,575.6	5,638.1	5,577.6	13.0	16.7	89.01	284.6	609.6	630.2	603.8	26.44	23.833	
5,610.2	5,585.8	5,648.3	5,587.8	13.0	16.7	89.01	284.6	609.6	630.2	603.8	26.48	23.796	
5,700.0	5,675.6	5,738.1	5,677.6	13.2	16.9	89.01	284.6	609.6	630.2	603.4	26.84	23.478	
5,708.6	5,684.2	5,746.7	5,686.2	13.2	16.9	89.01	284.6	609.6	630.2	603.4	26.88	23.448	
5,800.0	5,775.6	5,838.1	5,777.6	13.4	17.0	89.01	284.6	609.6	630.2	603.0	27.24	23.133	
5,807.1	5,782.6	5,845.2	5,784.6	13.4	17.0	89.01	284.6	609.6	630.2	603.0	27.27	23.108	
5,900.0	5,875.6	5,938.1	5,877.6	13.6	17.2	89.01	284.6	609.6	630.2	602.6	27.65	22.796	
5,905.5	5,881.1	5,943.6	5,883.1	13.6	17.2	89.01	284.6	609.6	630.2	602.6	27.67	22.777	
6,000.0	5,975.6	6,038.1	5,977.6	13.8	17.3	89.01	284.6	609.6	630.2	602.2	28.05	22.468	
6,003.9	5,979.5	6,042.0	5,981.5	13.8	17.3	89.01	284.6	609.6	630.2	602.2	28.07	22.455	
6,100.0	6,075.6	6,138.1	6,077.6	14.0	17.5	89.01	284.6	609.6	630.2	601.8	28.46	22.148	
6,102.3	6,077.9	6,140.4	6,079.9	14.0	17.5	89.01	284.6	609.6	630.2	601.8	28.47	22.140	
6,200.0	6,175.6	6,238.1	6,177.6	14.2	17.7	89.01	284.6	609.6	630.2	601.4	28.86	21.836	
6,200.8	6,176.3	6,238.9	6,178.3	14.2	17.7	89.01	284.6	609.6	630.2	601.4	28.87	21.833	
6,299.2	6,274.8	6,337.3	6,276.8	14.4	17.8	89.01	284.6	609.6	630.2	601.0	29.27	21.534	
6,300.0	6,275.6	6,338.1	6,277.6	14.4	17.8	89.01	284.6	609.6	630.2	601.0	29.27	21.531	
6,397.6	6,373.2	6,436.8	6,376.2	14.7	18.0	89.37	280.6	609.6	630.2	600.5	29.65	21.255	
6,400.0	6,375.6	6,439.2	6,378.5	14.7	18.0	89.40	280.3	609.6	630.2	600.5	29.66	21.248	
6,436.2	6,411.8	6,475.5	6,414.5	14.7	18.0	89.84	275.5	609.6	630.1	600.3	29.79	21.153	
6,450.0	6,425.6	6,489.1	6,427.9	14.8	18.0	-90.17	273.2	609.6	630.1	600.3	29.84	21.113	
6,462.2	6,437.7	6,501.1	6,439.7	14.8	18.0	-90.00	270.9	609.6	630.1	600.2	29.88	21.089	
6,496.0	6,471.5	6,534.5	6,472.2	14.8	18.0	-89.52	263.7	609.6	630.1	600.2	29.96	21.030	
6,500.0	6,475.5	6,538.3	6,476.0	14.8	18.0	-89.46	262.7	609.6	630.1	600.2	29.97	21.023	
6,550.0	6,525.1	6,587.0	6,522.8	14.9	18.0	-88.76	249.2	609.5	630.2	600.2	30.07	20.962	
6,594.5	6,568.7	6,629.9	6,563.1	14.9	18.0	-88.14	234.7	609.5	630.4	600.3	30.12	20.930	
6,600.0	6,574.1	6,635.2	6,568.1	14.9	18.0	-88.06	232.7	609.5	630.5	600.3	30.13	20.927	
6,650.0	6,622.4	6,683.0	6,611.7	14.9	18.0	-87.38	213.4	609.4	630.8	600.6	30.16	20.913	
6,692.9	6,663.0	6,723.5	6,647.7	14.9	18.0	-86.80	194.7	609.3	631.1	600.9	30.17	20.916	
6,700.0	6,669.6	6,730.2	6,653.6	14.9	18.0	-86.71	191.5	609.3	631.2	601.0	30.17	20.917	
6,750.0	6,715.6	6,777.1	6,693.5	14.9	18.0	-86.06	167.1	609.2	631.6	601.5	30.17	20.933	
6,791.3	6,752.5	6,815.5	6,725.0	14.9	18.0	-85.53	145.1	609.1	632.1	601.9	30.17	20.952	
6,800.0	6,760.1	6,823.5	6,731.5	14.9	18.0	-85.43	140.3	609.1	632.1	602.0	30.17	20.956	
6,850.0	6,802.9	6,869.6	6,767.3	14.9	18.0	-84.82	111.5	609.0	632.7	602.6	30.16	20.978	
6,889.7	6,835.6	6,905.9	6,794.3	14.9	18.0	-84.35	87.1	608.9	633.2	603.1	30.17	20.991	
6,900.0	6,843.8	6,915.3	6,801.0	14.9	18.0	-84.24	80.6	608.9	633.3	603.2	30.17	20.993	
6,950.0	6,882.6	6,960.6	6,832.4	14.9	17.9	-83.68	47.9	608.8	634.0	603.8	30.20	20.992	
6,988.2	6,910.7	6,995.0	6,854.9	15.0	17.9	-83.28	21.7	608.7	634.5	604.3	30.25	20.974	
7,000.0	6,919.1	7,005.7	6,861.5	15.0	17.9	-83.16	13.5	608.6	634.7	604.4	30.27	20.968	
7,050.0	6,953.1	7,050.0	6,888.0	15.0	18.0	-82.67	-22.1	608.5	635.3	605.0	30.38	20.912	
7,086.6	6,976.4	7,083.1	6,906.2	15.1	18.0	-82.33	-49.6	608.4	635.8	605.3	30.51	20.839	
7,100.0	6,984.5	7,095.0	6,912.5	15.1	18.0	-82.21	-59.8	608.4	636.0	605.5	30.56	20.814	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
7,150.0	7,013.1	7,139.2	6,934.3	15.3	18.0	-81.79	-98.3	608.2	636.7	605.9	30.80	20.674	
7,185.0	7,031.4	7,170.1	6,948.1	15.4	18.1	-81.51	-125.9	608.1	637.1	606.1	31.01	20.544	
7,200.0	7,038.8	7,183.3	6,953.6	15.4	18.1	-81.40	-137.9	608.1	637.3	606.2	31.11	20.486	
7,250.0	7,061.4	7,227.2	6,970.4	15.6	18.2	-81.05	-178.4	607.9	637.9	606.4	31.50	20.248	
7,283.4	7,074.8	7,256.4	6,980.1	15.8	18.3	-80.84	-206.0	607.8	638.3	606.5	31.82	20.061	
7,300.0	7,080.9	7,270.9	6,984.6	15.9	18.3	-80.74	-219.8	607.8	638.4	606.5	31.98	19.962	
7,350.0	7,097.1	7,314.4	6,996.2	16.2	18.5	-80.47	-261.7	607.6	638.9	606.4	32.55	19.628	
7,381.9	7,105.7	7,342.1	7,002.2	16.4	18.6	-80.32	-288.8	607.5	639.2	606.3	32.96	19.391	
7,400.0	7,109.9	7,357.9	7,005.2	16.6	18.7	-80.24	-304.2	607.5	639.4	606.2	33.21	19.254	
7,450.0	7,119.4	7,400.0	7,011.4	17.0	19.0	-80.06	-345.9	607.3	639.7	605.8	33.94	18.849	
7,480.3	7,123.4	7,427.4	7,014.2	17.2	19.2	-79.96	-373.1	607.2	639.9	605.5	34.45	18.575	
7,500.0	7,125.4	7,444.4	7,015.4	17.4	19.3	-79.91	-390.1	607.2	640.0	605.2	34.78	18.404	
7,550.0	7,127.9	7,488.2	7,016.6	17.9	19.6	-79.81	-433.8	607.0	640.2	604.5	35.68	17.943	
7,562.9	7,128.0	7,500.4	7,016.6	18.0	19.8	-79.79	-446.1	607.0	640.2	604.3	35.93	17.816	
7,578.7	7,128.0	7,516.3	7,016.5	18.2	19.9	-79.79	-461.9	606.9	640.2	604.0	36.26	17.656	
7,600.0	7,127.9	7,537.5	7,016.4	18.4	20.1	-79.79	-483.2	606.8	640.2	603.5	36.70	17.446	
7,677.1	7,127.7	7,614.7	7,016.2	19.2	20.9	-79.79	-560.3	606.5	640.2	601.9	38.38	16.683	
7,700.0	7,127.7	7,637.5	7,016.1	19.5	21.1	-79.78	-583.2	606.5	640.3	601.4	38.90	16.460	
7,775.6	7,127.5	7,713.1	7,015.9	20.3	22.0	-79.78	-658.8	606.2	640.3	599.7	40.59	15.775	
7,800.0	7,127.5	7,737.5	7,015.8	20.5	22.3	-79.78	-683.2	606.1	640.3	599.1	41.16	15.557	
7,874.0	7,127.3	7,811.5	7,015.6	21.4	23.2	-79.77	-757.2	605.8	640.3	597.3	42.96	14.902	
7,900.0	7,127.2	7,837.5	7,015.5	21.7	23.5	-79.77	-783.2	605.7	640.3	596.7	43.62	14.678	
7,972.4	7,127.1	7,910.0	7,015.3	22.7	24.5	-79.76	-855.6	605.5	640.3	594.7	45.63	14.033	
8,000.0	7,127.0	7,937.5	7,015.2	23.1	24.9	-79.76	-883.2	605.4	640.3	593.9	46.41	13.796	
8,070.8	7,126.8	8,008.4	7,015.0	24.2	25.9	-79.75	-954.0	605.1	640.3	591.8	48.48	13.208	
8,100.0	7,126.8	8,037.5	7,014.9	24.6	26.3	-79.75	-983.2	605.0	640.3	591.0	49.34	12.977	
8,169.3	7,126.6	8,106.8	7,014.6	25.6	27.4	-79.75	-1,052.5	604.7	640.3	588.9	51.45	12.446	
8,200.0	7,126.6	8,137.5	7,014.5	26.1	27.8	-79.74	-1,083.2	604.6	640.3	587.9	52.39	12.221	
8,267.7	7,126.4	8,205.2	7,014.3	27.2	28.9	-79.74	-1,150.9	604.4	640.3	585.8	54.52	11.746	
8,300.0	7,126.3	8,237.5	7,014.2	27.7	29.4	-79.74	-1,183.2	604.3	640.3	584.8	55.54	11.529	
8,366.1	7,126.2	8,303.6	7,014.0	28.8	30.5	-79.73	-1,249.3	604.0	640.4	582.7	57.67	11.103	
8,400.0	7,126.1	8,337.5	7,013.9	29.3	31.0	-79.73	-1,283.2	603.9	640.4	581.6	58.78	10.895	
8,464.5	7,126.0	8,402.1	7,013.7	30.4	32.1	-79.72	-1,347.7	603.7	640.4	579.5	60.90	10.515	
8,500.0	7,125.9	8,437.5	7,013.6	31.0	32.7	-79.72	-1,383.2	603.5	640.4	578.3	62.08	10.316	
8,563.0	7,125.7	8,500.5	7,013.4	32.0	33.7	-79.72	-1,446.1	603.3	640.4	576.2	64.19	9.977	
8,600.0	7,125.6	8,537.5	7,013.3	32.6	34.3	-79.71	-1,483.2	603.2	640.4	575.0	65.44	9.786	
8,661.4	7,125.5	8,598.9	7,013.1	33.7	35.4	-79.71	-1,544.6	603.0	640.4	572.9	67.53	9.483	
8,700.0	7,125.4	8,637.5	7,013.0	34.4	36.1	-79.70	-1,583.2	602.8	640.4	571.6	68.85	9.301	
8,759.8	7,125.3	8,697.3	7,012.8	35.4	37.1	-79.70	-1,643.0	602.6	640.4	569.5	70.91	9.031	
8,800.0	7,125.2	8,737.5	7,012.6	36.1	37.8	-79.70	-1,683.2	602.4	640.4	568.1	72.31	8.857	
8,858.2	7,125.1	8,795.8	7,012.5	37.1	38.8	-79.69	-1,741.4	602.2	640.4	566.1	74.34	8.615	
8,900.0	7,125.0	8,837.5	7,012.3	37.8	39.5	-79.69	-1,783.2	602.1	640.5	564.7	75.80	8.449	
8,956.7	7,124.8	8,894.2	7,012.1	38.8	40.6	-79.68	-1,839.8	601.9	640.5	562.7	77.79	8.233	
9,000.0	7,124.7	8,937.5	7,012.0	39.6	41.3	-79.68	-1,883.2	601.7	640.5	561.1	79.32	8.074	
9,055.1	7,124.6	8,992.6	7,011.8	40.6	42.3	-79.68	-1,938.3	601.5	640.5	559.2	81.28	7.880	
9,100.0	7,124.5	9,037.5	7,011.7	41.4	43.1	-79.67	-1,983.2	601.4	640.5	557.6	82.88	7.728	
9,153.5	7,124.4	9,091.0	7,011.5	42.3	44.1	-79.67	-2,036.7	601.2	640.5	555.7	84.79	7.554	
9,200.0	7,124.3	9,137.5	7,011.4	43.2	44.9	-79.66	-2,083.2	601.0	640.5	554.1	86.46	7.409	
9,251.9	7,124.2	9,189.5	7,011.2	44.1	45.9	-79.66	-2,135.1	600.8	640.5	552.2	88.32	7.252	
9,300.0	7,124.1	9,237.5	7,011.1	45.0	46.8	-79.66	-2,183.2	600.6	640.5	550.5	90.05	7.113	
9,350.4	7,123.9	9,287.9	7,010.9	45.9	47.7	-79.65	-2,233.5	600.4	640.5	548.7	91.88	6.972	
9,400.0	7,123.8	9,337.5	7,010.7	46.8	48.6	-79.65	-2,283.2	600.3	640.5	546.9	93.67	6.838	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MW/D												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	
9,448.8	7,123.7	9,386.3	7,010.6	47.7	49.5	-79.64	-2,332.0	600.1	640.6	545.1	95.45	6.711	
9,500.0	7,123.6	9,437.5	7,010.4	48.6	50.4	-79.64	-2,383.1	599.9	640.6	543.3	97.31	6.583	
9,547.2	7,123.5	9,484.7	7,010.3	49.4	51.3	-79.64	-2,430.4	599.7	640.6	541.5	99.03	6.468	
9,600.0	7,123.4	9,537.5	7,010.1	50.4	52.3	-79.63	-2,483.1	599.5	640.6	539.6	100.96	6.345	
9,645.6	7,123.3	9,583.2	7,010.0	51.2	53.1	-79.63	-2,528.8	599.4	640.6	538.0	102.63	6.242	
9,700.0	7,123.2	9,637.5	7,009.8	52.2	54.2	-79.62	-2,583.1	599.2	640.6	536.0	104.62	6.123	
9,744.1	7,123.1	9,681.6	7,009.6	53.1	55.0	-79.62	-2,627.2	599.0	640.6	534.4	106.24	6.030	
9,800.0	7,122.9	9,737.5	7,009.5	54.1	56.0	-79.62	-2,683.1	598.8	640.6	532.3	108.30	5.915	
9,842.5	7,122.8	9,780.0	7,009.3	54.9	56.8	-79.61	-2,725.6	598.7	640.6	530.8	109.87	5.831	
9,900.0	7,122.7	9,837.5	7,009.1	55.9	57.9	-79.61	-2,783.1	598.4	640.6	528.7	111.99	5.721	
9,940.9	7,122.6	9,878.4	7,009.0	56.7	58.7	-79.60	-2,824.1	598.3	640.7	527.2	113.50	5.644	
10,000.0	7,122.5	9,937.5	7,008.8	57.8	59.8	-79.60	-2,883.1	598.1	640.7	525.0	115.69	5.538	
10,039.3	7,122.4	9,976.9	7,008.7	58.5	60.5	-79.60	-2,922.5	597.9	640.7	523.5	117.14	5.469	
10,100.0	7,122.3	10,037.5	7,008.5	59.6	61.7	-79.59	-2,983.1	597.7	640.7	521.3	119.39	5.366	
10,137.8	7,122.2	10,075.3	7,008.4	60.3	62.4	-79.59	-3,020.9	597.6	640.7	519.9	120.80	5.304	
10,200.0	7,122.0	10,137.5	7,008.2	61.5	63.6	-79.58	-3,083.1	597.4	640.7	517.6	123.11	5.204	
10,236.2	7,121.9	10,173.7	7,008.1	62.2	64.3	-79.58	-3,119.3	597.2	640.7	516.3	124.45	5.148	
10,300.0	7,121.8	10,237.5	7,007.8	63.3	65.5	-79.57	-3,183.1	597.0	640.7	513.9	126.83	5.052	
10,334.6	7,121.7	10,272.1	7,007.7	64.0	66.1	-79.57	-3,217.8	596.9	640.7	512.6	128.12	5.001	
10,400.0	7,121.6	10,337.5	7,007.5	65.2	67.4	-79.57	-3,283.1	596.6	640.7	510.2	130.56	4.908	
10,433.0	7,121.5	10,370.5	7,007.4	65.8	68.0	-79.56	-3,316.2	596.5	640.8	509.0	131.79	4.862	
10,500.0	7,121.4	10,437.5	7,007.2	67.1	69.3	-79.56	-3,383.1	596.3	640.8	506.5	134.29	4.771	
10,531.5	7,121.3	10,469.0	7,007.1	67.7	69.9	-79.55	-3,414.6	596.2	640.8	505.3	135.47	4.730	
10,600.0	7,121.1	10,537.5	7,006.9	69.0	71.2	-79.55	-3,483.1	595.9	640.8	502.8	138.03	4.642	
10,629.9	7,121.1	10,567.4	7,006.8	69.5	71.8	-79.55	-3,513.0	595.8	640.8	501.6	139.15	4.605	
10,700.0	7,120.9	10,637.5	7,006.6	70.8	73.1	-79.54	-3,583.1	595.6	640.8	499.0	141.78	4.520	
10,728.3	7,120.8	10,665.8	7,006.5	71.4	73.7	-79.54	-3,611.4	595.5	640.8	498.0	142.84	4.486	
10,800.0	7,120.7	10,737.5	7,006.2	72.7	75.1	-79.53	-3,683.1	595.2	640.8	495.3	145.53	4.403	
10,826.7	7,120.6	10,764.2	7,006.2	73.2	75.6	-79.53	-3,709.9	595.1	640.8	494.3	146.53	4.373	
10,900.0	7,120.5	10,837.5	7,005.9	74.6	77.0	-79.52	-3,783.1	594.8	640.9	491.6	149.29	4.293	
10,925.2	7,120.4	10,862.7	7,005.8	75.1	77.5	-79.52	-3,808.3	594.7	640.9	490.6	150.23	4.266	
11,000.0	7,120.2	10,937.5	7,005.6	76.5	78.9	-79.51	-3,883.1	594.5	640.9	487.8	153.04	4.188	
11,023.6	7,120.2	10,961.1	7,005.5	76.9	79.4	-79.51	-3,906.7	594.4	640.9	486.9	153.93	4.163	
11,100.0	7,120.0	11,037.5	7,005.3	78.3	80.8	-79.51	-3,983.1	594.1	640.9	484.1	156.81	4.087	
11,122.0	7,120.0	11,059.5	7,005.2	78.8	81.3	-79.50	-4,005.1	594.0	640.9	483.3	157.64	4.066	
11,200.0	7,119.8	11,137.5	7,004.9	80.2	82.8	-79.50	-4,083.1	593.7	640.9	480.3	160.57	3.991	
11,220.4	7,119.7	11,157.9	7,004.9	80.6	83.2	-79.49	-4,103.6	593.7	640.9	479.6	161.34	3.972	
11,300.0	7,119.5	11,237.5	7,004.6	82.1	84.7	-79.49	-4,183.1	593.4	640.9	476.6	164.34	3.900	
11,318.9	7,119.5	11,256.4	7,004.6	82.5	85.1	-79.49	-4,202.0	593.3	640.9	475.9	165.05	3.883	
11,400.0	7,119.3	11,337.5	7,004.3	84.0	86.6	-79.48	-4,283.1	593.0	641.0	472.8	168.11	3.813	
11,417.3	7,119.3	11,354.8	7,004.2	84.3	87.0	-79.48	-4,300.4	593.0	641.0	472.2	168.77	3.798	
11,500.0	7,119.1	11,437.5	7,004.0	85.9	88.6	-79.47	-4,383.1	592.7	641.0	469.1	171.89	3.729	
11,515.7	7,119.1	11,453.2	7,003.9	86.2	88.9	-79.47	-4,398.8	592.6	641.0	468.5	172.48	3.716	
11,600.0	7,118.9	11,537.5	7,003.6	87.8	90.5	-79.46	-4,483.1	592.3	641.0	465.3	175.67	3.649	
11,614.1	7,118.8	11,551.6	7,003.6	88.0	90.8	-79.46	-4,497.2	592.3	641.0	464.8	176.20	3.638	
11,700.0	7,118.6	11,637.5	7,003.3	89.7	92.5	-79.45	-4,583.1	591.9	641.0	461.6	179.45	3.572	
11,712.6	7,118.6	11,650.1	7,003.3	89.9	92.7	-79.45	-4,595.7	591.9	641.0	461.1	179.92	3.563	
11,800.0	7,118.4	11,737.5	7,003.0	91.6	94.4	-79.44	-4,683.1	591.6	641.1	457.8	183.23	3.499	
11,811.0	7,118.4	11,748.5	7,003.0	91.8	94.6	-79.44	-4,694.1	591.5	641.1	457.4	183.65	3.491	
11,900.0	7,118.2	11,837.5	7,002.7	93.4	96.3	-79.44	-4,783.1	591.2	641.1	454.1	187.01	3.428	
11,909.4	7,118.2	11,846.9	7,002.6	93.6	96.5	-79.43	-4,792.5	591.2	641.1	453.7	187.37	3.421	
12,000.0	7,118.0	11,937.5	7,002.3	95.3	98.3	-79.43	-4,883.1	590.9	641.1	450.3	190.80	3.360	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
12,007.8	7,118.0	11,945.3	7,002.3	95.5	98.4	-79.43	-4,890.9	590.8	641.1	450.0	191.10	3.355	
12,100.0	7,117.8	12,037.5	7,002.0	97.2	100.2	-79.42	-4,983.1	590.5	641.1	446.5	194.59	3.295	
12,106.3	7,117.7	12,043.7	7,002.0	97.4	100.4	-79.42	-4,989.4	590.5	641.1	446.3	194.83	3.291	
12,200.0	7,117.5	12,137.5	7,001.7	99.1	102.2	-79.41	-5,083.1	590.2	641.1	442.8	198.38	3.232	
12,204.7	7,117.5	12,142.2	7,001.7	99.2	102.3	-79.41	-5,087.8	590.1	641.1	442.6	198.56	3.229	
12,300.0	7,117.3	12,237.5	7,001.4	101.0	104.1	-79.40	-5,183.1	589.8	641.2	439.0	202.17	3.171	
12,303.1	7,117.3	12,240.6	7,001.3	101.1	104.2	-79.40	-5,186.2	589.8	641.2	438.9	202.29	3.170	
12,400.0	7,117.1	12,337.5	7,001.0	102.9	106.1	-79.39	-5,283.1	589.4	641.2	435.2	205.96	3.113	
12,401.5	7,117.1	12,339.0	7,001.0	103.0	106.1	-79.39	-5,284.6	589.4	641.2	435.2	206.02	3.112	
12,500.0	7,116.9	12,437.5	7,000.7	104.8	108.0	-79.38	-5,383.1	589.1	641.2	431.5	209.76	3.057	
12,598.4	7,116.6	12,535.9	7,000.4	106.7	110.0	-79.37	-5,481.5	588.7	641.2	427.8	213.49	3.004	
12,600.0	7,116.6	12,537.5	7,000.4	106.7	110.0	-79.37	-5,483.1	588.7	641.2	427.7	213.55	3.003	
12,696.8	7,116.4	12,634.3	7,000.1	108.6	111.9	-79.36	-5,579.9	588.4	641.3	424.0	217.23	2.952	
12,700.0	7,116.4	12,637.5	7,000.0	108.6	111.9	-79.36	-5,583.1	588.4	641.3	423.9	217.35	2.950	
12,795.2	7,116.2	12,732.7	6,999.7	110.4	113.8	-79.36	-5,678.3	588.0	641.3	420.3	220.97	2.902	
12,800.0	7,116.2	12,737.5	6,999.7	110.5	113.9	-79.35	-5,683.1	588.0	641.3	420.1	221.15	2.900	
12,893.7	7,116.0	12,831.1	6,999.4	112.3	115.7	-79.35	-5,776.7	587.7	641.3	416.6	224.71	2.854	
12,900.0	7,116.0	12,837.5	6,999.4	112.4	115.8	-79.35	-5,783.1	587.6	641.3	416.4	224.95	2.851	
12,992.1	7,115.7	12,929.6	6,999.1	114.2	117.6	-79.34	-5,875.2	587.3	641.3	412.9	228.45	2.807	
13,000.0	7,115.7	12,937.5	6,999.1	114.3	117.8	-79.34	-5,883.1	587.3	641.3	412.6	228.75	2.804	
13,090.5	7,115.5	13,028.0	6,998.8	116.1	119.6	-79.33	-5,973.6	587.0	641.4	409.2	232.19	2.762	
13,100.0	7,115.5	13,037.5	6,998.7	116.2	119.8	-79.33	-5,983.1	586.9	641.4	408.8	232.55	2.758	
13,188.9	7,115.3	13,126.4	6,998.4	117.9	121.5	-79.32	-6,072.0	586.6	641.4	405.5	235.93	2.719	
13,200.0	7,115.3	13,137.5	6,998.4	118.1	121.7	-79.32	-6,083.1	586.6	641.4	405.0	236.35	2.714	
13,287.4	7,115.1	13,224.8	6,998.1	119.8	123.4	-79.31	-6,170.4	586.3	641.4	401.7	239.68	2.676	
13,300.0	7,115.1	13,237.5	6,998.1	120.0	123.7	-79.31	-6,183.1	586.2	641.4	401.3	240.16	2.671	
13,385.8	7,114.9	13,323.3	6,997.8	121.7	125.4	-79.30	-6,268.9	585.9	641.4	398.0	243.42	2.635	
13,400.0	7,114.8	13,337.5	6,997.7	121.9	125.6	-79.30	-6,283.0	585.9	641.4	397.5	243.96	2.629	
13,484.2	7,114.6	13,421.7	6,997.5	123.6	127.3	-79.29	-6,367.3	585.6	641.5	394.3	247.16	2.595	
13,500.0	7,114.6	13,437.5	6,997.4	123.9	127.6	-79.29	-6,383.0	585.5	641.5	393.7	247.76	2.589	
13,582.6	7,114.4	13,520.1	6,997.1	125.4	129.2	-79.28	-6,465.7	585.2	641.5	390.6	250.91	2.557	
13,600.0	7,114.4	13,537.5	6,997.1	125.8	129.5	-79.28	-6,483.0	585.1	641.5	389.9	251.57	2.550	
13,681.1	7,114.2	13,618.5	6,996.8	127.3	131.1	-79.27	-6,564.1	584.9	641.5	386.9	254.65	2.519	
13,700.0	7,114.2	13,637.5	6,996.7	127.7	131.5	-79.27	-6,583.0	584.8	641.5	386.2	255.37	2.512	
13,779.5	7,114.0	13,716.9	6,996.5	129.2	133.1	-79.26	-6,662.5	584.5	641.5	383.1	258.40	2.483	
13,800.0	7,113.9	13,737.4	6,996.4	129.6	133.5	-79.26	-6,683.0	584.4	641.6	382.4	259.18	2.475	
13,877.9	7,113.8	13,815.4	6,996.2	131.1	135.0	-79.26	-6,761.0	584.1	641.6	379.4	262.15	2.447	
13,900.0	7,113.7	13,837.4	6,996.1	131.5	135.4	-79.25	-6,783.0	584.1	641.6	378.6	262.99	2.440	
13,976.3	7,113.5	13,913.8	6,995.8	132.9	136.9	-79.25	-6,859.4	583.8	641.6	375.7	265.90	2.413	
14,000.0	7,113.5	13,937.4	6,995.7	133.4	137.4	-79.24	-6,883.0	583.7	641.6	374.8	266.80	2.405	
14,074.8	7,113.3	14,012.2	6,995.5	134.8	138.9	-79.24	-6,957.8	583.4	641.6	372.0	269.64	2.380	
14,100.0	7,113.3	14,037.4	6,995.4	135.3	139.4	-79.23	-6,983.0	583.4	641.6	371.0	270.60	2.371	
14,173.2	7,113.1	14,110.6	6,995.2	136.7	140.8	-79.23	-7,056.2	583.1	641.7	368.3	273.39	2.347	
14,200.0	7,113.0	14,137.4	6,995.1	137.2	141.3	-79.22	-7,083.0	583.0	641.7	367.3	274.39	2.339	
14,219.1	7,113.0	14,156.6	6,995.0	137.6	141.7	-79.22	-7,102.2	582.9	641.7	366.6	275.11	2.332 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													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	3.0	3.0	0.0	0.0	89.99	0.0	89.2	89.2					
98.4	98.4	101.4	101.4	0.1	0.1	89.99	0.0	89.2	89.2	89.0	0.20	455.562		
100.0	100.0	103.0	103.0	0.1	0.1	89.99	0.0	89.2	89.2	89.0	0.20	443.537		
196.8	196.8	199.8	199.8	0.3	0.3	89.99	0.0	89.2	89.2	88.6	0.64	140.172		
200.0	200.0	203.0	203.0	0.3	0.3	89.99	0.0	89.2	89.2	88.6	0.65	137.121		
295.3	295.3	298.3	298.3	0.5	0.5	89.99	0.0	89.2	89.2	88.1	1.08	82.693		
300.0	300.0	303.0	303.0	0.5	0.6	89.99	0.0	89.2	89.2	88.1	1.10	81.096		
393.7	393.7	396.7	396.7	0.8	0.8	89.99	0.0	89.2	89.2	87.7	1.52	58.645		
400.0	400.0	403.0	403.0	0.8	0.8	89.99	0.0	89.2	89.2	87.7	1.55	57.573		
492.1	492.1	495.1	495.1	1.0	1.0	89.99	0.0	89.2	89.2	87.3	1.96	45.432		
500.0	500.0	503.0	503.0	1.0	1.0	89.99	0.0	89.2	89.2	87.2	2.00	44.628		
590.5	590.5	593.5	593.5	1.2	1.2	89.99	0.0	89.2	89.2	86.8	2.41	37.079		
600.0	600.0	603.0	603.0	1.2	1.2	89.99	0.0	89.2	89.2	86.8	2.45	36.436		
689.0	689.0	692.0	692.0	1.4	1.4	89.99	0.0	89.2	89.2	86.4	2.85	31.320		
700.0	700.0	703.0	703.0	1.4	1.5	89.99	0.0	89.2	89.2	86.3	2.90	30.784		
787.4	787.4	790.4	790.4	1.6	1.6	89.99	0.0	89.2	89.2	85.9	3.29	27.110		
800.0	800.0	803.0	803.0	1.7	1.7	89.99	0.0	89.2	89.2	85.9	3.35	26.651		
885.8	885.8	888.8	888.8	1.9	1.9	89.99	0.0	89.2	89.2	85.5	3.73	23.897		
900.0	900.0	903.0	903.0	1.9	1.9	89.99	0.0	89.2	89.2	85.4	3.80	23.496		
984.2	984.2	987.2	987.2	2.1	2.1	89.99	0.0	89.2	89.2	85.0	4.18	21.365		
988.5	988.5	991.5	991.5	2.1	2.1	89.99	0.0	89.2	89.2	85.0	4.20	21.268 CC		
1,000.0	1,000.0	1,002.9	1,002.9	2.1	2.1	89.99	0.0	89.2	89.2	85.0	4.25	21.012 ES		
1,082.7	1,082.7	1,083.2	1,083.2	2.3	2.3	89.73	0.4	90.4	90.4	85.8	4.61	19.627		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	89.62	0.6	90.9	90.9	86.2	4.68	19.424		
1,181.1	1,181.1	1,178.6	1,178.5	2.5	2.5	88.84	1.9	94.5	94.6	89.6	5.03	18.819		
1,200.0	1,200.0	1,196.9	1,196.8	2.6	2.5	88.61	2.3	95.6	95.8	90.7	5.11	18.750		
1,279.5	1,279.5	1,273.7	1,273.2	2.7	2.7	87.49	4.5	101.5	102.0	96.6	5.45	18.703		
1,300.0	1,300.0	1,293.4	1,292.8	2.8	2.8	87.16	5.1	103.3	104.0	98.4	5.54	18.753		
1,377.9	1,377.9	1,368.1	1,367.1	3.0	2.9	90.50	8.1	111.4	112.6	106.7	5.88	19.136		
1,400.0	1,400.0	1,389.2	1,388.0	3.0	3.0	90.38	9.0	114.0	115.4	109.4	5.98	19.297		
1,476.4	1,476.3	1,461.8	1,459.8	3.2	3.2	90.40	12.7	124.1	126.3	120.0	6.31	19.996		
1,500.0	1,499.8	1,484.2	1,481.9	3.2	3.3	90.52	13.9	127.6	130.0	123.6	6.42	20.256		
1,574.8	1,574.4	1,554.6	1,551.1	3.4	3.5	91.17	18.2	139.5	143.0	136.3	6.75	21.178		
1,600.0	1,599.5	1,578.2	1,574.3	3.5	3.5	91.46	19.8	143.9	147.8	141.0	6.87	21.527		
1,673.2	1,672.2	1,648.7	1,643.3	3.6	3.8	92.55	24.8	157.6	162.6	155.4	7.21	22.539		
1,700.0	1,698.7	1,674.9	1,668.8	3.7	3.9	93.05	26.6	162.7	168.0	160.7	7.34	22.891		
1,771.6	1,769.5	1,744.7	1,737.2	3.9	4.1	94.60	31.6	176.4	182.9	175.2	7.70	23.745		
1,800.0	1,797.5	1,772.3	1,764.2	4.0	4.2	95.28	33.5	181.8	188.8	181.0	7.84	24.070		
1,870.1	1,866.3	1,840.4	1,830.8	4.2	4.5	97.10	38.4	195.1	203.8	195.6	8.22	24.784		
1,900.1	1,895.8	1,869.6	1,859.3	4.3	4.6	97.92	40.4	200.8	210.4	202.0	8.39	25.082		
1,968.5	1,962.6	1,935.8	1,924.0	4.5	4.9	99.99	45.1	213.7	225.6	216.8	8.79	25.673		
2,000.0	1,993.4	1,966.3	1,953.9	4.6	5.0	100.85	47.3	219.7	232.7	223.7	8.97	25.932		
2,066.9	2,058.9	2,031.1	2,017.3	4.8	5.2	102.51	51.9	232.4	247.9	238.5	9.38	26.422		
2,100.0	2,091.3	2,063.1	2,048.6	4.9	5.4	103.26	54.1	238.6	255.5	245.9	9.59	26.652		
2,165.3	2,155.2	2,126.4	2,110.5	5.1	5.6	104.62	58.6	251.0	270.6	260.6	10.00	27.056		
2,200.0	2,189.1	2,160.0	2,143.3	5.3	5.8	105.28	61.0	257.5	278.7	268.4	10.22	27.259		
2,263.8	2,251.4	2,221.7	2,203.7	5.5	6.0	106.41	65.4	269.6	293.6	282.9	10.64	27.593		
2,300.0	2,286.9	2,256.8	2,238.1	5.6	6.2	107.00	67.9	276.5	302.1	291.2	10.88	27.773		
2,362.2	2,347.7	2,317.0	2,297.0	5.9	6.4	107.93	72.1	288.3	316.8	305.5	11.29	28.051		
2,400.0	2,384.7	2,353.6	2,332.8	6.0	6.6	108.46	74.7	295.4	325.8	314.2	11.55	28.210		
2,460.6	2,444.0	2,412.3	2,390.2	6.3	6.8	109.25	78.9	306.9	340.2	328.3	11.96	28.443		
2,500.0	2,482.5	2,450.5	2,427.5	6.4	7.0	109.73	81.6	314.3	349.6	337.4	12.23	28.585		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
2,559.0	2,540.3	2,507.7	2,483.4	6.6	7.2	110.40	85.6	325.5	363.8	351.1	12.64	28.781	
2,600.0	2,580.3	2,547.3	2,522.2	6.8	7.4	110.83	88.5	333.3	373.6	360.7	12.92	28.909	
2,617.6	2,597.5	2,564.4	2,538.9	6.9	7.5	111.02	89.7	336.6	377.9	364.8	13.05	28.961	
2,657.5	2,636.6	2,603.0	2,576.7	7.0	7.6	111.55	92.4	344.2	387.4	374.1	13.32	29.090	
2,700.0	2,678.4	2,644.3	2,617.1	7.2	7.8	112.02	95.3	352.2	397.3	383.7	13.60	29.206	
2,755.9	2,733.5	2,698.7	2,670.3	7.3	8.1	112.47	99.2	362.9	410.0	396.1	13.95	29.393	
2,800.0	2,777.0	2,741.7	2,712.4	7.4	8.2	112.72	102.2	371.3	419.8	405.6	14.22	29.515	
2,854.3	2,830.9	2,794.8	2,764.3	7.6	8.5	112.89	106.0	381.6	431.4	416.9	14.54	29.663	
2,900.0	2,876.2	2,839.5	2,808.0	7.7	8.7	112.94	109.2	390.4	440.9	426.1	14.81	29.764	
2,952.7	2,928.7	2,891.1	2,858.5	7.8	8.9	112.88	112.8	400.5	451.6	436.5	15.11	29.887	
3,000.0	2,975.8	2,937.4	2,903.8	7.9	9.1	112.74	116.1	409.5	460.8	445.4	15.37	29.977	
3,051.2	3,026.8	2,987.5	2,952.8	8.0	9.3	112.49	119.6	419.3	470.5	454.8	15.64	30.084	
3,100.0	3,075.6	3,035.3	2,999.6	8.1	9.5	112.18	123.0	428.7	479.4	463.5	15.89	30.171	
3,149.6	3,125.2	3,083.9	3,047.1	8.2	9.7	111.77	126.5	438.2	488.2	472.1	16.13	30.273	
3,200.0	3,175.6	3,133.3	3,095.4	8.3	10.0	111.28	130.0	447.8	496.9	480.5	16.36	30.365	
3,217.7	3,193.3	3,150.6	3,112.3	8.3	10.0	106.81	131.2	451.2	499.9	483.4	16.44	30.414	
3,248.0	3,223.6	3,180.2	3,141.3	8.4	10.2	106.39	133.3	457.0	505.0	488.4	16.57	30.476	
3,300.0	3,275.6	3,231.1	3,191.0	8.5	10.4	105.68	136.9	466.9	513.8	497.0	16.80	30.587	
3,346.4	3,322.0	3,276.5	3,235.5	8.6	10.6	105.06	140.1	475.8	521.7	504.7	17.01	30.677	
3,400.0	3,375.6	3,328.9	3,286.7	8.7	10.8	104.38	143.8	486.1	530.9	513.7	17.25	30.785	
3,444.9	3,420.4	3,372.8	3,329.7	8.7	11.0	103.82	146.9	494.6	538.7	521.3	17.45	30.877	
3,500.0	3,475.6	3,426.7	3,382.4	8.8	11.3	103.16	150.8	505.2	548.4	530.7	17.69	30.992	
3,543.3	3,518.9	3,469.1	3,423.8	8.9	11.5	102.66	153.8	513.5	556.0	538.1	17.89	31.083	
3,600.0	3,575.6	3,524.5	3,478.1	9.0	11.7	102.02	157.7	524.3	566.0	547.9	18.14	31.205	
3,641.7	3,617.3	3,565.3	3,518.0	9.1	11.9	101.57	160.6	532.3	573.4	555.1	18.32	31.294	
3,700.0	3,675.6	3,622.3	3,573.8	9.2	12.1	100.95	164.6	543.4	583.9	565.3	18.58	31.421	
3,740.1	3,715.7	3,661.6	3,612.2	9.3	12.3	100.54	167.4	551.1	591.1	572.3	18.76	31.508	
3,800.0	3,775.6	3,720.1	3,669.4	9.4	12.6	99.94	171.5	562.5	601.9	582.9	19.02	31.639	
3,838.6	3,814.1	3,757.9	3,706.3	9.5	12.8	99.56	174.2	569.9	608.9	589.7	19.19	31.723	
3,900.0	3,875.6	3,818.0	3,765.1	9.6	13.0	98.99	178.5	581.7	620.1	600.6	19.47	31.858	
3,937.0	3,912.6	3,854.2	3,800.5	9.7	13.2	98.65	181.0	588.7	626.9	607.3	19.63	31.938	
4,000.0	3,975.6	3,915.8	3,860.8	9.8	13.5	98.09	185.4	600.8	638.5	618.6	19.91	32.075	
4,035.4	4,011.0	3,950.4	3,894.7	9.9	13.6	97.78	187.9	607.6	645.0	625.0	20.06	32.151	
4,100.0	4,075.6	4,013.6	3,956.5	10.0	13.9	97.24	192.3	619.9	657.0	636.7	20.35	32.290	
4,133.8	4,109.4	4,046.7	3,988.8	10.0	14.0	96.96	194.7	626.4	663.3	642.8	20.50	32.362	
4,200.0	4,175.6	4,111.4	4,052.1	10.2	14.3	96.44	199.3	639.0	675.6	654.9	20.79	32.503	
4,232.3	4,207.8	4,143.0	4,083.0	10.2	14.5	96.19	201.5	645.2	681.7	660.8	20.93	32.570	
4,300.0	4,275.6	4,209.2	4,147.8	10.4	14.8	95.68	206.2	658.1	694.4	673.2	21.23	32.712	
4,330.7	4,306.3	4,239.2	4,177.2	10.4	14.9	95.46	208.3	664.0	700.2	678.8	21.36	32.775	
4,400.0	4,375.6	4,307.0	4,243.5	10.6	15.2	94.96	213.1	677.3	713.3	691.6	21.67	32.917	
4,429.1	4,404.7	4,335.5	4,271.4	10.6	15.4	94.76	215.1	682.8	718.8	697.0	21.80	32.976	
4,500.0	4,475.6	4,404.8	4,339.2	10.8	15.7	94.28	220.1	696.4	732.3	710.2	22.11	33.118	
4,527.5	4,503.1	4,431.8	4,365.5	10.8	15.8	94.10	222.0	701.7	737.5	715.3	22.23	33.172	
4,600.0	4,575.6	4,502.7	4,434.8	11.0	16.1	93.63	227.0	715.5	751.4	728.8	22.55	33.314	
4,626.0	4,601.5	4,528.1	4,459.7	11.0	16.2	93.47	228.8	720.5	756.3	733.7	22.67	33.364	
4,700.0	4,675.6	4,600.5	4,530.5	11.2	16.5	93.02	233.9	734.6	770.5	747.5	23.00	33.506	
4,724.4	4,700.0	4,624.3	4,553.9	11.2	16.7	92.87	235.6	739.3	775.2	752.1	23.11	33.552	
4,800.0	4,775.6	4,698.3	4,626.2	11.4	17.0	92.43	240.8	753.8	789.8	766.3	23.44	33.693	
4,822.8	4,798.4	4,720.6	4,648.0	11.4	17.1	92.30	242.4	758.1	794.2	770.7	23.54	33.735	
4,900.0	4,875.6	4,796.1	4,721.9	11.6	17.4	91.87	247.8	772.9	809.1	785.2	23.89	33.875	
4,921.2	4,896.8	4,816.9	4,742.2	11.6	17.5	91.76	249.2	776.9	813.2	789.3	23.98	33.913	
5,000.0	4,975.6	4,893.9	4,817.5	11.8	17.9	91.34	254.7	792.0	828.5	804.2	24.33	34.052	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
5,019.7	4,995.2	4,913.2	4,836.4	11.8	18.0	91.24	256.1	795.8	832.3	807.9	24.42	34.087	
5,100.0	5,075.6	4,991.7	4,913.2	12.0	18.3	90.83	261.6	811.1	848.0	823.2	24.78	34.225	
5,118.1	5,093.7	5,009.4	4,930.5	12.0	18.4	90.74	262.9	814.6	851.5	826.7	24.86	34.256	
5,200.0	5,175.6	5,119.2	5,038.3	12.2	18.8	90.25	270.0	834.3	866.2	841.0	25.26	34.287	
5,216.5	5,192.1	5,142.0	5,060.7	12.2	18.9	90.16	271.3	837.9	868.8	843.5	25.34	34.285	
5,300.0	5,275.6	5,257.9	5,175.4	12.4	19.2	89.78	277.0	853.6	880.2	854.5	25.73	34.205	
5,314.9	5,290.5	5,278.8	5,196.2	12.4	19.2	89.73	277.9	856.0	881.9	856.1	25.80	34.179	
5,400.0	5,375.6	5,398.3	5,315.1	12.6	19.5	89.48	281.8	866.8	889.6	863.4	26.19	33.966	
5,413.4	5,388.9	5,417.2	5,334.0	12.6	19.5	89.45	282.3	868.1	890.5	864.3	26.25	33.924	
5,500.0	5,475.6	5,539.8	5,456.4	12.8	19.7	89.32	284.3	873.6	894.4	867.8	26.63	33.584	
5,511.8	5,487.4	5,556.5	5,473.1	12.8	19.8	89.31	284.4	874.0	894.7	868.0	26.68	33.529	
5,600.0	5,575.6	5,661.9	5,578.6	13.0	19.9	89.30	284.6	874.5	895.1	868.0	27.04	33.102	
5,610.2	5,585.8	5,672.2	5,588.8	13.0	19.9	89.30	284.6	874.5	895.1	868.0	27.08	33.055	
5,700.0	5,675.6	5,761.9	5,678.6	13.2	20.0	89.30	284.6	874.5	895.1	867.7	27.42	32.640	
5,708.6	5,684.2	5,770.6	5,687.2	13.2	20.0	89.30	284.6	874.5	895.1	867.6	27.46	32.600	
5,800.0	5,775.6	5,861.9	5,778.6	13.4	20.2	89.30	284.6	874.5	895.1	867.3	27.81	32.184	
5,807.1	5,782.6	5,869.0	5,785.6	13.4	20.2	89.30	284.6	874.5	895.1	867.3	27.84	32.152	
5,900.0	5,875.6	5,961.9	5,878.6	13.6	20.3	89.30	284.6	874.5	895.1	866.9	28.20	31.739	
5,905.5	5,881.1	5,967.4	5,884.1	13.6	20.3	89.30	284.6	874.5	895.1	866.9	28.22	31.715	
6,000.0	5,975.6	6,061.9	5,978.6	13.8	20.4	89.30	284.6	874.5	895.1	866.5	28.59	31.304	
6,003.9	5,979.5	6,065.9	5,982.5	13.8	20.4	89.30	284.6	874.5	895.1	866.5	28.61	31.288	
6,100.0	6,075.6	6,161.9	6,078.6	14.0	20.6	89.30	284.6	874.5	895.1	866.1	28.99	30.880	
6,102.3	6,077.9	6,164.3	6,080.9	14.0	20.6	89.30	284.6	874.5	895.1	866.1	29.00	30.870	
6,200.0	6,175.6	6,261.9	6,178.6	14.2	20.7	89.30	284.6	874.5	895.1	865.7	29.38	30.465	
6,200.8	6,176.3	6,262.7	6,179.3	14.2	20.7	89.30	284.6	874.5	895.1	865.7	29.38	30.461	
6,299.2	6,274.8	6,361.6	6,278.2	14.4	20.9	89.32	284.3	874.5	895.1	865.3	29.77	30.067	
6,300.0	6,275.6	6,362.4	6,279.0	14.4	20.9	89.32	284.3	874.5	895.1	865.3	29.77	30.064	
6,397.6	6,373.2	6,460.8	6,376.9	14.7	20.9	89.95	274.4	874.5	895.0	864.9	30.13	29.703	
6,400.0	6,375.6	6,463.2	6,379.2	14.7	20.9	89.98	274.0	874.5	895.0	864.8	30.14	29.695	
6,419.9	6,395.5	6,482.8	6,398.5	14.7	20.9	90.21	270.4	874.5	895.0	864.8	30.21	29.625	
6,436.2	6,411.8	6,498.7	6,414.0	14.7	21.0	90.42	267.1	874.5	895.0	864.7	30.27	29.567	
6,450.0	6,425.6	6,512.1	6,427.0	14.8	21.0	-89.60	264.0	874.4	895.0	864.7	30.33	29.512	
6,496.0	6,471.5	6,556.3	6,469.6	14.8	21.0	-88.97	252.2	874.4	895.1	864.7	30.45	29.401	
6,500.0	6,475.5	6,560.1	6,473.2	14.8	21.0	-88.92	251.1	874.4	895.1	864.7	30.46	29.392	
6,550.0	6,525.1	6,607.4	6,517.8	14.9	21.0	-88.24	235.3	874.3	895.4	864.9	30.55	29.310	
6,594.5	6,568.7	6,650.0	6,557.0	14.9	21.0	-87.64	218.6	874.3	895.8	865.2	30.61	29.264	
6,600.0	6,574.1	6,654.1	6,560.7	14.9	21.0	-87.58	216.8	874.3	895.8	865.2	30.62	29.260	
6,650.0	6,622.4	6,700.0	6,601.6	14.9	21.0	-86.94	196.0	874.2	896.3	865.7	30.66	29.238	
6,692.9	6,663.0	6,739.3	6,635.6	14.9	20.9	-86.40	176.1	874.1	896.8	866.2	30.67	29.238	
6,700.0	6,669.6	6,745.8	6,641.0	14.9	20.9	-86.31	172.7	874.1	896.9	866.2	30.68	29.239	
6,750.0	6,715.6	6,790.8	6,678.2	14.9	20.9	-85.70	147.3	874.0	897.6	866.9	30.68	29.255	
6,791.3	6,752.5	6,827.7	6,707.5	14.9	20.9	-85.21	124.9	873.9	898.2	867.5	30.68	29.274	
6,800.0	6,760.1	6,835.4	6,713.4	14.9	20.9	-85.11	120.0	873.9	898.4	867.7	30.68	29.279	
6,850.0	6,802.9	6,879.5	6,746.5	14.9	20.9	-84.54	90.8	873.8	899.2	868.5	30.69	29.301	
6,889.7	6,835.6	6,914.3	6,771.3	14.9	20.9	-84.11	66.4	873.7	899.9	869.2	30.70	29.311	
6,900.0	6,843.8	6,923.2	6,777.5	14.9	20.9	-84.00	60.0	873.7	900.0	869.3	30.71	29.312	
6,950.0	6,882.6	6,966.5	6,806.2	14.9	20.9	-83.49	27.6	873.6	900.9	870.2	30.75	29.303	
6,988.2	6,910.7	7,000.0	6,827.1	15.0	20.9	-83.11	1.4	873.5	901.6	870.8	30.80	29.273	
7,000.0	6,919.1	7,009.5	6,832.8	15.0	20.9	-83.00	-6.2	873.5	901.8	871.0	30.81	29.270	
7,050.0	6,953.1	7,050.0	6,855.9	15.0	20.9	-82.57	-39.4	873.3	902.7	871.8	30.93	29.182	
7,086.6	6,976.4	7,083.2	6,873.4	15.1	20.9	-82.24	-67.6	873.2	903.4	872.3	31.08	29.071	
7,100.0	6,984.5	7,094.5	6,879.1	15.1	20.9	-82.13	-77.4	873.2	903.6	872.5	31.12	29.038	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
7,150.0	7,013.1	7,136.7	6,898.8	15.3	21.0	-81.74	-114.6	873.1	904.5	873.1	31.36	28.843	
7,185.0	7,031.4	7,166.0	6,911.3	15.4	21.0	-81.49	-141.2	873.0	905.1	873.5	31.58	28.663	
7,200.0	7,038.8	7,178.5	6,916.3	15.4	21.0	-81.39	-152.7	872.9	905.3	873.6	31.67	28.582	
7,250.0	7,061.4	7,220.2	6,931.4	15.6	21.1	-81.07	-191.6	872.8	906.1	874.0	32.07	28.255	
7,283.4	7,074.8	7,250.0	6,940.8	15.8	21.2	-80.87	-219.8	872.7	906.5	874.1	32.39	27.991	
7,300.0	7,080.9	7,261.7	6,944.1	15.9	21.2	-80.79	-231.0	872.6	906.7	874.2	32.54	27.863	
7,350.0	7,097.1	7,300.0	6,953.9	16.2	21.4	-80.56	-268.0	872.5	907.4	874.3	33.09	27.425	
7,381.9	7,105.7	7,329.4	6,960.0	16.4	21.5	-80.42	-296.8	872.4	907.7	874.2	33.52	27.078	
7,400.0	7,109.9	7,344.3	6,962.7	16.6	21.5	-80.35	-311.5	872.3	907.9	874.1	33.76	26.892	
7,450.0	7,119.4	7,385.4	6,968.4	17.0	21.7	-80.19	-352.2	872.2	908.3	873.8	34.50	26.328	
7,480.3	7,123.4	7,410.3	6,970.7	17.2	21.9	-80.11	-376.9	872.1	908.5	873.5	34.99	25.965	
7,500.0	7,125.4	7,426.4	6,971.8	17.4	22.0	-80.06	-393.0	872.0	908.6	873.3	35.32	25.726	
7,550.0	7,127.9	7,467.4	6,972.8	17.9	22.2	-79.98	-434.0	871.9	908.8	872.6	36.21	25.101	
7,562.9	7,128.0	7,479.4	6,972.7	18.0	22.3	-79.97	-446.0	871.8	908.9	872.4	36.46	24.925	
7,578.7	7,128.0	7,495.2	6,972.6	18.2	22.4	-79.96	-461.8	871.8	908.9	872.1	36.78	24.712	
7,600.0	7,127.9	7,516.5	6,972.4	18.4	22.6	-79.95	-483.1	871.7	908.9	871.7	37.21	24.429	
7,677.1	7,127.7	7,593.6	6,971.7	19.2	23.2	-79.92	-560.2	871.4	909.0	870.2	38.84	23.407	
7,700.0	7,127.7	7,616.5	6,971.5	19.5	23.4	-79.91	-583.1	871.3	909.0	869.7	39.33	23.113	
7,775.6	7,127.5	7,692.1	6,970.8	20.3	24.1	-79.88	-658.6	871.1	909.1	868.2	40.94	22.208	
7,800.0	7,127.5	7,716.5	6,970.5	20.5	24.4	-79.87	-683.1	871.0	909.2	867.7	41.47	21.921	
7,874.0	7,127.3	7,790.5	6,969.9	21.4	25.2	-79.84	-757.1	870.7	909.2	866.0	43.21	21.043	
7,900.0	7,127.2	7,816.5	6,969.6	21.7	25.5	-79.83	-783.1	870.6	909.3	865.4	43.83	20.744	
7,972.4	7,127.1	7,888.9	6,969.0	22.7	26.4	-79.80	-855.5	870.4	909.4	863.6	45.77	19.867	
8,000.0	7,127.0	7,916.5	6,968.7	23.1	26.7	-79.78	-883.0	870.2	909.4	862.9	46.52	19.547	
8,070.8	7,126.8	7,987.3	6,968.1	24.2	27.6	-79.75	-953.9	870.0	909.5	861.0	48.53	18.741	
8,100.0	7,126.8	8,016.5	6,967.8	24.6	28.0	-79.74	-983.0	869.9	909.5	860.2	49.36	18.425	
8,169.3	7,126.6	8,085.7	6,967.2	25.6	28.9	-79.71	-1,052.3	869.6	909.6	858.2	51.41	17.692	
8,200.0	7,126.6	8,116.5	6,966.9	26.1	29.4	-79.70	-1,083.0	869.5	909.6	857.3	52.33	17.383	
8,267.7	7,126.4	8,184.2	6,966.3	27.2	30.3	-79.67	-1,150.7	869.3	909.7	855.3	54.40	16.722	
8,300.0	7,126.3	8,216.5	6,966.0	27.7	30.8	-79.66	-1,183.0	869.2	909.8	854.4	55.40	16.422	
8,366.1	7,126.2	8,282.6	6,965.4	28.8	31.8	-79.63	-1,249.1	868.9	909.8	852.4	57.48	15.828	
8,400.0	7,126.1	8,316.5	6,965.1	29.3	32.3	-79.62	-1,283.0	868.8	909.9	851.3	58.56	15.538	
8,464.5	7,126.0	8,381.0	6,964.5	30.4	33.2	-79.59	-1,347.6	868.6	910.0	849.3	60.64	15.006	
8,500.0	7,125.9	8,416.5	6,964.2	31.0	33.8	-79.57	-1,383.0	868.4	910.0	848.2	61.79	14.727	
8,563.0	7,125.7	8,479.4	6,963.6	32.0	34.8	-79.55	-1,446.0	868.2	910.1	846.2	63.86	14.251	
8,600.0	7,125.6	8,516.5	6,963.3	32.6	35.3	-79.53	-1,483.0	868.1	910.1	845.1	65.09	13.984	
8,661.4	7,125.5	8,577.9	6,962.7	33.7	36.3	-79.51	-1,544.4	867.8	910.2	843.1	67.14	13.557	
8,700.0	7,125.4	8,616.4	6,962.4	34.4	36.9	-79.49	-1,583.0	867.7	910.3	841.8	68.44	13.301	
8,759.8	7,125.3	8,676.3	6,961.8	35.4	37.9	-79.46	-1,642.8	867.5	910.3	839.9	70.46	12.919	
8,800.0	7,125.2	8,716.4	6,961.5	36.1	38.6	-79.45	-1,683.0	867.3	910.4	838.6	71.83	12.674	
8,858.2	7,125.1	8,774.7	6,960.9	37.1	39.5	-79.42	-1,741.2	867.1	910.5	836.6	73.83	12.332	
8,900.0	7,125.0	8,816.4	6,960.6	37.8	40.2	-79.40	-1,783.0	867.0	910.5	835.3	75.27	12.097	
8,956.7	7,124.8	8,873.1	6,960.0	38.8	41.2	-79.38	-1,839.6	866.8	910.6	833.4	77.23	11.790	
9,000.0	7,124.7	8,916.4	6,959.6	39.6	41.9	-79.36	-1,883.0	866.6	910.7	831.9	78.74	11.566	
9,055.1	7,124.6	8,971.5	6,959.1	40.6	42.9	-79.34	-1,938.1	866.4	910.7	830.1	80.66	11.290	
9,100.0	7,124.5	9,016.4	6,958.7	41.4	43.6	-79.32	-1,982.9	866.2	910.8	828.5	82.24	11.075	
9,153.5	7,124.4	9,070.0	6,958.2	42.3	44.5	-79.30	-2,036.5	866.0	910.8	826.7	84.12	10.828	
9,200.0	7,124.3	9,116.4	6,957.8	43.2	45.3	-79.28	-2,082.9	865.9	910.9	825.1	85.76	10.621	
9,251.9	7,124.2	9,168.4	6,957.4	44.1	46.3	-79.26	-2,134.9	865.7	911.0	823.4	87.60	10.399	
9,300.0	7,124.1	9,216.4	6,956.9	45.0	47.1	-79.24	-2,182.9	865.5	911.0	821.7	89.31	10.201	
9,350.4	7,123.9	9,266.8	6,956.5	45.9	48.0	-79.21	-2,233.3	865.3	911.1	820.0	91.11	10.000	
9,400.0	7,123.8	9,316.4	6,956.0	46.8	48.8	-79.19	-2,282.9	865.2	911.2	818.3	92.88	9.810	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
9,448.8	7,123.7	9,365.2	6,955.6	47.7	49.7	-79.17	-2,331.7	865.0	911.2	816.6	94.63	9.629	
9,500.0	7,123.6	9,416.4	6,955.1	48.6	50.6	-79.15	-2,382.9	864.8	911.3	814.8	96.47	9.447	
9,547.2	7,123.5	9,463.6	6,954.7	49.4	51.5	-79.13	-2,430.1	864.6	911.4	813.2	98.17	9.284	
9,600.0	7,123.4	9,516.4	6,954.2	50.4	52.4	-79.11	-2,482.9	864.4	911.4	811.4	100.07	9.108	
9,645.6	7,123.3	9,562.1	6,953.8	51.2	53.2	-79.09	-2,528.5	864.3	911.5	809.8	101.72	8.961	
9,700.0	7,123.2	9,616.4	6,953.3	52.2	54.2	-79.07	-2,582.9	864.1	911.6	807.9	103.69	8.792	
9,744.1	7,123.1	9,660.5	6,952.9	53.1	55.0	-79.05	-2,627.0	863.9	911.6	806.3	105.29	8.659	
9,800.0	7,122.9	9,716.4	6,952.4	54.1	56.0	-79.03	-2,682.9	863.7	911.7	804.4	107.32	8.495	
9,842.5	7,122.8	9,758.9	6,952.0	54.9	56.8	-79.01	-2,725.4	863.6	911.8	802.9	108.86	8.375	
9,900.0	7,122.7	9,816.4	6,951.5	55.9	57.8	-78.98	-2,782.9	863.3	911.8	800.9	110.96	8.218	
9,940.9	7,122.6	9,857.3	6,951.1	56.7	58.6	-78.97	-2,823.8	863.2	911.9	799.4	112.45	8.109	
10,000.0	7,122.5	9,916.4	6,950.6	57.8	59.7	-78.94	-2,882.9	863.0	912.0	797.4	114.61	7.957	
10,039.3	7,122.4	9,955.7	6,950.2	58.5	60.4	-78.92	-2,922.2	862.8	912.0	796.0	116.05	7.859	
10,100.0	7,122.3	10,016.4	6,949.6	59.6	61.5	-78.90	-2,982.9	862.6	912.1	793.8	118.27	7.712	
10,137.8	7,122.2	10,054.2	6,949.3	60.3	62.2	-78.88	-3,020.6	862.5	912.2	792.5	119.65	7.623	
10,200.0	7,122.0	10,116.4	6,948.7	61.5	63.3	-78.86	-3,082.8	862.3	912.2	790.3	121.93	7.481	
10,236.2	7,121.9	10,152.6	6,948.4	62.2	64.0	-78.84	-3,119.0	862.1	912.3	789.0	123.26	7.401	
10,300.0	7,121.8	10,216.4	6,947.8	63.3	65.2	-78.81	-3,182.8	861.9	912.4	786.8	125.61	7.264	
10,334.6	7,121.7	10,251.0	6,947.5	64.0	65.8	-78.80	-3,217.5	861.8	912.4	785.5	126.88	7.191	
10,400.0	7,121.6	10,316.4	6,946.9	65.2	67.0	-78.77	-3,282.8	861.5	912.5	783.2	129.29	7.058	
10,433.0	7,121.5	10,349.4	6,946.6	65.8	67.7	-78.76	-3,315.9	861.4	912.6	782.0	130.51	6.992	
10,500.0	7,121.4	10,416.4	6,946.0	67.1	68.9	-78.73	-3,382.8	861.2	912.7	779.7	132.98	6.863	
10,531.5	7,121.3	10,447.8	6,945.7	67.7	69.5	-78.72	-3,414.3	861.1	912.7	778.6	134.14	6.804	
10,600.0	7,121.1	10,516.4	6,945.1	69.0	70.8	-78.69	-3,482.8	860.8	912.8	776.1	136.67	6.679	
10,629.9	7,121.1	10,546.3	6,944.8	69.5	71.3	-78.68	-3,512.7	860.7	912.8	775.1	137.78	6.625	
10,700.0	7,120.9	10,616.4	6,944.2	70.8	72.6	-78.65	-3,582.8	860.5	912.9	772.6	140.37	6.504	
10,728.3	7,120.8	10,644.7	6,943.9	71.4	73.2	-78.63	-3,611.1	860.4	913.0	771.6	141.42	6.456	
10,800.0	7,120.7	10,716.4	6,943.3	72.7	74.5	-78.60	-3,682.8	860.1	913.1	769.0	144.07	6.338	
10,826.7	7,120.6	10,743.1	6,943.0	73.2	75.0	-78.59	-3,709.5	860.0	913.1	768.0	145.06	6.295	
10,900.0	7,120.5	10,816.4	6,942.4	74.6	76.4	-78.56	-3,782.8	859.7	913.2	765.4	147.78	6.180	
10,925.2	7,120.4	10,841.5	6,942.1	75.1	76.9	-78.55	-3,808.0	859.6	913.2	764.5	148.71	6.141	
11,000.0	7,120.2	10,916.4	6,941.4	76.5	78.3	-78.52	-3,882.8	859.4	913.4	761.9	151.49	6.029	
11,023.6	7,120.2	10,940.0	6,941.2	76.9	78.7	-78.51	-3,906.4	859.3	913.4	761.0	152.36	5.995	
11,100.0	7,120.0	11,016.3	6,940.5	78.3	80.2	-78.48	-3,982.8	859.0	913.5	758.3	155.20	5.886	
11,122.0	7,120.0	11,038.4	6,940.3	78.8	80.6	-78.47	-4,004.8	858.9	913.5	757.5	156.02	5.855	
11,200.0	7,119.8	11,116.3	6,939.6	80.2	82.1	-78.44	-4,082.8	858.7	913.6	754.7	158.92	5.749	
11,220.4	7,119.7	11,136.8	6,939.4	80.6	82.4	-78.43	-4,103.2	858.6	913.7	754.0	159.68	5.722	
11,300.0	7,119.5	11,216.3	6,938.7	82.1	83.9	-78.39	-4,182.7	858.3	913.8	751.1	162.63	5.619	
11,318.9	7,119.5	11,235.2	6,938.5	82.5	84.3	-78.39	-4,201.6	858.2	913.8	750.5	163.34	5.595	
11,400.0	7,119.3	11,316.3	6,937.8	84.0	85.8	-78.35	-4,282.7	857.9	913.9	747.6	166.35	5.494	
11,417.3	7,119.3	11,333.6	6,937.6	84.3	86.2	-78.34	-4,300.0	857.9	913.9	746.9	167.00	5.473	
11,500.0	7,119.1	11,416.3	6,936.9	85.9	87.7	-78.31	-4,382.7	857.6	914.1	744.0	170.08	5.374	
11,515.7	7,119.1	11,432.1	6,936.8	86.2	88.0	-78.30	-4,398.5	857.5	914.1	743.4	170.66	5.356	
11,600.0	7,118.9	11,516.3	6,936.0	87.8	89.6	-78.27	-4,482.7	857.2	914.2	740.4	173.80	5.260	
11,614.1	7,118.8	11,530.5	6,935.9	88.0	89.9	-78.26	-4,496.9	857.2	914.2	739.9	174.33	5.244	
11,700.0	7,118.6	11,616.3	6,935.1	89.7	91.6	-78.23	-4,582.7	856.9	914.4	736.8	177.53	5.150	
11,712.6	7,118.6	11,628.9	6,935.0	89.9	91.8	-78.22	-4,595.3	856.8	914.4	736.4	178.00	5.137	
11,800.0	7,118.4	11,716.3	6,934.2	91.6	93.5	-78.18	-4,682.7	856.5	914.5	733.2	181.26	5.045	
11,811.0	7,118.4	11,727.3	6,934.1	91.8	93.7	-78.18	-4,693.7	856.5	914.5	732.9	181.67	5.034	
11,900.0	7,118.2	11,816.3	6,933.3	93.4	95.4	-78.14	-4,782.7	856.2	914.7	729.7	184.99	4.944	
11,909.4	7,118.2	11,825.7	6,933.2	93.6	95.5	-78.14	-4,792.1	856.1	914.7	729.3	185.34	4.935	
12,000.0	7,118.0	11,916.3	6,932.3	95.3	97.3	-78.10	-4,882.7	855.8	914.8	726.1	188.72	4.847	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 70-243 - ORIGINAL WELLBORE - PROPOSAL #2												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												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	
12,007.8	7,118.0	11,924.2	6,932.3	95.5	97.4	-78.10	-4,890.5	855.8	914.8	725.8	189.01	4.840	
12,100.0	7,117.8	12,016.3	6,931.4	97.2	99.2	-78.06	-4,982.7	855.4	914.9	722.5	192.45	4.754	
12,106.3	7,117.7	12,022.6	6,931.4	97.4	99.3	-78.06	-4,989.0	855.4	915.0	722.3	192.69	4.748	
12,200.0	7,117.5	12,116.3	6,930.5	99.1	101.1	-78.02	-5,082.7	855.1	915.1	718.9	196.19	4.664	
12,204.7	7,117.5	12,121.0	6,930.5	99.2	101.2	-78.01	-5,087.4	855.1	915.1	718.7	196.36	4.660	
12,300.0	7,117.3	12,216.3	6,929.6	101.0	103.0	-77.97	-5,182.7	854.7	915.2	715.3	199.92	4.578	
12,303.1	7,117.3	12,219.4	6,929.6	101.1	103.1	-77.97	-5,185.8	854.7	915.3	715.2	200.04	4.575	
12,400.0	7,117.1	12,316.3	6,928.7	102.9	104.9	-77.93	-5,282.6	854.4	915.4	711.7	203.66	4.495	
12,401.5	7,117.1	12,317.8	6,928.7	103.0	105.0	-77.93	-5,284.2	854.4	915.4	711.7	203.71	4.494	
12,500.0	7,116.9	12,416.3	6,927.8	104.8	106.9	-77.89	-5,382.6	854.0	915.5	708.2	207.39	4.415	
12,598.4	7,116.6	12,514.7	6,926.9	106.7	108.8	-77.85	-5,481.0	853.7	915.7	704.6	211.07	4.338	
12,600.0	7,116.6	12,516.3	6,926.9	106.7	108.8	-77.85	-5,482.6	853.7	915.7	704.6	211.13	4.337	
12,696.8	7,116.4	12,613.1	6,926.0	108.6	110.6	-77.81	-5,579.4	853.3	915.8	701.1	214.75	4.265	
12,700.0	7,116.4	12,616.3	6,926.0	108.6	110.7	-77.81	-5,582.6	853.3	915.9	701.0	214.86	4.262	
12,795.2	7,116.2	12,711.5	6,925.1	110.4	112.5	-77.77	-5,677.9	853.0	916.0	697.6	218.42	4.194	
12,800.0	7,116.2	12,716.3	6,925.0	110.5	112.6	-77.76	-5,682.6	852.9	916.0	697.4	218.60	4.190	
12,893.7	7,116.0	12,809.9	6,924.2	112.3	114.4	-77.72	-5,776.3	852.6	916.2	694.0	222.10	4.125	
12,900.0	7,116.0	12,816.3	6,924.1	112.4	114.6	-77.72	-5,782.6	852.6	916.2	693.8	222.34	4.121	
12,992.1	7,115.7	12,908.4	6,923.3	114.2	116.3	-77.68	-5,874.7	852.3	916.3	690.5	225.78	4.058	
13,000.0	7,115.7	12,916.3	6,923.2	114.3	116.5	-77.68	-5,882.6	852.2	916.3	690.2	226.08	4.053	
13,090.5	7,115.5	13,006.8	6,922.4	116.1	118.2	-77.64	-5,973.1	851.9	916.5	687.0	229.46	3.994	
13,100.0	7,115.5	13,016.3	6,922.3	116.2	118.4	-77.64	-5,982.6	851.9	916.5	686.7	229.81	3.988	
13,188.9	7,115.3	13,105.2	6,921.5	117.9	120.1	-77.60	-6,071.5	851.6	916.6	683.5	233.14	3.932	
13,200.0	7,115.3	13,116.3	6,921.4	118.1	120.3	-77.60	-6,082.6	851.5	916.6	683.1	233.55	3.925	
13,287.4	7,115.1	13,203.6	6,920.6	119.8	122.0	-77.56	-6,169.9	851.2	916.8	679.9	236.82	3.871	
13,300.0	7,115.1	13,216.3	6,920.5	120.0	122.3	-77.55	-6,182.6	851.2	916.8	679.5	237.29	3.864	
13,385.8	7,114.9	13,302.0	6,919.7	121.7	123.9	-77.52	-6,268.4	850.9	916.9	676.4	240.50	3.813	
13,400.0	7,114.8	13,316.2	6,919.6	121.9	124.2	-77.51	-6,282.6	850.8	916.9	675.9	241.03	3.804	
13,484.2	7,114.6	13,400.5	6,918.8	123.6	125.8	-77.48	-6,366.8	850.5	917.1	672.9	244.18	3.756	
13,500.0	7,114.6	13,416.2	6,918.7	123.9	126.1	-77.47	-6,382.5	850.5	917.1	672.3	244.77	3.747	
13,582.6	7,114.4	13,498.9	6,917.9	125.4	127.7	-77.44	-6,465.2	850.2	917.2	669.4	247.85	3.701	
13,600.0	7,114.4	13,516.2	6,917.7	125.8	128.1	-77.43	-6,482.5	850.1	917.3	668.8	248.50	3.691	
13,681.1	7,114.2	13,597.3	6,917.0	127.3	129.6	-77.39	-6,563.6	849.8	917.4	665.9	251.53	3.647	
13,700.0	7,114.2	13,616.2	6,916.8	127.7	130.0	-77.39	-6,582.5	849.7	917.4	665.2	252.24	3.637	
13,779.5	7,114.0	13,695.7	6,916.1	129.2	131.5	-77.35	-6,662.0	849.5	917.5	662.3	255.21	3.595	
13,800.0	7,113.9	13,716.2	6,915.9	129.6	131.9	-77.34	-6,682.5	849.4	917.6	661.6	255.98	3.585	
13,877.9	7,113.8	13,794.2	6,915.2	131.1	133.4	-77.31	-6,760.4	849.1	917.7	658.8	258.89	3.545	
13,900.0	7,113.7	13,816.2	6,915.0	131.5	133.9	-77.30	-6,782.5	849.0	917.7	658.0	259.71	3.534	
13,976.3	7,113.5	13,892.6	6,914.3	132.9	135.3	-77.27	-6,858.9	848.8	917.9	655.3	262.57	3.496	
14,000.0	7,113.5	13,916.2	6,914.1	133.4	135.8	-77.26	-6,882.5	848.7	917.9	654.4	263.45	3.484	
14,074.8	7,113.3	13,991.0	6,913.4	134.8	137.2	-77.23	-6,957.3	848.4	918.0	651.8	266.25	3.448	
14,100.0	7,113.3	14,016.2	6,913.2	135.3	137.7	-77.22	-6,982.5	848.3	918.1	650.9	267.19	3.436	
14,173.2	7,113.1	14,089.4	6,912.5	136.7	139.1	-77.19	-7,055.7	848.1	918.2	648.3	269.92	3.402	
14,200.0	7,113.0	14,116.2	6,912.3	137.2	139.6	-77.18	-7,082.5	848.0	918.2	647.3	270.91	3.389	
14,219.1	7,113.0	14,135.3	6,912.1	137.6	140.0	-77.17	-7,101.6	847.9	918.3	646.6	271.61	3.381 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-INC													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	-156.22	-3,511.9	-1,547.7	3,838.3					
98.4	98.4	37.9	37.9	0.1	0.5	-156.22	-3,511.9	-1,547.7	3,837.8	3,837.2	0.59	6,501.849		
100.0	100.0	39.5	39.5	0.1	0.5	-156.22	-3,511.9	-1,547.7	3,837.8	3,837.2	0.61	6,264.952		
196.8	196.8	136.3	136.3	0.3	2.1	-156.22	-3,511.9	-1,547.7	3,837.8	3,835.3	2.44	1,570.555		
200.0	200.0	139.5	139.5	0.3	2.2	-156.22	-3,511.9	-1,547.7	3,837.8	3,835.3	2.52	1,521.682		
295.3	295.3	234.8	234.8	0.5	4.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,833.0	4.83	794.640		
300.0	300.0	239.5	239.5	0.5	4.4	-156.22	-3,511.9	-1,547.7	3,837.8	3,832.8	4.94	777.146		
393.7	393.7	333.2	333.2	0.8	6.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,830.7	7.08	541.844		
400.0	400.0	339.5	339.5	0.8	6.5	-156.22	-3,511.9	-1,547.7	3,837.8	3,830.6	7.23	531.137		
492.1	492.1	431.6	431.6	1.0	8.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,828.5	9.31	412.247		
500.0	500.0	439.5	439.5	1.0	8.5	-156.22	-3,511.9	-1,547.7	3,837.8	3,828.3	9.49	404.535		
590.5	590.5	530.0	530.0	1.2	10.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,826.3	11.53	332.977		
600.0	600.0	539.5	539.5	1.2	10.5	-156.22	-3,511.9	-1,547.7	3,837.8	3,826.0	11.74	326.952		
689.0	689.0	628.5	628.5	1.4	12.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,824.0	13.74	279.381		
700.0	700.0	639.5	639.5	1.4	12.5	-156.22	-3,511.9	-1,547.7	3,837.8	3,823.8	13.98	274.438		
787.4	787.4	726.9	726.9	1.6	14.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,821.8	15.94	240.692		
800.0	800.0	739.5	739.5	1.7	14.6	-156.22	-3,511.9	-1,547.7	3,837.8	3,821.6	16.23	236.502		
885.8	885.8	825.3	825.3	1.9	16.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,819.6	18.15	211.436		
900.0	900.0	839.5	839.5	1.9	16.6	-156.22	-3,511.9	-1,547.7	3,837.8	3,819.3	18.47	207.800		
984.2	984.2	923.7	923.7	2.1	18.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,817.4	20.36	188.533		
1,000.0	1,000.0	939.5	939.5	2.1	18.6	-156.22	-3,511.9	-1,547.7	3,837.8	3,817.1	20.71	185.322		
1,082.7	1,082.7	1,022.2	1,022.2	2.3	20.3	-156.22	-3,511.9	-1,547.7	3,837.8	3,815.2	22.56	170.114		
1,100.0	1,100.0	1,039.5	1,039.5	2.3	20.6	-156.22	-3,511.9	-1,547.7	3,837.8	3,814.8	22.95	167.239		
1,181.1	1,181.1	1,120.6	1,120.6	2.5	22.2	-156.22	-3,511.9	-1,547.7	3,837.8	3,813.0	24.76	154.977		
1,200.0	1,200.0	1,139.5	1,139.5	2.6	22.6	-156.22	-3,511.9	-1,547.7	3,837.8	3,812.6	25.19	152.374		
1,279.5	1,279.5	1,219.0	1,219.0	2.7	24.2	-156.22	-3,511.9	-1,547.7	3,837.8	3,810.8	26.97	142.317		
1,300.0	1,300.0	1,239.5	1,239.5	2.8	24.6	-156.22	-3,511.9	-1,547.7	3,837.8	3,810.4	27.42	139.939		
1,377.9	1,377.9	1,317.4	1,317.4	3.0	26.2	-151.93	-3,511.9	-1,547.7	3,838.7	3,809.6	29.16	131.639		
1,400.0	1,400.0	1,339.5	1,339.5	3.0	26.6	-151.93	-3,511.9	-1,547.7	3,839.3	3,809.7	29.65	129.495		
1,476.4	1,476.3	1,415.8	1,415.8	3.2	28.2	-151.93	-3,511.9	-1,547.7	3,842.6	3,811.2	31.32	122.669		
1,500.0	1,499.8	1,439.3	1,439.3	3.2	28.7	-151.92	-3,511.9	-1,547.7	3,843.9	3,812.1	31.84	120.733		
1,574.8	1,574.4	1,513.9	1,513.9	3.4	30.2	-151.92	-3,511.9	-1,547.7	3,849.4	3,816.0	33.45	115.077		
1,600.0	1,599.5	1,539.0	1,539.0	3.5	30.7	-151.91	-3,511.9	-1,547.7	3,851.6	3,817.7	33.99	113.324		
1,673.2	1,672.2	1,611.7	1,611.7	3.6	32.1	-151.90	-3,511.9	-1,547.7	3,859.2	3,823.7	35.53	108.610		
1,700.0	1,698.7	1,638.2	1,638.2	3.7	32.7	-151.90	-3,511.9	-1,547.7	3,862.4	3,826.3	36.09	107.020		
1,771.6	1,769.5	1,709.0	1,709.0	3.9	34.1	-151.88	-3,511.9	-1,547.7	3,872.0	3,834.4	37.57	103.070		
1,800.0	1,797.5	1,737.0	1,737.0	4.0	34.6	-151.87	-3,511.9	-1,547.7	3,876.2	3,838.1	38.14	101.627		
1,870.1	1,866.3	1,805.8	1,805.8	4.2	36.0	-151.85	-3,511.9	-1,547.7	3,887.8	3,848.2	39.55	98.306		
1,900.1	1,895.8	1,835.3	1,835.3	4.3	36.6	-151.84	-3,511.9	-1,547.7	3,893.2	3,853.0	40.14	96.989		
1,968.5	1,962.6	1,902.1	1,902.1	4.5	38.0	-151.94	-3,511.9	-1,547.7	3,905.8	3,864.1	41.64	93.804		
2,000.0	1,993.4	1,932.9	1,932.9	4.6	38.6	-151.99	-3,511.9	-1,547.7	3,911.6	3,869.2	42.33	92.413		
2,066.9	2,058.9	1,998.4	1,998.4	4.8	39.9	-152.08	-3,511.9	-1,547.7	3,923.9	3,880.1	43.80	89.588		
2,100.0	2,091.3	2,030.8	2,030.8	4.9	40.6	-152.13	-3,511.9	-1,547.7	3,930.0	3,885.5	44.52	88.268		
2,165.3	2,155.2	2,094.7	2,094.7	5.1	41.8	-152.22	-3,511.9	-1,547.7	3,942.1	3,896.1	45.96	85.770		
2,200.0	2,189.1	2,128.6	2,128.6	5.3	42.5	-152.27	-3,511.9	-1,547.7	3,948.5	3,901.8	46.73	84.503		
2,263.8	2,251.4	2,190.9	2,190.9	5.5	43.8	-152.36	-3,511.9	-1,547.7	3,960.3	3,912.2	48.13	82.278		
2,300.0	2,286.9	2,226.4	2,226.4	5.6	44.5	-152.41	-3,511.9	-1,547.7	3,967.0	3,918.1	48.93	81.070		
2,362.2	2,347.7	2,287.2	2,287.2	5.9	45.7	-152.49	-3,511.9	-1,547.7	3,978.5	3,928.2	50.31	79.084		
2,400.0	2,384.7	2,324.2	2,324.2	6.0	46.5	-152.55	-3,511.9	-1,547.7	3,985.5	3,934.4	51.14	77.929		
2,460.6	2,444.0	2,383.5	2,383.5	6.3	47.6	-152.63	-3,511.9	-1,547.7	3,996.8	3,944.3	52.49	76.150		
2,500.0	2,482.5	2,422.0	2,422.0	6.4	48.4	-152.68	-3,511.9	-1,547.7	4,004.1	3,950.7	53.36	75.043		
2,559.0	2,540.3	2,479.8	2,479.8	6.6	49.6	-152.76	-3,511.9	-1,547.7	4,015.1	3,960.4	54.67	73.448		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HOW SAD C 18-31 - 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						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	
2,600.0	2,580.3	2,519.8	2,519.8	6.8	50.4	-152.82	-3,511.9	-1,547.7	4,022.7	3,967.1	55.57	72.385	
2,617.6	2,597.5	2,537.0	2,537.0	6.9	50.7	-152.84	-3,511.9	-1,547.7	4,025.9	3,970.0	55.96	71.939	
2,657.5	2,636.6	2,576.1	2,576.1	7.0	51.5	-152.96	-3,511.9	-1,547.7	4,033.1	3,976.2	56.95	70.815	
2,700.0	2,678.4	2,617.9	2,617.9	7.2	52.4	-153.08	-3,511.9	-1,547.7	4,040.2	3,982.2	58.00	69.653	
2,755.9	2,733.5	2,673.0	2,673.0	7.3	53.5	-153.21	-3,511.9	-1,547.7	4,048.7	3,989.4	59.36	68.205	
2,800.0	2,777.0	2,716.5	2,716.5	7.4	54.3	-153.31	-3,511.9	-1,547.7	4,054.8	3,994.3	60.43	67.102	
2,854.3	2,830.9	2,770.4	2,770.4	7.6	55.4	-153.42	-3,511.9	-1,547.7	4,061.4	3,999.7	61.73	65.796	
2,900.0	2,876.2	2,815.7	2,815.7	7.7	56.3	-153.50	-3,511.9	-1,547.7	4,066.2	4,003.4	62.81	64.737	
2,952.7	2,928.7	2,868.2	2,868.2	7.8	57.4	-153.57	-3,511.9	-1,547.7	4,071.0	4,007.0	64.05	63.560	
3,000.0	2,975.8	2,915.3	2,915.3	7.9	58.3	-153.63	-3,511.9	-1,547.7	4,074.6	4,009.5	65.15	62.542	
3,051.2	3,026.8	2,966.3	2,966.3	8.0	59.4	-153.68	-3,511.9	-1,547.7	4,077.7	4,011.4	66.32	61.481	
3,100.0	3,075.6	3,015.1	3,015.1	8.1	60.4	-153.71	-3,511.9	-1,547.7	4,079.8	4,012.4	67.43	60.504	
3,149.6	3,125.2	3,064.7	3,064.7	8.2	61.3	-153.73	-3,511.9	-1,547.7	4,081.3	4,012.8	68.54	59.549	
3,200.0	3,175.6	3,115.1	3,115.1	8.3	62.4	-153.75	-3,511.9	-1,547.7	4,082.0	4,012.3	69.64	58.611	
3,217.7	3,193.3	3,132.8	3,132.8	8.3	62.7	-158.03	-3,511.9	-1,547.7	4,082.0	4,012.0	70.03	58.293	
3,248.0	3,223.6	3,163.1	3,163.1	8.4	63.3	-158.03	-3,511.9	-1,547.7	4,082.0	4,011.3	70.69	57.744	
3,300.0	3,275.6	3,215.1	3,215.1	8.5	64.4	-158.03	-3,511.9	-1,547.7	4,082.0	4,010.2	71.83	56.825	
3,346.4	3,322.0	3,261.5	3,261.5	8.6	65.3	-158.03	-3,511.9	-1,547.7	4,082.0	4,009.2	72.86	56.022	
3,400.0	3,375.6	3,315.1	3,315.1	8.7	66.4	-158.03	-3,511.9	-1,547.7	4,082.0	4,008.0	74.05	55.123	
3,444.9	3,420.4	3,359.9	3,359.9	8.7	67.3	-158.03	-3,511.9	-1,547.7	4,082.0	4,007.0	75.05	54.392	
3,500.0	3,475.6	3,415.1	3,415.1	8.8	68.4	-158.03	-3,511.9	-1,547.7	4,082.0	4,005.7	76.27	53.520	
3,543.3	3,518.9	3,458.4	3,458.4	8.9	69.3	-158.03	-3,511.9	-1,547.7	4,082.0	4,004.8	77.23	52.854	
3,600.0	3,575.6	3,515.1	3,515.1	9.0	70.4	-158.03	-3,511.9	-1,547.7	4,082.0	4,003.5	78.49	52.007	
3,641.7	3,617.3	3,556.8	3,556.8	9.1	71.2	-158.03	-3,511.9	-1,547.7	4,082.0	4,002.6	79.42	51.400	
3,700.0	3,675.6	3,615.1	3,615.1	9.2	72.4	-158.03	-3,511.9	-1,547.7	4,082.0	4,001.3	80.71	50.576	
3,740.1	3,715.7	3,655.2	3,655.2	9.3	73.2	-158.03	-3,511.9	-1,547.7	4,082.0	4,000.4	81.60	50.023	
3,800.0	3,775.6	3,715.1	3,715.1	9.4	74.4	-158.03	-3,511.9	-1,547.7	4,082.0	3,999.1	82.93	49.221	
3,838.6	3,814.1	3,753.6	3,753.6	9.5	75.2	-158.03	-3,511.9	-1,547.7	4,082.0	3,998.2	83.79	48.718	
3,900.0	3,875.6	3,815.1	3,815.1	9.6	76.4	-158.03	-3,511.9	-1,547.7	4,082.0	3,996.9	85.15	47.937	
3,937.0	3,912.6	3,852.1	3,852.1	9.7	77.2	-158.03	-3,511.9	-1,547.7	4,082.0	3,996.0	85.98	47.479	
4,000.0	3,975.6	3,915.1	3,915.1	9.8	78.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,994.6	87.38	46.718	
4,035.4	4,011.0	3,950.5	3,950.5	9.9	79.2	-158.03	-3,511.9	-1,547.7	4,082.0	3,993.9	88.16	46.300	
4,100.0	4,075.6	4,015.1	4,015.1	10.0	80.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,992.4	89.60	45.559	
4,133.8	4,109.4	4,048.9	4,048.9	10.0	81.1	-158.03	-3,511.9	-1,547.7	4,082.0	3,991.7	90.35	45.179	
4,200.0	4,175.6	4,115.1	4,115.1	10.2	82.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,990.2	91.82	44.455	
4,232.3	4,207.8	4,147.3	4,147.3	10.2	83.1	-158.03	-3,511.9	-1,547.7	4,082.0	3,989.5	92.54	44.110	
4,300.0	4,275.6	4,215.1	4,215.1	10.4	84.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,988.0	94.05	43.404	
4,330.7	4,306.3	4,245.8	4,245.8	10.4	85.1	-158.03	-3,511.9	-1,547.7	4,082.0	3,987.3	94.73	43.091	
4,400.0	4,375.6	4,315.1	4,315.1	10.6	86.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,985.7	96.27	42.401	
4,429.1	4,404.7	4,344.2	4,344.2	10.6	87.1	-158.03	-3,511.9	-1,547.7	4,082.0	3,985.1	96.92	42.117	
4,500.0	4,475.6	4,415.1	4,415.1	10.8	88.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,983.5	98.50	41.443	
4,527.5	4,503.1	4,442.6	4,442.6	10.8	89.1	-158.03	-3,511.9	-1,547.7	4,082.0	3,982.9	99.11	41.187	
4,600.0	4,575.6	4,515.1	4,515.1	11.0	90.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,981.3	100.72	40.527	
4,626.0	4,601.5	4,541.0	4,541.0	11.0	91.0	-158.03	-3,511.9	-1,547.7	4,082.0	3,980.7	101.30	40.296	
4,700.0	4,675.6	4,615.1	4,615.1	11.2	92.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,979.1	102.95	39.651	
4,724.4	4,700.0	4,639.5	4,639.5	11.2	93.0	-158.03	-3,511.9	-1,547.7	4,082.0	3,978.5	103.49	39.443	
4,800.0	4,775.6	4,715.1	4,715.1	11.4	94.5	-158.03	-3,511.9	-1,547.7	4,082.0	3,976.8	105.18	38.811	
4,822.8	4,798.4	4,737.9	4,737.9	11.4	95.0	-158.03	-3,511.9	-1,547.7	4,082.0	3,976.3	105.68	38.625	
4,900.0	4,875.6	4,815.1	4,815.1	11.6	96.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,974.6	107.40	38.007	
4,921.2	4,896.8	4,836.3	4,836.3	11.6	97.0	-158.03	-3,511.9	-1,547.7	4,082.0	3,974.1	107.88	37.840	
5,000.0	4,975.6	4,915.1	4,915.1	11.8	98.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,972.4	109.63	37.235	
5,019.7	4,995.2	4,934.7	4,934.7	11.8	99.0	-158.03	-3,511.9	-1,547.7	4,082.0	3,971.9	110.07	37.086	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-INC													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		
5,100.0	5,075.6	5,015.1	5,015.1	12.0	100.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,970.2	111.86	36.493		
5,118.1	5,093.7	5,033.2	5,033.2	12.0	100.9	-158.03	-3,511.9	-1,547.7	4,082.0	3,969.8	112.26	36.362		
5,200.0	5,175.6	5,115.1	5,115.1	12.2	102.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,967.9	114.09	35.780		
5,216.5	5,192.1	5,131.6	5,131.6	12.2	102.9	-158.03	-3,511.9	-1,547.7	4,082.0	3,967.6	114.45	35.665		
5,300.0	5,275.6	5,215.1	5,215.1	12.4	104.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,965.7	116.31	35.095		
5,314.9	5,290.5	5,230.0	5,230.0	12.4	104.9	-158.03	-3,511.9	-1,547.7	4,082.0	3,965.4	116.65	34.995		
5,400.0	5,375.6	5,315.1	5,315.1	12.6	106.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,963.5	118.54	34.435		
5,413.4	5,388.9	5,328.4	5,328.4	12.6	106.9	-158.03	-3,511.9	-1,547.7	4,082.0	3,963.2	118.84	34.349		
5,500.0	5,475.6	5,415.1	5,415.1	12.8	108.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,961.2	120.77	33.800		
5,511.8	5,487.4	5,426.9	5,426.9	12.8	108.9	-158.03	-3,511.9	-1,547.7	4,082.0	3,961.0	121.03	33.726		
5,600.0	5,575.6	5,515.1	5,515.1	13.0	110.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,959.0	123.00	33.187		
5,610.2	5,585.8	5,525.3	5,525.3	13.0	110.8	-158.03	-3,511.9	-1,547.7	4,082.0	3,958.8	123.23	33.126		
5,700.0	5,675.6	5,615.1	5,615.1	13.2	112.6	-158.03	-3,511.9	-1,547.7	4,082.0	3,956.8	125.23	32.596		
5,708.6	5,684.2	5,623.7	5,623.7	13.2	112.8	-158.03	-3,511.9	-1,547.7	4,082.0	3,956.6	125.42	32.546		
5,800.0	5,775.6	5,715.1	5,715.1	13.4	114.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,954.6	127.46	32.026		
5,807.1	5,782.6	5,722.1	5,722.1	13.4	114.8	-158.03	-3,511.9	-1,547.7	4,082.0	3,954.4	127.62	31.987		
5,900.0	5,875.6	5,815.1	5,815.1	13.6	116.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,952.3	129.69	31.476		
5,905.5	5,881.1	5,820.6	5,820.6	13.6	116.8	-158.03	-3,511.9	-1,547.7	4,082.0	3,952.2	129.81	31.446		
6,000.0	5,975.6	5,915.1	5,915.1	13.8	118.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,950.1	131.92	30.944		
6,003.9	5,979.5	5,919.0	5,919.0	13.8	118.8	-158.03	-3,511.9	-1,547.7	4,082.0	3,950.0	132.01	30.923		
6,100.0	6,075.6	6,015.1	6,015.1	14.0	120.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,947.9	134.15	30.429		
6,102.3	6,077.9	6,017.4	6,017.4	14.0	120.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,947.8	134.20	30.417		
6,200.0	6,175.6	6,115.1	6,115.1	14.2	122.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,945.6	136.38	29.932		
6,200.8	6,176.3	6,115.8	6,115.8	14.2	122.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,945.6	136.40	29.928		
6,299.2	6,274.8	6,214.3	6,214.3	14.4	124.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,943.4	138.59	29.454		
6,300.0	6,275.6	6,215.1	6,215.1	14.4	124.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,943.4	138.61	29.450		
6,397.6	6,373.2	6,312.7	6,312.7	14.7	126.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,941.2	140.79	28.994		
6,400.0	6,375.6	6,315.1	6,315.1	14.7	126.7	-158.03	-3,511.9	-1,547.7	4,082.0	3,941.2	140.84	28.984		
6,436.2	6,411.8	6,351.3	6,351.3	14.7	127.4	-158.03	-3,511.9	-1,547.7	4,082.0	3,940.4	141.65	28.818		
6,450.0	6,425.6	6,365.1	6,365.1	14.8	127.7	21.76	-3,511.9	-1,547.7	4,081.9	3,940.0	141.92	28.761		
6,496.0	6,471.5	6,411.0	6,411.0	14.8	128.6	21.84	-3,511.9	-1,547.7	4,079.7	3,937.2	142.50	28.630		
6,500.0	6,475.5	6,415.0	6,415.0	14.8	128.7	21.85	-3,511.9	-1,547.7	4,079.4	3,936.9	142.52	28.622		
6,550.0	6,525.1	6,464.6	6,464.6	14.9	129.7	22.06	-3,511.9	-1,547.7	4,073.6	3,931.1	142.53	28.581		
6,594.5	6,568.7	6,508.2	6,508.2	14.9	130.6	22.34	-3,511.9	-1,547.7	4,065.9	3,923.8	142.03	28.627		
6,600.0	6,574.1	6,513.6	6,513.6	14.9	130.7	22.39	-3,511.9	-1,547.7	4,064.7	3,922.8	141.93	28.638		
6,650.0	6,622.4	6,561.9	6,561.9	14.9	131.7	22.84	-3,511.9	-1,547.7	4,052.6	3,911.9	140.76	28.792		
6,692.9	6,663.0	6,602.5	6,602.5	14.9	132.5	23.34	-3,511.9	-1,547.7	4,039.8	3,900.5	139.31	29.000		
6,700.0	6,669.6	6,609.1	6,609.1	14.9	132.6	23.43	-3,511.9	-1,547.7	4,037.5	3,898.4	139.03	29.041		
6,750.0	6,715.6	6,655.1	6,655.1	14.9	133.6	24.17	-3,511.9	-1,547.7	4,019.3	3,882.5	136.80	29.381		
6,791.3	6,752.5	6,692.0	6,692.0	14.9	134.3	24.91	-3,511.9	-1,547.7	4,002.1	3,867.4	134.62	29.728		
6,800.0	6,760.1	6,699.6	6,699.6	14.9	134.5	25.08	-3,511.9	-1,547.7	3,998.2	3,864.1	134.13	29.807		
6,850.0	6,802.9	6,742.4	6,742.4	14.9	135.3	26.18	-3,511.9	-1,547.7	3,974.3	3,843.2	131.15	30.304		
6,889.7	6,835.6	6,775.1	6,775.1	14.9	136.0	27.20	-3,511.9	-1,547.7	3,953.4	3,824.8	128.63	30.735		
6,900.0	6,843.8	6,783.3	6,783.3	14.9	136.1	27.49	-3,511.9	-1,547.7	3,947.7	3,819.8	127.97	30.848		
6,950.0	6,882.6	6,822.1	6,822.1	14.9	136.9	29.06	-3,511.9	-1,547.7	3,918.6	3,793.8	124.80	31.398		
6,988.2	6,910.7	6,850.2	6,850.2	15.0	137.5	30.44	-3,511.9	-1,547.7	3,894.8	3,772.3	122.54	31.784		
7,000.0	6,919.1	6,858.6	6,858.6	15.0	137.6	30.91	-3,511.9	-1,547.7	3,887.2	3,765.3	121.89	31.891		
7,050.0	6,953.1	6,892.6	6,892.6	15.0	138.3	33.11	-3,511.9	-1,547.7	3,853.5	3,733.9	119.54	32.236		
7,086.6	6,976.4	6,915.9	6,915.9	15.1	138.8	34.98	-3,511.9	-1,547.7	3,827.5	3,709.1	118.39	32.329		
7,100.0	6,984.5	6,924.0	6,924.0	15.1	139.0	35.72	-3,511.9	-1,547.7	3,817.7	3,699.6	118.13	32.319		
7,150.0	7,013.1	6,952.6	6,952.6	15.3	139.5	38.81	-3,511.9	-1,547.7	3,780.1	3,662.0	118.06	32.019		
7,185.0	7,031.4	6,970.9	6,970.9	15.4	139.9	41.31	-3,511.9	-1,547.7	3,752.8	3,633.7	119.02	31.531		

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HOW SAD C 18-31 - 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						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	
7,200.0	7,038.8	6,978.3	6,978.3	15.4	140.1	42.47	-3,511.9	-1,547.7	3,740.8	3,621.1	119.71	31.249	
7,250.0	7,061.4	7,000.9	7,000.9	15.6	140.5	46.79	-3,511.9	-1,547.7	3,700.1	3,576.8	123.33	30.003	
7,283.4	7,074.8	7,014.3	7,014.3	15.8	140.8	50.10	-3,511.9	-1,547.7	3,672.1	3,545.3	126.85	28.948	
7,300.0	7,080.9	7,020.4	7,020.4	15.9	140.9	51.87	-3,511.9	-1,547.7	3,658.1	3,529.2	128.89	28.381	
7,350.0	7,097.1	7,036.6	7,036.6	16.2	141.2	57.76	-3,511.9	-1,547.7	3,615.1	3,479.1	136.02	26.578	
7,381.9	7,105.7	7,045.2	7,045.2	16.4	141.4	61.96	-3,511.9	-1,547.7	3,587.3	3,446.3	141.02	25.439	
7,400.0	7,109.9	7,049.4	7,049.4	16.6	141.5	64.49	-3,511.9	-1,547.7	3,571.3	3,427.4	143.87	24.823	
7,450.0	7,119.4	7,058.9	7,058.9	17.0	141.7	71.96	-3,511.9	-1,547.7	3,526.9	3,375.7	151.25	23.318	
7,480.3	7,123.4	7,062.9	7,062.9	17.2	141.8	76.77	-3,511.9	-1,547.7	3,499.8	3,344.9	154.94	22.588	
7,500.0	7,125.4	7,064.9	7,064.9	17.4	141.8	79.96	-3,511.9	-1,547.7	3,482.1	3,325.3	156.85	22.201	
7,550.0	7,127.9	7,067.4	7,067.4	17.9	141.8	88.17	-3,511.9	-1,547.7	3,437.2	3,277.6	159.63	21.532	
7,562.9	7,128.0	7,067.5	7,067.5	18.0	141.8	90.26	-3,511.9	-1,547.7	3,425.7	3,265.9	159.84	21.432	
7,578.7	7,128.0	7,067.5	7,067.5	18.2	141.8	90.26	-3,511.9	-1,547.7	3,411.5	3,251.5	160.00	21.322	
7,600.0	7,127.9	7,067.4	7,067.4	18.4	141.8	90.26	-3,511.9	-1,547.7	3,392.4	3,232.2	160.22	21.174	
7,677.1	7,127.7	7,067.2	7,067.2	19.2	141.8	90.25	-3,511.9	-1,547.7	3,323.6	3,162.5	161.08	20.633	
7,700.0	7,127.7	7,067.2	7,067.2	19.5	141.8	90.25	-3,511.9	-1,547.7	3,303.2	3,141.9	161.33	20.475	
7,775.6	7,127.5	7,067.0	7,067.0	20.3	141.8	90.25	-3,511.9	-1,547.7	3,236.2	3,074.1	162.13	19.961	
7,800.0	7,127.5	7,067.0	7,067.0	20.5	141.8	90.24	-3,511.9	-1,547.7	3,214.7	3,052.3	162.38	19.797	
7,874.0	7,127.3	7,066.8	7,066.8	21.4	141.8	90.24	-3,511.9	-1,547.7	3,149.6	2,986.3	163.24	19.294	
7,900.0	7,127.2	7,066.7	7,066.7	21.7	141.8	90.23	-3,511.9	-1,547.7	3,126.8	2,963.3	163.54	19.119	
7,972.4	7,127.1	7,066.6	7,066.6	22.7	141.8	90.23	-3,511.9	-1,547.7	3,063.6	2,899.1	164.55	18.618	
8,000.0	7,127.0	7,066.5	7,066.5	23.1	141.8	90.23	-3,511.9	-1,547.7	3,039.7	2,874.7	164.94	18.429	
8,070.8	7,126.8	7,066.3	7,066.3	24.2	141.8	90.22	-3,511.9	-1,547.7	2,978.4	2,812.5	165.98	17.945	
8,100.0	7,126.8	7,066.3	7,066.3	24.6	141.8	90.22	-3,511.9	-1,547.7	2,953.4	2,787.0	166.40	17.748	
8,169.3	7,126.6	7,066.1	7,066.1	25.6	141.8	90.21	-3,511.9	-1,547.7	2,894.1	2,726.6	167.46	17.282	
8,200.0	7,126.6	7,066.1	7,066.1	26.1	141.8	90.21	-3,511.9	-1,547.7	2,868.0	2,700.0	167.93	17.078	
8,267.7	7,126.4	7,065.9	7,065.9	27.2	141.8	90.20	-3,511.9	-1,547.7	2,810.7	2,641.7	169.00	16.632	
8,300.0	7,126.3	7,065.8	7,065.8	27.7	141.8	90.20	-3,511.9	-1,547.7	2,783.5	2,614.0	169.50	16.422	
8,366.1	7,126.2	7,065.7	7,065.7	28.8	141.8	90.19	-3,511.9	-1,547.7	2,728.2	2,557.7	170.57	15.995	
8,400.0	7,126.1	7,065.6	7,065.6	29.3	141.8	90.19	-3,511.9	-1,547.7	2,700.1	2,529.0	171.12	15.779	
8,464.5	7,126.0	7,065.5	7,065.5	30.4	141.8	90.19	-3,511.9	-1,547.7	2,646.9	2,474.7	172.18	15.373	
8,500.0	7,125.9	7,065.4	7,065.4	31.0	141.8	90.18	-3,511.9	-1,547.7	2,617.9	2,445.1	172.77	15.153	
8,563.0	7,125.7	7,065.2	7,065.2	32.0	141.8	90.18	-3,511.9	-1,547.7	2,566.8	2,393.0	173.82	14.767	
8,600.0	7,125.6	7,065.1	7,065.1	32.6	141.8	90.17	-3,511.9	-1,547.7	2,537.0	2,362.5	174.45	14.543	
8,661.4	7,125.5	7,065.0	7,065.0	33.7	141.8	90.17	-3,511.9	-1,547.7	2,488.0	2,312.5	175.49	14.177	
8,700.0	7,125.4	7,064.9	7,064.9	34.4	141.8	90.17	-3,511.9	-1,547.7	2,457.4	2,281.3	176.15	13.951	
8,759.8	7,125.3	7,064.8	7,064.8	35.4	141.8	90.16	-3,511.9	-1,547.7	2,410.6	2,233.4	177.18	13.605	
8,800.0	7,125.2	7,064.7	7,064.7	36.1	141.8	90.16	-3,511.9	-1,547.7	2,379.4	2,201.6	177.87	13.377	
8,858.2	7,125.1	7,064.6	7,064.6	37.1	141.8	90.15	-3,511.9	-1,547.7	2,334.8	2,155.9	178.89	13.052	
8,900.0	7,125.0	7,064.5	7,064.5	37.8	141.8	90.15	-3,511.9	-1,547.7	2,303.2	2,123.5	179.62	12.823	
8,956.7	7,124.8	7,064.3	7,064.3	38.8	141.8	90.14	-3,511.9	-1,547.7	2,260.7	2,080.1	180.61	12.517	
9,000.0	7,124.7	7,064.2	7,064.2	39.6	141.8	90.14	-3,511.9	-1,547.7	2,228.7	2,047.4	181.38	12.288	
9,055.1	7,124.6	7,064.1	7,064.1	40.6	141.8	90.14	-3,511.9	-1,547.7	2,188.6	2,006.3	182.35	12.002	
9,100.0	7,124.5	7,064.0	7,064.0	41.4	141.8	90.13	-3,511.9	-1,547.7	2,156.4	1,973.2	183.15	11.774	
9,153.5	7,124.4	7,063.9	7,063.9	42.3	141.8	90.13	-3,511.9	-1,547.7	2,118.6	1,934.5	184.10	11.508	
9,200.0	7,124.3	7,063.8	7,063.8	43.2	141.8	90.12	-3,511.9	-1,547.7	2,086.3	1,901.4	184.93	11.282	
9,251.9	7,124.2	7,063.7	7,063.7	44.1	141.8	90.12	-3,511.9	-1,547.7	2,050.9	1,865.1	185.87	11.034	
9,300.0	7,124.1	7,063.6	7,063.6	45.0	141.8	90.11	-3,511.9	-1,547.7	2,018.8	1,832.1	186.73	10.811	
9,350.4	7,123.9	7,063.4	7,063.4	45.9	141.8	90.11	-3,511.9	-1,547.7	1,985.8	1,798.2	187.64	10.583	
9,400.0	7,123.8	7,063.3	7,063.3	46.8	141.8	90.11	-3,511.9	-1,547.7	1,954.1	1,765.5	188.53	10.364	
9,448.8	7,123.7	7,063.2	7,063.2	47.7	141.8	90.10	-3,511.9	-1,547.7	1,923.6	1,734.1	189.42	10.155	
9,500.0	7,123.6	7,063.1	7,063.1	48.6	141.8	90.10	-3,511.9	-1,547.7	1,892.4	1,702.0	190.35	9.942	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HOW SAD C 18-31 - 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						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	
9,547.2	7,123.5	7,063.0	7,063.0	49.4	141.8	90.09	-3,511.9	-1,547.7	1,864.4	1,673.2	191.21	9.751	
9,600.0	7,123.4	7,062.9	7,062.9	50.4	141.8	90.09	-3,511.9	-1,547.7	1,834.1	1,641.9	192.17	9.544	
9,645.6	7,123.3	7,062.8	7,062.8	51.2	141.8	90.08	-3,511.9	-1,547.7	1,808.7	1,615.7	193.00	9.371	
9,700.0	7,123.2	7,062.7	7,062.7	52.2	141.8	90.08	-3,511.9	-1,547.7	1,779.5	1,585.5	194.00	9.173	
9,744.1	7,123.1	7,062.6	7,062.6	53.1	141.8	90.08	-3,511.9	-1,547.7	1,756.7	1,561.9	194.80	9.018	
9,800.0	7,122.9	7,062.4	7,062.4	54.1	141.7	90.07	-3,511.9	-1,547.7	1,729.0	1,533.2	195.83	8.829	
9,842.5	7,122.8	7,062.3	7,062.3	54.9	141.7	90.07	-3,511.9	-1,547.7	1,708.8	1,512.2	196.61	8.691	
9,900.0	7,122.7	7,062.2	7,062.2	55.9	141.7	90.06	-3,511.9	-1,547.7	1,682.9	1,485.2	197.67	8.514	
9,940.9	7,122.6	7,062.1	7,062.1	56.7	141.7	90.06	-3,511.9	-1,547.7	1,665.4	1,467.0	198.42	8.393	
10,000.0	7,122.5	7,062.0	7,062.0	57.8	141.7	90.05	-3,511.9	-1,547.7	1,641.6	1,442.1	199.51	8.228	
10,039.3	7,122.4	7,061.9	7,061.9	58.5	141.7	90.05	-3,511.9	-1,547.7	1,626.8	1,426.5	200.24	8.124	
10,100.0	7,122.3	7,061.8	7,061.8	59.6	141.7	90.05	-3,511.9	-1,547.7	1,605.5	1,404.2	201.36	7.973	
10,137.8	7,122.2	7,061.7	7,061.7	60.3	141.7	90.04	-3,511.9	-1,547.7	1,593.3	1,391.2	202.06	7.885	
10,200.0	7,122.0	7,061.5	7,061.5	61.5	141.7	90.04	-3,511.9	-1,547.7	1,574.9	1,371.7	203.22	7.750	
10,236.2	7,121.9	7,061.4	7,061.4	62.2	141.7	90.03	-3,511.9	-1,547.7	1,565.3	1,361.4	203.89	7.677	
10,300.0	7,121.8	7,061.3	7,061.3	63.3	141.7	90.03	-3,511.9	-1,547.7	1,550.2	1,345.2	205.07	7.559	
10,334.6	7,121.7	7,061.2	7,061.2	64.0	141.7	90.03	-3,511.9	-1,547.7	1,543.1	1,337.4	205.72	7.501	
10,400.0	7,121.6	7,061.1	7,061.1	65.2	141.7	90.02	-3,511.9	-1,547.7	1,531.7	1,324.7	206.93	7.402	
10,433.0	7,121.5	7,061.0	7,061.0	65.8	141.7	90.02	-3,511.9	-1,547.7	1,526.9	1,319.4	207.55	7.357	
10,500.0	7,121.4	7,060.9	7,060.9	67.1	141.7	90.01	-3,511.9	-1,547.7	1,519.5	1,310.7	208.80	7.277	
10,531.5	7,121.3	7,060.8	7,060.8	67.7	141.7	90.01	-3,511.9	-1,547.7	1,517.0	1,307.6	209.38	7.245	
10,600.0	7,121.1	7,060.6	7,060.6	69.0	141.7	90.00	-3,511.9	-1,547.7	1,513.8	1,303.1	210.66	7.186	
10,629.9	7,121.1	7,060.6	7,060.6	69.5	141.7	90.00	-3,511.9	-1,547.7	1,513.4	1,302.1	211.22	7.165	
10,636.2	7,121.0	7,060.5	7,060.5	69.6	141.7	90.00	-3,511.9	-1,547.7	1,513.3	1,302.0	211.34	7.161 CC, ES	
10,700.0	7,120.9	7,060.4	7,060.4	70.8	141.7	89.99	-3,511.9	-1,547.7	1,514.7	1,302.2	212.53	7.127	
10,728.3	7,120.8	7,060.3	7,060.3	71.4	141.7	89.99	-3,511.9	-1,547.7	1,516.1	1,303.1	213.06	7.116	
10,800.0	7,120.7	7,060.2	7,060.2	72.7	141.7	89.99	-3,511.9	-1,547.7	1,522.2	1,307.8	214.40	7.100	
10,826.7	7,120.6	7,060.1	7,060.1	73.2	141.7	89.98	-3,511.9	-1,547.7	1,525.3	1,310.4	214.90	7.098 SF	
10,900.0	7,120.5	7,060.0	7,060.0	74.6	141.7	89.98	-3,511.9	-1,547.7	1,536.2	1,319.9	216.27	7.103	
10,925.2	7,120.4	7,059.9	7,059.9	75.1	141.7	89.98	-3,511.9	-1,547.7	1,540.7	1,323.9	216.75	7.108	
11,000.0	7,120.2	7,059.7	7,059.7	76.5	141.7	89.97	-3,511.9	-1,547.7	1,556.5	1,338.3	218.15	7.135	
11,023.6	7,120.2	7,059.7	7,059.7	76.9	141.7	89.97	-3,511.9	-1,547.7	1,562.2	1,343.6	218.59	7.146	
11,100.0	7,120.0	7,059.5	7,059.5	78.3	141.7	89.96	-3,511.9	-1,547.7	1,582.8	1,362.8	220.03	7.194	
11,122.0	7,120.0	7,059.5	7,059.5	78.8	141.7	89.96	-3,511.9	-1,547.7	1,589.4	1,369.0	220.44	7.210	
11,200.0	7,119.8	7,059.3	7,059.3	80.2	141.7	89.95	-3,511.9	-1,547.7	1,615.0	1,393.1	221.91	7.278	
11,220.4	7,119.7	7,059.2	7,059.2	80.6	141.7	89.95	-3,511.9	-1,547.7	1,622.2	1,399.9	222.29	7.298	
11,300.0	7,119.5	7,059.0	7,059.0	82.1	141.7	89.94	-3,511.9	-1,547.7	1,652.5	1,428.8	223.79	7.384	
11,318.9	7,119.5	7,059.0	7,059.0	82.5	141.7	89.94	-3,511.9	-1,547.7	1,660.2	1,436.1	224.14	7.407	
11,400.0	7,119.3	7,058.8	7,058.8	84.0	141.7	89.93	-3,511.9	-1,547.7	1,695.2	1,469.5	225.67	7.512	
11,417.3	7,119.3	7,058.8	7,058.8	84.3	141.7	89.93	-3,511.9	-1,547.7	1,703.1	1,477.1	226.00	7.536	
11,500.0	7,119.1	7,058.6	7,058.6	85.9	141.7	89.93	-3,511.9	-1,547.7	1,742.5	1,515.0	227.55	7.658	
11,515.7	7,119.1	7,058.6	7,058.6	86.2	141.7	89.93	-3,511.9	-1,547.7	1,750.4	1,522.5	227.85	7.682	
11,600.0	7,118.9	7,058.4	7,058.4	87.8	141.7	89.92	-3,511.9	-1,547.7	1,794.2	1,564.8	229.44	7.820	
11,614.1	7,118.8	7,058.3	7,058.3	88.0	141.7	89.92	-3,511.9	-1,547.7	1,801.9	1,572.1	229.70	7.844	
11,700.0	7,118.6	7,058.1	7,058.1	89.7	141.7	89.91	-3,511.9	-1,547.7	1,849.9	1,618.5	231.32	7.997	
11,712.6	7,118.6	7,058.1	7,058.1	89.9	141.7	89.91	-3,511.9	-1,547.7	1,857.1	1,625.6	231.56	8.020	
11,800.0	7,118.4	7,057.9	7,057.9	91.6	141.7	89.90	-3,511.9	-1,547.7	1,909.1	1,675.9	233.21	8.186	
11,811.0	7,118.4	7,057.9	7,057.9	91.8	141.7	89.90	-3,511.9	-1,547.7	1,915.8	1,682.4	233.42	8.208	
11,900.0	7,118.2	7,057.7	7,057.7	93.4	141.7	89.89	-3,511.9	-1,547.7	1,971.7	1,736.6	235.10	8.386	
11,909.4	7,118.2	7,057.7	7,057.7	93.6	141.7	89.89	-3,511.9	-1,547.7	1,977.7	1,742.4	235.28	8.406	
12,000.0	7,118.0	7,057.5	7,057.5	95.3	141.6	89.88	-3,511.9	-1,547.7	2,037.2	1,800.2	236.99	8.596	
12,007.8	7,118.0	7,057.5	7,057.5	95.5	141.6	89.88	-3,511.9	-1,547.7	2,042.5	1,805.3	237.14	8.613	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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	
12,100.0	7,117.8	7,057.3	7,057.3	97.2	141.6	89.88	-3,511.9	-1,547.7	2,105.5	1,866.6	238.88	8.814	
12,106.3	7,117.7	7,057.2	7,057.2	97.4	141.6	89.87	-3,511.9	-1,547.7	2,109.8	1,870.8	239.00	8.828	
12,200.0	7,117.5	7,057.0	7,057.0	99.1	141.6	89.87	-3,511.9	-1,547.7	2,176.2	1,935.4	240.77	9.038	
12,204.7	7,117.5	7,057.0	7,057.0	99.2	141.6	89.87	-3,511.9	-1,547.7	2,179.6	1,938.7	240.86	9.049	
12,300.0	7,117.3	7,056.8	7,056.8	101.0	141.6	89.86	-3,511.9	-1,547.7	2,249.1	2,006.5	242.67	9.268	
12,303.1	7,117.3	7,056.8	7,056.8	101.1	141.6	89.86	-3,511.9	-1,547.7	2,251.4	2,008.7	242.72	9.276	
12,400.0	7,117.1	7,056.6	7,056.6	102.9	141.6	89.85	-3,511.9	-1,547.7	2,324.1	2,079.5	244.56	9.503	
12,401.5	7,117.1	7,056.6	7,056.6	103.0	141.6	89.85	-3,511.9	-1,547.7	2,325.3	2,080.7	244.59	9.507	
12,500.0	7,116.9	7,056.4	7,056.4	104.8	141.6	89.84	-3,511.9	-1,547.7	2,400.9	2,154.4	246.45	9.742	
12,598.4	7,116.6	7,056.1	7,056.1	106.7	141.6	89.83	-3,511.9	-1,547.7	2,478.0	2,229.7	248.32	9.979	
12,600.0	7,116.6	7,056.1	7,056.1	106.7	141.6	89.83	-3,511.9	-1,547.7	2,479.3	2,230.9	248.35	9.983	
12,696.8	7,116.4	7,055.9	7,055.9	108.6	141.6	89.82	-3,511.9	-1,547.7	2,556.7	2,306.5	250.18	10.219	
12,700.0	7,116.4	7,055.9	7,055.9	108.6	141.6	89.82	-3,511.9	-1,547.7	2,559.2	2,309.0	250.24	10.227	
12,795.2	7,116.2	7,055.7	7,055.7	110.4	141.6	89.82	-3,511.9	-1,547.7	2,636.6	2,384.6	252.05	10.461	
12,800.0	7,116.2	7,055.7	7,055.7	110.5	141.6	89.82	-3,511.9	-1,547.7	2,640.5	2,388.4	252.14	10.472	
12,893.7	7,116.0	7,055.5	7,055.5	112.3	141.6	89.81	-3,511.9	-1,547.7	2,717.8	2,463.9	253.92	10.704	
12,900.0	7,116.0	7,055.5	7,055.5	112.4	141.6	89.81	-3,511.9	-1,547.7	2,723.1	2,469.0	254.04	10.719	
12,992.1	7,115.7	7,055.2	7,055.2	114.2	141.6	89.80	-3,511.9	-1,547.7	2,800.1	2,544.3	255.78	10.947	
13,000.0	7,115.7	7,055.2	7,055.2	114.3	141.6	89.80	-3,511.9	-1,547.7	2,806.8	2,550.8	255.93	10.967	
13,090.5	7,115.5	7,055.0	7,055.0	116.1	141.6	89.79	-3,511.9	-1,547.7	2,883.4	2,625.8	257.65	11.191	
13,100.0	7,115.5	7,055.0	7,055.0	116.2	141.6	89.79	-3,511.9	-1,547.7	2,891.5	2,633.7	257.83	11.215	
13,188.9	7,115.3	7,054.8	7,054.8	117.9	141.6	89.78	-3,511.9	-1,547.7	2,967.6	2,708.1	259.52	11.435	
13,200.0	7,115.3	7,054.8	7,054.8	118.1	141.6	89.78	-3,511.9	-1,547.7	2,977.2	2,717.4	259.73	11.462	
13,287.4	7,115.1	7,054.6	7,054.6	119.8	141.6	89.77	-3,511.9	-1,547.7	3,052.7	2,791.3	261.39	11.679	
13,300.0	7,115.1	7,054.6	7,054.6	120.0	141.6	89.77	-3,511.9	-1,547.7	3,063.7	2,802.1	261.63	11.710	
13,385.8	7,114.9	7,054.4	7,054.4	121.7	141.6	89.77	-3,511.9	-1,547.7	3,138.6	2,875.3	263.26	11.922	
13,400.0	7,114.8	7,054.3	7,054.3	121.9	141.6	89.77	-3,511.9	-1,547.7	3,151.0	2,887.5	263.53	11.957	
13,484.2	7,114.6	7,054.1	7,054.1	123.6	141.6	89.76	-3,511.9	-1,547.7	3,225.2	2,960.0	265.13	12.164	
13,500.0	7,114.6	7,054.1	7,054.1	123.9	141.6	89.76	-3,511.9	-1,547.7	3,239.1	2,973.7	265.43	12.203	
13,582.6	7,114.4	7,053.9	7,053.9	125.4	141.6	89.75	-3,511.9	-1,547.7	3,312.4	3,045.4	267.00	12.406	
13,600.0	7,114.4	7,053.9	7,053.9	125.8	141.6	89.75	-3,511.9	-1,547.7	3,327.8	3,060.5	267.33	12.448	
13,681.1	7,114.2	7,053.7	7,053.7	127.3	141.6	89.74	-3,511.9	-1,547.7	3,400.2	3,131.4	268.87	12.646	
13,700.0	7,114.2	7,053.7	7,053.7	127.7	141.6	89.74	-3,511.9	-1,547.7	3,417.2	3,148.0	269.23	12.692	
13,779.5	7,114.0	7,053.5	7,053.5	129.2	141.6	89.73	-3,511.9	-1,547.7	3,488.7	3,217.9	270.74	12.886	
13,800.0	7,113.9	7,053.4	7,053.4	129.6	141.6	89.73	-3,511.9	-1,547.7	3,507.1	3,236.0	271.13	12.935	
13,877.9	7,113.8	7,053.3	7,053.3	131.1	141.6	89.73	-3,511.9	-1,547.7	3,577.6	3,305.0	272.61	13.123	
13,900.0	7,113.7	7,053.2	7,053.2	131.5	141.6	89.72	-3,511.9	-1,547.7	3,597.6	3,324.6	273.03	13.176	
13,976.3	7,113.5	7,053.0	7,053.0	132.9	141.6	89.72	-3,511.9	-1,547.7	3,667.0	3,392.5	274.49	13.360	
14,000.0	7,113.5	7,053.0	7,053.0	133.4	141.6	89.72	-3,511.9	-1,547.7	3,688.6	3,413.6	274.94	13.416	
14,074.8	7,113.3	7,052.8	7,052.8	134.8	141.6	89.71	-3,511.9	-1,547.7	3,756.9	3,480.5	276.36	13.594	
14,100.0	7,113.3	7,052.8	7,052.8	135.3	141.6	89.71	-3,511.9	-1,547.7	3,780.0	3,503.2	276.84	13.654	
14,173.2	7,113.1	7,052.6	7,052.6	136.7	141.6	89.70	-3,511.9	-1,547.7	3,847.2	3,569.0	278.23	13.827	
14,200.0	7,113.0	7,052.5	7,052.5	137.2	141.5	89.70	-3,511.9	-1,547.7	3,871.8	3,593.1	278.74	13.890	
14,219.1	7,113.0	7,052.5	7,052.5	137.6	141.5	89.70	-3,511.9	-1,547.7	3,889.5	3,610.3	279.11	13.935	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - 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)	+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	-163.42	-655.8	-195.2	684.7				
98.4	98.4	71.0	71.0	0.1	0.1	-163.40	-655.7	-195.4	684.2	684.0	0.14	4,756.770	
100.0	100.0	72.6	72.6	0.1	0.1	-163.40	-655.7	-195.4	684.2	684.0	0.15	4,664.517	
196.8	196.8	172.7	172.7	0.3	0.2	-163.33	-655.2	-196.2	684.0	683.5	0.48	1,422.614	
200.0	200.0	176.0	176.0	0.3	0.2	-163.33	-655.2	-196.3	684.0	683.5	0.49	1,389.321	
295.3	295.3	268.3	268.3	0.5	0.3	-163.28	-654.7	-196.7	683.6	682.8	0.78	873.527	
300.0	300.0	272.8	272.8	0.5	0.3	-163.28	-654.7	-196.7	683.6	682.8	0.80	858.727	
393.7	393.7	369.5	369.5	0.8	0.3	-163.22	-654.4	-197.3	683.5	682.4	1.07	641.354	
400.0	400.0	376.3	376.3	0.8	0.3	-163.21	-654.3	-197.4	683.5	682.4	1.08	630.556	
492.1	492.1	472.4	472.4	1.0	0.4	-163.14	-653.3	-198.0	682.6	681.3	1.35	506.915	
500.0	500.0	480.5	480.5	1.0	0.4	-163.13	-653.2	-198.0	682.6	681.2	1.37	498.566	
590.5	590.5	576.1	576.1	1.2	0.4	-163.09	-651.6	-198.1	681.2	679.6	1.63	418.439	
600.0	600.0	586.2	586.1	1.2	0.5	-163.08	-651.4	-198.2	681.0	679.3	1.65	411.485	
689.0	689.0	672.7	672.6	1.4	0.5	-162.99	-649.5	-198.6	679.3	677.4	1.90	357.536	
700.0	700.0	683.2	683.1	1.4	0.5	-162.98	-649.3	-198.7	679.1	677.2	1.93	351.861	
787.4	787.4	772.8	772.7	1.6	0.6	-162.89	-647.6	-199.4	677.7	675.5	2.17	312.390	
800.0	800.0	785.9	785.8	1.7	0.6	-162.87	-647.3	-199.5	677.4	675.2	2.20	307.389	
885.8	885.8	871.0	870.8	1.9	0.6	-162.80	-645.4	-199.8	675.8	673.3	2.44	277.385	
900.0	900.0	884.9	884.8	1.9	0.6	-162.79	-645.2	-199.8	675.5	673.0	2.47	272.988	
984.2	984.2	964.3	964.2	2.1	0.6	-162.74	-643.8	-200.0	674.2	671.5	2.70	249.864	
1,000.0	1,000.0	979.0	978.9	2.1	0.7	-162.73	-643.7	-200.1	674.1	671.3	2.74	246.001	
1,082.7	1,082.7	1,060.5	1,060.4	2.3	0.7	-162.70	-642.9	-200.3	673.4	670.5	2.96	227.582	
1,100.0	1,100.0	1,077.9	1,077.8	2.3	0.7	-162.69	-642.8	-200.4	673.3	670.3	3.00	224.063	
1,181.1	1,181.1	1,160.2	1,160.0	2.5	0.7	-162.64	-641.9	-200.7	672.6	669.4	3.22	208.989	
1,200.0	1,200.0	1,179.4	1,179.3	2.6	0.7	-162.63	-641.7	-200.7	672.4	669.2	3.27	205.759	
1,279.5	1,279.5	1,258.7	1,258.6	2.7	0.8	-162.61	-640.9	-200.7	671.6	668.1	3.48	193.089	
1,300.0	1,300.0	1,279.0	1,278.9	2.8	0.8	-162.61	-640.7	-200.7	671.4	667.9	3.53	190.068	
1,327.2	1,327.2	1,305.8	1,305.7	2.9	0.8	-158.32	-640.4	-200.7	671.3	667.7	3.61	185.935	
1,377.9	1,377.9	1,354.4	1,354.2	3.0	0.8	-158.34	-640.1	-200.6	671.8	668.0	3.74	179.637	
1,400.0	1,400.0	1,375.5	1,375.3	3.0	0.8	-158.36	-640.0	-200.6	672.3	668.5	3.80	177.100	
1,476.4	1,476.3	1,451.9	1,451.7	3.2	0.8	-158.46	-639.7	-200.4	675.5	671.5	3.99	169.173	
1,500.0	1,499.8	1,476.0	1,475.8	3.2	0.8	-158.50	-639.6	-200.4	676.8	672.7	4.05	166.972	
1,574.8	1,574.4	1,549.3	1,549.2	3.4	0.9	-158.62	-639.2	-200.6	682.2	677.9	4.25	160.539	
1,600.0	1,599.5	1,573.5	1,573.4	3.5	0.9	-158.66	-639.1	-200.7	684.5	680.2	4.32	158.597	
1,673.2	1,672.2	1,645.6	1,645.5	3.6	0.9	-158.83	-638.9	-201.1	692.4	687.9	4.51	153.414	
1,700.0	1,698.7	1,672.3	1,672.2	3.7	0.9	-158.90	-638.8	-201.2	695.7	691.1	4.59	151.720	
1,771.6	1,769.5	1,743.7	1,743.5	3.9	0.9	-159.13	-638.6	-201.4	705.7	701.0	4.78	147.572	
1,800.0	1,797.5	1,771.8	1,771.7	4.0	0.9	-159.23	-638.5	-201.5	710.2	705.3	4.86	146.126	
1,870.1	1,866.3	1,838.4	1,838.3	4.2	0.9	-159.49	-638.4	-201.5	722.3	717.2	5.05	143.043	
1,900.1	1,895.8	1,866.0	1,865.9	4.3	0.9	-159.61	-638.5	-201.4	728.0	722.9	5.13	141.997	
1,968.5	1,962.6	1,932.0	1,931.9	4.5	0.9	-160.01	-638.9	-201.3	741.8	736.5	5.31	139.815	
2,000.0	1,993.4	1,964.3	1,964.2	4.6	0.9	-160.20	-639.0	-201.1	748.0	742.6	5.39	138.833	
2,066.9	2,058.9	2,029.5	2,029.3	4.8	1.0	-160.60	-639.3	-200.6	761.3	755.7	5.57	136.663	
2,100.0	2,091.3	2,059.7	2,059.6	4.9	1.0	-160.78	-639.4	-200.4	767.9	762.2	5.66	135.756	
2,165.3	2,155.2	2,120.8	2,120.7	5.1	1.0	-161.13	-640.0	-200.0	781.3	775.4	5.83	133.951	
2,200.0	2,189.1	2,154.6	2,154.5	5.3	1.0	-161.31	-640.4	-199.9	788.4	782.5	5.93	132.968	
2,263.8	2,251.4	2,216.6	2,216.4	5.5	1.0	-161.63	-641.0	-199.9	801.6	795.5	6.10	131.306	
2,300.0	2,286.9	2,251.2	2,251.1	5.6	1.0	-161.80	-641.3	-199.9	809.1	802.9	6.20	130.414	
2,362.2	2,347.7	2,310.8	2,310.6	5.9	1.0	-162.09	-642.0	-199.9	822.1	815.7	6.38	128.948	
2,400.0	2,384.7	2,347.2	2,347.0	6.0	1.0	-162.26	-642.4	-199.8	830.0	823.6	6.48	128.086	
2,460.6	2,444.0	2,405.8	2,405.6	6.3	1.0	-162.53	-643.2	-199.9	842.8	836.2	6.65	126.760	
2,500.0	2,482.5	2,445.9	2,445.8	6.4	1.0	-162.70	-643.7	-199.9	851.1	844.4	6.76	125.948	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,559.0	2,540.3	2,506.1	2,506.0	6.6	1.0	-162.95	-644.2	-200.1	863.4	856.5	6.92	124.745	
2,600.0	2,580.3	2,547.2	2,547.0	6.8	1.0	-163.12	-644.5	-200.2	871.9	864.8	7.03	123.941	
2,617.6	2,597.5	2,564.9	2,564.7	6.9	1.0	-163.19	-644.6	-200.3	875.5	868.4	7.08	123.598	
2,657.5	2,636.6	2,604.9	2,604.7	7.0	1.0	-163.38	-644.8	-200.4	883.4	876.2	7.17	123.152	
2,700.0	2,678.4	2,647.2	2,647.0	7.2	1.0	-163.56	-645.0	-200.6	891.2	884.0	7.27	122.594	
2,755.9	2,733.5	2,702.9	2,702.7	7.3	1.0	-163.77	-645.1	-200.9	900.6	893.2	7.38	122.062	
2,800.0	2,777.0	2,744.8	2,744.6	7.4	1.0	-163.91	-645.2	-201.2	907.3	899.8	7.46	121.541	
2,854.3	2,830.9	2,796.5	2,796.3	7.6	1.1	-164.05	-645.5	-201.6	914.7	907.2	7.57	120.854	
2,900.0	2,876.2	2,841.7	2,841.5	7.7	1.1	-164.15	-645.8	-202.0	920.3	912.6	7.66	120.200	
2,952.7	2,928.7	2,894.1	2,894.0	7.8	1.1	-164.25	-646.1	-202.5	925.9	918.1	7.75	119.397	
3,000.0	2,975.8	2,944.6	2,944.4	7.9	1.1	-164.33	-646.4	-202.8	930.0	922.1	7.83	118.705	
3,051.2	3,026.8	2,999.9	2,999.7	8.0	1.1	-164.40	-646.5	-202.8	933.4	925.5	7.92	117.897	
3,100.0	3,075.6	3,050.3	3,050.1	8.1	1.1	-164.46	-646.4	-202.7	935.7	927.7	8.00	116.927	
3,149.6	3,125.2	3,100.0	3,099.8	8.2	1.1	-164.50	-646.3	-202.7	937.1	929.0	8.09	115.880	
3,200.0	3,175.6	3,148.8	3,148.6	8.3	1.1	-164.51	-646.2	-202.7	937.7	929.5	8.17	114.784	
3,217.7	3,193.3	3,165.5	3,165.3	8.3	1.1	-168.79	-646.1	-202.8	937.7	929.5	8.19	114.429	
3,248.0	3,223.6	3,193.9	3,193.8	8.4	1.1	-168.79	-646.2	-202.9	937.8	929.5	8.25	113.603	
3,300.0	3,275.6	3,244.9	3,244.7	8.5	1.1	-168.78	-646.3	-203.0	937.9	929.6	8.36	112.213	
3,346.4	3,322.0	3,290.6	3,290.4	8.6	1.1	-168.78	-646.5	-203.0	938.1	929.7	8.46	110.888	
3,400.0	3,375.6	3,348.0	3,347.8	8.7	1.1	-168.79	-646.7	-202.9	938.3	929.7	8.58	109.376	
3,444.9	3,420.4	3,396.9	3,396.7	8.7	1.1	-168.81	-646.6	-202.5	938.2	929.5	8.68	108.112	
3,500.0	3,475.6	3,450.8	3,450.7	8.8	1.1	-168.83	-646.5	-202.2	938.0	929.2	8.81	106.514	
3,543.3	3,518.9	3,493.0	3,492.8	8.9	1.1	-168.84	-646.5	-202.0	937.9	929.0	8.91	105.292	
3,587.9	3,563.5	3,536.2	3,536.0	9.0	1.1	-168.85	-646.5	-201.9	937.9	928.9	9.01	104.086	
3,600.0	3,575.6	3,547.9	3,547.7	9.0	1.1	-168.85	-646.5	-201.8	937.9	928.8	9.04	103.768	
3,641.7	3,617.3	3,588.2	3,588.0	9.1	1.1	-168.88	-646.6	-201.4	937.9	928.8	9.13	102.683	
3,700.0	3,675.6	3,644.8	3,644.6	9.2	1.1	-168.92	-646.9	-200.7	938.1	928.8	9.27	101.216	
3,740.1	3,715.7	3,683.9	3,683.7	9.3	1.2	-168.96	-647.2	-200.2	938.2	928.9	9.36	100.233	
3,800.0	3,775.6	3,742.9	3,742.7	9.4	1.2	-169.02	-647.7	-199.3	938.6	929.1	9.50	98.811	
3,838.6	3,814.1	3,781.1	3,780.9	9.5	1.2	-169.05	-648.0	-198.8	938.8	929.2	9.59	97.916	
3,900.0	3,875.6	3,846.4	3,846.2	9.6	1.2	-169.12	-648.5	-197.7	939.1	929.4	9.73	96.513	
3,937.0	3,912.6	3,887.0	3,886.7	9.7	1.2	-169.17	-648.7	-197.0	939.1	929.3	9.82	95.667	
4,000.0	3,975.6	3,948.8	3,948.6	9.8	1.2	-169.23	-648.7	-196.0	939.0	929.0	9.96	94.254	
4,012.0	3,987.6	3,960.3	3,960.1	9.8	1.2	-169.24	-648.8	-195.8	939.0	929.0	9.99	93.990	
4,035.4	4,011.0	3,982.7	3,982.4	9.9	1.2	-169.26	-648.8	-195.5	939.0	928.9	10.04	93.484	
4,100.0	4,075.6	4,044.8	4,044.6	10.0	1.2	-169.31	-649.1	-194.8	939.1	929.0	10.19	92.127	
4,133.8	4,109.4	4,077.5	4,077.3	10.0	1.2	-169.33	-649.3	-194.4	939.3	929.0	10.27	91.439	
4,200.0	4,175.6	4,143.2	4,142.9	10.2	1.2	-169.39	-649.9	-193.6	939.7	929.2	10.43	90.131	
4,232.3	4,207.8	4,175.6	4,175.4	10.2	1.2	-169.41	-650.1	-193.3	939.8	929.3	10.50	89.503	
4,300.0	4,275.6	4,245.9	4,245.6	10.4	1.2	-169.45	-650.5	-192.7	940.1	929.5	10.66	88.209	
4,330.7	4,306.3	4,278.3	4,278.0	10.4	1.2	-169.46	-650.6	-192.5	940.2	929.4	10.73	87.627	
4,400.0	4,375.6	4,345.7	4,345.5	10.6	1.3	-169.50	-650.8	-191.8	940.2	929.3	10.89	86.339	
4,429.1	4,404.7	4,373.1	4,372.8	10.6	1.3	-169.52	-651.0	-191.5	940.3	929.4	10.96	85.817	
4,500.0	4,475.6	4,443.2	4,442.9	10.8	1.3	-169.58	-651.5	-190.6	940.8	929.6	11.12	84.583	
4,527.5	4,503.1	4,471.3	4,471.0	10.8	1.3	-169.61	-651.8	-190.2	940.9	929.7	11.19	84.109	
4,600.0	4,575.6	4,543.1	4,542.8	11.0	1.3	-169.66	-652.2	-189.5	941.2	929.9	11.35	82.905	
4,626.0	4,601.5	4,568.3	4,568.0	11.0	1.3	-169.67	-652.4	-189.3	941.4	930.0	11.41	82.488	
4,700.0	4,675.6	4,643.3	4,643.0	11.2	1.3	-169.68	-652.9	-189.3	941.9	930.3	11.58	81.310	
4,724.4	4,700.0	4,668.9	4,668.6	11.2	1.3	-169.68	-653.0	-189.3	942.0	930.4	11.64	80.921	
4,800.0	4,775.6	4,743.5	4,743.2	11.4	1.3	-169.68	-653.3	-189.3	942.3	930.5	11.82	79.736	
4,822.8	4,798.4	4,765.2	4,764.9	11.4	1.3	-169.68	-653.4	-189.3	942.4	930.5	11.87	79.389	
4,900.0	4,875.6	4,839.5	4,839.2	11.6	1.3	-169.69	-654.1	-189.3	943.0	931.0	12.05	78.251	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,921.2	4,896.8	4,860.2	4,859.9	11.6	1.3	-169.69	-654.3	-189.3	943.3	931.2	12.10	77.945	
5,000.0	4,975.6	4,940.3	4,939.9	11.8	1.3	-169.69	-655.1	-189.4	944.0	931.8	12.29	76.841	
5,019.7	4,995.2	4,961.1	4,960.8	11.8	1.3	-169.69	-655.2	-189.5	944.2	931.9	12.33	76.568	
5,100.0	5,075.6	5,043.0	5,042.7	12.0	1.4	-169.66	-655.6	-190.1	944.7	932.1	12.52	75.454	
5,118.1	5,093.7	5,060.9	5,060.6	12.0	1.4	-169.65	-655.7	-190.2	944.8	932.2	12.56	75.207	
5,200.0	5,175.6	5,142.6	5,142.3	12.2	1.4	-169.64	-656.2	-190.4	945.3	932.5	12.76	74.108	
5,216.5	5,192.1	5,159.2	5,158.9	12.2	1.4	-169.64	-656.3	-190.5	945.4	932.6	12.79	73.889	
5,300.0	5,275.6	5,244.4	5,244.1	12.4	1.4	-169.62	-656.6	-190.9	945.8	932.8	12.99	72.796	
5,314.9	5,290.5	5,259.9	5,259.6	12.4	1.4	-169.62	-656.7	-191.0	945.9	932.9	13.03	72.601	
5,400.0	5,375.6	5,344.7	5,344.4	12.6	1.4	-169.61	-656.9	-191.2	946.1	932.9	13.23	71.513	
5,413.4	5,388.9	5,357.6	5,357.3	12.6	1.4	-169.61	-657.0	-191.2	946.2	932.9	13.26	71.346	
5,500.0	5,475.6	5,442.7	5,442.4	12.8	1.4	-169.60	-657.4	-191.4	946.7	933.2	13.47	70.297	
5,511.8	5,487.4	5,454.5	5,454.2	12.8	1.4	-169.59	-657.5	-191.5	946.7	933.3	13.49	70.157	
5,600.0	5,575.6	5,541.1	5,540.8	13.0	1.4	-169.55	-657.9	-192.3	947.3	933.6	13.70	69.128	
5,610.2	5,585.8	5,551.0	5,550.6	13.0	1.4	-169.55	-657.9	-192.4	947.4	933.7	13.73	69.011	
5,700.0	5,675.6	5,640.3	5,639.9	13.2	1.5	-169.49	-658.6	-193.5	948.2	934.3	13.94	68.009	
5,708.6	5,684.2	5,649.2	5,648.9	13.2	1.5	-169.48	-658.6	-193.6	948.3	934.3	13.96	67.913	
5,800.0	5,775.6	5,740.0	5,739.7	13.4	1.5	-169.44	-659.2	-194.4	949.0	934.8	14.18	66.916	
5,807.1	5,782.6	5,746.7	5,746.4	13.4	1.5	-169.44	-659.2	-194.4	949.0	934.8	14.20	66.841	
5,900.0	5,875.6	5,839.6	5,839.2	13.6	1.5	-169.37	-660.0	-195.8	950.0	935.6	14.42	65.880	
5,905.5	5,881.1	5,845.5	5,845.2	13.6	1.5	-169.36	-660.0	-195.9	950.1	935.7	14.43	65.823	
6,000.0	5,975.6	5,944.0	5,943.7	13.8	1.5	-169.31	-660.4	-196.8	950.6	936.0	14.66	64.843	
6,003.9	5,979.5	5,947.9	5,947.6	13.8	1.5	-169.31	-660.4	-196.8	950.6	936.0	14.67	64.803	
6,100.0	6,075.6	6,049.5	6,049.1	14.0	1.5	-169.26	-660.6	-197.8	951.0	936.1	14.90	63.843	
6,102.3	6,077.9	6,052.1	6,051.7	14.0	1.5	-169.25	-660.6	-197.8	951.0	936.1	14.90	63.820	
6,200.0	6,175.6	6,159.5	6,159.2	14.2	1.5	-169.20	-659.7	-198.6	950.3	935.1	15.13	62.818	
6,200.8	6,176.3	6,160.4	6,160.0	14.2	1.5	-169.20	-659.7	-198.6	950.3	935.1	15.13	62.810	
6,299.2	6,274.8	6,258.8	6,258.4	14.4	1.6	-169.11	-658.1	-199.8	948.9	933.6	15.36	61.791	
6,300.0	6,275.6	6,259.6	6,259.2	14.4	1.6	-169.11	-658.1	-199.8	948.9	933.6	15.36	61.783	
6,397.6	6,373.2	6,354.9	6,354.4	14.7	1.6	-168.99	-656.8	-201.6	948.0	932.4	15.59	60.818	
6,400.0	6,375.6	6,357.2	6,356.8	14.7	1.6	-168.98	-656.7	-201.6	947.9	932.4	15.59	60.795	
6,436.2	6,411.8	6,393.2	6,392.8	14.7	1.6	-168.94	-656.3	-202.3	947.6	931.9	15.68	60.446	
6,450.0	6,425.6	6,400.0	6,399.6	14.8	1.6	10.87	-656.2	-202.5	947.4	931.7	15.70	60.345	
6,496.0	6,471.5	6,443.6	6,443.1	14.8	1.6	10.98	-655.8	-203.3	944.9	929.1	15.80	59.812	
6,500.0	6,475.5	6,446.8	6,446.4	14.8	1.6	10.99	-655.8	-203.4	944.6	928.8	15.81	59.750	
6,550.0	6,525.1	6,487.8	6,487.3	14.9	1.6	11.18	-655.9	-204.1	938.8	922.8	15.97	58.789	
6,594.5	6,568.7	6,528.8	6,528.3	14.9	1.6	11.44	-656.4	-204.8	931.2	915.0	16.14	57.707	
6,600.0	6,574.1	6,534.2	6,533.7	14.9	1.6	11.48	-656.4	-204.9	930.0	913.9	16.16	57.560	
6,650.0	6,622.4	6,582.4	6,581.9	14.9	1.6	11.88	-657.0	-205.7	917.9	901.6	16.35	56.148	
6,692.9	6,663.0	6,622.6	6,622.1	14.9	1.6	12.33	-657.4	-206.3	905.0	888.5	16.50	54.844	
6,700.0	6,669.6	6,629.1	6,628.6	14.9	1.6	12.41	-657.5	-206.4	902.6	886.1	16.52	54.621	
6,750.0	6,715.6	6,674.3	6,673.9	14.9	1.6	13.08	-658.0	-207.2	884.1	867.4	16.68	53.017	
6,791.3	6,752.5	6,711.7	6,711.2	14.9	1.6	13.76	-658.5	-207.9	866.5	849.8	16.78	51.644	
6,800.0	6,760.1	6,720.0	6,719.5	14.9	1.6	13.93	-658.6	-208.1	862.6	845.8	16.80	51.348	
6,850.0	6,802.9	6,766.1	6,765.6	14.9	1.7	15.02	-659.0	-209.1	837.9	821.1	16.89	49.605	
6,889.7	6,835.6	6,800.0	6,799.5	14.9	1.7	16.07	-659.2	-209.9	816.3	799.3	16.95	48.168	
6,900.0	6,843.8	6,809.0	6,808.4	14.9	1.7	16.37	-659.2	-210.1	810.4	793.4	16.96	47.788	
6,950.0	6,882.6	6,846.6	6,846.0	14.9	1.7	17.97	-659.4	-210.9	780.1	763.1	17.00	45.896	
6,988.2	6,910.7	6,874.0	6,873.4	15.0	1.7	19.42	-659.7	-211.4	755.4	738.4	17.02	44.379	
7,000.0	6,919.1	6,882.2	6,881.7	15.0	1.7	19.91	-659.8	-211.5	747.5	730.5	17.03	43.896	
7,050.0	6,953.1	6,918.3	6,917.7	15.0	1.7	22.40	-660.2	-211.8	712.5	695.5	17.07	41.736	
7,086.6	6,976.4	6,944.9	6,944.3	15.1	1.7	24.68	-660.4	-212.0	685.5	668.4	17.13	40.017	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,100.0	6,984.5	6,954.1	6,953.6	15.1	1.7	25.62	-660.4	-212.0	675.4	658.2	17.16	39.360	
7,150.0	7,013.1	6,986.4	6,985.8	15.3	1.7	29.70	-660.5	-212.1	636.1	618.8	17.31	36.744	
7,185.0	7,031.4	7,000.0	6,999.5	15.4	1.7	32.66	-660.4	-212.1	607.7	590.2	17.45	34.817	
7,200.0	7,038.8	7,000.0	6,999.5	15.4	1.7	33.59	-660.4	-212.1	595.4	577.9	17.50	34.020	
7,250.0	7,061.4	7,000.0	6,999.5	15.6	1.7	36.94	-660.4	-212.1	554.2	536.5	17.72	31.279	
7,283.4	7,074.8	7,000.0	6,999.5	15.8	1.7	39.36	-660.4	-212.1	526.6	508.7	17.91	29.398	
7,300.0	7,080.9	7,000.0	6,999.5	15.9	1.7	40.61	-660.4	-212.1	513.0	494.9	18.02	28.469	
7,350.0	7,097.1	7,000.0	6,999.5	16.2	1.7	44.55	-660.4	-212.1	471.7	453.3	18.39	25.652	
7,381.9	7,105.7	7,000.0	6,999.5	16.4	1.7	47.17	-660.4	-212.1	445.6	426.9	18.66	23.879	
7,400.0	7,109.9	7,000.0	6,999.5	16.6	1.7	48.69	-660.4	-212.1	430.8	412.0	18.82	22.896	
7,450.0	7,119.4	7,000.0	6,999.5	17.0	1.7	52.91	-660.4	-212.1	390.5	371.2	19.27	20.261	
7,480.3	7,123.4	7,000.0	6,999.5	17.2	1.7	55.44	-660.4	-212.1	366.6	347.0	19.56	18.739	
7,500.0	7,125.4	7,000.0	6,999.5	17.4	1.7	57.05	-660.4	-212.1	351.3	331.5	19.74	17.793	
7,550.0	7,127.9	7,000.0	6,999.5	17.9	1.7	60.95	-660.4	-212.1	313.8	293.6	20.21	15.526	
7,562.9	7,128.0	7,000.0	6,999.5	18.0	1.7	61.88	-660.4	-212.1	304.5	284.2	20.33	14.979	
7,578.7	7,128.0	7,000.0	6,999.5	18.2	1.7	61.88	-660.4	-212.1	293.4	272.9	20.47	14.330	
7,600.0	7,127.9	7,000.0	6,999.5	18.4	1.7	61.88	-660.4	-212.1	279.2	258.6	20.67	13.508	
7,677.1	7,127.7	7,000.0	6,999.5	19.2	1.7	61.88	-660.4	-212.1	236.9	215.5	21.45	11.047	
7,700.0	7,127.7	7,000.0	6,999.5	19.5	1.7	61.88	-660.4	-212.1	227.9	206.2	21.68	10.515	
7,775.6	7,127.5	7,000.0	6,999.5	20.3	1.7	61.88	-660.4	-212.1	213.4	191.0	22.40	9.528	
7,780.1	7,127.5	7,000.0	6,999.5	20.3	1.7	61.88	-660.4	-212.1	213.4	190.9	22.44	9.508 CC, ES	
7,800.0	7,127.5	7,000.0	6,999.5	20.5	1.7	61.88	-660.4	-212.1	214.3	191.7	22.63	9.469 SF	
7,874.0	7,127.3	7,000.0	6,999.5	21.4	1.7	61.88	-660.4	-212.1	233.1	209.7	23.41	9.959	
7,900.0	7,127.2	7,000.0	6,999.5	21.7	1.7	61.88	-660.4	-212.1	244.7	221.1	23.68	10.336	
7,972.4	7,127.1	7,000.0	6,999.5	22.7	1.7	61.88	-660.4	-212.1	287.2	262.7	24.59	11.682	
8,000.0	7,127.0	7,000.0	6,999.5	23.1	1.7	61.88	-660.4	-212.1	306.4	281.5	24.94	12.287	
8,070.8	7,126.8	7,000.0	6,999.5	24.2	1.7	61.88	-660.4	-212.1	360.6	334.8	25.87	13.939	
8,100.0	7,126.8	7,000.0	6,999.5	24.6	1.7	61.88	-660.4	-212.1	384.5	358.3	26.26	14.645	
8,169.3	7,126.6	7,000.0	6,999.5	25.6	1.7	61.88	-660.4	-212.1	443.8	416.6	27.21	16.312	
8,200.0	7,126.6	7,000.0	6,999.5	26.1	1.7	61.88	-660.4	-212.1	471.0	443.4	27.63	17.047	
8,267.7	7,126.4	7,000.0	6,999.5	27.2	1.7	61.88	-660.4	-212.1	532.2	503.6	28.59	18.617	
8,300.0	7,126.3	7,000.0	6,999.5	27.7	1.7	61.89	-660.4	-212.1	562.0	532.9	29.05	19.348	
8,366.1	7,126.2	7,000.0	6,999.5	28.8	1.7	61.89	-660.4	-212.1	623.6	593.6	30.01	20.784	
8,400.0	7,126.1	7,000.0	6,999.5	29.3	1.7	61.89	-660.4	-212.1	655.6	625.1	30.50	21.495	
8,464.5	7,126.0	7,000.0	6,999.5	30.4	1.7	61.89	-660.4	-212.1	716.9	685.5	31.46	22.791	
8,500.0	7,125.9	7,000.0	6,999.5	31.0	1.7	61.89	-660.4	-212.1	750.8	718.9	31.98	23.476	
8,563.0	7,125.7	7,000.0	6,999.5	32.0	1.7	61.89	-660.4	-212.1	811.4	778.5	32.93	24.638	
8,600.0	7,125.6	7,000.0	6,999.5	32.6	1.7	61.89	-660.4	-212.1	847.2	813.7	33.49	25.294	
8,661.4	7,125.5	7,000.0	6,999.5	33.7	1.7	61.89	-660.4	-212.1	906.7	872.3	34.43	26.332	
8,700.0	7,125.4	7,000.0	6,999.5	34.4	1.7	61.89	-660.4	-212.1	944.3	909.3	35.03	26.960	
8,759.8	7,125.3	7,000.0	6,999.5	35.4	1.7	61.89	-660.4	-212.1	1,002.7	966.7	35.96	27.886	
8,800.0	7,125.2	7,000.0	6,999.5	36.1	1.7	61.89	-660.4	-212.1	1,042.0	1,005.4	36.58	28.485	
8,858.2	7,125.1	7,000.0	6,999.5	37.1	1.7	61.89	-660.4	-212.1	1,099.0	1,061.6	37.49	29.313	
8,900.0	7,125.0	7,000.0	6,999.5	37.8	1.7	61.89	-660.4	-212.1	1,140.0	1,101.9	38.15	29.884	
8,956.7	7,124.8	7,000.0	6,999.5	38.8	1.7	61.89	-660.4	-212.1	1,195.8	1,156.7	39.05	30.624	
9,000.0	7,124.7	7,000.0	6,999.5	39.6	1.7	61.89	-660.4	-212.1	1,238.4	1,198.7	39.73	31.168	
9,055.1	7,124.6	7,000.0	6,999.5	40.6	1.7	61.89	-660.4	-212.1	1,292.7	1,252.1	40.61	31.830	
9,100.0	7,124.5	7,000.0	6,999.5	41.4	1.7	61.89	-660.4	-212.1	1,337.0	1,295.7	41.33	32.350	
9,153.5	7,124.4	7,000.0	6,999.5	42.3	1.7	61.89	-660.4	-212.1	1,389.9	1,347.7	42.19	32.943	
9,200.0	7,124.3	7,000.0	6,999.5	43.2	1.7	61.89	-660.4	-212.1	1,435.8	1,392.9	42.94	33.440	
9,251.9	7,124.2	7,000.0	6,999.5	44.1	1.7	61.89	-660.4	-212.1	1,487.2	1,443.4	43.78	33.972	
9,300.0	7,124.1	7,000.0	6,999.5	45.0	1.7	61.89	-660.4	-212.1	1,534.8	1,490.2	44.56	34.447	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,350.4	7,123.9	7,000.0	6,999.5	45.9	1.7	61.89	-660.4	-212.1	1,584.7	1,539.3	45.37	34.925	
9,400.0	7,123.8	7,000.0	6,999.5	46.8	1.7	61.89	-660.4	-212.1	1,633.9	1,587.7	46.18	35.379	
9,448.8	7,123.7	7,000.0	6,999.5	47.7	1.7	61.89	-660.4	-212.1	1,682.3	1,635.3	46.98	35.809	
9,500.0	7,123.6	7,000.0	6,999.5	48.6	1.7	61.89	-660.4	-212.1	1,733.1	1,685.3	47.82	36.245	
9,547.2	7,123.5	7,000.0	6,999.5	49.4	1.7	61.89	-660.4	-212.1	1,779.9	1,731.4	48.59	36.631	
9,600.0	7,123.4	7,000.0	6,999.5	50.4	1.7	61.89	-660.4	-212.1	1,832.4	1,782.9	49.46	37.050	
9,645.6	7,123.3	7,000.0	6,999.5	51.2	1.7	61.89	-660.4	-212.1	1,877.7	1,827.5	50.21	37.398	
9,700.0	7,123.2	7,000.0	6,999.5	52.2	1.7	61.89	-660.4	-212.1	1,931.7	1,880.6	51.10	37.800	
9,744.1	7,123.1	7,000.0	6,999.5	53.1	1.7	61.89	-660.4	-212.1	1,975.5	1,923.7	51.83	38.114	
9,800.0	7,122.9	7,000.0	6,999.5	54.1	1.7	61.89	-660.4	-212.1	2,031.1	1,978.4	52.76	38.500	
9,842.5	7,122.8	7,000.0	6,999.5	54.9	1.7	61.89	-660.4	-212.1	2,073.4	2,019.9	53.46	38.783	
9,900.0	7,122.7	7,000.0	6,999.5	55.9	1.7	61.89	-660.4	-212.1	2,130.6	2,076.2	54.41	39.155	
9,940.9	7,122.6	7,000.0	6,999.5	56.7	1.7	61.89	-660.4	-212.1	2,171.3	2,116.2	55.09	39.411	
10,000.0	7,122.5	7,000.0	6,999.5	57.8	1.7	61.89	-660.4	-212.1	2,230.1	2,174.0	56.08	39.769	
10,039.3	7,122.4	7,000.0	6,999.5	58.5	1.7	61.89	-660.4	-212.1	2,269.3	2,212.6	56.73	40.000	
10,100.0	7,122.3	7,000.0	6,999.5	59.6	1.7	61.89	-660.4	-212.1	2,329.7	2,271.9	57.74	40.346	
10,137.8	7,122.2	7,000.0	6,999.5	60.3	1.7	61.89	-660.4	-212.1	2,367.3	2,308.9	58.37	40.554	
10,200.0	7,122.0	7,000.0	6,999.5	61.5	1.7	61.89	-660.4	-212.1	2,429.3	2,369.9	59.41	40.888	
10,236.2	7,121.9	7,000.0	6,999.5	62.2	1.7	61.89	-660.4	-212.1	2,465.3	2,405.3	60.02	41.076	
10,300.0	7,121.8	7,000.0	6,999.5	63.3	1.7	61.89	-660.4	-212.1	2,528.9	2,467.8	61.09	41.398	
10,334.6	7,121.7	7,000.0	6,999.5	64.0	1.7	61.89	-660.4	-212.1	2,563.4	2,501.7	61.67	41.568	
10,400.0	7,121.6	7,000.0	6,999.5	65.2	1.7	61.89	-660.4	-212.1	2,628.6	2,565.8	62.76	41.880	
10,433.0	7,121.5	7,000.0	6,999.5	65.8	1.7	61.89	-660.4	-212.1	2,661.5	2,598.2	63.32	42.033	
10,500.0	7,121.4	7,000.0	6,999.5	67.1	1.7	61.89	-660.4	-212.1	2,728.2	2,663.8	64.44	42.336	
10,531.5	7,121.3	7,000.0	6,999.5	67.7	1.7	61.89	-660.4	-212.1	2,759.6	2,694.7	64.97	42.474	
10,600.0	7,121.1	7,000.0	6,999.5	69.0	1.7	61.89	-660.4	-212.1	2,827.9	2,761.8	66.13	42.766	
10,629.9	7,121.1	7,000.0	6,999.5	69.5	1.7	61.89	-660.4	-212.1	2,857.8	2,791.1	66.63	42.891	
10,700.0	7,120.9	7,000.0	6,999.5	70.8	1.7	61.89	-660.4	-212.1	2,927.7	2,859.9	67.81	43.175	
10,728.3	7,120.8	7,000.0	6,999.5	71.4	1.7	61.89	-660.4	-212.1	2,955.9	2,887.6	68.29	43.286	
10,800.0	7,120.7	7,000.0	6,999.5	72.7	1.7	61.89	-660.4	-212.1	3,027.4	2,957.9	69.50	43.562	
10,826.7	7,120.6	7,000.0	6,999.5	73.2	1.7	61.89	-660.4	-212.1	3,054.1	2,984.2	69.95	43.662	
10,900.0	7,120.5	7,000.0	6,999.5	74.6	1.7	61.89	-660.4	-212.1	3,127.2	3,056.0	71.19	43.930	
10,925.2	7,120.4	7,000.0	6,999.5	75.1	1.7	61.89	-660.4	-212.1	3,152.3	3,080.7	71.61	44.019	
11,000.0	7,120.2	7,000.0	6,999.5	76.5	1.7	61.89	-660.4	-212.1	3,227.0	3,154.1	72.88	44.279	
11,023.6	7,120.2	7,000.0	6,999.5	76.9	1.7	61.89	-660.4	-212.1	3,250.5	3,177.2	73.28	44.359	
11,100.0	7,120.0	7,000.0	6,999.5	78.3	1.7	61.89	-660.4	-212.1	3,326.7	3,252.2	74.57	44.613	
11,122.0	7,120.0	7,000.0	6,999.5	78.8	1.7	61.89	-660.4	-212.1	3,348.7	3,273.8	74.94	44.684	
11,200.0	7,119.8	7,000.0	6,999.5	80.2	1.7	61.89	-660.4	-212.1	3,426.5	3,350.3	76.26	44.930	
11,220.4	7,119.7	7,000.0	6,999.5	80.6	1.7	61.89	-660.4	-212.1	3,446.9	3,370.3	76.61	44.993	
11,300.0	7,119.5	7,000.0	6,999.5	82.1	1.7	61.89	-660.4	-212.1	3,526.4	3,448.4	77.96	45.233	
11,318.9	7,119.5	7,000.0	6,999.5	82.5	1.7	61.89	-660.4	-212.1	3,545.2	3,466.9	78.28	45.289	
11,400.0	7,119.3	7,000.0	6,999.5	84.0	1.7	61.89	-660.4	-212.1	3,626.2	3,546.5	79.66	45.522	
11,417.3	7,119.3	7,000.0	6,999.5	84.3	1.7	61.89	-660.4	-212.1	3,643.4	3,563.5	79.95	45.571	
11,500.0	7,119.1	7,000.0	6,999.5	85.9	1.7	61.89	-660.4	-212.1	3,726.0	3,644.6	81.36	45.799	
11,515.7	7,119.1	7,000.0	6,999.5	86.2	1.7	61.89	-660.4	-212.1	3,741.7	3,660.1	81.62	45.841	
11,600.0	7,118.9	7,000.0	6,999.5	87.8	1.7	61.89	-660.4	-212.1	3,825.8	3,742.8	83.06	46.064	
11,614.1	7,118.8	7,000.0	6,999.5	88.0	1.7	61.89	-660.4	-212.1	3,840.0	3,756.7	83.30	46.100	
11,700.0	7,118.6	7,000.0	6,999.5	89.7	1.7	61.89	-660.4	-212.1	3,925.7	3,840.9	84.76	46.317	
11,712.6	7,118.6	7,000.0	6,999.5	89.9	1.7	61.89	-660.4	-212.1	3,938.2	3,853.3	84.97	46.348	
11,800.0	7,118.4	7,000.0	6,999.5	91.6	1.7	61.89	-660.4	-212.1	4,025.5	3,939.1	86.46	46.560	
11,811.0	7,118.4	7,000.0	6,999.5	91.8	1.7	61.89	-660.4	-212.1	4,036.5	3,949.9	86.65	46.586	
11,900.0	7,118.2	7,000.0	6,999.5	93.4	1.7	61.89	-660.4	-212.1	4,125.4	4,037.2	88.16	46.793	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,909.4	7,118.2	7,000.0	6,999.5	93.6	1.7	61.89	-660.4	-212.1	4,134.8	4,046.5	88.32	46.815	
12,000.0	7,118.0	7,000.0	6,999.5	95.3	1.7	61.89	-660.4	-212.1	4,225.3	4,135.4	89.87	47.017	
12,007.8	7,118.0	7,000.0	6,999.5	95.5	1.7	61.89	-660.4	-212.1	4,233.1	4,143.1	90.00	47.034	
12,100.0	7,117.8	7,000.0	6,999.5	97.2	1.7	61.89	-660.4	-212.1	4,325.2	4,233.6	91.57	47.232	
12,106.3	7,117.7	7,000.0	6,999.5	97.4	1.7	61.89	-660.4	-212.1	4,331.4	4,239.7	91.68	47.246	
12,200.0	7,117.5	7,000.0	6,999.5	99.1	1.7	61.89	-660.4	-212.1	4,425.0	4,331.8	93.28	47.439	
12,204.7	7,117.5	7,000.0	6,999.5	99.2	1.7	61.89	-660.4	-212.1	4,429.7	4,336.4	93.36	47.449	
12,300.0	7,117.3	7,000.0	6,999.5	101.0	1.7	61.89	-660.4	-212.1	4,524.9	4,429.9	94.98	47.638	
12,303.1	7,117.3	7,000.0	6,999.5	101.1	1.7	61.89	-660.4	-212.1	4,528.0	4,433.0	95.04	47.645	
12,400.0	7,117.1	7,000.0	6,999.5	102.9	1.7	61.89	-660.4	-212.1	4,624.8	4,528.1	96.69	47.830	
12,401.5	7,117.1	7,000.0	6,999.5	103.0	1.7	61.89	-660.4	-212.1	4,626.4	4,529.6	96.72	47.833	
12,500.0	7,116.9	7,000.0	6,999.5	104.8	1.7	61.89	-660.4	-212.1	4,724.7	4,626.3	98.40	48.015	
12,598.4	7,116.6	7,000.0	6,999.5	106.7	1.7	61.89	-660.4	-212.1	4,823.0	4,722.9	100.08	48.190	
12,600.0	7,116.6	7,000.0	6,999.5	106.7	1.7	61.89	-660.4	-212.1	4,824.6	4,724.5	100.11	48.193	
12,696.8	7,116.4	7,000.0	6,999.5	108.6	1.7	61.89	-660.4	-212.1	4,921.3	4,819.6	101.77	48.360	
12,700.0	7,116.4	7,000.0	6,999.5	108.6	1.7	61.89	-660.4	-212.1	4,924.5	4,822.7	101.82	48.365	
12,795.2	7,116.2	7,000.0	6,999.5	110.4	1.7	61.89	-660.4	-212.1	5,019.7	4,916.2	103.45	48.523	
12,800.0	7,116.2	7,000.0	6,999.5	110.5	1.7	61.89	-660.4	-212.1	5,024.4	4,920.9	103.53	48.531	
12,893.7	7,116.0	7,000.0	6,999.5	112.3	1.7	61.89	-660.4	-212.1	5,118.0	5,012.9	105.13	48.681	
12,900.0	7,116.0	7,000.0	6,999.5	112.4	1.7	61.89	-660.4	-212.1	5,124.3	5,019.1	105.24	48.691	
12,992.1	7,115.7	7,000.0	6,999.5	114.2	1.7	61.89	-660.4	-212.1	5,216.4	5,109.5	106.82	48.834	
13,000.0	7,115.7	7,000.0	6,999.5	114.3	1.7	61.89	-660.4	-212.1	5,224.2	5,117.3	106.95	48.846	
13,090.5	7,115.5	7,000.0	6,999.5	116.1	1.7	61.89	-660.4	-212.1	5,314.7	5,206.2	108.50	48.982	
13,100.0	7,115.5	7,000.0	6,999.5	116.2	1.7	61.89	-660.4	-212.1	5,324.2	5,215.5	108.66	48.996	
13,188.9	7,115.3	7,000.0	6,999.5	117.9	1.7	61.89	-660.4	-212.1	5,413.0	5,302.9	110.19	49.125	
13,200.0	7,115.3	7,000.0	6,999.5	118.1	1.7	61.89	-660.4	-212.1	5,424.1	5,313.7	110.38	49.141	
13,287.4	7,115.1	7,000.0	6,999.5	119.8	1.7	61.89	-660.4	-212.1	5,511.4	5,399.5	111.87	49.264	
13,300.0	7,115.1	7,000.0	6,999.5	120.0	1.7	61.89	-660.4	-212.1	5,524.0	5,411.9	112.09	49.282	
13,385.8	7,114.9	7,000.0	6,999.5	121.7	1.7	61.89	-660.4	-212.1	5,609.7	5,496.2	113.56	49.399	
13,400.0	7,114.8	7,000.0	6,999.5	121.9	1.7	61.89	-660.4	-212.1	5,623.9	5,510.1	113.80	49.418	
13,484.2	7,114.6	7,000.0	6,999.5	123.6	1.7	61.89	-660.4	-212.1	5,708.1	5,592.9	115.25	49.529	
13,500.0	7,114.6	7,000.0	6,999.5	123.9	1.7	61.89	-660.4	-212.1	5,723.9	5,608.4	115.52	49.549	
13,582.6	7,114.4	7,000.0	6,999.5	125.4	1.7	61.89	-660.4	-212.1	5,806.5	5,689.5	116.94	49.655	
13,600.0	7,114.4	7,000.0	6,999.5	125.8	1.7	61.89	-660.4	-212.1	5,823.8	5,706.6	117.23	49.677	
13,681.1	7,114.2	7,000.0	6,999.5	127.3	1.7	61.89	-660.4	-212.1	5,904.8	5,786.2	118.62	49.778	
13,700.0	7,114.2	7,000.0	6,999.5	127.7	1.7	61.89	-660.4	-212.1	5,923.7	5,804.8	118.95	49.801	
13,779.5	7,114.0	7,000.0	6,999.5	129.2	1.7	61.89	-660.4	-212.1	6,003.2	5,882.9	120.31	49.897	
13,800.0	7,113.9	7,000.0	6,999.5	129.6	1.7	61.89	-660.4	-212.1	6,023.7	5,903.0	120.66	49.921	
13,877.9	7,113.8	7,000.0	6,999.5	131.1	1.7	61.89	-660.4	-212.1	6,101.5	5,979.5	122.00	50.013	
13,900.0	7,113.7	7,000.0	6,999.5	131.5	1.7	61.89	-660.4	-212.1	6,123.6	6,001.2	122.38	50.038	
13,976.3	7,113.5	7,000.0	6,999.5	132.9	1.7	61.89	-660.4	-212.1	6,199.9	6,076.2	123.69	50.125	
14,000.0	7,113.5	7,000.0	6,999.5	133.4	1.7	61.89	-660.4	-212.1	6,223.5	6,099.5	124.09	50.152	
14,074.8	7,113.3	7,000.0	6,999.5	134.8	1.7	61.89	-660.4	-212.1	6,298.3	6,172.9	125.38	50.234	
14,100.0	7,113.3	7,000.0	6,999.5	135.3	1.7	61.89	-660.4	-212.1	6,323.5	6,197.7	125.81	50.262	
14,173.2	7,113.1	7,000.0	6,999.5	136.7	1.7	61.89	-660.4	-212.1	6,396.7	6,269.6	127.07	50.341	
14,200.0	7,113.0	7,000.0	6,999.5	137.2	1.7	61.90	-660.4	-212.1	6,423.4	6,295.9	127.53	50.369	
14,219.1	7,113.0	7,000.0	6,999.5	137.6	1.7	61.90	-660.4	-212.1	6,442.6	6,314.7	127.86	50.389	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-2 - 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									
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	3.4	3.4	0.0	0.0	134.65	-564.7	571.6	803.5				
98.4	98.4	100.0	100.0	0.1	0.0	134.66	-564.9	571.7	803.7	803.5	0.13	6,066.317	
100.0	100.0	100.5	100.5	0.1	0.0	134.66	-564.9	571.7	803.7	803.5	0.13	5,955.878	
196.8	196.8	201.0	201.0	0.3	0.2	134.67	-565.1	571.6	803.8	803.3	0.48	1,664.105	
200.0	200.0	204.1	204.1	0.3	0.2	134.67	-565.1	571.6	803.8	803.3	0.49	1,630.120	
251.1	251.1	254.6	254.6	0.4	0.2	134.68	-565.2	571.5	803.8	803.1	0.66	1,224.988	
295.3	295.3	298.3	298.3	0.5	0.3	134.69	-565.3	571.4	803.8	803.0	0.80	1,008.248	
300.0	300.0	303.0	303.0	0.5	0.3	134.70	-565.3	571.4	803.8	803.0	0.81	990.445	
393.7	393.7	397.5	397.5	0.8	0.3	134.71	-565.5	571.3	803.8	802.7	1.09	739.508	
400.0	400.0	403.9	403.9	0.8	0.3	134.71	-565.5	571.2	803.8	802.7	1.11	727.394	
492.1	492.1	497.9	497.9	1.0	0.4	134.72	-565.5	571.0	803.7	802.3	1.37	588.425	
500.0	500.0	505.6	505.6	1.0	0.4	134.72	-565.5	571.0	803.6	802.3	1.39	579.632	
551.5	551.5	555.0	555.0	1.1	0.4	134.74	-565.6	570.8	803.6	802.1	1.52	529.405	
590.5	590.5	592.5	592.5	1.2	0.4	134.74	-565.7	570.8	803.6	802.0	1.62	496.775	
600.0	600.0	601.6	601.6	1.2	0.4	134.75	-565.7	570.8	803.6	802.0	1.64	489.401	
689.0	689.0	689.5	689.5	1.4	0.5	134.77	-566.2	570.7	803.9	802.0	1.89	426.280	
700.0	700.0	700.0	700.0	1.4	0.5	134.78	-566.3	570.7	803.9	802.0	1.92	419.629	
787.4	787.4	784.3	784.3	1.6	0.5	134.80	-566.9	570.8	804.5	802.3	2.15	374.430	
800.0	800.0	796.4	796.4	1.7	0.5	134.81	-567.0	570.8	804.6	802.4	2.18	368.727	
885.8	885.8	884.3	884.3	1.9	0.6	134.83	-567.7	571.0	805.2	802.8	2.41	333.748	
900.0	900.0	898.9	898.9	1.9	0.6	134.84	-567.8	571.1	805.3	802.9	2.45	328.592	
984.2	984.2	985.3	985.3	2.1	0.6	134.89	-568.6	570.8	805.7	803.0	2.67	301.499	
1,000.0	1,000.0	1,001.5	1,001.4	2.1	0.6	134.90	-568.8	570.7	805.7	803.0	2.71	296.918	
1,082.7	1,082.7	1,085.5	1,085.5	2.3	0.7	134.98	-569.6	570.1	805.9	803.0	2.93	275.005	
1,100.0	1,100.0	1,103.0	1,103.0	2.3	0.7	135.00	-569.8	569.9	805.9	802.9	2.98	270.823	
1,181.1	1,181.1	1,182.0	1,182.0	2.5	0.7	135.07	-570.6	569.3	806.1	802.9	3.19	253.035	
1,200.0	1,200.0	1,200.0	1,200.0	2.6	0.7	135.08	-570.8	569.2	806.1	802.9	3.23	249.244	
1,279.5	1,279.5	1,277.8	1,277.8	2.7	0.8	135.14	-571.7	568.9	806.5	803.1	3.44	234.554	
1,300.0	1,300.0	1,297.8	1,297.7	2.8	0.8	135.15	-571.8	568.9	806.7	803.2	3.49	231.062	
1,377.9	1,377.9	1,375.2	1,375.2	3.0	0.8	139.49	-572.6	569.0	808.1	804.4	3.69	218.905	
1,400.0	1,400.0	1,397.1	1,397.1	3.0	0.8	139.53	-572.8	569.0	808.8	805.0	3.75	215.698	
1,476.4	1,476.3	1,474.6	1,474.5	3.2	0.8	139.66	-573.3	569.3	812.1	808.2	3.94	206.209	
1,500.0	1,499.8	1,498.6	1,498.5	3.2	0.8	139.70	-573.3	569.6	813.4	809.4	4.00	203.527	
1,574.8	1,574.4	1,577.0	1,576.9	3.4	0.8	139.90	-573.1	570.1	818.4	814.3	4.19	195.378	
1,600.0	1,599.5	1,603.4	1,603.4	3.5	0.8	139.99	-573.1	570.1	820.4	816.1	4.25	192.884	
1,673.2	1,672.2	1,681.4	1,681.4	3.6	0.8	140.31	-572.8	570.0	826.7	822.3	4.44	186.108	
1,700.0	1,698.7	1,708.8	1,708.7	3.7	0.8	140.43	-572.6	570.0	829.3	824.8	4.51	183.861	
1,771.6	1,769.5	1,776.0	1,776.0	3.9	0.9	140.78	-572.3	569.7	837.3	832.6	4.70	178.190	
1,800.0	1,797.5	1,802.9	1,802.9	4.0	0.9	140.93	-572.3	569.6	841.0	836.2	4.77	176.161	
1,870.1	1,866.3	1,877.8	1,877.7	4.2	0.9	141.44	-572.3	569.0	850.8	845.8	4.98	170.912	
1,900.1	1,895.8	1,910.0	1,909.9	4.3	0.9	141.68	-572.3	568.4	855.3	850.2	5.06	168.910	
1,968.5	1,962.6	1,984.5	1,984.4	4.5	0.9	142.38	-571.9	567.0	865.4	860.2	5.26	164.637	
2,000.0	1,993.4	2,015.8	2,015.8	4.6	0.9	142.67	-571.6	566.2	870.0	864.6	5.34	162.774	
2,066.9	2,058.9	2,077.1	2,077.0	4.8	0.9	143.23	-571.3	564.9	879.9	874.4	5.54	158.731	
2,100.0	2,091.3	2,108.0	2,107.9	4.9	0.9	143.51	-571.2	564.3	885.0	879.3	5.64	156.942	
2,165.3	2,155.2	2,172.6	2,172.5	5.1	1.0	144.09	-571.1	562.8	895.0	889.2	5.84	153.329	
2,200.0	2,189.1	2,206.5	2,206.3	5.3	1.0	144.40	-571.1	562.0	900.4	894.4	5.94	151.495	
2,263.8	2,251.4	2,266.3	2,266.1	5.5	1.0	144.95	-571.3	560.4	910.4	904.3	6.14	148.335	
2,300.0	2,286.9	2,300.2	2,300.0	5.6	1.0	145.26	-571.6	559.5	916.2	910.0	6.25	146.617	
2,362.2	2,347.7	2,361.0	2,360.8	5.9	1.0	145.82	-572.2	557.7	926.3	919.9	6.44	143.807	
2,400.0	2,384.7	2,397.8	2,397.6	6.0	1.0	146.17	-572.7	556.5	932.5	925.9	6.56	142.192	
2,460.6	2,444.0	2,463.4	2,463.1	6.3	1.1	146.78	-573.4	554.1	942.3	935.5	6.74	139.745	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-2 - 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									
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
2,500.0	2,482.5	2,505.9	2,505.6	6.4	1.1	147.15	-573.5	552.6	948.4	941.6	6.86	138.229	
2,559.0	2,540.3	2,566.9	2,566.6	6.6	1.1	147.66	-573.3	550.6	957.6	950.5	7.04	136.001	
2,600.0	2,580.3	2,608.8	2,608.4	6.8	1.1	147.98	-572.9	549.4	963.8	956.6	7.16	134.525	
2,617.6	2,597.5	2,626.0	2,625.6	6.9	1.1	148.11	-572.7	549.0	966.5	959.3	7.22	133.885	
2,657.5	2,636.6	2,665.0	2,664.6	7.0	1.1	148.45	-572.1	548.0	972.3	965.0	7.32	132.801	
2,700.0	2,678.4	2,706.7	2,706.3	7.2	1.1	148.77	-571.6	547.0	978.1	970.7	7.43	131.619	
2,755.9	2,733.5	2,761.3	2,760.9	7.3	1.1	149.17	-570.8	545.7	984.9	977.4	7.56	130.351	
2,800.0	2,777.0	2,804.6	2,804.2	7.4	1.2	149.45	-570.4	544.5	989.7	982.0	7.65	129.306	
2,854.3	2,830.9	2,859.3	2,858.9	7.6	1.2	149.77	-569.7	543.1	994.7	987.0	7.77	128.035	
2,900.0	2,876.2	2,905.3	2,904.8	7.7	1.2	150.00	-569.2	541.9	998.3	990.4	7.87	126.904	
2,952.7	2,928.7	2,956.4	2,956.0	7.8	1.2	150.23	-568.6	540.6	1,001.7	993.7	7.97	125.623	
3,000.0	2,975.8	3,002.5	3,002.0	7.9	1.2	150.39	-568.0	539.5	1,004.0	996.0	8.07	124.420	
3,051.2	3,026.8	3,055.4	3,054.9	8.0	1.2	150.53	-567.2	538.5	1,005.8	997.6	8.17	123.131	
3,100.0	3,075.6	3,105.6	3,105.0	8.1	1.2	150.61	-566.1	537.8	1,006.7	998.4	8.26	121.815	
3,149.6	3,125.2	3,154.2	3,153.7	8.2	1.2	150.65	-565.0	537.2	1,006.8	998.5	8.36	120.481	
3,200.0	3,175.6	3,200.0	3,199.4	8.3	1.3	150.67	-564.1	536.6	1,006.3	997.8	8.45	119.075	
3,217.7	3,193.3	3,219.7	3,219.2	8.3	1.3	146.38	-563.8	536.3	1,005.9	997.4	8.49	118.505	
3,248.0	3,223.6	3,247.5	3,247.0	8.4	1.3	146.39	-563.3	535.9	1,005.3	996.7	8.55	117.558	
3,300.0	3,275.6	3,295.3	3,294.7	8.5	1.3	146.39	-562.7	535.3	1,004.3	995.7	8.66	115.984	
3,346.4	3,322.0	3,341.5	3,340.9	8.6	1.3	146.40	-562.2	534.8	1,003.6	994.9	8.76	114.506	
3,400.0	3,375.6	3,395.2	3,394.7	8.7	1.3	146.42	-561.6	534.1	1,002.8	993.9	8.89	112.845	
3,444.9	3,420.4	3,443.3	3,442.7	8.7	1.3	146.44	-561.2	533.3	1,002.0	993.1	8.99	111.464	
3,500.0	3,475.6	3,502.5	3,501.9	8.8	1.3	146.49	-560.7	531.9	1,000.9	991.8	9.12	109.792	
3,543.3	3,518.9	3,547.2	3,546.6	8.9	1.3	146.55	-560.3	530.5	999.9	990.7	9.22	108.504	
3,600.0	3,575.6	3,605.6	3,604.9	9.0	1.4	146.65	-560.0	528.3	998.5	989.1	9.34	106.856	
3,641.7	3,617.3	3,648.1	3,647.4	9.1	1.4	146.72	-559.8	526.6	997.4	987.9	9.44	105.665	
3,700.0	3,675.6	3,706.9	3,706.2	9.2	1.4	146.80	-559.2	524.5	995.8	986.2	9.57	104.030	
3,740.1	3,715.7	3,745.0	3,744.2	9.3	1.4	146.84	-558.8	523.4	994.7	985.1	9.66	102.931	
3,800.0	3,775.6	3,801.9	3,801.1	9.4	1.4	146.87	-557.9	522.2	993.3	983.5	9.80	101.342	
3,838.6	3,814.1	3,839.9	3,839.1	9.5	1.4	146.89	-557.4	521.6	992.5	982.6	9.89	100.337	
3,900.0	3,875.6	3,900.0	3,899.2	9.6	1.5	146.92	-556.7	520.3	991.2	981.1	10.03	98.784	
3,937.0	3,912.6	3,935.9	3,935.1	9.7	1.5	146.95	-556.3	519.6	990.4	980.3	10.12	97.871	
4,000.0	3,975.6	3,996.4	3,995.6	9.8	1.5	146.99	-555.8	518.4	989.3	979.0	10.27	96.366	
4,035.4	4,011.0	4,031.1	4,030.3	9.9	1.5	147.01	-555.5	517.8	988.7	978.4	10.35	95.538	
4,100.0	4,075.6	4,094.5	4,093.7	10.0	1.5	147.04	-555.0	516.8	987.7	977.2	10.50	94.067	
4,133.8	4,109.4	4,125.0	4,124.1	10.0	1.5	147.05	-554.8	516.4	987.3	976.7	10.58	93.340	
4,200.0	4,175.6	4,183.4	4,182.5	10.2	1.5	147.08	-554.7	515.7	986.8	976.1	10.73	91.994	
4,232.3	4,207.8	4,213.7	4,212.8	10.2	1.5	147.10	-554.8	515.4	986.7	975.9	10.80	91.362	
4,300.0	4,275.6	4,282.6	4,281.7	10.4	1.6	147.13	-554.9	515.0	986.6	975.6	10.96	90.053	
4,330.7	4,306.3	4,315.0	4,314.1	10.4	1.6	147.13	-554.9	514.8	986.5	975.5	11.03	89.455	
4,400.0	4,375.6	4,391.4	4,390.5	10.6	1.6	147.16	-554.6	514.2	985.9	974.7	11.19	88.078	
4,429.1	4,404.7	4,419.2	4,418.3	10.6	1.6	147.17	-554.4	513.8	985.6	974.3	11.26	87.520	
4,500.0	4,475.6	4,482.8	4,481.9	10.8	1.6	147.19	-554.3	513.2	985.1	973.7	11.42	86.232	
4,527.5	4,503.1	4,508.7	4,507.8	10.8	1.6	147.20	-554.3	513.1	985.1	973.6	11.49	85.751	
4,600.0	4,575.6	4,583.1	4,582.2	11.0	1.6	147.21	-554.3	512.8	984.9	973.3	11.66	84.498	
4,626.0	4,601.5	4,609.6	4,608.7	11.0	1.7	147.22	-554.3	512.7	984.8	973.1	11.72	84.050	
4,700.0	4,675.6	4,684.3	4,683.4	11.2	1.7	147.22	-554.0	512.6	984.5	972.6	11.89	82.789	
4,724.4	4,700.0	4,709.0	4,708.1	11.2	1.7	147.21	-553.9	512.6	984.4	972.5	11.95	82.383	
4,800.0	4,775.6	4,785.8	4,784.9	11.4	1.7	147.20	-553.5	512.5	984.0	971.9	12.13	81.121	
4,822.8	4,798.4	4,808.6	4,807.7	11.4	1.7	147.20	-553.3	512.4	983.9	971.7	12.19	80.737	
4,900.0	4,875.6	4,883.8	4,882.9	11.6	1.7	147.21	-553.1	512.2	983.5	971.1	12.37	79.526	
4,921.2	4,896.8	4,904.4	4,903.5	11.6	1.7	147.21	-553.0	512.1	983.4	971.0	12.42	79.202	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-2 - 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						
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
4,990.5	4,966.0	4,970.4	4,969.5	11.7	1.7	147.23	-553.1	511.7	983.3	970.7	12.57	78.199	
5,000.0	4,975.6	4,979.5	4,978.6	11.8	1.7	147.23	-553.2	511.7	983.3	970.7	12.60	78.064	
5,019.7	4,995.2	5,000.0	4,999.1	11.8	1.7	147.24	-553.2	511.6	983.3	970.7	12.64	77.786	
5,100.0	5,075.6	5,086.3	5,085.4	12.0	1.7	147.25	-553.2	511.3	983.1	970.3	12.82	76.674	
5,118.1	5,093.7	5,105.5	5,104.6	12.0	1.8	147.25	-553.0	511.2	983.0	970.1	12.86	76.415	
5,200.0	5,175.6	5,186.5	5,185.6	12.2	1.8	147.25	-552.5	511.0	982.4	969.4	13.06	75.206	
5,216.5	5,192.1	5,202.8	5,201.9	12.2	1.8	147.25	-552.5	510.9	982.3	969.2	13.10	74.968	
5,300.0	5,275.6	5,282.2	5,281.3	12.4	1.8	147.28	-552.5	510.2	982.0	968.7	13.30	73.856	
5,314.9	5,290.5	5,296.4	5,295.5	12.4	1.8	147.30	-552.6	510.0	981.9	968.6	13.33	73.664	
5,400.0	5,375.6	5,388.5	5,387.6	12.6	1.8	147.39	-553.1	508.4	981.5	968.0	13.53	72.554	
5,413.4	5,388.9	5,403.1	5,402.2	12.6	1.8	147.41	-553.1	508.1	981.4	967.8	13.56	72.377	
5,500.0	5,475.6	5,496.4	5,495.5	12.8	1.9	147.52	-553.1	505.8	980.2	966.5	13.77	71.209	
5,511.8	5,487.4	5,508.0	5,507.0	12.8	1.9	147.53	-553.0	505.5	980.0	966.2	13.79	71.050	
5,600.0	5,575.6	5,591.1	5,590.2	13.0	1.9	147.62	-552.8	503.7	978.8	964.8	14.00	69.903	
5,610.2	5,585.8	5,600.8	5,599.8	13.0	1.9	147.62	-552.8	503.5	978.7	964.7	14.03	69.774	
5,700.0	5,675.6	5,689.4	5,688.4	13.2	1.9	147.68	-552.6	502.2	977.8	963.5	14.24	68.657	
5,708.6	5,684.2	5,697.9	5,696.9	13.2	1.9	147.68	-552.5	502.1	977.7	963.4	14.26	68.552	
5,800.0	5,775.6	5,787.0	5,786.0	13.4	1.9	147.69	-552.0	501.6	976.9	962.5	14.48	67.465	
5,807.1	5,782.6	5,793.9	5,792.9	13.4	1.9	147.69	-551.9	501.6	976.9	962.4	14.50	67.382	
5,900.0	5,875.6	5,883.0	5,882.0	13.6	1.9	147.67	-551.4	501.7	976.4	961.7	14.72	66.331	
5,905.5	5,881.1	5,888.2	5,887.2	13.6	2.0	147.67	-551.4	501.7	976.4	961.7	14.73	66.271	
6,000.0	5,975.6	5,983.6	5,982.6	13.8	2.0	147.64	-550.9	501.9	976.1	961.2	14.96	65.250	
6,003.9	5,979.5	5,987.6	5,986.6	13.8	2.0	147.64	-550.8	501.9	976.1	961.2	14.97	65.208	
6,100.0	6,075.6	6,084.9	6,083.9	14.0	2.0	147.58	-550.0	502.5	975.7	960.5	15.20	64.196	
6,102.3	6,077.9	6,087.3	6,086.3	14.0	2.0	147.58	-549.9	502.6	975.7	960.5	15.20	64.171	
6,200.0	6,175.6	6,181.6	6,180.6	14.2	2.0	147.50	-548.9	503.5	975.3	959.9	15.43	63.193	
6,200.8	6,176.3	6,182.4	6,181.3	14.2	2.0	147.50	-548.9	503.6	975.3	959.9	15.44	63.186	
6,299.2	6,274.8	6,279.3	6,278.3	14.4	2.0	147.41	-548.1	504.8	975.3	959.6	15.67	62.256	
6,300.0	6,275.6	6,280.1	6,279.1	14.4	2.0	147.41	-548.1	504.8	975.3	959.6	15.67	62.248	
6,301.9	6,277.4	6,281.9	6,280.9	14.5	2.0	147.41	-548.0	504.8	975.3	959.6	15.67	62.231	
6,397.6	6,373.2	6,377.8	6,376.8	14.7	2.0	147.32	-547.2	506.1	975.3	959.4	15.90	61.358	
6,400.0	6,375.6	6,380.2	6,379.1	14.7	2.0	147.32	-547.2	506.1	975.3	959.4	15.90	61.336	
6,419.9	6,395.5	6,400.0	6,399.0	14.7	2.0	147.30	-547.0	506.4	975.3	959.3	15.95	61.157	
6,436.2	6,411.8	6,415.2	6,414.2	14.7	1.9	147.29	-546.9	506.6	975.3	959.3	15.98	61.015	
6,450.0	6,425.6	6,427.9	6,426.8	14.8	1.9	-32.94	-546.8	506.8	975.2	959.2	16.01	60.926	
6,496.0	6,471.5	6,470.3	6,469.2	14.8	1.9	-33.14	-546.5	507.6	973.4	957.3	16.10	60.456	
6,500.0	6,475.5	6,473.9	6,472.8	14.8	1.9	-33.17	-546.5	507.7	973.2	957.0	16.11	60.403	
6,550.0	6,525.1	6,521.0	6,520.0	14.9	1.9	-33.64	-546.2	508.9	968.4	952.1	16.25	59.599	
6,594.5	6,568.7	6,564.2	6,563.1	14.9	1.9	-34.27	-545.9	509.9	961.8	945.4	16.39	58.694	
6,600.0	6,574.1	6,569.5	6,568.4	14.9	1.9	-34.36	-545.9	510.1	960.8	944.4	16.40	58.570	
6,650.0	6,622.4	6,616.7	6,615.6	14.9	1.9	-35.34	-545.7	511.2	950.5	933.9	16.57	57.378	
6,692.9	6,663.0	6,655.5	6,654.4	14.9	1.9	-36.39	-545.5	512.3	939.6	922.9	16.70	56.267	
6,700.0	6,669.6	6,661.9	6,660.7	14.9	1.9	-36.59	-545.5	512.5	937.6	920.9	16.72	56.076	
6,750.0	6,715.6	6,705.6	6,704.4	14.9	1.9	-38.13	-545.2	513.9	922.3	905.4	16.86	54.695	
6,791.3	6,752.5	6,739.8	6,738.6	14.9	1.9	-39.61	-545.1	515.1	907.9	890.9	16.97	53.511	
6,800.0	6,760.1	6,746.9	6,745.7	14.9	1.9	-39.94	-545.1	515.3	904.7	887.7	16.99	53.257	
6,850.0	6,802.9	6,786.8	6,785.6	14.9	1.9	-42.07	-545.2	516.6	885.0	867.9	17.10	51.758	
6,889.7	6,835.6	6,817.8	6,816.6	14.9	1.9	-44.01	-545.4	517.6	868.0	850.8	17.18	50.522	
6,900.0	6,843.8	6,825.7	6,824.5	14.9	1.9	-44.55	-545.5	517.9	863.4	846.2	17.20	50.198	
6,950.0	6,882.6	6,862.7	6,861.5	14.9	1.9	-47.40	-545.7	519.3	840.2	822.9	17.30	48.564	
6,988.2	6,910.7	6,889.5	6,888.2	15.0	1.9	-49.82	-545.7	520.5	821.5	804.2	17.38	47.262	
7,000.0	6,919.1	6,897.5	6,896.2	15.0	1.9	-50.61	-545.7	520.8	815.6	798.2	17.41	46.856	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-2 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,050.0	6,953.1	6,929.5	6,928.2	15.0	1.9	-54.12	-545.9	522.4	789.9	772.4	17.52	45.089	
7,086.6	6,976.4	6,951.5	6,950.2	15.1	1.9	-56.86	-546.0	523.4	770.6	753.0	17.61	43.765	
7,100.0	6,984.5	6,959.3	6,957.9	15.1	1.9	-57.90	-546.1	523.7	763.5	745.9	17.64	43.286	
7,150.0	7,013.1	6,986.7	6,985.3	15.3	1.9	-61.90	-546.3	525.0	736.7	719.0	17.76	41.473	
7,185.0	7,031.4	7,000.0	6,998.6	15.4	1.9	-64.44	-546.5	525.6	718.0	700.2	17.86	40.194	
7,200.0	7,038.8	7,000.0	6,998.6	15.4	1.9	-65.11	-546.5	525.6	710.1	692.2	17.91	39.654	
7,250.0	7,061.4	7,000.0	6,998.6	15.6	1.9	-67.27	-546.5	525.6	684.7	666.6	18.09	37.842	
7,283.4	7,074.8	7,000.0	6,998.6	15.8	1.9	-68.64	-546.5	525.6	668.5	650.3	18.24	36.649	
7,300.0	7,080.9	7,000.0	6,998.6	15.9	1.9	-69.29	-546.5	525.6	660.8	642.5	18.32	36.082	
7,350.0	7,097.1	7,000.0	6,998.6	16.2	1.9	-71.13	-546.5	525.6	638.9	620.3	18.58	34.391	
7,381.9	7,105.7	7,000.0	6,998.6	16.4	1.9	-72.19	-546.5	525.6	626.0	607.2	18.77	33.350	
7,400.0	7,109.9	7,000.0	6,998.6	16.6	1.9	-72.76	-546.5	525.6	619.1	600.2	18.88	32.790	
7,450.0	7,119.4	7,000.0	6,998.6	17.0	1.9	-74.17	-546.5	525.6	601.9	582.7	19.23	31.299	
7,480.3	7,123.4	7,000.0	6,998.6	17.2	1.9	-74.91	-546.5	525.6	592.8	573.3	19.47	30.451	
7,500.0	7,125.4	7,000.0	6,998.6	17.4	1.9	-75.33	-546.5	525.6	587.5	567.9	19.62	29.939	
7,550.0	7,127.9	7,000.0	6,998.6	17.9	1.9	-76.23	-546.5	525.6	576.2	556.1	20.06	28.728	
7,562.9	7,128.0	7,000.0	6,998.6	18.0	1.9	-76.42	-546.5	525.6	573.8	553.7	20.18	28.442	
7,578.7	7,128.0	7,000.0	6,998.6	18.2	1.9	-76.42	-546.5	525.6	571.3	550.9	20.33	28.094	
7,600.0	7,127.9	7,000.0	6,998.6	18.4	1.9	-76.42	-546.5	525.6	568.5	547.9	20.55	27.668	
7,663.6	7,127.8	7,000.0	6,998.6	19.1	1.9	-76.42	-546.5	525.6	564.9	543.7	21.24	26.596 CC, ES	
7,677.1	7,127.7	7,000.0	6,998.6	19.2	1.9	-76.42	-546.5	525.6	565.1	543.7	21.39	26.419	
7,700.0	7,127.7	7,000.0	6,998.6	19.5	1.9	-76.42	-546.5	525.6	566.1	544.5	21.64	26.161	
7,775.6	7,127.5	7,000.0	6,998.6	20.3	1.9	-76.42	-546.5	525.6	575.9	553.5	22.42	25.689	
7,800.0	7,127.5	7,000.0	6,998.6	20.5	1.9	-76.42	-546.5	525.6	581.2	558.5	22.67	25.634 SF	
7,874.0	7,127.3	7,000.0	6,998.6	21.4	1.9	-76.42	-546.5	525.6	602.9	579.3	23.51	25.642	
7,900.0	7,127.2	7,000.0	6,998.6	21.7	1.9	-76.42	-546.5	525.6	612.4	588.6	23.80	25.726	
7,972.4	7,127.1	7,000.0	6,998.6	22.7	1.9	-76.42	-546.5	525.6	643.9	619.1	24.80	25.967	
8,000.0	7,127.0	7,000.0	6,998.6	23.1	1.9	-76.42	-546.5	525.6	657.5	632.4	25.17	26.121	
8,070.8	7,126.8	7,000.0	6,998.6	24.2	1.9	-76.42	-546.5	525.6	696.4	670.3	26.19	26.593	
8,100.0	7,126.8	7,000.0	6,998.6	24.6	1.9	-76.42	-546.5	525.6	713.9	687.3	26.61	26.830	
8,169.3	7,126.6	7,000.0	6,998.6	25.6	1.9	-76.42	-546.5	525.6	758.2	730.6	27.64	27.430	
8,200.0	7,126.6	7,000.0	6,998.6	26.1	1.9	-76.42	-546.5	525.6	779.0	750.9	28.10	27.723	
8,267.7	7,126.4	7,000.0	6,998.6	27.2	1.9	-76.42	-546.5	525.6	827.1	798.0	29.14	28.381	
8,300.0	7,126.3	7,000.0	6,998.6	27.7	1.9	-76.42	-546.5	525.6	851.0	821.4	29.64	28.710	
8,366.1	7,126.2	7,000.0	6,998.6	28.8	1.9	-76.42	-546.5	525.6	901.5	870.8	30.69	29.379	
8,400.0	7,126.1	7,000.0	6,998.6	29.3	1.9	-76.42	-546.5	525.6	928.2	896.9	31.22	29.729	
8,464.5	7,126.0	7,000.0	6,998.6	30.4	1.9	-76.42	-546.5	525.6	980.2	947.9	32.26	30.381	
8,500.0	7,125.9	7,000.0	6,998.6	31.0	1.9	-76.42	-546.5	525.6	1,009.3	976.5	32.83	30.740	
8,563.0	7,125.7	7,000.0	6,998.6	32.0	1.9	-76.42	-546.5	525.6	1,062.1	1,028.2	33.87	31.360	
8,600.0	7,125.6	7,000.0	6,998.6	32.6	1.9	-76.42	-546.5	525.6	1,093.6	1,059.2	34.48	31.721	
8,661.4	7,125.5	7,000.0	6,998.6	33.7	1.9	-76.42	-546.5	525.6	1,146.7	1,111.2	35.50	32.300	
8,700.0	7,125.4	7,000.0	6,998.6	34.4	1.9	-76.42	-546.5	525.6	1,180.4	1,144.3	36.14	32.659	
8,759.8	7,125.3	7,000.0	6,998.6	35.4	1.9	-76.42	-546.5	525.6	1,233.3	1,196.1	37.15	33.194	
8,800.0	7,125.2	7,000.0	6,998.6	36.1	1.9	-76.42	-546.5	525.6	1,269.1	1,231.3	37.83	33.547	
8,858.2	7,125.1	7,000.0	6,998.6	37.1	1.9	-76.42	-546.5	525.6	1,321.5	1,282.7	38.82	34.039	
8,900.0	7,125.0	7,000.0	6,998.6	37.8	1.9	-76.42	-546.5	525.6	1,359.4	1,319.8	39.54	34.383	
8,956.7	7,124.8	7,000.0	6,998.6	38.8	1.9	-76.42	-546.5	525.6	1,411.1	1,370.6	40.51	34.833	
9,000.0	7,124.7	7,000.0	6,998.6	39.6	1.9	-76.42	-546.5	525.6	1,450.9	1,409.7	41.26	35.168	
9,055.1	7,124.6	7,000.0	6,998.6	40.6	1.9	-76.42	-546.5	525.6	1,501.8	1,459.6	42.21	35.578	
9,100.0	7,124.5	7,000.0	6,998.6	41.4	1.9	-76.42	-546.5	525.6	1,543.5	1,500.5	42.99	35.903	
9,153.5	7,124.4	7,000.0	6,998.6	42.3	1.9	-76.42	-546.5	525.6	1,593.5	1,549.5	43.93	36.276	
9,200.0	7,124.3	7,000.0	6,998.6	43.2	1.9	-76.42	-546.5	525.6	1,637.0	1,592.3	44.74	36.591	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-2 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,251.9	7,124.2	7,000.0	6,998.6	44.1	1.9	-76.42	-546.5	525.6	1,685.9	1,640.2	45.65	36.929	
9,300.0	7,124.1	7,000.0	6,998.6	45.0	1.9	-76.42	-546.5	525.6	1,731.2	1,684.7	46.50	37.234	
9,350.4	7,123.9	7,000.0	6,998.6	45.9	1.9	-76.42	-546.5	525.6	1,778.9	1,731.5	47.39	37.541	
9,400.0	7,123.8	7,000.0	6,998.6	46.8	1.9	-76.42	-546.5	525.6	1,826.0	1,777.8	48.26	37.836	
9,448.8	7,123.7	7,000.0	6,998.6	47.7	1.9	-76.42	-546.5	525.6	1,872.5	1,823.4	49.13	38.115	
9,500.0	7,123.6	7,000.0	6,998.6	48.6	1.9	-76.42	-546.5	525.6	1,921.4	1,871.3	50.04	38.399	
9,547.2	7,123.5	7,000.0	6,998.6	49.4	1.9	-76.42	-546.5	525.6	1,966.6	1,915.7	50.88	38.652	
9,600.0	7,123.4	7,000.0	6,998.6	50.4	1.9	-76.42	-546.5	525.6	2,017.2	1,965.3	51.82	38.927	
9,645.6	7,123.3	7,000.0	6,998.6	51.2	1.9	-76.42	-546.5	525.6	2,061.0	2,008.4	52.64	39.157	
9,700.0	7,123.2	7,000.0	6,998.6	52.2	1.9	-76.42	-546.5	525.6	2,113.3	2,059.7	53.61	39.423	
9,744.1	7,123.1	7,000.0	6,998.6	53.1	1.9	-76.42	-546.5	525.6	2,155.8	2,101.4	54.40	39.631	
9,800.0	7,122.9	7,000.0	6,998.6	54.1	1.9	-76.42	-546.5	525.6	2,209.9	2,154.5	55.40	39.888	
9,842.5	7,122.8	7,000.0	6,998.6	54.9	1.9	-76.42	-546.5	525.6	2,251.0	2,194.8	56.17	40.077	
9,900.0	7,122.7	7,000.0	6,998.6	55.9	1.9	-76.42	-546.5	525.6	2,306.7	2,249.5	57.20	40.325	
9,940.9	7,122.6	7,000.0	6,998.6	56.7	1.9	-76.42	-546.5	525.6	2,346.4	2,288.4	57.94	40.496	
10,000.0	7,122.5	7,000.0	6,998.6	57.8	1.9	-76.42	-546.5	525.6	2,403.8	2,344.8	59.01	40.737	
10,039.3	7,122.4	7,000.0	6,998.6	58.5	1.9	-76.42	-546.5	525.6	2,442.0	2,382.3	59.72	40.892	
10,100.0	7,122.3	7,000.0	6,998.6	59.6	1.9	-76.42	-546.5	525.6	2,501.1	2,440.3	60.82	41.125	
10,137.8	7,122.2	7,000.0	6,998.6	60.3	1.9	-76.42	-546.5	525.6	2,537.9	2,476.4	61.50	41.266	
10,200.0	7,122.0	7,000.0	6,998.6	61.5	1.9	-76.42	-546.5	525.6	2,598.6	2,536.0	62.63	41.492	
10,236.2	7,121.9	7,000.0	6,998.6	62.2	1.9	-76.42	-546.5	525.6	2,633.9	2,570.6	63.29	41.619	
10,300.0	7,121.8	7,000.0	6,998.6	63.3	1.9	-76.42	-546.5	525.6	2,696.3	2,631.8	64.45	41.838	
10,334.6	7,121.7	7,000.0	6,998.6	64.0	1.9	-76.42	-546.5	525.6	2,730.2	2,665.1	65.08	41.953	
10,400.0	7,121.6	7,000.0	6,998.6	65.2	1.9	-76.42	-546.5	525.6	2,794.1	2,727.9	66.27	42.165	
10,433.0	7,121.5	7,000.0	6,998.6	65.8	1.9	-76.42	-546.5	525.6	2,826.5	2,759.6	66.87	42.270	
10,500.0	7,121.4	7,000.0	6,998.6	67.1	1.9	-76.42	-546.5	525.6	2,892.1	2,824.1	68.09	42.476	
10,531.5	7,121.3	7,000.0	6,998.6	67.7	1.9	-76.42	-546.5	525.6	2,923.0	2,854.4	68.66	42.570	
10,600.0	7,121.1	7,000.0	6,998.6	69.0	1.9	-76.42	-546.5	525.6	2,990.3	2,920.4	69.92	42.770	
10,629.9	7,121.1	7,000.0	6,998.6	69.5	1.9	-76.42	-546.5	525.6	3,019.7	2,949.2	70.46	42.855	
10,700.0	7,120.9	7,000.0	6,998.6	70.8	1.9	-76.42	-546.5	525.6	3,088.5	3,016.8	71.74	43.049	
10,728.3	7,120.8	7,000.0	6,998.6	71.4	1.9	-76.42	-546.5	525.6	3,116.4	3,044.1	72.26	43.126	
10,800.0	7,120.7	7,000.0	6,998.6	72.7	1.9	-76.42	-546.5	525.6	3,186.9	3,113.3	73.58	43.315	
10,826.7	7,120.6	7,000.0	6,998.6	73.2	1.9	-76.42	-546.5	525.6	3,213.2	3,139.2	74.07	43.384	
10,900.0	7,120.5	7,000.0	6,998.6	74.6	1.9	-76.42	-546.5	525.6	3,285.4	3,210.0	75.41	43.568	
10,925.2	7,120.4	7,000.0	6,998.6	75.1	1.9	-76.42	-546.5	525.6	3,310.2	3,234.3	75.87	43.629	
11,000.0	7,120.2	7,000.0	6,998.6	76.5	1.9	-76.42	-546.5	525.6	3,383.9	3,306.7	77.24	43.808	
11,023.6	7,120.2	7,000.0	6,998.6	76.9	1.9	-76.42	-546.5	525.6	3,407.2	3,329.5	77.68	43.864	
11,100.0	7,120.0	7,000.0	6,998.6	78.3	1.9	-76.42	-546.5	525.6	3,482.6	3,403.5	79.08	44.038	
11,122.0	7,120.0	7,000.0	6,998.6	78.8	1.9	-76.42	-546.5	525.6	3,504.3	3,424.8	79.49	44.087	
11,200.0	7,119.8	7,000.0	6,998.6	80.2	1.9	-76.42	-546.5	525.6	3,581.3	3,500.4	80.92	44.257	
11,220.4	7,119.7	7,000.0	6,998.6	80.6	1.9	-76.42	-546.5	525.6	3,601.5	3,520.2	81.30	44.301	
11,300.0	7,119.5	7,000.0	6,998.6	82.1	1.9	-76.42	-546.5	525.6	3,680.1	3,597.3	82.76	44.466	
11,318.9	7,119.5	7,000.0	6,998.6	82.5	1.9	-76.42	-546.5	525.6	3,698.7	3,615.6	83.11	44.505	
11,400.0	7,119.3	7,000.0	6,998.6	84.0	1.9	-76.42	-546.5	525.6	3,778.9	3,694.3	84.60	44.667	
11,417.3	7,119.3	7,000.0	6,998.6	84.3	1.9	-76.42	-546.5	525.6	3,796.0	3,711.1	84.92	44.700	
11,500.0	7,119.1	7,000.0	6,998.6	85.9	1.9	-76.42	-546.5	525.6	3,877.8	3,791.4	86.45	44.858	
11,515.7	7,119.1	7,000.0	6,998.6	86.2	1.9	-76.42	-546.5	525.6	3,893.4	3,806.6	86.74	44.888	
11,600.0	7,118.9	7,000.0	6,998.6	87.8	1.9	-76.42	-546.5	525.6	3,976.8	3,888.5	88.29	45.042	
11,614.1	7,118.8	7,000.0	6,998.6	88.0	1.9	-76.42	-546.5	525.6	3,990.8	3,902.2	88.55	45.067	
11,700.0	7,118.6	7,000.0	6,998.6	89.7	1.9	-76.42	-546.5	525.6	4,075.8	3,985.6	90.14	45.218	
11,712.6	7,118.6	7,000.0	6,998.6	89.9	1.9	-76.42	-546.5	525.6	4,088.2	3,997.9	90.37	45.239	
11,800.0	7,118.4	7,000.0	6,998.6	91.6	1.9	-76.42	-546.5	525.6	4,174.8	4,082.9	91.98	45.386	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

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	
11,811.0	7,118.4	7,000.0	6,998.6	91.8	1.9	-76.42	-546.5	525.6	4,185.7	4,093.5	92.19	45.405	
11,900.0	7,118.2	7,000.0	6,998.6	93.4	1.9	-76.42	-546.5	525.6	4,273.9	4,180.1	93.83	45.549	
11,909.4	7,118.2	7,000.0	6,998.6	93.6	1.9	-76.42	-546.5	525.6	4,283.3	4,189.3	94.01	45.563	
12,000.0	7,118.0	7,000.0	6,998.6	95.3	1.9	-76.42	-546.5	525.6	4,373.1	4,277.4	95.68	45.704	
12,007.8	7,118.0	7,000.0	6,998.6	95.5	1.9	-76.42	-546.5	525.6	4,380.9	4,285.0	95.83	45.716	
12,100.0	7,117.8	7,000.0	6,998.6	97.2	1.9	-76.43	-546.5	525.6	4,472.3	4,374.7	97.53	45.854	
12,106.3	7,117.7	7,000.0	6,998.6	97.4	1.9	-76.43	-546.5	525.6	4,478.5	4,380.8	97.65	45.863	
12,200.0	7,117.5	7,000.0	6,998.6	99.1	1.9	-76.43	-546.5	525.6	4,571.5	4,472.1	99.38	45.998	
12,204.7	7,117.5	7,000.0	6,998.6	99.2	1.9	-76.43	-546.5	525.6	4,576.1	4,476.7	99.47	46.005	
12,300.0	7,117.3	7,000.0	6,998.6	101.0	1.9	-76.43	-546.5	525.6	4,670.7	4,569.5	101.24	46.137	
12,303.1	7,117.3	7,000.0	6,998.6	101.1	1.9	-76.43	-546.5	525.6	4,673.8	4,572.5	101.29	46.141	
12,400.0	7,117.1	7,000.0	6,998.6	102.9	1.9	-76.43	-546.5	525.6	4,770.0	4,666.9	103.09	46.271	
12,401.5	7,117.1	7,000.0	6,998.6	103.0	1.9	-76.43	-546.5	525.6	4,771.5	4,668.4	103.12	46.273	
12,500.0	7,116.9	7,000.0	6,998.6	104.8	1.9	-76.43	-546.5	525.6	4,869.3	4,764.4	104.94	46.400	
12,598.4	7,116.6	7,000.0	6,998.6	106.7	1.9	-76.43	-546.5	525.6	4,967.1	4,860.3	106.77	46.522	
12,600.0	7,116.6	7,000.0	6,998.6	106.7	1.9	-76.43	-546.5	525.6	4,968.7	4,861.9	106.80	46.524	
12,696.8	7,116.4	7,000.0	6,998.6	108.6	1.9	-76.43	-546.5	525.6	5,064.9	4,956.3	108.59	46.640	
12,700.0	7,116.4	7,000.0	6,998.6	108.6	1.9	-76.43	-546.5	525.6	5,068.0	4,959.4	108.65	46.644	
12,795.2	7,116.2	7,000.0	6,998.6	110.4	1.9	-76.43	-546.5	525.6	5,162.7	5,052.3	110.42	46.755	
12,800.0	7,116.2	7,000.0	6,998.6	110.5	1.9	-76.43	-546.5	525.6	5,167.4	5,056.9	110.51	46.760	
12,893.7	7,116.0	7,000.0	6,998.6	112.3	1.9	-76.43	-546.5	525.6	5,260.5	5,148.3	112.25	46.865	
12,900.0	7,116.0	7,000.0	6,998.6	112.4	1.9	-76.43	-546.5	525.6	5,266.8	5,154.5	112.37	46.872	
12,992.1	7,115.7	7,000.0	6,998.6	114.2	1.9	-76.43	-546.5	525.6	5,358.4	5,244.3	114.08	46.972	
13,000.0	7,115.7	7,000.0	6,998.6	114.3	1.9	-76.43	-546.5	525.6	5,366.3	5,252.0	114.22	46.981	
13,090.5	7,115.5	7,000.0	6,998.6	116.1	1.9	-76.43	-546.5	525.6	5,456.3	5,340.4	115.90	47.076	
13,100.0	7,115.5	7,000.0	6,998.6	116.2	1.9	-76.43	-546.5	525.6	5,465.7	5,349.6	116.08	47.086	
13,188.9	7,115.3	7,000.0	6,998.6	117.9	1.9	-76.43	-546.5	525.6	5,554.2	5,436.5	117.73	47.176	
13,200.0	7,115.3	7,000.0	6,998.6	118.1	1.9	-76.43	-546.5	525.6	5,565.2	5,447.2	117.94	47.187	
13,287.4	7,115.1	7,000.0	6,998.6	119.8	1.9	-76.43	-546.5	525.6	5,652.1	5,532.5	119.56	47.273	
13,300.0	7,115.1	7,000.0	6,998.6	120.0	1.9	-76.43	-546.5	525.6	5,664.7	5,544.9	119.80	47.286	
13,385.8	7,114.9	7,000.0	6,998.6	121.7	1.9	-76.43	-546.5	525.6	5,750.1	5,628.7	121.39	47.368	
13,400.0	7,114.8	7,000.0	6,998.6	121.9	1.9	-76.43	-546.5	525.6	5,764.2	5,642.5	121.66	47.381	
13,484.2	7,114.6	7,000.0	6,998.6	123.6	1.9	-76.43	-546.5	525.6	5,848.0	5,724.8	123.22	47.459	
13,500.0	7,114.6	7,000.0	6,998.6	123.9	1.9	-76.43	-546.5	525.6	5,863.7	5,740.2	123.52	47.473	
13,582.6	7,114.4	7,000.0	6,998.6	125.4	1.9	-76.43	-546.5	525.6	5,946.0	5,820.9	125.05	47.547	
13,600.0	7,114.4	7,000.0	6,998.6	125.8	1.9	-76.43	-546.5	525.6	5,963.3	5,837.9	125.38	47.563	
13,681.1	7,114.2	7,000.0	6,998.6	127.3	1.9	-76.43	-546.5	525.6	6,044.0	5,917.1	126.88	47.633	
13,700.0	7,114.2	7,000.0	6,998.6	127.7	1.9	-76.43	-546.5	525.6	6,062.8	5,935.6	127.24	47.650	
13,779.5	7,114.0	7,000.0	6,998.6	129.2	1.9	-76.43	-546.5	525.6	6,142.0	6,013.3	128.72	47.717	
13,800.0	7,113.9	7,000.0	6,998.6	129.6	1.9	-76.43	-546.5	525.6	6,162.4	6,033.3	129.10	47.734	
13,877.9	7,113.8	7,000.0	6,998.6	131.1	1.9	-76.43	-546.5	525.6	6,240.0	6,109.4	130.55	47.798	
13,900.0	7,113.7	7,000.0	6,998.6	131.5	1.9	-76.43	-546.5	525.6	6,262.0	6,131.0	130.96	47.816	
13,976.3	7,113.5	7,000.0	6,998.6	132.9	1.9	-76.43	-546.5	525.6	6,338.0	6,205.6	132.38	47.877	
14,000.0	7,113.5	7,000.0	6,998.6	133.4	1.9	-76.43	-546.5	525.6	6,361.6	6,228.7	132.82	47.896	
14,074.8	7,113.3	7,000.0	6,998.6	134.8	1.9	-76.43	-546.5	525.6	6,436.0	6,301.8	134.21	47.954	
14,100.0	7,113.3	7,000.0	6,998.6	135.3	1.9	-76.43	-546.5	525.6	6,461.2	6,326.5	134.68	47.973	
14,173.2	7,113.1	7,000.0	6,998.6	136.7	1.9	-76.43	-546.5	525.6	6,534.1	6,398.1	136.05	48.028	
14,200.0	7,113.0	7,000.0	6,998.6	137.2	1.9	-76.43	-546.5	525.6	6,560.8	6,424.3	136.55	48.048	
14,219.1	7,113.0	7,000.0	6,998.6	137.6	1.9	-76.43	-546.5	525.6	6,579.9	6,443.0	136.90	48.062	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis 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	-158.88	-1,595.7	-616.2	1,710.6				
98.4	98.4	76.9	76.9	0.1	0.0	-158.88	-1,595.6	-616.4	1,710.5	1,710.4	0.14	N/A	
100.0	100.0	78.5	78.5	0.1	0.0	-158.88	-1,595.6	-616.4	1,710.5	1,710.4	0.14	N/A	
196.8	196.8	163.5	163.4	0.3	0.1	-158.86	-1,595.7	-616.9	1,710.9	1,710.4	0.44	3,846.350	
200.0	200.0	166.1	166.1	0.3	0.1	-158.86	-1,595.8	-616.9	1,710.9	1,710.4	0.45	3,761.957	
295.3	295.3	266.1	266.1	0.5	0.2	-158.86	-1,596.6	-617.2	1,711.7	1,711.0	0.78	2,208.578	
300.0	300.0	271.8	271.8	0.5	0.2	-158.86	-1,596.6	-617.2	1,711.8	1,711.0	0.79	2,162.468	
393.7	393.7	373.4	373.4	0.8	0.3	-158.85	-1,596.6	-617.6	1,711.9	1,710.8	1.06	1,616.268	
400.0	400.0	380.0	380.0	0.8	0.3	-158.85	-1,596.6	-617.6	1,711.9	1,710.8	1.08	1,591.283	
440.1	440.1	419.6	419.6	0.9	0.3	-158.84	-1,596.4	-618.0	1,711.9	1,710.7	1.19	1,444.549	
492.1	492.1	468.1	468.1	1.0	0.4	-158.83	-1,596.3	-618.4	1,711.9	1,710.6	1.33	1,286.333	
500.0	500.0	475.4	475.4	1.0	0.4	-158.82	-1,596.3	-618.4	1,711.9	1,710.6	1.35	1,265.363	
590.5	590.5	568.7	568.7	1.2	0.4	-158.80	-1,596.3	-619.0	1,712.2	1,710.5	1.61	1,065.586	
600.0	600.0	578.8	578.8	1.2	0.4	-158.80	-1,596.3	-619.1	1,712.2	1,710.5	1.63	1,048.303	
689.0	689.0	664.2	664.2	1.4	0.5	-158.78	-1,596.1	-619.8	1,712.2	1,710.4	1.87	913.373	
700.0	700.0	674.5	674.5	1.4	0.5	-158.78	-1,596.1	-619.8	1,712.3	1,710.4	1.90	899.181	
787.4	787.4	770.1	770.1	1.6	0.5	-158.75	-1,596.0	-620.6	1,712.4	1,710.3	2.14	800.807	
800.0	800.0	784.8	784.8	1.7	0.5	-158.75	-1,595.9	-620.7	1,712.4	1,710.2	2.17	788.362	
858.3	858.3	837.8	837.8	1.8	0.5	-158.73	-1,595.6	-621.2	1,712.2	1,709.9	2.32	737.709	
885.8	885.8	860.7	860.7	1.9	0.6	-158.72	-1,595.5	-621.4	1,712.3	1,709.9	2.39	716.354	
900.0	900.0	872.5	872.5	1.9	0.6	-158.72	-1,595.5	-621.5	1,712.3	1,709.9	2.43	705.831	
984.2	984.2	951.5	951.4	2.1	0.6	-158.69	-1,595.8	-622.4	1,712.9	1,710.2	2.65	647.062	
1,000.0	1,000.0	967.3	967.3	2.1	0.6	-158.69	-1,595.8	-622.5	1,713.0	1,710.3	2.69	636.890	
1,082.7	1,082.7	1,051.7	1,051.7	2.3	0.6	-158.67	-1,596.1	-623.3	1,713.6	1,710.7	2.91	588.522	
1,100.0	1,100.0	1,069.6	1,069.5	2.3	0.7	-158.67	-1,596.2	-623.4	1,713.7	1,710.7	2.96	579.321	
1,181.1	1,181.1	1,150.3	1,150.3	2.5	0.7	-158.66	-1,596.6	-623.8	1,714.1	1,711.0	3.17	540.444	
1,200.0	1,200.0	1,168.7	1,168.7	2.6	0.7	-158.66	-1,596.7	-623.8	1,714.2	1,711.0	3.22	532.204	
1,279.5	1,279.5	1,247.1	1,247.1	2.7	0.7	-158.66	-1,597.2	-623.9	1,714.8	1,711.3	3.43	499.898	
1,300.0	1,300.0	1,267.4	1,267.4	2.8	0.7	-158.66	-1,597.3	-623.9	1,714.9	1,711.4	3.48	492.168	
1,377.9	1,377.9	1,350.1	1,350.1	3.0	0.8	-154.38	-1,597.8	-624.2	1,716.4	1,712.7	3.69	465.630	
1,400.0	1,400.0	1,374.6	1,374.6	3.0	0.8	-154.39	-1,597.9	-624.3	1,717.1	1,713.3	3.74	458.567	
1,476.4	1,476.3	1,455.1	1,455.0	3.2	0.8	-154.40	-1,597.9	-624.5	1,720.5	1,716.5	3.94	436.121	
1,500.0	1,499.8	1,479.4	1,479.4	3.2	0.8	-154.41	-1,597.8	-624.6	1,721.9	1,717.9	4.01	429.735	
1,574.8	1,574.4	1,559.8	1,559.7	3.4	0.8	-154.44	-1,597.5	-625.1	1,727.4	1,723.2	4.20	410.965	
1,600.0	1,599.5	1,587.3	1,587.2	3.5	0.8	-154.45	-1,597.3	-625.3	1,729.5	1,725.3	4.27	405.145	
1,673.2	1,672.2	1,654.3	1,654.2	3.6	0.9	-154.48	-1,596.8	-625.9	1,737.0	1,732.6	4.46	389.298	
1,700.0	1,698.7	1,677.9	1,677.8	3.7	0.9	-154.49	-1,596.7	-626.1	1,740.3	1,735.7	4.53	383.947	
1,771.6	1,769.5	1,742.4	1,742.4	3.9	0.9	-154.52	-1,596.6	-626.7	1,750.2	1,745.5	4.73	369.900	
1,800.0	1,797.5	1,768.3	1,768.2	4.0	0.9	-154.53	-1,596.6	-627.1	1,754.7	1,749.9	4.81	364.700	
1,870.1	1,866.3	1,834.7	1,834.6	4.2	0.9	-154.56	-1,596.6	-628.2	1,766.9	1,761.9	5.01	352.367	
1,900.1	1,895.8	1,864.3	1,864.2	4.3	0.9	-154.58	-1,596.6	-628.9	1,772.6	1,767.5	5.10	347.471	
1,968.5	1,962.6	1,932.6	1,932.5	4.5	1.0	-154.72	-1,596.4	-630.6	1,785.9	1,780.6	5.29	337.366	
2,000.0	1,993.4	1,964.5	1,964.4	4.6	1.0	-154.79	-1,596.3	-631.3	1,792.0	1,786.6	5.38	333.002	
2,066.9	2,058.9	2,043.7	2,043.5	4.8	1.0	-154.97	-1,595.9	-632.7	1,804.8	1,799.3	5.57	323.935	
2,100.0	2,091.3	2,088.9	2,088.8	4.9	1.0	-155.07	-1,595.4	-633.4	1,810.9	1,805.2	5.66	319.963	
2,165.3	2,155.2	2,146.5	2,146.4	5.1	1.0	-155.20	-1,594.5	-634.2	1,822.7	1,816.8	5.84	312.089	
2,200.0	2,189.1	2,174.6	2,174.5	5.3	1.1	-155.27	-1,594.2	-634.6	1,829.1	1,823.1	5.94	307.969	
2,263.8	2,251.4	2,238.2	2,238.1	5.5	1.1	-155.41	-1,593.8	-635.5	1,841.1	1,834.9	6.12	300.677	
2,300.0	2,286.9	2,281.0	2,280.9	5.6	1.1	-155.50	-1,593.3	-636.1	1,847.7	1,841.5	6.23	296.590	
2,362.2	2,347.7	2,342.6	2,342.4	5.9	1.1	-155.63	-1,592.4	-637.0	1,859.0	1,852.6	6.41	290.037	
2,400.0	2,384.7	2,377.4	2,377.2	6.0	1.1	-155.71	-1,592.0	-637.4	1,865.9	1,859.4	6.52	286.216	
2,460.6	2,444.0	2,437.5	2,437.3	6.3	1.1	-155.84	-1,591.2	-638.3	1,877.0	1,870.3	6.70	280.196	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,500.0	2,482.5	2,478.3	2,478.1	6.4	1.2	-155.92	-1,590.7	-638.8	1,884.2	1,877.4	6.82	276.460	
2,559.0	2,540.3	2,537.2	2,537.0	6.6	1.2	-156.04	-1,589.8	-639.7	1,895.0	1,888.0	6.99	271.080	
2,600.0	2,580.3	2,577.2	2,577.0	6.8	1.2	-156.12	-1,589.3	-640.2	1,902.4	1,895.3	7.11	267.508	
2,617.6	2,597.5	2,594.4	2,594.2	6.9	1.2	-156.16	-1,589.0	-640.5	1,905.6	1,898.5	7.16	266.006	
2,657.5	2,636.6	2,631.9	2,631.6	7.0	1.2	-156.29	-1,588.5	-641.0	1,912.6	1,905.4	7.26	263.380	
2,700.0	2,678.4	2,671.6	2,671.4	7.2	1.2	-156.42	-1,588.0	-641.6	1,919.6	1,912.3	7.37	260.595	
2,755.9	2,733.5	2,728.6	2,728.4	7.3	1.2	-156.57	-1,587.3	-642.3	1,928.0	1,920.5	7.48	257.640	
2,800.0	2,777.0	2,778.0	2,777.8	7.4	1.2	-156.68	-1,586.6	-643.0	1,933.8	1,926.2	7.58	255.261	
2,854.3	2,830.9	2,829.8	2,829.6	7.6	1.3	-156.78	-1,585.6	-643.9	1,940.0	1,932.3	7.69	252.430	
2,900.0	2,876.2	2,869.1	2,868.8	7.7	1.3	-156.85	-1,585.1	-644.5	1,944.6	1,936.8	7.78	250.059	
2,952.7	2,928.7	2,919.5	2,919.2	7.8	1.3	-156.92	-1,584.5	-645.3	1,949.2	1,941.3	7.88	247.409	
3,000.0	2,975.8	2,974.4	2,974.2	7.9	1.3	-156.97	-1,583.9	-646.0	1,952.5	1,944.5	7.97	244.943	
3,051.2	3,026.8	3,026.6	3,026.3	8.0	1.3	-157.01	-1,583.1	-646.6	1,955.1	1,947.1	8.07	242.379	
3,100.0	3,075.6	3,071.1	3,070.8	8.1	1.3	-157.03	-1,582.5	-647.1	1,956.9	1,948.8	8.16	239.921	
3,149.6	3,125.2	3,118.3	3,118.0	8.2	1.4	-157.03	-1,581.9	-647.6	1,958.0	1,949.8	8.24	237.537	
3,200.0	3,175.6	3,169.7	3,169.4	8.3	1.4	-157.03	-1,581.5	-647.9	1,958.4	1,950.0	8.33	235.113	
3,217.7	3,193.3	3,187.8	3,187.5	8.3	1.4	-161.31	-1,581.3	-647.9	1,958.3	1,949.9	8.36	234.384	
3,248.0	3,223.6	3,215.1	3,214.8	8.4	1.4	-161.32	-1,581.1	-647.8	1,958.1	1,949.7	8.41	232.692	
3,300.0	3,275.6	3,258.1	3,257.8	8.5	1.4	-161.32	-1,581.1	-647.5	1,957.9	1,949.4	8.52	229.888	
3,314.5	3,290.1	3,270.2	3,269.9	8.5	1.4	-161.33	-1,581.1	-647.4	1,957.9	1,949.3	8.55	229.047	
3,346.4	3,322.0	3,300.0	3,299.7	8.6	1.4	-161.34	-1,581.3	-647.1	1,957.9	1,949.3	8.62	227.226	
3,400.0	3,375.6	3,357.6	3,357.3	8.7	1.4	-161.36	-1,581.6	-646.3	1,958.0	1,949.2	8.74	224.075	
3,444.9	3,420.4	3,409.8	3,409.5	8.7	1.4	-161.38	-1,581.6	-645.6	1,957.8	1,949.0	8.84	221.471	
3,500.0	3,475.6	3,473.5	3,473.2	8.8	1.4	-161.39	-1,581.4	-645.1	1,957.5	1,948.5	8.96	218.414	
3,543.3	3,518.9	3,523.1	3,522.7	8.9	1.4	-161.39	-1,580.8	-644.9	1,957.0	1,947.9	9.06	216.006	
3,600.0	3,575.6	3,587.3	3,587.0	9.0	1.4	-161.37	-1,579.8	-645.2	1,956.2	1,947.0	9.19	212.856	
3,641.7	3,617.3	3,631.9	3,631.5	9.1	1.4	-161.35	-1,578.8	-645.6	1,955.4	1,946.2	9.29	210.567	
3,700.0	3,675.6	3,692.8	3,692.4	9.2	1.4	-161.33	-1,577.5	-646.0	1,954.4	1,944.9	9.42	207.441	
3,740.1	3,715.7	3,729.7	3,729.3	9.3	1.4	-161.31	-1,576.7	-646.3	1,953.6	1,944.1	9.51	205.358	
3,800.0	3,775.6	3,783.2	3,782.8	9.4	1.4	-161.29	-1,575.6	-646.8	1,952.7	1,943.0	9.65	202.349	
3,838.6	3,814.1	3,818.9	3,818.5	9.5	1.4	-161.27	-1,575.0	-647.2	1,952.2	1,942.4	9.74	200.455	
3,900.0	3,875.6	3,877.4	3,877.0	9.6	1.5	-161.24	-1,574.0	-647.9	1,951.4	1,941.5	9.88	197.509	
3,937.0	3,912.6	3,911.7	3,911.3	9.7	1.5	-161.22	-1,573.4	-648.5	1,951.0	1,941.1	9.97	195.780	
4,000.0	3,975.6	3,967.4	3,967.0	9.8	1.5	-161.19	-1,572.6	-649.5	1,950.5	1,940.4	10.11	192.933	
4,035.4	4,011.0	4,000.0	3,999.5	9.9	1.5	-161.16	-1,572.2	-650.2	1,950.3	1,940.2	10.19	191.370	
4,078.2	4,053.7	4,033.7	4,033.2	9.9	1.5	-161.14	-1,571.8	-651.0	1,950.3	1,940.0	10.29	189.558	
4,100.0	4,075.6	4,051.5	4,051.0	10.0	1.5	-161.13	-1,571.7	-651.4	1,950.3	1,939.9	10.34	188.651	
4,133.8	4,109.4	4,079.1	4,078.6	10.0	1.5	-161.11	-1,571.6	-652.0	1,950.4	1,940.0	10.42	187.266	
4,200.0	4,175.6	4,132.5	4,132.0	10.2	1.5	-161.08	-1,571.7	-653.1	1,951.0	1,940.4	10.57	184.658	
4,232.3	4,207.8	4,158.5	4,158.0	10.2	1.5	-161.07	-1,571.9	-653.6	1,951.4	1,940.8	10.64	183.427	
4,300.0	4,275.6	4,216.2	4,215.7	10.4	1.6	-161.04	-1,572.7	-654.7	1,952.6	1,941.8	10.79	180.917	
4,330.7	4,306.3	4,247.3	4,246.8	10.4	1.6	-161.03	-1,573.1	-655.3	1,953.3	1,942.4	10.86	179.787	
4,400.0	4,375.6	4,314.2	4,313.7	10.6	1.6	-161.00	-1,574.0	-656.7	1,954.6	1,943.6	11.02	177.298	
4,429.1	4,404.7	4,338.2	4,337.7	10.6	1.6	-160.99	-1,574.4	-657.2	1,955.3	1,944.2	11.09	176.291	
4,500.0	4,475.6	4,400.0	4,399.4	10.8	1.6	-160.97	-1,575.8	-658.4	1,957.2	1,946.0	11.25	173.912	
4,527.5	4,503.1	4,422.5	4,421.9	10.8	1.6	-160.97	-1,576.4	-658.7	1,958.0	1,946.7	11.32	173.012	
4,600.0	4,575.6	4,491.8	4,491.2	11.0	1.6	-160.97	-1,578.5	-659.4	1,960.4	1,948.9	11.49	170.678	
4,626.0	4,601.5	4,516.8	4,516.1	11.0	1.6	-160.97	-1,579.3	-659.6	1,961.2	1,949.7	11.55	169.858	
4,700.0	4,675.6	4,588.1	4,587.4	11.2	1.6	-160.97	-1,581.6	-660.4	1,963.7	1,952.0	11.72	167.571	
4,724.4	4,700.0	4,611.9	4,611.2	11.2	1.6	-160.97	-1,582.4	-660.7	1,964.6	1,952.8	11.78	166.829	
4,800.0	4,775.6	4,686.7	4,686.0	11.4	1.6	-160.97	-1,584.8	-661.7	1,967.2	1,955.2	11.95	164.574	
4,822.8	4,798.4	4,709.2	4,708.4	11.4	1.7	-160.97	-1,585.6	-661.9	1,968.0	1,956.0	12.01	163.905	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,875.6	4,784.2	4,783.4	11.6	1.7	-160.97	-1,588.1	-662.6	1,970.8	1,958.6	12.19	161.691	
4,921.2	4,896.8	4,805.6	4,804.8	11.6	1.7	-160.97	-1,588.9	-662.9	1,971.5	1,959.3	12.24	161.091	
5,000.0	4,975.6	4,895.1	4,894.3	11.8	1.7	-160.98	-1,591.9	-663.4	1,974.2	1,961.8	12.43	158.869	
5,019.7	4,995.2	4,915.4	4,914.5	11.8	1.7	-160.99	-1,592.5	-663.5	1,974.8	1,962.3	12.47	158.322	
5,100.0	5,075.6	4,995.9	4,994.9	12.0	1.7	-161.00	-1,594.9	-664.0	1,977.2	1,964.6	12.66	156.139	
5,118.1	5,093.7	5,017.4	5,016.5	12.0	1.7	-161.00	-1,595.5	-664.1	1,977.8	1,965.1	12.71	155.646	
5,200.0	5,175.6	5,116.6	5,115.6	12.2	1.7	-161.03	-1,598.1	-664.1	1,979.7	1,966.8	12.90	153.424	
5,216.5	5,192.1	5,134.2	5,133.2	12.2	1.7	-161.03	-1,598.5	-664.0	1,980.0	1,967.1	12.94	152.980	
5,300.0	5,275.6	5,223.3	5,222.3	12.4	1.7	-161.06	-1,600.3	-663.7	1,981.5	1,968.4	13.14	150.774	
5,314.9	5,290.5	5,239.2	5,238.2	12.4	1.7	-161.06	-1,600.6	-663.6	1,981.8	1,968.6	13.18	150.383	
5,400.0	5,375.6	5,336.9	5,335.9	12.6	1.7	-161.10	-1,602.2	-662.9	1,983.0	1,969.6	13.38	148.202	
5,413.4	5,388.9	5,354.5	5,353.4	12.6	1.7	-161.11	-1,602.5	-662.7	1,983.1	1,969.7	13.41	147.864	
5,500.0	5,475.6	5,449.0	5,448.0	12.8	1.7	-161.15	-1,603.3	-661.4	1,983.4	1,969.8	13.62	145.668	
5,511.8	5,487.4	5,460.2	5,459.2	12.8	1.7	-161.15	-1,603.4	-661.2	1,983.4	1,969.8	13.64	145.378	
5,600.0	5,575.6	5,550.1	5,549.0	13.0	1.7	-161.19	-1,604.2	-660.0	1,983.8	1,970.0	13.85	143.237	
5,610.2	5,585.8	5,561.2	5,560.2	13.0	1.7	-161.20	-1,604.3	-659.9	1,983.8	1,970.0	13.87	142.991	
5,700.0	5,675.6	5,673.1	5,672.1	13.2	1.7	-161.23	-1,604.5	-658.7	1,983.7	1,969.6	14.08	140.874	
5,708.6	5,684.2	5,684.8	5,683.8	13.2	1.7	-161.23	-1,604.4	-658.6	1,983.6	1,969.5	14.10	140.671	
5,800.0	5,775.6	5,775.7	5,774.7	13.4	1.7	-161.25	-1,603.6	-657.9	1,982.6	1,968.3	14.31	138.565	
5,807.1	5,782.6	5,782.4	5,781.3	13.4	1.7	-161.25	-1,603.5	-657.8	1,982.5	1,968.2	14.32	138.404	
5,900.0	5,875.6	5,870.8	5,869.7	13.6	1.7	-161.25	-1,602.9	-657.3	1,981.8	1,967.2	14.53	136.344	
5,905.5	5,881.1	5,876.0	5,875.0	13.6	1.7	-161.26	-1,602.9	-657.3	1,981.7	1,967.2	14.55	136.223	
6,000.0	5,975.6	5,968.8	5,967.7	13.8	1.7	-161.28	-1,602.5	-656.4	1,981.1	1,966.3	14.76	134.181	
6,003.9	5,979.5	5,972.6	5,971.6	13.8	1.7	-161.28	-1,602.5	-656.4	1,981.1	1,966.3	14.77	134.098	
6,100.0	6,075.6	6,069.7	6,068.6	14.0	1.7	-161.31	-1,602.3	-655.0	1,980.4	1,965.4	14.99	132.074	
6,102.3	6,077.9	6,072.1	6,071.0	14.0	1.7	-161.31	-1,602.3	-655.0	1,980.4	1,965.4	15.00	132.025	
6,200.0	6,175.6	6,186.9	6,185.8	14.2	1.7	-161.36	-1,601.7	-653.0	1,979.4	1,964.2	15.23	129.988	
6,200.8	6,176.3	6,187.9	6,186.8	14.2	1.7	-161.36	-1,601.7	-653.0	1,979.4	1,964.2	15.23	129.972	
6,299.2	6,274.8	6,307.9	6,306.7	14.4	1.7	-161.45	-1,600.2	-649.5	1,977.3	1,961.9	15.46	127.903	
6,300.0	6,275.6	6,308.8	6,307.7	14.4	1.7	-161.45	-1,600.2	-649.5	1,977.3	1,961.8	15.46	127.886	
6,397.6	6,373.2	6,424.1	6,422.8	14.7	1.7	-161.55	-1,597.9	-645.0	1,974.3	1,958.6	15.69	125.836	
6,400.0	6,375.6	6,427.1	6,425.8	14.7	1.7	-161.55	-1,597.9	-644.9	1,974.2	1,958.5	15.70	125.786	
6,436.2	6,411.8	6,472.5	6,471.2	14.7	1.7	-161.59	-1,596.6	-643.2	1,972.8	1,957.1	15.78	125.021	
6,450.0	6,425.6	6,489.7	6,488.4	14.8	1.7	18.21	-1,596.0	-642.6	1,972.1	1,956.3	15.81	124.768	
6,496.0	6,471.5	6,531.1	6,529.8	14.8	1.7	18.31	-1,594.6	-641.3	1,968.0	1,952.1	15.91	123.679	
6,500.0	6,475.5	6,534.4	6,533.0	14.8	1.7	18.33	-1,594.5	-641.2	1,967.5	1,951.6	15.92	123.559	
6,550.0	6,525.1	6,575.2	6,573.8	14.9	1.7	18.55	-1,593.3	-640.2	1,959.8	1,943.7	16.09	121.786	
6,594.5	6,568.7	6,600.0	6,598.6	14.9	1.7	18.84	-1,592.5	-639.7	1,950.4	1,934.1	16.26	119.953	
6,600.0	6,574.1	6,614.8	6,613.4	14.9	1.7	18.90	-1,592.1	-639.5	1,949.0	1,932.7	16.28	119.686	
6,650.0	6,622.4	6,652.5	6,651.0	14.9	1.7	19.37	-1,591.2	-639.0	1,935.3	1,918.8	16.48	117.469	
6,692.9	6,663.0	6,684.2	6,682.7	14.9	1.7	19.88	-1,590.5	-638.8	1,921.3	1,904.6	16.63	115.553	
6,700.0	6,669.6	6,689.4	6,687.9	14.9	1.7	19.97	-1,590.4	-638.7	1,918.7	1,902.1	16.65	115.237	
6,750.0	6,715.6	6,724.7	6,723.3	14.9	1.7	20.72	-1,589.8	-638.6	1,899.3	1,882.5	16.80	113.060	
6,791.3	6,752.5	6,753.0	6,751.5	14.9	1.7	21.45	-1,589.4	-638.5	1,881.3	1,864.4	16.90	111.313	
6,800.0	6,760.1	6,758.8	6,757.4	14.9	1.7	21.62	-1,589.3	-638.5	1,877.3	1,860.3	16.92	110.950	
6,850.0	6,802.9	6,800.0	6,798.5	14.9	1.8	22.77	-1,589.0	-638.6	1,852.6	1,835.6	17.02	108.853	
6,889.7	6,835.6	6,820.0	6,818.5	14.9	1.8	23.75	-1,589.0	-638.6	1,831.1	1,814.1	17.07	107.264	
6,900.0	6,843.8	6,827.4	6,826.0	14.9	1.8	24.04	-1,589.0	-638.6	1,825.4	1,808.3	17.08	106.840	
6,950.0	6,882.6	6,862.7	6,861.3	14.9	1.8	25.65	-1,588.9	-638.7	1,795.7	1,778.5	17.14	104.738	
6,988.2	6,910.7	6,888.4	6,886.9	15.0	1.8	27.09	-1,589.0	-638.7	1,771.4	1,754.2	17.19	103.061	
7,000.0	6,919.1	6,900.0	6,898.5	15.0	1.8	27.63	-1,589.0	-638.7	1,763.6	1,746.4	17.21	102.500	
7,050.0	6,953.1	6,924.4	6,922.9	15.0	1.8	29.82	-1,589.1	-638.6	1,729.5	1,712.2	17.27	100.158	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,086.6	6,976.4	6,943.6	6,942.1	15.1	1.8	31.72	-1,589.3	-638.6	1,703.2	1,685.9	17.34	98.247	
7,100.0	6,984.5	6,950.4	6,948.9	15.1	1.8	32.48	-1,589.3	-638.6	1,693.3	1,676.0	17.36	97.515	
7,150.0	7,013.1	6,974.3	6,972.8	15.3	1.8	35.65	-1,589.6	-638.5	1,655.5	1,638.0	17.51	94.527	
7,185.0	7,031.4	6,989.8	6,988.3	15.4	1.8	38.22	-1,589.8	-638.5	1,628.0	1,610.3	17.66	92.192	
7,200.0	7,038.8	7,000.0	6,998.5	15.4	1.8	39.54	-1,590.0	-638.5	1,616.0	1,598.3	17.74	91.109	
7,250.0	7,061.4	7,000.0	6,998.5	15.6	1.8	43.26	-1,590.0	-638.5	1,575.3	1,557.3	17.98	87.600	
7,283.4	7,074.8	7,000.0	6,998.5	15.8	1.8	46.06	-1,590.0	-638.5	1,547.5	1,529.3	18.19	85.071	
7,300.0	7,080.9	7,000.0	6,998.5	15.9	1.8	47.55	-1,590.0	-638.5	1,533.7	1,515.4	18.30	83.811	
7,350.0	7,097.1	7,000.0	6,998.5	16.2	1.8	52.47	-1,590.0	-638.5	1,491.2	1,472.5	18.67	79.881	
7,381.9	7,105.7	7,000.0	6,998.5	16.4	1.8	55.96	-1,590.0	-638.5	1,463.8	1,444.9	18.92	77.368	
7,400.0	7,109.9	7,000.0	6,998.5	16.6	1.8	58.06	-1,590.0	-638.5	1,448.1	1,429.0	19.06	75.995	
7,450.0	7,119.4	7,000.0	6,998.5	17.0	1.8	64.30	-1,590.0	-638.5	1,404.5	1,385.1	19.41	72.344	
7,480.3	7,123.4	7,000.0	6,998.5	17.2	1.8	68.36	-1,590.0	-638.5	1,377.9	1,358.3	19.60	70.290	
7,500.0	7,125.4	7,000.0	6,998.5	17.4	1.8	71.09	-1,590.0	-638.5	1,360.6	1,340.9	19.70	69.055	
7,550.0	7,127.9	7,000.0	6,998.5	17.9	1.8	78.25	-1,590.0	-638.5	1,316.6	1,296.6	19.92	66.077	
7,562.9	7,128.0	7,000.0	6,998.5	18.0	1.8	80.13	-1,590.0	-638.5	1,305.2	1,285.3	19.98	65.325	
7,578.7	7,128.0	7,000.0	6,998.5	18.2	1.8	80.13	-1,590.0	-638.5	1,291.3	1,271.2	20.14	64.112	
7,600.0	7,127.9	7,000.0	6,998.5	18.4	1.8	80.13	-1,590.0	-638.5	1,272.7	1,252.3	20.36	62.519	
7,677.1	7,127.7	7,000.0	6,998.5	19.2	1.8	80.13	-1,590.0	-638.5	1,205.9	1,184.7	21.21	56.858	
7,700.0	7,127.7	7,000.0	6,998.5	19.5	1.8	80.13	-1,590.0	-638.5	1,186.4	1,164.9	21.46	55.279	
7,775.6	7,127.5	7,000.0	6,998.5	20.3	1.8	80.13	-1,590.0	-638.5	1,122.6	1,100.4	22.25	50.454	
7,800.0	7,127.5	7,000.0	6,998.5	20.5	1.8	80.13	-1,590.0	-638.5	1,102.4	1,079.9	22.51	48.981	
7,874.0	7,127.3	7,000.0	6,998.5	21.4	1.8	80.13	-1,590.0	-638.5	1,042.0	1,018.7	23.35	44.620	
7,900.0	7,127.2	7,000.0	6,998.5	21.7	1.8	80.13	-1,590.0	-638.5	1,021.3	997.6	23.65	43.180	
7,972.4	7,127.1	7,000.0	6,998.5	22.7	1.8	80.13	-1,590.0	-638.5	964.7	940.1	24.65	39.132	
8,000.0	7,127.0	7,000.0	6,998.5	23.1	1.8	80.13	-1,590.0	-638.5	943.8	918.7	25.03	37.699	
8,070.8	7,126.8	7,000.0	6,998.5	24.2	1.8	80.13	-1,590.0	-638.5	891.6	865.5	26.06	34.209	
8,100.0	7,126.8	7,000.0	6,998.5	24.6	1.8	80.13	-1,590.0	-638.5	870.9	844.4	26.49	32.880	
8,169.3	7,126.6	7,000.0	6,998.5	25.6	1.8	80.13	-1,590.0	-638.5	823.8	796.2	27.53	29.919	
8,200.0	7,126.6	7,000.0	6,998.5	26.1	1.8	80.13	-1,590.0	-638.5	803.9	775.9	28.00	28.713	
8,267.7	7,126.4	7,000.0	6,998.5	27.2	1.8	80.13	-1,590.0	-638.5	762.6	733.6	29.05	26.250	
8,300.0	7,126.3	7,000.0	6,998.5	27.7	1.8	80.13	-1,590.0	-638.5	744.3	714.7	29.55	25.183	
8,366.1	7,126.2	7,000.0	6,998.5	28.8	1.8	80.13	-1,590.0	-638.5	709.9	679.3	30.61	23.190	
8,400.0	7,126.1	7,000.0	6,998.5	29.3	1.8	80.13	-1,590.0	-638.5	694.1	662.9	31.15	22.279	
8,464.5	7,126.0	7,000.0	6,998.5	30.4	1.8	80.13	-1,590.0	-638.5	667.6	635.4	32.21	20.729	
8,500.0	7,125.9	7,000.0	6,998.5	31.0	1.8	80.13	-1,590.0	-638.5	655.3	622.5	32.78	19.989	
8,563.0	7,125.7	7,000.0	6,998.5	32.0	1.8	80.13	-1,590.0	-638.5	637.8	604.0	33.83	18.853	
8,600.0	7,125.6	7,000.0	6,998.5	32.6	1.8	80.13	-1,590.0	-638.5	630.2	595.8	34.45	18.297	
8,661.4	7,125.5	7,000.0	6,998.5	33.7	1.8	80.13	-1,590.0	-638.5	622.4	586.9	35.48	17.541	
8,700.0	7,125.4	7,000.0	6,998.5	34.4	1.8	80.13	-1,590.0	-638.5	620.5	584.3	36.13	17.172	
8,711.3	7,125.4	7,000.0	6,998.5	34.5	1.8	80.13	-1,590.0	-638.5	620.4	584.0	36.32	17.079 CC, ES	
8,759.8	7,125.3	7,000.0	6,998.5	35.4	1.8	80.13	-1,590.0	-638.5	622.2	585.1	37.15	16.749	
8,800.0	7,125.2	7,000.0	6,998.5	36.1	1.8	80.13	-1,590.0	-638.5	626.7	588.8	37.84	16.562	
8,858.2	7,125.1	7,000.0	6,998.5	37.1	1.8	80.13	-1,590.0	-638.5	637.5	598.7	38.84	16.413	
8,900.0	7,125.0	7,000.0	6,998.5	37.8	1.8	80.13	-1,590.0	-638.5	648.4	608.9	39.56	16.390 SF	
8,956.7	7,124.8	7,000.0	6,998.5	38.8	1.8	80.13	-1,590.0	-638.5	667.1	626.6	40.55	16.453	
9,000.0	7,124.7	7,000.0	6,998.5	39.6	1.8	80.13	-1,590.0	-638.5	684.3	643.0	41.30	16.567	
9,055.1	7,124.6	7,000.0	6,998.5	40.6	1.8	80.13	-1,590.0	-638.5	709.3	667.0	42.27	16.780	
9,100.0	7,124.5	7,000.0	6,998.5	41.4	1.8	80.13	-1,590.0	-638.5	732.1	689.0	43.06	17.003	
9,153.5	7,124.4	7,000.0	6,998.5	42.3	1.8	80.13	-1,590.0	-638.5	761.9	717.9	44.00	17.314	
9,200.0	7,124.3	7,000.0	6,998.5	43.2	1.8	80.13	-1,590.0	-638.5	789.8	744.9	44.82	17.619	
9,251.9	7,124.2	7,000.0	6,998.5	44.1	1.8	80.13	-1,590.0	-638.5	822.9	777.2	45.75	17.989	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,300.0	7,124.1	7,000.0	6,998.5	45.0	1.8	80.13	-1,590.0	-638.5	855.3	808.7	46.60	18.353	
9,350.4	7,123.9	7,000.0	6,998.5	45.9	1.8	80.13	-1,590.0	-638.5	890.7	843.2	47.50	18.751	
9,400.0	7,123.8	7,000.0	6,998.5	46.8	1.8	80.13	-1,590.0	-638.5	926.9	878.5	48.39	19.157	
9,448.8	7,123.7	7,000.0	6,998.5	47.7	1.8	80.13	-1,590.0	-638.5	963.7	914.5	49.26	19.564	
9,500.0	7,123.6	7,000.0	6,998.5	48.6	1.8	80.13	-1,590.0	-638.5	1,003.5	953.3	50.18	19.997	
9,547.2	7,123.5	7,000.0	6,998.5	49.4	1.8	80.13	-1,590.0	-638.5	1,041.0	990.0	51.03	20.399	
9,600.0	7,123.4	7,000.0	6,998.5	50.4	1.8	80.13	-1,590.0	-638.5	1,083.8	1,031.9	51.98	20.850	
9,645.6	7,123.3	7,000.0	6,998.5	51.2	1.8	80.13	-1,590.0	-638.5	1,121.6	1,068.8	52.81	21.238	
9,700.0	7,123.2	7,000.0	6,998.5	52.2	1.8	80.13	-1,590.0	-638.5	1,167.2	1,113.4	53.79	21.699	
9,744.1	7,123.1	7,000.0	6,998.5	53.1	1.8	80.13	-1,590.0	-638.5	1,204.8	1,150.2	54.59	22.069	
9,800.0	7,122.9	7,000.0	6,998.5	54.1	1.8	80.13	-1,590.0	-638.5	1,253.1	1,197.5	55.61	22.535	
9,842.5	7,122.8	7,000.0	6,998.5	54.9	1.8	80.13	-1,590.0	-638.5	1,290.2	1,233.8	56.38	22.883	
9,900.0	7,122.7	7,000.0	6,998.5	55.9	1.8	80.13	-1,590.0	-638.5	1,340.9	1,283.5	57.43	23.349	
9,940.9	7,122.6	7,000.0	6,998.5	56.7	1.8	80.13	-1,590.0	-638.5	1,377.3	1,319.1	58.17	23.675	
10,000.0	7,122.5	7,000.0	6,998.5	57.8	1.8	80.13	-1,590.0	-638.5	1,430.3	1,371.0	59.25	24.139	
10,039.3	7,122.4	7,000.0	6,998.5	58.5	1.8	80.13	-1,590.0	-638.5	1,465.8	1,405.9	59.97	24.442	
10,100.0	7,122.3	7,000.0	6,998.5	59.6	1.8	80.13	-1,590.0	-638.5	1,521.0	1,459.9	61.08	24.901	
10,137.8	7,122.2	7,000.0	6,998.5	60.3	1.8	80.13	-1,590.0	-638.5	1,555.6	1,493.8	61.77	25.181	
10,200.0	7,122.0	7,000.0	6,998.5	61.5	1.8	80.13	-1,590.0	-638.5	1,612.8	1,549.9	62.92	25.635	
10,236.2	7,121.9	7,000.0	6,998.5	62.2	1.8	80.13	-1,590.0	-638.5	1,646.3	1,582.7	63.58	25.893	
10,300.0	7,121.8	7,000.0	6,998.5	63.3	1.8	80.13	-1,590.0	-638.5	1,705.6	1,640.8	64.75	26.340	
10,334.6	7,121.7	7,000.0	6,998.5	64.0	1.8	80.13	-1,590.0	-638.5	1,737.9	1,672.5	65.39	26.577	
10,400.0	7,121.6	7,000.0	6,998.5	65.2	1.8	80.13	-1,590.0	-638.5	1,799.1	1,732.5	66.59	27.016	
10,433.0	7,121.5	7,000.0	6,998.5	65.8	1.8	80.13	-1,590.0	-638.5	1,830.1	1,762.9	67.20	27.233	
10,500.0	7,121.4	7,000.0	6,998.5	67.1	1.8	80.13	-1,590.0	-638.5	1,893.3	1,824.8	68.44	27.664	
10,531.5	7,121.3	7,000.0	6,998.5	67.7	1.8	80.13	-1,590.0	-638.5	1,923.0	1,854.0	69.02	27.863	
10,600.0	7,121.1	7,000.0	6,998.5	69.0	1.8	80.13	-1,590.0	-638.5	1,988.0	1,917.7	70.28	28.286	
10,629.9	7,121.1	7,000.0	6,998.5	69.5	1.8	80.13	-1,590.0	-638.5	2,016.4	1,945.6	70.84	28.466	
10,700.0	7,120.9	7,000.0	6,998.5	70.8	1.8	80.13	-1,590.0	-638.5	2,083.3	2,011.1	72.13	28.881	
10,728.3	7,120.8	7,000.0	6,998.5	71.4	1.8	80.13	-1,590.0	-638.5	2,110.3	2,037.7	72.66	29.045	
10,800.0	7,120.7	7,000.0	6,998.5	72.7	1.8	80.13	-1,590.0	-638.5	2,178.9	2,104.9	73.98	29.451	
10,826.7	7,120.6	7,000.0	6,998.5	73.2	1.8	80.13	-1,590.0	-638.5	2,204.6	2,130.1	74.48	29.600	
10,900.0	7,120.5	7,000.0	6,998.5	74.6	1.8	80.13	-1,590.0	-638.5	2,275.0	2,199.1	75.84	29.998	
10,925.2	7,120.4	7,000.0	6,998.5	75.1	1.8	80.13	-1,590.0	-638.5	2,299.2	2,222.9	76.31	30.132	
11,000.0	7,120.2	7,000.0	6,998.5	76.5	1.8	80.13	-1,590.0	-638.5	2,371.3	2,293.6	77.69	30.522	
11,023.6	7,120.2	7,000.0	6,998.5	76.9	1.8	80.13	-1,590.0	-638.5	2,394.1	2,316.0	78.13	30.642	
11,100.0	7,120.0	7,000.0	6,998.5	78.3	1.8	80.13	-1,590.0	-638.5	2,468.0	2,388.4	79.55	31.024	
11,122.0	7,120.0	7,000.0	6,998.5	78.8	1.8	80.13	-1,590.0	-638.5	2,489.3	2,409.3	79.96	31.132	
11,200.0	7,119.8	7,000.0	6,998.5	80.2	1.8	80.13	-1,590.0	-638.5	2,564.9	2,483.5	81.41	31.506	
11,220.4	7,119.7	7,000.0	6,998.5	80.6	1.8	80.13	-1,590.0	-638.5	2,584.7	2,503.0	81.79	31.602	
11,300.0	7,119.5	7,000.0	6,998.5	82.1	1.8	80.13	-1,590.0	-638.5	2,662.0	2,578.8	83.27	31.968	
11,318.9	7,119.5	7,000.0	6,998.5	82.5	1.8	80.13	-1,590.0	-638.5	2,680.4	2,596.8	83.62	32.053	
11,400.0	7,119.3	7,000.0	6,998.5	84.0	1.8	80.13	-1,590.0	-638.5	2,759.4	2,674.3	85.13	32.412	
11,417.3	7,119.3	7,000.0	6,998.5	84.3	1.8	80.13	-1,590.0	-638.5	2,776.2	2,690.8	85.46	32.487	
11,500.0	7,119.1	7,000.0	6,998.5	85.9	1.8	80.13	-1,590.0	-638.5	2,856.9	2,769.9	87.00	32.838	
11,515.7	7,119.1	7,000.0	6,998.5	86.2	1.8	80.13	-1,590.0	-638.5	2,872.3	2,785.0	87.29	32.904	
11,600.0	7,118.9	7,000.0	6,998.5	87.8	1.8	80.13	-1,590.0	-638.5	2,954.6	2,865.7	88.86	33.248	
11,614.1	7,118.8	7,000.0	6,998.5	88.0	1.8	80.13	-1,590.0	-638.5	2,968.4	2,879.3	89.13	33.305	
11,700.0	7,118.6	7,000.0	6,998.5	89.7	1.8	80.13	-1,590.0	-638.5	3,052.5	2,961.7	90.73	33.643	
11,712.6	7,118.6	7,000.0	6,998.5	89.9	1.8	80.13	-1,590.0	-638.5	3,064.8	2,973.8	90.97	33.691	
11,800.0	7,118.4	7,000.0	6,998.5	91.6	1.8	80.13	-1,590.0	-638.5	3,150.4	3,057.8	92.60	34.022	
11,811.0	7,118.4	7,000.0	6,998.5	91.8	1.8	80.13	-1,590.0	-638.5	3,161.2	3,068.4	92.80	34.063	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
11,900.0	7,118.2	7,000.0	6,998.5	93.4	1.8	80.13	-1,590.0	-638.5	3,248.5	3,154.1	94.47	34.388	
11,909.4	7,118.2	7,000.0	6,998.5	93.6	1.8	80.13	-1,590.0	-638.5	3,257.8	3,163.1	94.64	34.421	
12,000.0	7,118.0	7,000.0	6,998.5	95.3	1.8	80.13	-1,590.0	-638.5	3,346.7	3,250.4	96.34	34.739	
12,007.8	7,118.0	7,000.0	6,998.5	95.5	1.8	80.13	-1,590.0	-638.5	3,354.5	3,258.0	96.49	34.767	
12,100.0	7,117.8	7,000.0	6,998.5	97.2	1.8	80.13	-1,590.0	-638.5	3,445.1	3,346.9	98.21	35.079	
12,106.3	7,117.7	7,000.0	6,998.5	97.4	1.8	80.13	-1,590.0	-638.5	3,451.2	3,352.9	98.33	35.100	
12,200.0	7,117.5	7,000.0	6,998.5	99.1	1.8	80.13	-1,590.0	-638.5	3,543.5	3,443.4	100.08	35.406	
12,204.7	7,117.5	7,000.0	6,998.5	99.2	1.8	80.13	-1,590.0	-638.5	3,548.1	3,447.9	100.17	35.421	
12,300.0	7,117.3	7,000.0	6,998.5	101.0	1.8	80.13	-1,590.0	-638.5	3,642.0	3,540.0	101.95	35.722	
12,303.1	7,117.3	7,000.0	6,998.5	101.1	1.8	80.13	-1,590.0	-638.5	3,645.1	3,543.0	102.01	35.731	
12,400.0	7,117.1	7,000.0	6,998.5	102.9	1.8	80.13	-1,590.0	-638.5	3,740.6	3,636.7	103.83	36.026	
12,401.5	7,117.1	7,000.0	6,998.5	103.0	1.8	80.13	-1,590.0	-638.5	3,742.1	3,638.2	103.86	36.031	
12,500.0	7,116.9	7,000.0	6,998.5	104.8	1.8	80.13	-1,590.0	-638.5	3,839.2	3,733.5	105.70	36.321	
12,598.4	7,116.6	7,000.0	6,998.5	106.7	1.8	80.13	-1,590.0	-638.5	3,936.3	3,828.8	107.55	36.601	
12,600.0	7,116.6	7,000.0	6,998.5	106.7	1.8	80.13	-1,590.0	-638.5	3,937.9	3,830.3	107.58	36.605	
12,696.8	7,116.4	7,000.0	6,998.5	108.6	1.8	80.13	-1,590.0	-638.5	4,033.6	3,924.2	109.39	36.872	
12,700.0	7,116.4	7,000.0	6,998.5	108.6	1.8	80.13	-1,590.0	-638.5	4,036.7	3,927.2	109.45	36.880	
12,795.2	7,116.2	7,000.0	6,998.5	110.4	1.8	80.13	-1,590.0	-638.5	4,130.8	4,019.6	111.24	37.134	
12,800.0	7,116.2	7,000.0	6,998.5	110.5	1.8	80.13	-1,590.0	-638.5	4,135.5	4,024.2	111.33	37.146	
12,893.7	7,116.0	7,000.0	6,998.5	112.3	1.8	80.13	-1,590.0	-638.5	4,228.2	4,115.1	113.09	37.388	
12,900.0	7,116.0	7,000.0	6,998.5	112.4	1.8	80.13	-1,590.0	-638.5	4,234.4	4,121.2	113.21	37.404	
12,992.1	7,115.7	7,000.0	6,998.5	114.2	1.8	80.13	-1,590.0	-638.5	4,325.6	4,210.6	114.94	37.634	
13,000.0	7,115.7	7,000.0	6,998.5	114.3	1.8	80.13	-1,590.0	-638.5	4,333.4	4,218.3	115.09	37.653	
13,090.5	7,115.5	7,000.0	6,998.5	116.1	1.8	80.13	-1,590.0	-638.5	4,423.0	4,306.2	116.79	37.872	
13,100.0	7,115.5	7,000.0	6,998.5	116.2	1.8	80.13	-1,590.0	-638.5	4,432.4	4,315.4	116.96	37.895	
13,188.9	7,115.3	7,000.0	6,998.5	117.9	1.8	80.13	-1,590.0	-638.5	4,520.5	4,401.8	118.64	38.104	
13,200.0	7,115.3	7,000.0	6,998.5	118.1	1.8	80.13	-1,590.0	-638.5	4,531.4	4,412.6	118.84	38.129	
13,287.4	7,115.1	7,000.0	6,998.5	119.8	1.8	80.13	-1,590.0	-638.5	4,618.0	4,497.5	120.49	38.328	
13,300.0	7,115.1	7,000.0	6,998.5	120.0	1.8	80.13	-1,590.0	-638.5	4,630.5	4,509.8	120.72	38.356	
13,385.8	7,114.9	7,000.0	6,998.5	121.7	1.8	80.13	-1,590.0	-638.5	4,715.5	4,593.2	122.34	38.546	
13,400.0	7,114.8	7,000.0	6,998.5	121.9	1.8	80.13	-1,590.0	-638.5	4,729.6	4,607.0	122.60	38.577	
13,484.2	7,114.6	7,000.0	6,998.5	123.6	1.8	80.13	-1,590.0	-638.5	4,813.1	4,688.9	124.19	38.757	
13,500.0	7,114.6	7,000.0	6,998.5	123.9	1.8	80.13	-1,590.0	-638.5	4,828.8	4,704.3	124.48	38.790	
13,582.6	7,114.4	7,000.0	6,998.5	125.4	1.8	80.13	-1,590.0	-638.5	4,910.7	4,784.7	126.04	38.962	
13,600.0	7,114.4	7,000.0	6,998.5	125.8	1.8	80.13	-1,590.0	-638.5	4,928.0	4,801.6	126.36	38.998	
13,681.1	7,114.2	7,000.0	6,998.5	127.3	1.8	80.13	-1,590.0	-638.5	5,008.4	4,880.5	127.89	39.162	
13,700.0	7,114.2	7,000.0	6,998.5	127.7	1.8	80.13	-1,590.0	-638.5	5,027.2	4,898.9	128.25	39.199	
13,779.5	7,114.0	7,000.0	6,998.5	129.2	1.8	80.13	-1,590.0	-638.5	5,106.1	4,976.3	129.74	39.356	
13,800.0	7,113.9	7,000.0	6,998.5	129.6	1.8	80.13	-1,590.0	-638.5	5,126.4	4,996.3	130.13	39.395	
13,877.9	7,113.8	7,000.0	6,998.5	131.1	1.8	80.13	-1,590.0	-638.5	5,203.8	5,072.2	131.59	39.544	
13,900.0	7,113.7	7,000.0	6,998.5	131.5	1.8	80.13	-1,590.0	-638.5	5,225.7	5,093.7	132.01	39.586	
13,976.3	7,113.5	7,000.0	6,998.5	132.9	1.8	80.13	-1,590.0	-638.5	5,301.5	5,168.1	133.45	39.727	
14,000.0	7,113.5	7,000.0	6,998.5	133.4	1.8	80.13	-1,590.0	-638.5	5,325.0	5,191.1	133.89	39.771	
14,074.8	7,113.3	7,000.0	6,998.5	134.8	1.8	80.13	-1,590.0	-638.5	5,399.3	5,264.0	135.30	39.906	
14,100.0	7,113.3	7,000.0	6,998.5	135.3	1.8	80.13	-1,590.0	-638.5	5,424.3	5,288.6	135.78	39.951	
14,173.2	7,113.1	7,000.0	6,998.5	136.7	1.8	80.13	-1,590.0	-638.5	5,497.1	5,359.9	137.15	40.079	
14,200.0	7,113.0	7,000.0	6,998.5	137.2	1.8	80.13	-1,590.0	-638.5	5,523.7	5,386.0	137.66	40.126	
14,219.1	7,113.0	7,000.0	6,998.5	137.6	1.8	80.13	-1,590.0	-638.5	5,542.7	5,404.7	138.02	40.159	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-4 - 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									
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	165.95	-1,683.1	421.1	1,735.0				
98.4	98.4	90.3	90.3	0.1	0.0	165.96	-1,683.2	420.8	1,735.0	1,734.9	0.14	N/A	
100.0	100.0	91.8	91.8	0.1	0.0	165.96	-1,683.2	420.8	1,735.0	1,734.9	0.14	N/A	
196.8	196.8	182.9	182.9	0.3	0.2	165.98	-1,683.6	420.5	1,735.3	1,734.8	0.49	3,544.602	
200.0	200.0	185.9	185.9	0.3	0.2	165.98	-1,683.6	420.5	1,735.4	1,734.9	0.50	3,462.015	
295.3	295.3	290.5	290.5	0.5	0.3	165.99	-1,684.0	420.2	1,735.6	1,734.8	0.79	2,205.636	
300.0	300.0	295.9	295.9	0.5	0.3	165.99	-1,684.0	420.2	1,735.6	1,734.8	0.80	2,168.340	
330.6	330.6	325.1	325.1	0.6	0.3	165.99	-1,684.0	420.1	1,735.6	1,734.7	0.88	1,971.453	
393.7	393.7	383.9	383.9	0.8	0.3	165.99	-1,684.1	420.1	1,735.7	1,734.6	1.04	1,664.494	
400.0	400.0	389.8	389.8	0.8	0.3	165.99	-1,684.1	420.1	1,735.7	1,734.6	1.06	1,639.015	
492.1	492.1	490.1	490.1	1.0	0.3	165.99	-1,684.2	420.1	1,735.8	1,734.5	1.27	1,366.815	
500.0	500.0	498.8	498.8	1.0	0.3	165.99	-1,684.2	420.1	1,735.8	1,734.5	1.29	1,347.981	
539.6	539.6	534.1	534.1	1.1	0.3	165.99	-1,684.1	420.1	1,735.7	1,734.3	1.38	1,260.748	
590.5	590.5	579.2	579.2	1.2	0.3	165.99	-1,684.2	420.1	1,735.8	1,734.3	1.49	1,164.012	
600.0	600.0	587.6	587.6	1.2	0.3	165.99	-1,684.2	420.1	1,735.8	1,734.3	1.51	1,147.687	
689.0	689.0	683.1	683.1	1.4	0.3	166.00	-1,684.6	419.9	1,736.1	1,734.3	1.75	992.244	
700.0	700.0	695.4	695.4	1.4	0.3	166.01	-1,684.6	419.8	1,736.1	1,734.3	1.78	975.380	
723.6	723.6	718.1	718.1	1.5	0.4	166.01	-1,684.6	419.7	1,736.1	1,734.2	1.84	941.834	
787.4	787.4	777.5	777.5	1.6	0.4	166.02	-1,684.7	419.6	1,736.2	1,734.1	2.01	862.021	
800.0	800.0	789.3	789.3	1.7	0.4	166.02	-1,684.7	419.5	1,736.2	1,734.1	2.05	847.847	
885.8	885.8	875.8	875.8	1.9	0.4	166.03	-1,685.1	419.3	1,736.5	1,734.2	2.29	758.876	
900.0	900.0	890.2	890.2	1.9	0.5	166.03	-1,685.1	419.3	1,736.5	1,734.2	2.33	745.859	
984.2	984.2	976.6	976.6	2.1	0.5	166.04	-1,685.3	419.1	1,736.7	1,734.1	2.56	677.811	
1,000.0	1,000.0	992.8	992.8	2.1	0.5	166.04	-1,685.4	419.1	1,736.7	1,734.1	2.61	666.465	
1,082.7	1,082.7	1,069.6	1,069.6	2.3	0.5	166.04	-1,685.6	419.0	1,736.9	1,734.1	2.82	615.575	
1,100.0	1,100.0	1,085.5	1,085.5	2.3	0.6	166.04	-1,685.6	419.0	1,737.0	1,734.1	2.87	605.951	
1,181.1	1,181.1	1,161.3	1,161.3	2.5	0.6	166.04	-1,686.2	419.0	1,737.5	1,734.4	3.08	563.373	
1,200.0	1,200.0	1,179.1	1,179.1	2.6	0.6	166.04	-1,686.3	419.1	1,737.7	1,734.5	3.14	554.238	
1,279.5	1,279.5	1,263.1	1,263.1	2.7	0.6	166.05	-1,687.0	419.0	1,738.3	1,735.0	3.35	518.496	
1,300.0	1,300.0	1,285.6	1,285.6	2.8	0.6	166.05	-1,687.2	419.0	1,738.4	1,735.0	3.41	509.981	
1,377.9	1,377.9	1,362.3	1,362.3	3.0	0.7	170.35	-1,687.6	418.8	1,739.9	1,736.3	3.62	481.113	
1,400.0	1,400.0	1,383.5	1,383.5	3.0	0.7	170.35	-1,687.8	418.8	1,740.7	1,737.0	3.68	473.470	
1,476.4	1,476.3	1,456.7	1,456.7	3.2	0.7	170.36	-1,688.3	418.7	1,744.9	1,741.0	3.89	448.849	
1,500.0	1,499.8	1,479.4	1,479.3	3.2	0.7	170.36	-1,688.5	418.8	1,746.6	1,742.6	3.95	441.862	
1,574.8	1,574.4	1,552.6	1,552.6	3.4	0.8	170.38	-1,689.2	418.9	1,753.4	1,749.2	4.16	421.172	
1,600.0	1,599.5	1,577.5	1,577.5	3.5	0.8	170.38	-1,689.4	418.9	1,756.1	1,751.9	4.23	414.763	
1,673.2	1,672.2	1,651.2	1,651.1	3.6	0.8	170.41	-1,690.1	418.8	1,765.2	1,760.8	4.44	397.543	
1,700.0	1,698.7	1,678.3	1,678.3	3.7	0.8	170.42	-1,690.4	418.7	1,769.0	1,764.5	4.52	391.795	
1,771.6	1,769.5	1,751.4	1,751.3	3.9	0.8	170.46	-1,691.1	418.3	1,780.3	1,775.6	4.72	377.457	
1,800.0	1,797.5	1,780.3	1,780.3	4.0	0.9	170.48	-1,691.3	418.0	1,785.2	1,780.4	4.80	372.264	
1,870.1	1,866.3	1,859.4	1,859.4	4.2	0.9	170.54	-1,691.9	417.3	1,798.3	1,793.3	4.99	360.466	
1,900.1	1,895.8	1,894.6	1,894.5	4.3	0.9	170.57	-1,691.9	416.9	1,804.3	1,799.3	5.07	355.835	
1,968.5	1,962.6	1,965.7	1,965.6	4.5	0.9	170.68	-1,691.8	416.1	1,818.1	1,812.9	5.24	346.667	
2,000.0	1,993.4	1,998.1	1,998.1	4.6	0.9	170.72	-1,691.8	415.7	1,824.4	1,819.1	5.32	342.631	
2,066.9	2,058.9	2,075.1	2,075.1	4.8	0.9	170.83	-1,691.3	414.7	1,837.6	1,832.1	5.50	334.072	
2,100.0	2,091.3	2,113.9	2,113.8	4.9	1.0	170.89	-1,690.9	414.0	1,844.0	1,838.4	5.58	330.327	
2,165.3	2,155.2	2,192.3	2,192.3	5.1	1.0	171.01	-1,689.8	412.5	1,856.2	1,850.4	5.75	322.935	
2,200.0	2,189.1	2,235.5	2,235.4	5.3	1.0	171.08	-1,688.9	411.6	1,862.4	1,856.6	5.84	318.990	
2,263.8	2,251.4	2,312.4	2,312.2	5.5	1.0	171.17	-1,686.6	410.4	1,873.5	1,867.5	6.00	312.136	
2,300.0	2,286.9	2,348.1	2,347.9	5.6	1.0	171.22	-1,685.4	409.9	1,879.7	1,873.6	6.10	308.287	
2,362.2	2,347.7	2,409.4	2,409.2	5.9	1.0	171.29	-1,683.4	409.0	1,890.3	1,884.1	6.26	301.905	
2,400.0	2,384.7	2,446.6	2,446.4	6.0	1.0	171.33	-1,682.2	408.4	1,896.8	1,890.4	6.36	298.085	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-4 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,460.6	2,444.0	2,506.2	2,506.0	6.3	1.0	171.42	-1,680.3	407.1	1,907.1	1,900.6	6.53	292.172	
2,500.0	2,482.5	2,544.8	2,544.5	6.4	1.0	171.47	-1,679.1	406.1	1,913.9	1,907.2	6.63	288.458	
2,559.0	2,540.3	2,600.0	2,599.6	6.6	1.1	171.55	-1,677.4	404.9	1,924.0	1,917.2	6.80	283.101	
2,600.0	2,580.3	2,638.1	2,637.8	6.8	1.1	171.60	-1,676.3	404.1	1,931.1	1,924.2	6.91	279.481	
2,617.6	2,597.5	2,653.5	2,653.1	6.9	1.1	171.62	-1,675.8	403.8	1,934.1	1,927.2	6.96	277.970	
2,657.5	2,636.6	2,688.3	2,687.9	7.0	1.1	171.69	-1,674.9	403.0	1,940.9	1,933.8	7.05	275.308	
2,700.0	2,678.4	2,730.2	2,729.8	7.2	1.1	171.76	-1,673.9	402.0	1,947.5	1,940.4	7.15	272.445	
2,755.9	2,733.5	2,788.4	2,788.0	7.3	1.1	171.86	-1,672.4	400.6	1,955.3	1,948.0	7.26	269.274	
2,800.0	2,777.0	2,827.7	2,827.2	7.4	1.1	171.92	-1,671.4	399.6	1,960.7	1,953.3	7.35	266.797	
2,854.3	2,830.9	2,873.2	2,872.7	7.6	1.1	172.00	-1,670.5	398.3	1,966.6	1,959.1	7.45	263.824	
2,900.0	2,876.2	2,914.2	2,913.7	7.7	1.1	172.06	-1,669.8	397.1	1,970.9	1,963.4	7.54	261.299	
2,952.7	2,928.7	2,968.8	2,968.2	7.8	1.1	172.13	-1,668.9	395.5	1,975.0	1,967.4	7.64	258.360	
3,000.0	2,975.8	3,017.2	3,016.6	7.9	1.2	172.19	-1,668.1	394.2	1,977.9	1,970.2	7.74	255.706	
3,051.2	3,026.8	3,068.9	3,068.3	8.0	1.2	172.24	-1,667.1	392.8	1,980.1	1,972.3	7.83	252.878	
3,100.0	3,075.6	3,118.0	3,117.3	8.1	1.2	172.28	-1,666.2	391.6	1,981.3	1,973.4	7.92	250.131	
3,149.6	3,125.2	3,167.2	3,166.5	8.2	1.2	172.32	-1,665.2	390.3	1,981.7	1,973.7	8.01	247.363	
3,200.0	3,175.6	3,216.7	3,216.0	8.3	1.2	172.35	-1,664.3	389.1	1,981.3	1,973.2	8.10	244.504	
3,217.7	3,193.3	3,233.8	3,233.1	8.3	1.2	168.08	-1,664.0	388.7	1,980.9	1,972.8	8.14	243.463	
3,248.0	3,223.6	3,262.9	3,262.2	8.4	1.2	168.09	-1,663.5	388.0	1,980.3	1,972.1	8.20	241.462	
3,300.0	3,275.6	3,314.0	3,313.2	8.5	1.2	168.12	-1,662.6	386.9	1,979.1	1,970.8	8.31	238.099	
3,346.4	3,322.0	3,362.2	3,361.5	8.6	1.3	168.13	-1,661.6	386.1	1,978.1	1,969.7	8.42	234.909	
3,400.0	3,375.6	3,416.1	3,415.3	8.7	1.3	168.14	-1,660.5	385.6	1,976.9	1,968.3	8.55	231.328	
3,444.9	3,420.4	3,458.0	3,457.2	8.7	1.3	168.15	-1,659.6	385.3	1,975.9	1,967.2	8.65	228.410	
3,500.0	3,475.6	3,508.9	3,508.1	8.8	1.3	168.15	-1,658.6	385.1	1,974.7	1,966.0	8.78	224.942	
3,543.3	3,518.9	3,546.9	3,546.1	8.9	1.3	168.14	-1,657.9	385.1	1,974.0	1,965.1	8.88	222.318	
3,600.0	3,575.6	3,600.0	3,599.2	9.0	1.3	168.13	-1,657.0	385.4	1,973.1	1,964.1	9.01	218.983	
3,641.7	3,617.3	3,641.0	3,640.2	9.1	1.3	168.11	-1,656.3	385.8	1,972.6	1,963.4	9.11	216.548	
3,700.0	3,675.6	3,700.0	3,699.2	9.2	1.3	168.10	-1,655.3	386.2	1,971.6	1,962.4	9.25	213.227	
3,740.1	3,715.7	3,737.1	3,736.3	9.3	1.3	168.09	-1,654.7	386.3	1,971.0	1,961.7	9.34	211.035	
3,800.0	3,775.6	3,787.7	3,786.9	9.4	1.3	168.09	-1,654.2	386.2	1,970.4	1,960.9	9.48	207.885	
3,838.6	3,814.1	3,826.1	3,825.3	9.5	1.3	168.09	-1,653.9	386.1	1,970.1	1,960.5	9.57	205.868	
3,900.0	3,875.6	3,893.0	3,892.1	9.6	1.3	168.09	-1,653.3	385.8	1,969.5	1,959.8	9.72	202.680	
3,937.0	3,912.6	3,930.2	3,929.4	9.7	1.4	168.10	-1,652.9	385.7	1,969.1	1,959.3	9.81	200.803	
4,000.0	3,975.6	3,992.7	3,991.8	9.8	1.4	168.10	-1,652.2	385.4	1,968.4	1,958.4	9.96	197.684	
4,035.4	4,011.0	4,025.9	4,025.0	9.9	1.4	168.10	-1,651.9	385.3	1,968.0	1,957.9	10.04	195.994	
4,100.0	4,075.6	4,085.5	4,084.7	10.0	1.4	168.11	-1,651.5	384.9	1,967.4	1,957.2	10.19	193.009	
4,133.8	4,109.4	4,119.7	4,118.8	10.0	1.4	168.12	-1,651.3	384.6	1,967.2	1,956.9	10.27	191.468	
4,200.0	4,175.6	4,191.3	4,190.5	10.2	1.4	168.13	-1,650.7	384.1	1,966.6	1,956.2	10.43	188.492	
4,232.3	4,207.8	4,222.2	4,221.3	10.2	1.4	168.13	-1,650.4	384.0	1,966.3	1,955.7	10.51	187.084	
4,300.0	4,275.6	4,284.2	4,283.3	10.4	1.4	168.14	-1,650.0	383.6	1,965.7	1,955.0	10.67	184.219	
4,330.7	4,306.3	4,315.7	4,314.8	10.4	1.4	168.14	-1,649.8	383.3	1,965.5	1,954.8	10.74	182.943	
4,400.0	4,375.6	4,396.5	4,395.6	10.6	1.5	168.15	-1,649.1	382.9	1,964.8	1,953.9	10.91	180.076	
4,429.1	4,404.7	4,430.6	4,429.8	10.6	1.5	168.15	-1,648.6	382.7	1,964.4	1,953.4	10.98	178.860	
4,500.0	4,475.6	4,512.2	4,511.3	10.8	1.5	168.17	-1,647.2	381.9	1,963.1	1,951.9	11.16	175.942	
4,527.5	4,503.1	4,540.6	4,539.7	10.8	1.5	168.18	-1,646.7	381.5	1,962.5	1,951.3	11.22	174.839	
4,600.0	4,575.6	4,613.4	4,612.4	11.0	1.5	168.21	-1,645.4	380.0	1,960.9	1,949.5	11.40	172.005	
4,626.0	4,601.5	4,636.7	4,635.8	11.0	1.5	168.22	-1,645.0	379.5	1,960.3	1,948.9	11.46	171.024	
4,700.0	4,675.6	4,703.9	4,702.9	11.2	1.6	168.25	-1,644.0	378.3	1,959.0	1,947.3	11.64	168.299	
4,724.4	4,700.0	4,730.9	4,729.9	11.2	1.6	168.26	-1,643.6	377.8	1,958.6	1,946.9	11.70	167.402	
4,800.0	4,775.6	4,811.1	4,810.1	11.4	1.6	168.29	-1,642.2	376.6	1,957.1	1,945.2	11.88	164.675	
4,822.8	4,798.4	4,830.5	4,829.5	11.4	1.6	168.30	-1,641.9	376.3	1,956.6	1,944.7	11.94	163.888	
4,900.0	4,875.6	4,900.0	4,899.0	11.6	1.6	168.32	-1,641.0	375.2	1,955.4	1,943.3	12.12	161.291	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-4 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,921.2	4,896.8	4,914.0	4,913.0	11.6	1.6	168.33	-1,640.9	374.9	1,955.1	1,943.0	12.17	160.619	
5,000.0	4,975.6	4,980.0	4,979.0	11.8	1.6	168.37	-1,640.7	373.6	1,954.5	1,942.2	12.36	158.171	
5,019.7	4,995.2	5,000.0	4,999.0	11.8	1.6	168.38	-1,640.7	373.2	1,954.5	1,942.0	12.40	157.569	
5,100.0	5,075.6	5,080.7	5,079.7	12.0	1.7	168.43	-1,640.7	371.6	1,954.1	1,941.6	12.59	155.169	
5,118.1	5,093.7	5,099.9	5,098.9	12.0	1.7	168.44	-1,640.7	371.2	1,954.1	1,941.4	12.64	154.633	
5,176.7	5,152.3	5,147.8	5,146.8	12.1	1.7	168.46	-1,640.7	370.3	1,953.9	1,941.1	12.77	152.988	
5,200.0	5,175.6	5,166.8	5,165.8	12.2	1.7	168.47	-1,640.8	370.0	1,953.9	1,941.1	12.83	152.351	
5,216.5	5,192.1	5,180.3	5,179.3	12.2	1.7	168.48	-1,640.9	369.8	1,954.0	1,941.1	12.86	151.904	
5,300.0	5,275.6	5,250.2	5,249.2	12.4	1.7	168.51	-1,641.6	368.9	1,954.6	1,941.5	13.05	149.737	
5,314.9	5,290.5	5,262.9	5,261.8	12.4	1.7	168.51	-1,641.8	368.7	1,954.7	1,941.7	13.09	149.361	
5,400.0	5,375.6	5,335.0	5,333.9	12.6	1.7	168.55	-1,643.1	367.9	1,956.0	1,942.8	13.28	147.293	
5,413.4	5,388.9	5,346.4	5,345.3	12.6	1.7	168.55	-1,643.3	367.8	1,956.3	1,943.0	13.31	146.978	
5,500.0	5,475.6	5,422.0	5,420.9	12.8	1.7	168.58	-1,645.2	367.2	1,958.3	1,944.8	13.51	144.998	
5,511.8	5,487.4	5,433.0	5,431.9	12.8	1.7	168.58	-1,645.4	367.2	1,958.6	1,945.0	13.53	144.735	
5,600.0	5,575.6	5,516.5	5,515.3	13.0	1.7	168.59	-1,647.7	367.4	1,960.9	1,947.2	13.73	142.813	
5,610.2	5,585.8	5,526.7	5,525.6	13.0	1.7	168.58	-1,648.0	367.5	1,961.2	1,947.5	13.75	142.593	
5,700.0	5,675.6	5,619.4	5,618.2	13.2	1.7	168.57	-1,650.4	368.4	1,963.7	1,949.7	13.96	140.692	
5,708.6	5,684.2	5,629.6	5,628.4	13.2	1.7	168.57	-1,650.7	368.5	1,963.9	1,950.0	13.98	140.510	
5,800.0	5,775.6	5,732.6	5,731.4	13.4	1.7	168.56	-1,652.8	369.4	1,965.9	1,951.8	14.19	138.588	
5,807.1	5,782.6	5,740.0	5,738.8	13.4	1.7	168.56	-1,652.9	369.5	1,966.1	1,951.9	14.20	138.440	
5,900.0	5,875.6	5,837.1	5,835.9	13.6	1.7	168.55	-1,654.6	370.2	1,967.8	1,953.4	14.41	136.521	
5,905.5	5,881.1	5,842.9	5,841.7	13.6	1.7	168.55	-1,654.7	370.2	1,967.9	1,953.5	14.43	136.409	
6,000.0	5,975.6	5,944.0	5,942.8	13.8	1.7	168.51	-1,656.0	371.7	1,969.4	1,954.7	14.64	134.484	
6,003.9	5,979.5	5,948.3	5,947.1	13.8	1.7	168.51	-1,656.1	371.7	1,969.4	1,954.8	14.65	134.404	
6,100.0	6,075.6	6,039.6	6,038.4	14.0	1.7	168.47	-1,657.0	373.4	1,970.7	1,955.8	14.87	132.487	
6,102.3	6,077.9	6,041.5	6,040.3	14.0	1.7	168.47	-1,657.0	373.5	1,970.7	1,955.9	14.88	132.442	
6,200.0	6,175.6	6,127.4	6,126.1	14.2	1.7	168.43	-1,658.5	375.0	1,972.7	1,957.6	15.10	130.605	
6,200.8	6,176.3	6,128.2	6,126.9	14.2	1.7	168.43	-1,658.5	375.0	1,972.8	1,957.7	15.11	130.591	
6,299.2	6,274.8	6,245.0	6,243.6	14.4	1.7	168.36	-1,660.2	377.7	1,974.7	1,959.3	15.34	128.754	
6,300.0	6,275.6	6,246.1	6,244.8	14.4	1.7	168.36	-1,660.2	377.7	1,974.7	1,959.3	15.34	128.738	
6,397.6	6,373.2	6,347.9	6,346.5	14.7	1.7	168.29	-1,660.6	380.3	1,975.5	1,959.9	15.57	126.905	
6,400.0	6,375.6	6,349.8	6,348.4	14.7	1.7	168.29	-1,660.6	380.4	1,975.5	1,959.9	15.57	126.862	
6,436.2	6,411.8	6,379.2	6,377.8	14.7	1.7	168.27	-1,660.8	381.1	1,976.0	1,960.3	15.66	126.212	
6,450.0	6,425.6	6,390.4	6,389.0	14.8	1.7	-11.95	-1,660.9	381.4	1,976.0	1,960.4	15.68	126.049	
6,496.0	6,471.5	6,438.0	6,436.5	14.8	1.7	-12.02	-1,661.4	382.7	1,974.5	1,958.7	15.78	125.158	
6,500.0	6,475.5	6,442.3	6,440.9	14.8	1.7	-12.03	-1,661.5	382.8	1,974.2	1,958.4	15.79	125.053	
6,550.0	6,525.1	6,497.6	6,496.1	14.9	1.7	-12.20	-1,661.9	384.4	1,968.8	1,952.9	15.95	123.436	
6,594.5	6,568.7	6,545.1	6,543.6	14.9	1.7	-12.43	-1,662.2	385.7	1,961.1	1,945.0	16.12	121.653	
6,600.0	6,574.1	6,550.9	6,549.5	14.9	1.7	-12.47	-1,662.2	385.9	1,959.9	1,943.8	16.14	121.417	
6,650.0	6,622.4	6,600.0	6,598.5	14.9	1.7	-12.81	-1,662.3	387.2	1,947.6	1,931.3	16.34	119.224	
6,692.9	6,663.0	6,636.8	6,635.3	14.9	1.7	-13.17	-1,662.5	388.3	1,934.5	1,918.0	16.49	117.342	
6,700.0	6,669.6	6,642.4	6,640.9	14.9	1.7	-13.24	-1,662.5	388.4	1,932.1	1,915.6	16.51	117.033	
6,750.0	6,715.6	6,681.3	6,679.8	14.9	1.7	-13.75	-1,662.8	389.5	1,913.6	1,897.0	16.65	114.901	
6,791.3	6,752.5	6,714.0	6,712.5	14.9	1.7	-14.27	-1,663.2	390.4	1,896.1	1,879.4	16.75	113.197	
6,800.0	6,760.1	6,721.2	6,719.7	14.9	1.7	-14.40	-1,663.3	390.6	1,892.2	1,875.4	16.77	112.844	
6,850.0	6,802.9	6,761.8	6,760.2	14.9	1.7	-15.19	-1,663.8	391.7	1,867.8	1,851.0	16.85	110.836	
6,889.7	6,835.6	6,792.8	6,791.2	14.9	1.7	-15.93	-1,664.3	392.7	1,846.5	1,829.6	16.90	109.277	
6,900.0	6,843.8	6,800.7	6,799.1	14.9	1.7	-16.15	-1,664.4	392.9	1,840.7	1,823.8	16.91	108.880	
6,950.0	6,882.6	6,843.1	6,841.5	14.9	1.7	-17.35	-1,665.0	394.2	1,810.8	1,793.9	16.94	106.876	
6,988.2	6,910.7	6,873.8	6,872.2	15.0	1.7	-18.44	-1,665.4	395.1	1,786.2	1,769.3	16.96	105.308	
7,000.0	6,919.1	6,883.0	6,881.4	15.0	1.7	-18.81	-1,665.5	395.3	1,778.3	1,761.4	16.97	104.815	
7,050.0	6,953.1	6,921.7	6,920.1	15.0	1.7	-20.60	-1,665.9	396.3	1,743.4	1,726.4	16.99	102.598	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-4 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,086.6	6,976.4	6,948.9	6,947.3	15.1	1.7	-22.17	-1,666.2	396.9	1,716.3	1,699.3	17.02	100.812	
7,100.0	6,984.5	6,958.4	6,956.8	15.1	1.7	-22.81	-1,666.3	397.2	1,706.1	1,689.1	17.04	100.126	
7,150.0	7,013.1	6,991.7	6,990.0	15.3	1.7	-25.56	-1,666.4	398.0	1,666.8	1,649.6	17.13	97.291	
7,185.0	7,031.4	7,013.0	7,011.3	15.4	1.7	-27.88	-1,666.5	398.6	1,638.1	1,620.9	17.24	95.004	
7,200.0	7,038.8	7,021.6	7,019.9	15.4	1.7	-28.99	-1,666.5	398.8	1,625.6	1,608.3	17.30	93.958	
7,250.0	7,061.4	7,047.9	7,046.2	15.6	1.7	-33.29	-1,666.5	399.6	1,582.8	1,565.2	17.58	90.044	
7,283.4	7,074.8	7,063.2	7,061.6	15.8	1.7	-36.78	-1,666.5	400.0	1,553.4	1,535.5	17.84	87.089	
7,300.0	7,080.9	7,070.2	7,068.5	15.9	1.7	-38.72	-1,666.5	400.2	1,538.6	1,520.6	17.98	85.567	
7,350.0	7,097.1	7,088.6	7,086.9	16.2	1.8	-45.54	-1,666.4	400.7	1,493.3	1,474.8	18.49	80.745	
7,381.9	7,105.7	7,098.2	7,096.5	16.4	1.8	-50.73	-1,666.3	401.0	1,463.9	1,445.1	18.85	77.678	
7,400.0	7,109.9	7,102.9	7,101.2	16.6	1.8	-53.98	-1,666.3	401.1	1,447.1	1,428.1	19.03	76.042	
7,450.0	7,119.4	7,100.0	7,098.3	17.0	1.8	-62.66	-1,666.3	401.1	1,400.4	1,380.9	19.43	72.064	
7,480.3	7,123.4	7,100.0	7,098.3	17.2	1.8	-68.78	-1,666.3	401.1	1,371.9	1,352.3	19.59	70.043	
7,500.0	7,125.4	7,100.0	7,098.3	17.4	1.8	-72.99	-1,666.3	401.1	1,353.3	1,333.7	19.63	68.942	
7,550.0	7,127.9	7,100.0	7,098.3	17.9	1.8	-84.21	-1,666.3	401.1	1,306.1	1,286.4	19.69	66.329	
7,562.9	7,128.0	7,100.0	7,098.3	18.0	1.8	-87.14	-1,666.3	401.1	1,293.9	1,274.2	19.76	65.497	
7,578.7	7,128.0	7,100.0	7,098.3	18.2	1.8	-87.14	-1,666.3	401.1	1,279.0	1,259.1	19.92	64.212	
7,600.0	7,127.9	7,100.0	7,098.3	18.4	1.8	-87.14	-1,666.3	401.1	1,259.0	1,238.8	20.14	62.523	
7,677.1	7,127.7	7,100.0	7,098.3	19.2	1.8	-87.14	-1,666.3	401.1	1,186.7	1,165.7	21.00	56.515	
7,700.0	7,127.7	7,100.0	7,098.3	19.5	1.8	-87.14	-1,666.3	401.1	1,165.5	1,144.2	21.25	54.835	
7,775.6	7,127.5	7,100.0	7,098.3	20.3	1.8	-87.14	-1,666.3	401.1	1,095.6	1,073.5	22.05	49.680	
7,800.0	7,127.5	7,100.0	7,098.3	20.5	1.8	-87.14	-1,666.3	401.1	1,073.1	1,050.8	22.31	48.100	
7,874.0	7,127.3	7,100.0	7,098.3	21.4	1.8	-87.14	-1,666.3	401.1	1,005.7	982.6	23.17	43.411	
7,900.0	7,127.2	7,100.0	7,098.3	21.7	1.8	-87.14	-1,666.3	401.1	982.3	958.8	23.47	41.855	
7,972.4	7,127.1	7,100.0	7,098.3	22.7	1.8	-87.14	-1,666.3	401.1	917.7	893.2	24.48	37.483	
8,000.0	7,127.0	7,100.0	7,098.3	23.1	1.8	-87.14	-1,666.3	401.1	893.4	868.5	24.87	35.925	
8,070.8	7,126.8	7,100.0	7,098.3	24.2	1.8	-87.14	-1,666.3	401.1	832.0	806.1	25.91	32.109	
8,100.0	7,126.8	7,100.0	7,098.3	24.6	1.8	-87.14	-1,666.3	401.1	807.1	780.8	26.34	30.644	
8,169.3	7,126.6	7,100.0	7,098.3	25.6	1.8	-87.14	-1,666.3	401.1	749.4	722.0	27.40	27.352	
8,200.0	7,126.6	7,100.0	7,098.3	26.1	1.8	-87.14	-1,666.3	401.1	724.4	696.5	27.87	25.995	
8,267.7	7,126.4	7,100.0	7,098.3	27.2	1.8	-87.14	-1,666.3	401.1	671.1	642.1	28.93	23.192	
8,300.0	7,126.3	7,100.0	7,098.3	27.7	1.8	-87.14	-1,666.3	401.1	646.6	617.1	29.44	21.959	
8,366.1	7,126.2	7,100.0	7,098.3	28.8	1.8	-87.14	-1,666.3	401.1	598.7	568.2	30.51	19.621	
8,400.0	7,126.1	7,100.0	7,098.3	29.3	1.8	-87.14	-1,666.3	401.1	575.6	544.6	31.06	18.531	
8,464.5	7,126.0	7,100.0	7,098.3	30.4	1.8	-87.14	-1,666.3	401.1	534.8	502.6	32.13	16.645	
8,500.0	7,125.9	7,100.0	7,098.3	31.0	1.8	-87.14	-1,666.3	401.1	514.4	481.7	32.71	15.725	
8,563.0	7,125.7	7,100.0	7,098.3	32.0	1.8	-87.14	-1,666.3	401.1	482.6	448.8	33.77	14.289	
8,600.0	7,125.6	7,100.0	7,098.3	32.6	1.8	-87.14	-1,666.3	401.1	466.8	432.4	34.39	13.572	
8,661.4	7,125.5	7,100.0	7,098.3	33.7	1.8	-87.14	-1,666.3	401.1	446.2	410.8	35.44	12.591	
8,700.0	7,125.4	7,100.0	7,098.3	34.4	1.8	-87.14	-1,666.3	401.1	437.3	401.2	36.10	12.112	
8,759.8	7,125.3	7,100.0	7,098.3	35.4	1.8	-87.14	-1,666.3	401.1	429.8	392.7	37.13	11.576	
8,783.6	7,125.2	7,100.0	7,098.3	35.8	1.8	-87.14	-1,666.3	401.1	429.2	391.7	37.54	11.432 CC, ES	
8,800.0	7,125.2	7,100.0	7,098.3	36.1	1.8	-87.14	-1,666.3	401.1	429.5	391.7	37.83	11.354	
8,858.2	7,125.1	7,100.0	7,098.3	37.1	1.8	-87.14	-1,666.3	401.1	435.6	396.8	38.84	11.215 SF	
8,900.0	7,125.0	7,100.0	7,098.3	37.8	1.8	-87.14	-1,666.3	401.1	444.7	405.1	39.57	11.238	
8,956.7	7,124.8	7,100.0	7,098.3	38.8	1.8	-87.14	-1,666.3	401.1	462.8	422.2	40.57	11.407	
9,000.0	7,124.7	7,100.0	7,098.3	39.6	1.8	-87.14	-1,666.3	401.1	480.7	439.3	41.33	11.629	
9,055.1	7,124.6	7,100.0	7,098.3	40.6	1.8	-87.14	-1,666.3	401.1	507.9	465.6	42.31	12.003	
9,100.0	7,124.5	7,100.0	7,098.3	41.4	1.8	-87.14	-1,666.3	401.1	533.2	490.1	43.11	12.369	
9,153.5	7,124.4	7,100.0	7,098.3	42.3	1.8	-87.14	-1,666.3	401.1	566.6	522.6	44.07	12.859	
9,200.0	7,124.3	7,100.0	7,098.3	43.2	1.8	-87.14	-1,666.3	401.1	598.0	553.1	44.90	13.320	
9,251.9	7,124.2	7,100.0	7,098.3	44.1	1.8	-87.14	-1,666.3	401.1	635.3	589.5	45.83	13.861	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-4 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
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
9,300.0	7,124.1	7,100.0	7,098.3	45.0	1.8	-87.14	-1,666.3	401.1	671.5	624.8	46.70	14.380	
9,350.4	7,123.9	7,100.0	7,098.3	45.9	1.8	-87.14	-1,666.3	401.1	711.0	663.4	47.61	14.934	
9,400.0	7,123.8	7,100.0	7,098.3	46.8	1.8	-87.14	-1,666.3	401.1	751.1	702.6	48.50	15.486	
9,448.8	7,123.7	7,100.0	7,098.3	47.7	1.8	-87.14	-1,666.3	401.1	791.7	742.3	49.39	16.029	
9,500.0	7,123.6	7,100.0	7,098.3	48.6	1.8	-87.14	-1,666.3	401.1	835.2	784.8	50.32	16.597	
9,547.2	7,123.5	7,100.0	7,098.3	49.4	1.8	-87.14	-1,666.3	401.1	876.0	824.8	51.18	17.116	
9,600.0	7,123.4	7,100.0	7,098.3	50.4	1.8	-87.14	-1,666.3	401.1	922.4	870.2	52.14	17.689	
9,645.6	7,123.3	7,100.0	7,098.3	51.2	1.8	-87.14	-1,666.3	401.1	963.0	910.0	52.98	18.177	
9,700.0	7,123.2	7,100.0	7,098.3	52.2	1.8	-87.14	-1,666.3	401.1	1,012.0	958.0	53.97	18.749	
9,744.1	7,123.1	7,100.0	7,098.3	53.1	1.8	-87.14	-1,666.3	401.1	1,052.0	997.3	54.78	19.203	
9,800.0	7,122.9	7,100.0	7,098.3	54.1	1.8	-87.14	-1,666.3	401.1	1,103.3	1,047.5	55.81	19.769	
9,842.5	7,122.8	7,100.0	7,098.3	54.9	1.8	-87.14	-1,666.3	401.1	1,142.6	1,086.0	56.59	20.190	
9,900.0	7,122.7	7,100.0	7,098.3	55.9	1.8	-87.14	-1,666.3	401.1	1,196.1	1,138.4	57.65	20.746	
9,940.9	7,122.6	7,100.0	7,098.3	56.7	1.8	-87.14	-1,666.3	401.1	1,234.4	1,176.0	58.41	21.133	
10,000.0	7,122.5	7,100.0	7,098.3	57.8	1.8	-87.14	-1,666.3	401.1	1,289.9	1,230.4	59.50	21.680	
10,039.3	7,122.4	7,100.0	7,098.3	58.5	1.8	-87.14	-1,666.3	401.1	1,327.1	1,266.9	60.23	22.034	
10,100.0	7,122.3	7,100.0	7,098.3	59.6	1.8	-87.14	-1,666.3	401.1	1,384.6	1,323.3	61.35	22.569	
10,137.8	7,122.2	7,100.0	7,098.3	60.3	1.8	-87.14	-1,666.3	401.1	1,420.6	1,358.5	62.05	22.894	
10,200.0	7,122.0	7,100.0	7,098.3	61.5	1.8	-87.14	-1,666.3	401.1	1,480.0	1,416.8	63.21	23.416	
10,236.2	7,121.9	7,100.0	7,098.3	62.2	1.8	-87.14	-1,666.3	401.1	1,514.7	1,450.8	63.88	23.712	
10,300.0	7,121.8	7,100.0	7,098.3	63.3	1.8	-87.14	-1,666.3	401.1	1,576.0	1,510.9	65.07	24.222	
10,334.6	7,121.7	7,100.0	7,098.3	64.0	1.8	-87.14	-1,666.3	401.1	1,609.3	1,543.6	65.71	24.491	
10,400.0	7,121.6	7,100.0	7,098.3	65.2	1.8	-87.14	-1,666.3	401.1	1,672.4	1,605.5	66.93	24.988	
10,433.0	7,121.5	7,100.0	7,098.3	65.8	1.8	-87.14	-1,666.3	401.1	1,704.4	1,636.9	67.55	25.234	
10,500.0	7,121.4	7,100.0	7,098.3	67.1	1.8	-87.14	-1,666.3	401.1	1,769.3	1,700.5	68.79	25.718	
10,531.5	7,121.3	7,100.0	7,098.3	67.7	1.8	-87.14	-1,666.3	401.1	1,799.8	1,730.4	69.38	25.941	
10,600.0	7,121.1	7,100.0	7,098.3	69.0	1.8	-87.14	-1,666.3	401.1	1,866.4	1,795.8	70.66	26.413	
10,629.9	7,121.1	7,100.0	7,098.3	69.5	1.8	-87.14	-1,666.3	401.1	1,895.6	1,824.3	71.22	26.615	
10,700.0	7,120.9	7,100.0	7,098.3	70.8	1.8	-87.14	-1,666.3	401.1	1,963.9	1,891.4	72.53	27.076	
10,728.3	7,120.8	7,100.0	7,098.3	71.4	1.8	-87.14	-1,666.3	401.1	1,991.6	1,918.5	73.06	27.257	
10,800.0	7,120.7	7,100.0	7,098.3	72.7	1.8	-87.14	-1,666.3	401.1	2,061.6	1,987.2	74.41	27.707	
10,826.7	7,120.6	7,100.0	7,098.3	73.2	1.8	-87.14	-1,666.3	401.1	2,087.8	2,012.9	74.91	27.871	
10,900.0	7,120.5	7,100.0	7,098.3	74.6	1.8	-87.14	-1,666.3	401.1	2,159.5	2,083.2	76.28	28.309	
10,925.2	7,120.4	7,100.0	7,098.3	75.1	1.8	-87.14	-1,666.3	401.1	2,184.2	2,107.4	76.76	28.456	
11,000.0	7,120.2	7,100.0	7,098.3	76.5	1.8	-87.14	-1,666.3	401.1	2,257.6	2,179.4	78.16	28.884	
11,023.6	7,120.2	7,100.0	7,098.3	76.9	1.8	-87.14	-1,666.3	401.1	2,280.8	2,202.2	78.61	29.016	
11,100.0	7,120.0	7,100.0	7,098.3	78.3	1.8	-87.14	-1,666.3	401.1	2,355.9	2,275.8	80.04	29.433	
11,122.0	7,120.0	7,100.0	7,098.3	78.8	1.8	-87.14	-1,666.3	401.1	2,377.5	2,297.1	80.46	29.551	
11,200.0	7,119.8	7,100.0	7,098.3	80.2	1.8	-87.14	-1,666.3	401.1	2,454.3	2,372.3	81.92	29.958	
11,220.4	7,119.7	7,089.9	7,088.3	80.6	1.8	-85.80	-1,666.4	400.8	2,474.4	2,392.1	82.25	30.082	
11,300.0	7,119.5	7,089.5	7,087.8	82.1	1.8	-85.73	-1,666.4	400.7	2,552.7	2,469.0	83.75	30.481	
11,318.9	7,119.5	7,089.3	7,087.6	82.5	1.8	-85.72	-1,666.4	400.7	2,571.3	2,487.2	84.10	30.574	
11,400.0	7,119.3	7,088.8	7,087.1	84.0	1.8	-85.65	-1,666.4	400.7	2,651.4	2,565.7	85.63	30.965	
11,417.3	7,119.3	7,088.7	7,087.0	84.3	1.8	-85.64	-1,666.4	400.7	2,668.4	2,582.5	85.95	31.046	
11,500.0	7,119.1	7,088.2	7,086.5	85.9	1.8	-85.57	-1,666.4	400.7	2,750.1	2,662.6	87.50	31.428	
11,515.7	7,119.1	7,088.1	7,086.5	86.2	1.8	-85.56	-1,666.4	400.7	2,765.6	2,677.8	87.80	31.499	
11,600.0	7,118.9	7,087.6	7,086.0	87.8	1.8	-85.49	-1,666.4	400.7	2,848.9	2,759.5	89.38	31.872	
11,614.1	7,118.8	7,087.6	7,085.9	88.0	1.8	-85.48	-1,666.4	400.7	2,862.9	2,773.2	89.65	31.934	
11,700.0	7,118.6	7,087.1	7,085.4	89.7	1.8	-85.42	-1,666.4	400.7	2,947.8	2,856.5	91.27	32.299	
11,712.6	7,118.6	7,087.0	7,085.3	89.9	1.8	-85.41	-1,666.4	400.7	2,960.2	2,868.7	91.50	32.351	
11,800.0	7,118.4	7,086.5	7,084.8	91.6	1.8	-85.34	-1,666.4	400.7	3,046.8	2,953.6	93.15	32.709	
11,811.0	7,118.4	7,086.4	7,084.7	91.8	1.8	-85.33	-1,666.4	400.7	3,057.7	2,964.3	93.36	32.753	

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

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<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-4 - 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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,900.0	7,118.2	7,085.9	7,084.2	93.4	1.8	-85.27	-1,666.4	400.6	3,145.8	3,050.8	95.03	33.103		
11,909.4	7,118.2	7,085.9	7,084.2	93.6	1.8	-85.26	-1,666.4	400.6	3,155.1	3,059.9	95.21	33.139		
12,000.0	7,118.0	7,085.4	7,083.7	95.3	1.8	-85.19	-1,666.4	400.6	3,244.9	3,148.0	96.91	33.482		
12,007.8	7,118.0	7,085.3	7,083.6	95.5	1.8	-85.19	-1,666.4	400.6	3,252.7	3,155.6	97.06	33.511		
12,100.0	7,117.8	7,084.8	7,083.1	97.2	1.8	-85.12	-1,666.4	400.6	3,344.0	3,245.2	98.80	33.847		
12,106.3	7,117.7	7,084.8	7,083.1	97.4	1.8	-85.11	-1,666.4	400.6	3,350.3	3,251.3	98.92	33.870		
12,200.0	7,117.5	7,084.3	7,082.6	99.1	1.8	-85.05	-1,666.4	400.6	3,443.2	3,342.6	100.68	34.199		
12,204.7	7,117.5	7,084.3	7,082.6	99.2	1.8	-85.04	-1,666.4	400.6	3,447.9	3,347.1	100.77	34.215		
12,300.0	7,117.3	7,083.7	7,082.1	101.0	1.8	-84.98	-1,666.4	400.6	3,542.5	3,439.9	102.57	34.538		
12,303.1	7,117.3	7,083.7	7,082.0	101.1	1.8	-84.97	-1,666.4	400.6	3,545.6	3,442.9	102.63	34.548		
12,400.0	7,117.1	7,083.2	7,081.5	102.9	1.8	-84.91	-1,666.4	400.6	3,641.8	3,537.3	104.45	34.865		
12,401.5	7,117.1	7,083.2	7,081.5	103.0	1.8	-84.91	-1,666.4	400.6	3,643.3	3,538.8	104.48	34.870		
12,500.0	7,116.9	7,082.7	7,081.0	104.8	1.8	-84.84	-1,666.4	400.6	3,741.1	3,634.7	106.34	35.180		
12,598.4	7,116.6	7,082.2	7,080.5	106.7	1.8	-84.77	-1,666.4	400.5	3,838.8	3,730.6	108.20	35.480		
12,600.0	7,116.6	7,082.2	7,080.5	106.7	1.8	-84.77	-1,666.4	400.5	3,840.4	3,732.2	108.23	35.485		
12,696.8	7,116.4	7,081.7	7,080.0	108.6	1.8	-84.71	-1,666.4	400.5	3,936.7	3,826.6	110.05	35.770		
12,700.0	7,116.4	7,081.7	7,080.0	108.6	1.8	-84.70	-1,666.4	400.5	3,939.8	3,829.7	110.11	35.779		
12,795.2	7,116.2	7,081.2	7,079.5	110.4	1.8	-84.64	-1,666.4	400.5	4,034.5	3,922.6	111.91	36.051		
12,800.0	7,116.2	7,081.2	7,079.5	110.5	1.8	-84.64	-1,666.4	400.5	4,039.2	3,927.2	112.00	36.064		
12,893.7	7,116.0	7,080.7	7,079.0	112.3	1.8	-84.58	-1,666.4	400.5	4,132.4	4,018.6	113.77	36.322		
12,900.0	7,116.0	7,080.7	7,079.0	112.4	1.8	-84.57	-1,666.4	400.5	4,138.7	4,024.8	113.89	36.340		
12,992.1	7,115.7	7,080.3	7,078.6	114.2	1.8	-84.51	-1,666.4	400.5	4,230.3	4,114.7	115.63	36.585		
13,000.0	7,115.7	7,080.2	7,078.5	114.3	1.8	-84.51	-1,666.4	400.5	4,238.2	4,122.4	115.78	36.606		
13,090.5	7,115.5	7,079.8	7,078.1	116.1	1.8	-84.45	-1,666.4	400.5	4,328.2	4,210.7	117.49	36.840		
13,100.0	7,115.5	7,079.7	7,078.1	116.2	1.8	-84.45	-1,666.4	400.5	4,337.6	4,220.0	117.66	36.864		
13,188.9	7,115.3	7,079.3	7,077.6	117.9	1.8	-84.39	-1,666.4	400.5	4,426.2	4,306.8	119.34	37.087		
13,200.0	7,115.3	7,079.3	7,077.6	118.1	1.8	-84.38	-1,666.4	400.5	4,437.2	4,317.6	119.55	37.115		
13,287.4	7,115.1	7,078.9	7,077.2	119.8	1.8	-84.33	-1,666.4	400.4	4,524.1	4,402.9	121.20	37.327		
13,300.0	7,115.1	7,078.8	7,077.1	120.0	1.8	-84.32	-1,666.4	400.4	4,536.7	4,415.3	121.44	37.357		
13,385.8	7,114.9	7,078.4	7,076.7	121.7	1.8	-84.27	-1,666.4	400.4	4,622.1	4,499.1	123.06	37.559		
13,400.0	7,114.8	7,078.4	7,076.7	121.9	1.8	-84.26	-1,666.4	400.4	4,636.3	4,512.9	123.33	37.592		
13,484.2	7,114.6	7,078.0	7,076.3	123.6	1.8	-84.21	-1,666.4	400.4	4,720.1	4,595.2	124.92	37.785		
13,500.0	7,114.6	7,077.9	7,076.2	123.9	1.8	-84.20	-1,666.4	400.4	4,735.8	4,610.6	125.22	37.820		
13,582.6	7,114.4	7,077.5	7,075.8	125.4	1.8	-84.15	-1,666.4	400.4	4,818.2	4,691.4	126.78	38.004		
13,600.0	7,114.4	7,077.5	7,075.8	125.8	1.8	-84.14	-1,666.4	400.4	4,835.4	4,708.3	127.11	38.042		
13,681.1	7,114.2	7,077.1	7,075.4	127.3	1.8	-84.10	-1,666.4	400.4	4,916.2	4,787.6	128.64	38.217		
13,700.0	7,114.2	7,077.0	7,075.3	127.7	1.8	-84.09	-1,666.4	400.4	4,935.0	4,806.0	129.00	38.257		
13,779.5	7,114.0	7,076.7	7,075.0	129.2	1.8	-84.04	-1,666.4	400.4	5,014.2	4,883.7	130.50	38.423		
13,800.0	7,113.9	7,076.6	7,074.9	129.6	1.8	-84.03	-1,666.4	400.4	5,034.7	4,903.8	130.89	38.466		
13,877.9	7,113.8	7,076.3	7,074.6	131.1	1.8	-83.98	-1,666.4	400.4	5,112.3	4,980.0	132.36	38.625		
13,900.0	7,113.7	7,076.2	7,074.5	131.5	1.8	-83.97	-1,666.4	400.4	5,134.3	5,001.5	132.78	38.669		
13,976.3	7,113.5	7,075.8	7,074.1	132.9	1.8	-83.93	-1,666.4	400.4	5,210.4	5,076.2	134.22	38.820		
14,000.0	7,113.5	7,075.7	7,074.1	133.4	1.8	-83.92	-1,666.4	400.4	5,234.0	5,099.3	134.67	38.866		
14,074.8	7,113.3	7,075.4	7,073.7	134.8	1.8	-83.88	-1,666.5	400.3	5,308.5	5,172.4	136.08	39.011		
14,100.0	7,113.3	7,075.3	7,073.6	135.3	1.8	-83.86	-1,666.5	400.3	5,333.6	5,197.1	136.56	39.058		
14,173.2	7,113.1	7,075.0	7,073.3	136.7	1.8	-83.82	-1,666.5	400.3	5,406.6	5,268.7	137.94	39.196		
14,200.0	7,113.0	7,074.9	7,073.2	137.2	1.8	-83.81	-1,666.5	400.3	5,433.3	5,294.9	138.44	39.245		
14,219.1	7,113.0	7,074.8	7,073.1	137.6	1.8	-83.80	-1,666.5	400.3	5,452.4	5,313.6	138.81	39.281		

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	11,613.7	6,907.5	0.0	92.0	156.17	-2,834.3	1,252.1	7,630.0				
98.4	98.4	11,613.7	6,907.5	0.1	92.0	156.17	-2,834.3	1,252.1	7,540.1	7,516.3	23.88	315.786	
100.0	100.0	11,613.7	6,907.5	0.1	92.0	156.17	-2,834.3	1,252.1	7,538.7	7,514.8	23.88	315.703	
196.8	196.8	11,613.7	6,907.5	0.3	92.0	156.17	-2,834.3	1,252.1	7,450.5	7,426.4	24.10	309.191	
200.0	200.0	11,613.7	6,907.5	0.3	92.0	156.17	-2,834.3	1,252.1	7,447.6	7,423.5	24.10	308.981	
295.3	295.3	11,613.7	6,907.5	0.5	92.0	156.17	-2,834.3	1,252.1	7,361.1	7,336.8	24.32	302.702	
300.0	300.0	11,613.7	6,907.5	0.5	92.0	156.17	-2,834.3	1,252.1	7,356.8	7,332.5	24.33	302.394	
393.7	393.7	11,613.7	6,907.5	0.8	92.0	156.17	-2,834.3	1,252.1	7,272.0	7,247.4	24.54	296.340	
400.0	400.0	11,613.7	6,907.5	0.8	92.0	156.17	-2,834.3	1,252.1	7,266.3	7,241.7	24.55	295.937	
492.1	492.1	11,613.7	6,907.5	1.0	92.0	156.17	-2,834.3	1,252.1	7,183.0	7,158.3	24.76	290.101	
500.0	500.0	11,613.7	6,907.5	1.0	92.0	156.17	-2,834.3	1,252.1	7,175.9	7,151.2	24.78	289.607	
590.5	590.5	11,613.7	6,907.5	1.2	92.0	156.17	-2,834.3	1,252.1	7,094.4	7,069.4	24.98	283.983	
600.0	600.0	11,613.7	6,907.5	1.2	92.0	156.17	-2,834.3	1,252.1	7,085.9	7,060.9	25.00	283.401	
689.0	689.0	11,613.7	6,907.5	1.4	92.0	156.17	-2,834.3	1,252.1	7,006.0	6,980.8	25.20	277.982	
700.0	700.0	11,613.7	6,907.5	1.4	92.0	156.17	-2,834.3	1,252.1	6,996.1	6,970.8	25.23	277.317	
787.4	787.4	11,613.7	6,907.5	1.6	92.0	156.17	-2,834.3	1,252.1	6,917.8	6,892.4	25.42	272.096	
800.0	800.0	11,613.7	6,907.5	1.7	92.0	156.17	-2,834.3	1,252.1	6,906.6	6,881.1	25.45	271.351	
885.8	885.8	11,613.7	6,907.5	1.9	92.0	156.17	-2,834.3	1,252.1	6,830.0	6,804.3	25.65	266.323	
900.0	900.0	11,613.7	6,907.5	1.9	92.0	156.17	-2,834.3	1,252.1	6,817.3	6,791.7	25.68	265.501	
984.2	984.2	11,613.7	6,907.5	2.1	92.0	156.17	-2,834.3	1,252.1	6,742.4	6,716.5	25.87	260.660	
1,000.0	1,000.0	11,613.7	6,907.5	2.1	92.0	156.17	-2,834.3	1,252.1	6,728.4	6,702.5	25.90	259.764	
1,082.7	1,082.7	11,613.7	6,907.5	2.3	92.0	156.17	-2,834.3	1,252.1	6,655.1	6,629.0	26.09	255.105	
1,100.0	1,100.0	11,613.7	6,907.5	2.3	92.0	156.17	-2,834.3	1,252.1	6,639.8	6,613.7	26.13	254.138	
1,181.1	1,181.1	11,613.7	6,907.5	2.5	92.0	156.17	-2,834.3	1,252.1	6,568.2	6,541.9	26.31	249.655	
1,200.0	1,200.0	11,613.7	6,907.5	2.6	92.0	156.17	-2,834.3	1,252.1	6,551.5	6,525.2	26.35	248.620	
1,279.5	1,279.5	11,613.7	6,907.5	2.7	92.0	156.17	-2,834.3	1,252.1	6,481.6	6,455.0	26.53	244.308	
1,300.0	1,300.0	11,613.7	6,907.5	2.8	92.0	156.17	-2,834.3	1,252.1	6,463.6	6,437.0	26.58	243.209	
1,377.9	1,377.9	11,613.7	6,907.5	3.0	92.0	161.35	-2,834.3	1,252.1	6,395.8	6,366.8	28.94	220.972	
1,400.0	1,400.0	11,613.7	6,907.5	3.0	92.0	161.59	-2,834.3	1,252.1	6,376.8	6,347.9	28.88	220.823	
1,476.4	1,476.3	11,613.7	6,907.5	3.2	92.0	162.35	-2,834.3	1,252.1	6,312.0	6,283.2	28.73	219.691	
1,500.0	1,499.8	11,613.7	6,907.5	3.2	92.0	162.56	-2,834.3	1,252.1	6,292.2	6,263.5	28.71	219.169	
1,574.8	1,574.4	11,613.7	6,907.5	3.4	92.0	163.21	-2,834.3	1,252.1	6,230.4	6,201.7	28.71	217.036	
1,600.0	1,599.5	11,613.7	6,907.5	3.5	92.0	163.41	-2,834.3	1,252.1	6,209.9	6,181.1	28.73	216.177	
1,673.2	1,672.2	11,613.7	6,907.5	3.6	92.0	163.97	-2,834.3	1,252.1	6,151.1	6,122.3	28.83	213.326	
1,700.0	1,698.7	11,613.7	6,907.5	3.7	92.0	164.15	-2,834.3	1,252.1	6,130.0	6,101.1	28.89	212.176	
1,771.6	1,769.5	11,613.7	6,907.5	3.9	92.0	164.63	-2,834.3	1,252.1	6,074.5	6,045.4	29.09	208.841	
1,800.0	1,797.5	11,613.7	6,907.5	4.0	92.0	164.80	-2,834.3	1,252.1	6,052.9	6,023.7	29.18	207.445	
1,870.1	1,866.3	11,613.7	6,907.5	4.2	92.0	165.21	-2,834.3	1,252.1	6,000.6	5,971.2	29.44	203.817	
1,900.1	1,895.8	11,613.7	6,907.5	4.3	92.0	165.37	-2,834.3	1,252.1	5,978.6	5,949.0	29.57	202.212	
1,968.5	1,962.6	11,613.7	6,907.5	4.5	92.0	165.37	-2,834.3	1,252.1	5,929.1	5,899.4	29.73	199.420	
2,000.0	1,993.4	11,613.7	6,907.5	4.6	92.0	165.37	-2,834.3	1,252.1	5,906.4	5,876.6	29.81	198.151	
2,066.9	2,058.9	11,613.7	6,907.5	4.8	92.0	165.37	-2,834.3	1,252.1	5,858.5	5,828.5	29.98	195.441	
2,100.0	2,091.3	11,613.7	6,907.5	4.9	92.0	165.37	-2,834.3	1,252.1	5,835.0	5,804.9	30.05	194.146	
2,165.3	2,155.2	11,613.7	6,907.5	5.1	92.0	165.37	-2,834.3	1,252.1	5,788.7	5,758.5	30.22	191.576	
2,200.0	2,189.1	11,613.7	6,907.5	5.3	92.0	165.37	-2,834.3	1,252.1	5,764.3	5,734.0	30.31	190.210	
2,263.8	2,251.4	11,613.7	6,907.5	5.5	92.0	165.37	-2,834.3	1,252.1	5,719.8	5,689.3	30.47	187.737	
2,300.0	2,286.9	11,613.7	6,907.5	5.6	92.0	165.37	-2,834.3	1,252.1	5,694.6	5,664.0	30.56	186.346	
2,362.2	2,347.7	11,613.7	6,907.5	5.9	92.0	165.37	-2,834.3	1,252.1	5,651.7	5,621.0	30.72	183.980	
2,400.0	2,384.7	11,613.7	6,907.5	6.0	92.0	165.37	-2,834.3	1,252.1	5,625.8	5,595.0	30.82	182.559	
2,460.6	2,444.0	11,613.7	6,907.5	6.3	92.0	165.37	-2,834.3	1,252.1	5,584.5	5,553.5	30.97	180.300	
2,500.0	2,482.5	11,613.7	6,907.5	6.4	92.0	165.37	-2,834.3	1,252.1	5,557.9	5,526.8	31.08	178.850	
2,559.0	2,540.3	11,613.7	6,907.5	6.6	92.0	165.37	-2,834.3	1,252.1	5,518.3	5,487.0	31.23	176.697	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
2,600.0	2,580.3	11,613.7	6,907.5	6.8	92.0	165.37	-2,834.3	1,252.1	5,491.0	5,459.7	31.34	175.222	
2,617.6	2,597.5	11,613.7	6,907.5	6.9	92.0	165.37	-2,834.3	1,252.1	5,479.3	5,447.9	31.38	174.592	
2,657.5	2,636.6	11,613.7	6,907.5	7.0	92.0	165.19	-2,834.3	1,252.1	5,452.8	5,421.4	31.39	173.707	
2,700.0	2,678.4	11,613.7	6,907.5	7.2	92.0	164.99	-2,834.3	1,252.1	5,424.3	5,392.8	31.41	172.700	
2,755.9	2,733.5	11,613.7	6,907.5	7.3	92.0	164.72	-2,834.3	1,252.1	5,386.3	5,354.9	31.43	171.367	
2,800.0	2,777.0	11,613.7	6,907.5	7.4	92.0	164.50	-2,834.3	1,252.1	5,356.1	5,324.6	31.46	170.230	
2,854.3	2,830.9	11,613.7	6,907.5	7.6	92.0	164.22	-2,834.3	1,252.1	5,318.4	5,286.9	31.52	168.735	
2,900.0	2,876.2	11,613.7	6,907.5	7.7	92.0	163.98	-2,834.3	1,252.1	5,286.4	5,254.8	31.58	167.383	
2,952.7	2,928.7	11,613.7	6,907.5	7.8	92.0	163.68	-2,834.3	1,252.1	5,249.1	5,217.4	31.67	165.726	
3,000.0	2,975.8	11,613.7	6,907.5	7.9	92.0	163.41	-2,834.3	1,252.1	5,215.4	5,183.6	31.77	164.138	
3,051.2	3,026.8	11,613.7	6,907.5	8.0	92.0	163.10	-2,834.3	1,252.1	5,178.4	5,146.5	31.90	162.323	
3,100.0	3,075.6	11,613.7	6,907.5	8.1	92.0	162.80	-2,834.3	1,252.1	5,142.9	5,110.8	32.05	160.481	
3,149.6	3,125.2	11,613.7	6,907.5	8.2	92.0	162.48	-2,834.3	1,252.1	5,106.4	5,074.2	32.21	158.516	
3,200.0	3,175.6	11,613.7	6,907.5	8.3	92.0	162.14	-2,834.3	1,252.1	5,069.1	5,036.6	32.41	156.403	
3,217.7	3,193.3	11,613.7	6,907.5	8.3	92.0	157.73	-2,834.3	1,252.1	5,055.8	5,023.2	32.63	154.933	
3,248.0	3,223.6	11,613.7	6,907.5	8.4	92.0	157.73	-2,834.3	1,252.1	5,033.2	5,000.5	32.69	153.967	
3,300.0	3,275.6	11,613.7	6,907.5	8.5	92.0	157.73	-2,834.3	1,252.1	4,994.6	4,961.8	32.79	152.324	
3,346.4	3,322.0	11,613.7	6,907.5	8.6	92.0	157.73	-2,834.3	1,252.1	4,960.3	4,927.5	32.89	150.830	
3,400.0	3,375.6	11,613.7	6,907.5	8.7	92.0	157.73	-2,834.3	1,252.1	4,921.1	4,888.1	33.00	149.126	
3,444.9	3,420.4	11,613.7	6,907.5	8.7	92.0	157.73	-2,834.3	1,252.1	4,888.4	4,855.3	33.09	147.712	
3,500.0	3,475.6	11,613.7	6,907.5	8.8	92.0	157.73	-2,834.3	1,252.1	4,848.5	4,815.2	33.21	145.994	
3,543.3	3,518.9	11,613.7	6,907.5	8.9	92.0	157.73	-2,834.3	1,252.1	4,817.3	4,784.0	33.30	144.658	
3,600.0	3,575.6	11,613.7	6,907.5	9.0	92.0	157.73	-2,834.3	1,252.1	4,776.8	4,743.4	33.42	142.927	
3,641.7	3,617.3	11,613.7	6,907.5	9.1	92.0	157.73	-2,834.3	1,252.1	4,747.2	4,713.7	33.51	141.667	
3,700.0	3,675.6	11,613.7	6,907.5	9.2	92.0	157.73	-2,834.3	1,252.1	4,706.2	4,672.6	33.63	139.927	
3,740.1	3,715.7	11,613.7	6,907.5	9.3	92.0	157.73	-2,834.3	1,252.1	4,678.2	4,644.5	33.72	138.741	
3,800.0	3,775.6	11,613.7	6,907.5	9.4	92.0	157.73	-2,834.3	1,252.1	4,636.7	4,602.9	33.85	136.994	
3,838.6	3,814.1	11,613.7	6,907.5	9.5	92.0	157.73	-2,834.3	1,252.1	4,610.2	4,576.3	33.93	135.880	
3,900.0	3,875.6	11,613.7	6,907.5	9.6	92.0	157.73	-2,834.3	1,252.1	4,568.4	4,534.3	34.06	134.128	
3,937.0	3,912.6	11,613.7	6,907.5	9.7	92.0	157.73	-2,834.3	1,252.1	4,543.4	4,509.2	34.14	133.085	
4,000.0	3,975.6	11,613.7	6,907.5	9.8	92.0	157.73	-2,834.3	1,252.1	4,501.2	4,466.9	34.27	131.330	
4,035.4	4,011.0	11,613.7	6,907.5	9.9	92.0	157.73	-2,834.3	1,252.1	4,477.7	4,443.3	34.35	130.356	
4,100.0	4,075.6	11,613.7	6,907.5	10.0	92.0	157.73	-2,834.3	1,252.1	4,435.2	4,400.7	34.49	128.601	
4,133.8	4,109.4	11,613.7	6,907.5	10.0	92.0	157.73	-2,834.3	1,252.1	4,413.2	4,378.6	34.56	127.693	
4,200.0	4,175.6	11,613.7	6,907.5	10.2	92.0	157.73	-2,834.3	1,252.1	4,370.6	4,335.9	34.70	125.941	
4,232.3	4,207.8	11,613.7	6,907.5	10.2	92.0	157.73	-2,834.3	1,252.1	4,350.0	4,315.2	34.77	125.098	
4,300.0	4,275.6	11,613.7	6,907.5	10.4	92.0	157.73	-2,834.3	1,252.1	4,307.2	4,272.3	34.92	123.351	
4,330.7	4,306.3	11,613.7	6,907.5	10.4	92.0	157.73	-2,834.3	1,252.1	4,288.1	4,253.1	34.98	122.570	
4,400.0	4,375.6	11,613.7	6,907.5	10.6	92.0	157.73	-2,834.3	1,252.1	4,245.4	4,210.2	35.13	120.832	
4,429.1	4,404.7	11,613.7	6,907.5	10.6	92.0	157.73	-2,834.3	1,252.1	4,227.6	4,192.4	35.20	120.111	
4,500.0	4,475.6	11,613.7	6,907.5	10.8	92.0	157.73	-2,834.3	1,252.1	4,184.9	4,149.6	35.35	118.383	
4,527.5	4,503.1	11,613.7	6,907.5	10.8	92.0	157.73	-2,834.3	1,252.1	4,168.5	4,133.1	35.41	117.721	
4,600.0	4,575.6	11,613.7	6,907.5	11.0	92.0	157.73	-2,834.3	1,252.1	4,126.0	4,090.5	35.57	116.007	
4,626.0	4,601.5	11,613.7	6,907.5	11.0	92.0	157.73	-2,834.3	1,252.1	4,111.0	4,075.4	35.62	115.401	
4,700.0	4,675.6	11,613.7	6,907.5	11.2	92.0	157.73	-2,834.3	1,252.1	4,068.8	4,033.0	35.78	113.703	
4,724.4	4,700.0	11,613.7	6,907.5	11.2	92.0	157.73	-2,834.3	1,252.1	4,055.0	4,019.2	35.84	113.152	
4,800.0	4,775.6	11,613.7	6,907.5	11.4	92.0	157.73	-2,834.3	1,252.1	4,013.2	3,977.2	36.00	111.472	
4,822.8	4,798.4	11,613.7	6,907.5	11.4	92.0	157.73	-2,834.3	1,252.1	4,000.7	3,964.7	36.05	110.973	
4,900.0	4,875.6	11,613.7	6,907.5	11.6	92.0	157.73	-2,834.3	1,252.1	3,959.3	3,923.1	36.22	109.315	
4,921.2	4,896.8	11,613.7	6,907.5	11.6	92.0	157.73	-2,834.3	1,252.1	3,948.1	3,911.8	36.27	108.866	
5,000.0	4,975.6	11,613.7	6,907.5	11.8	92.0	157.73	-2,834.3	1,252.1	3,907.3	3,870.8	36.44	107.233	
5,019.7	4,995.2	11,613.7	6,907.5	11.8	92.0	157.73	-2,834.3	1,252.1	3,897.2	3,860.8	36.48	106.832	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWDD												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	
5,100.0	5,075.6	11,613.7	6,907.5	12.0	92.0	157.73	-2,834.3	1,252.1	3,857.1	3,820.5	36.66	105.227	
5,118.1	5,093.7	11,613.7	6,907.5	12.0	92.0	157.73	-2,834.3	1,252.1	3,848.2	3,811.5	36.69	104.872	
5,200.0	5,175.6	11,613.7	6,907.5	12.2	92.0	157.73	-2,834.3	1,252.1	3,808.9	3,772.0	36.87	103.297	
5,216.5	5,192.1	11,613.7	6,907.5	12.2	92.0	157.73	-2,834.3	1,252.1	3,801.2	3,764.2	36.91	102.985	
5,300.0	5,275.6	11,613.7	6,907.5	12.4	92.0	157.73	-2,834.3	1,252.1	3,762.8	3,725.7	37.09	101.444	
5,314.9	5,290.5	11,613.7	6,907.5	12.4	92.0	157.73	-2,834.3	1,252.1	3,756.1	3,718.9	37.13	101.173	
5,400.0	5,375.6	11,613.7	6,907.5	12.6	92.0	157.73	-2,834.3	1,252.1	3,718.8	3,681.4	37.31	99.669	
5,413.4	5,388.9	11,613.7	6,907.5	12.6	92.0	157.73	-2,834.3	1,252.1	3,713.0	3,675.7	37.34	99.437	
5,500.0	5,475.6	11,613.7	6,907.5	12.8	92.0	157.73	-2,834.3	1,252.1	3,676.9	3,639.4	37.53	97.972	
5,511.8	5,487.4	11,613.7	6,907.5	12.8	92.0	157.73	-2,834.3	1,252.1	3,672.1	3,634.6	37.56	97.777	
5,600.0	5,575.6	11,613.7	6,907.5	13.0	92.0	157.73	-2,834.3	1,252.1	3,637.4	3,599.6	37.75	96.355	
5,610.2	5,585.8	11,613.7	6,907.5	13.0	92.0	157.73	-2,834.3	1,252.1	3,633.4	3,595.7	37.77	96.194	
5,700.0	5,675.6	11,613.7	6,907.5	13.2	92.0	157.73	-2,834.3	1,252.1	3,600.1	3,562.2	37.97	94.817	
5,708.6	5,684.2	11,613.7	6,907.5	13.2	92.0	157.73	-2,834.3	1,252.1	3,597.0	3,559.0	37.99	94.688	
5,800.0	5,775.6	11,613.7	6,907.5	13.4	92.0	157.73	-2,834.3	1,252.1	3,565.3	3,527.1	38.19	93.361	
5,807.1	5,782.6	11,613.7	6,907.5	13.4	92.0	157.73	-2,834.3	1,252.1	3,563.0	3,524.8	38.20	93.260	
5,900.0	5,875.6	11,613.7	6,907.5	13.6	92.0	157.73	-2,834.3	1,252.1	3,533.0	3,494.6	38.41	91.985	
5,905.5	5,881.1	11,613.7	6,907.5	13.6	92.0	157.73	-2,834.3	1,252.1	3,531.3	3,492.9	38.42	91.911	
6,000.0	5,975.6	11,613.7	6,907.5	13.8	92.0	157.73	-2,834.3	1,252.1	3,503.3	3,464.6	38.63	90.690	
6,003.9	5,979.5	11,613.7	6,907.5	13.8	92.0	157.73	-2,834.3	1,252.1	3,502.1	3,463.5	38.64	90.641	
6,100.0	6,075.6	11,613.7	6,907.5	14.0	92.0	157.73	-2,834.3	1,252.1	3,476.1	3,437.3	38.85	89.478	
6,102.3	6,077.9	11,613.7	6,907.5	14.0	92.0	157.73	-2,834.3	1,252.1	3,475.5	3,436.7	38.85	89.450	
6,200.0	6,175.6	11,613.7	6,907.5	14.2	92.0	157.73	-2,834.3	1,252.1	3,451.7	3,412.6	39.07	88.347	
6,200.8	6,176.3	11,613.7	6,907.5	14.2	92.0	157.73	-2,834.3	1,252.1	3,451.5	3,412.4	39.07	88.339	
6,299.2	6,274.8	11,613.7	6,907.5	14.4	92.0	157.73	-2,834.3	1,252.1	3,430.1	3,390.8	39.29	87.307	
6,300.0	6,275.6	11,613.7	6,907.5	14.4	92.0	157.73	-2,834.3	1,252.1	3,430.0	3,390.7	39.29	87.299	
6,397.6	6,373.2	11,613.7	6,907.5	14.7	92.0	157.73	-2,834.3	1,252.1	3,411.5	3,372.0	39.51	86.355	
6,400.0	6,375.6	11,613.7	6,907.5	14.7	92.0	157.73	-2,834.3	1,252.1	3,411.0	3,371.5	39.51	86.333	
6,436.2	6,411.8	11,613.7	6,907.5	14.7	92.0	157.73	-2,834.3	1,252.1	3,404.9	3,365.3	39.59	86.003	
6,450.0	6,425.6	11,613.7	6,907.5	14.8	92.0	-22.55	-2,834.3	1,252.1	3,402.5	3,363.1	39.41	86.340	
6,496.0	6,471.5	11,613.7	6,907.5	14.8	92.0	-22.84	-2,834.3	1,252.1	3,393.3	3,353.9	39.39	86.146	
6,500.0	6,475.5	11,613.7	6,907.5	14.8	92.0	-22.87	-2,834.3	1,252.1	3,392.4	3,353.0	39.40	86.108	
6,550.0	6,525.1	11,613.7	6,907.5	14.9	92.0	-23.28	-2,834.3	1,252.1	3,379.8	3,340.2	39.60	85.342	
6,594.5	6,568.7	11,613.7	6,907.5	14.9	92.0	-23.72	-2,834.3	1,252.1	3,366.6	3,326.6	39.98	84.209	
6,600.0	6,574.1	11,613.7	6,907.5	14.9	92.0	-23.78	-2,834.3	1,252.1	3,364.9	3,324.8	40.04	84.039	
6,650.0	6,622.4	11,613.7	6,907.5	14.9	92.0	-24.38	-2,834.3	1,252.1	3,347.5	3,306.8	40.71	82.224	
6,692.9	6,663.0	11,613.7	6,907.5	14.9	92.0	-24.99	-2,834.3	1,252.1	3,330.8	3,289.3	41.48	80.291	
6,700.0	6,669.6	11,613.7	6,907.5	14.9	92.0	-25.10	-2,834.3	1,252.1	3,327.9	3,286.3	41.63	79.940	
6,750.0	6,715.6	11,613.7	6,907.5	14.9	92.0	-25.94	-2,834.3	1,252.1	3,306.0	3,263.2	42.80	77.248	
6,791.3	6,752.5	11,613.7	6,907.5	14.9	92.0	-26.73	-2,834.3	1,252.1	3,286.3	3,242.3	43.96	74.759	
6,800.0	6,760.1	11,613.7	6,907.5	14.9	92.0	-26.91	-2,834.3	1,252.1	3,281.9	3,237.7	44.22	74.210	
6,850.0	6,802.9	11,613.7	6,907.5	14.9	92.0	-28.05	-2,834.3	1,252.1	3,255.7	3,209.8	45.93	70.892	
6,889.7	6,835.6	11,613.7	6,907.5	14.9	92.0	-29.08	-2,834.3	1,252.1	3,233.4	3,186.0	47.49	68.093	
6,900.0	6,843.8	11,613.7	6,907.5	14.9	92.0	-29.37	-2,834.3	1,252.1	3,227.5	3,179.6	47.92	67.353	
6,950.0	6,882.6	11,613.7	6,907.5	14.9	92.0	-30.89	-2,834.3	1,252.1	3,197.3	3,147.1	50.23	63.648	
6,988.2	6,910.7	11,613.7	6,907.5	15.0	92.0	-32.21	-2,834.3	1,252.1	3,173.0	3,120.7	52.24	60.738	
7,000.0	6,919.1	11,613.7	6,907.5	15.0	92.0	-32.65	-2,834.3	1,252.1	3,165.2	3,112.3	52.91	59.827	
7,050.0	6,953.1	11,613.7	6,907.5	15.0	92.0	-34.69	-2,834.3	1,252.1	3,131.4	3,075.4	55.98	55.939	
7,086.6	6,976.4	11,613.7	6,907.5	15.1	92.0	-36.38	-2,834.3	1,252.1	3,105.6	3,047.1	58.51	53.077	
7,100.0	6,984.5	11,613.7	6,907.5	15.1	92.0	-37.05	-2,834.3	1,252.1	3,095.9	3,036.4	59.50	52.033	
7,150.0	7,013.1	11,613.7	6,907.5	15.3	92.0	-39.78	-2,834.3	1,252.1	3,058.9	2,995.4	63.51	48.161	
7,185.0	7,031.4	11,613.7	6,907.5	15.4	92.0	-41.96	-2,834.3	1,252.1	3,032.1	2,965.5	66.64	45.497	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
7,200.0	7,038.8	11,613.7	6,907.5	15.4	92.0	-42.96	-2,834.3	1,252.1	3,020.5	2,952.4	68.06	44.381	
7,250.0	7,061.4	11,613.7	6,907.5	15.6	92.0	-46.64	-2,834.3	1,252.1	2,980.8	2,907.7	73.14	40.757	
7,283.4	7,074.8	11,613.7	6,907.5	15.8	92.0	-49.41	-2,834.3	1,252.1	2,953.6	2,876.8	76.81	38.452	
7,300.0	7,080.9	11,613.7	6,907.5	15.9	92.0	-50.89	-2,834.3	1,252.1	2,940.0	2,861.3	78.70	37.358	
7,350.0	7,097.1	11,613.7	6,907.5	16.2	92.0	-55.77	-2,834.3	1,252.1	2,898.2	2,813.6	84.61	34.252	
7,381.9	7,105.7	11,613.7	6,907.5	16.4	92.0	-59.23	-2,834.3	1,252.1	2,871.1	2,782.7	88.47	32.454	
7,400.0	7,109.9	11,613.7	6,907.5	16.6	92.0	-61.31	-2,834.3	1,252.1	2,855.6	2,765.0	90.64	31.506	
7,450.0	7,119.4	11,613.7	6,907.5	17.0	92.0	-67.51	-2,834.3	1,252.1	2,812.4	2,716.0	96.39	29.176	
7,480.3	7,123.4	11,613.7	6,907.5	17.2	92.0	-71.55	-2,834.3	1,252.1	2,786.0	2,686.4	99.55	27.984	
7,500.0	7,125.4	11,613.7	6,907.5	17.4	92.0	-74.28	-2,834.3	1,252.1	2,768.7	2,667.3	101.40	27.305	
7,550.0	7,127.9	11,613.7	6,907.5	17.9	92.0	-81.45	-2,834.3	1,252.1	2,724.8	2,619.7	105.15	25.914	
7,562.9	7,128.0	11,613.7	6,907.5	18.0	92.0	-83.33	-2,834.3	1,252.1	2,713.5	2,607.6	105.86	25.633	
7,578.7	7,128.0	11,613.7	6,907.5	18.2	92.0	-83.33	-2,834.3	1,252.1	2,699.6	2,593.6	106.02	25.462	
7,600.0	7,127.9	11,613.7	6,907.5	18.4	92.0	-83.33	-2,834.3	1,252.1	2,680.9	2,574.7	106.24	25.235	
7,677.1	7,127.7	11,613.7	6,907.5	19.2	92.0	-83.33	-2,834.3	1,252.1	2,613.6	2,506.5	107.10	24.404	
7,700.0	7,127.7	11,613.7	6,907.5	19.5	92.0	-83.33	-2,834.3	1,252.1	2,593.8	2,486.4	107.35	24.161	
7,775.6	7,127.5	11,613.7	6,907.5	20.3	92.0	-83.33	-2,834.3	1,252.1	2,528.5	2,420.4	108.15	23.381	
7,800.0	7,127.5	11,613.7	6,907.5	20.5	92.0	-83.33	-2,834.3	1,252.1	2,507.6	2,399.2	108.40	23.132	
7,874.0	7,127.3	11,613.7	6,907.5	21.4	92.0	-83.33	-2,834.3	1,252.1	2,444.4	2,335.2	109.26	22.374	
7,900.0	7,127.2	11,613.7	6,907.5	21.7	92.0	-83.33	-2,834.3	1,252.1	2,422.4	2,312.9	109.56	22.111	
7,972.4	7,127.1	11,613.7	6,907.5	22.7	92.0	-83.33	-2,834.3	1,252.1	2,361.5	2,250.9	110.56	21.358	
8,000.0	7,127.0	11,613.7	6,907.5	23.1	92.0	-83.33	-2,834.3	1,252.1	2,338.5	2,227.5	110.95	21.077	
8,070.8	7,126.8	11,613.7	6,907.5	24.2	92.0	-83.33	-2,834.3	1,252.1	2,279.8	2,167.8	111.99	20.358	
8,100.0	7,126.8	11,613.7	6,907.5	24.6	92.0	-83.33	-2,834.3	1,252.1	2,255.8	2,143.4	112.41	20.067	
8,169.3	7,126.6	11,613.7	6,907.5	25.6	92.0	-83.33	-2,834.3	1,252.1	2,199.4	2,085.9	113.47	19.384	
8,200.0	7,126.6	11,613.7	6,907.5	26.1	92.0	-83.33	-2,834.3	1,252.1	2,174.6	2,060.7	113.93	19.087	
8,267.7	7,126.4	11,613.7	6,907.5	27.2	92.0	-83.33	-2,834.3	1,252.1	2,120.6	2,005.6	115.00	18.440	
8,300.0	7,126.3	11,613.7	6,907.5	27.7	92.0	-83.33	-2,834.3	1,252.1	2,095.0	1,979.5	115.50	18.138	
8,366.1	7,126.2	11,613.7	6,907.5	28.8	92.0	-83.33	-2,834.3	1,252.1	2,043.4	1,926.8	116.57	17.530	
8,400.0	7,126.1	11,613.7	6,907.5	29.3	92.0	-83.33	-2,834.3	1,252.1	2,017.3	1,900.2	117.11	17.225	
8,464.5	7,126.0	11,613.7	6,907.5	30.4	92.0	-83.33	-2,834.3	1,252.1	1,968.2	1,850.0	118.17	16.655	
8,500.0	7,125.9	11,613.7	6,907.5	31.0	92.0	-83.33	-2,834.3	1,252.1	1,941.6	1,822.8	118.76	16.349	
8,563.0	7,125.7	11,613.7	6,907.5	32.0	92.0	-83.33	-2,834.3	1,252.1	1,895.1	1,775.2	119.81	15.817	
8,600.0	7,125.6	11,613.7	6,907.5	32.6	92.0	-83.33	-2,834.3	1,252.1	1,868.1	1,747.7	120.43	15.512	
8,661.4	7,125.5	11,613.7	6,907.5	33.7	92.0	-83.33	-2,834.3	1,252.1	1,824.3	1,702.8	121.47	15.018	
8,700.0	7,125.4	11,613.7	6,907.5	34.4	92.0	-83.33	-2,834.3	1,252.1	1,797.3	1,675.2	122.13	14.717	
8,759.8	7,125.3	11,613.7	6,907.5	35.4	92.0	-83.33	-2,834.3	1,252.1	1,756.3	1,633.1	123.16	14.260	
8,800.0	7,125.2	11,613.7	6,907.5	36.1	92.0	-83.33	-2,834.3	1,252.1	1,729.3	1,605.5	123.85	13.963	
8,858.2	7,125.1	11,613.7	6,907.5	37.1	92.0	-83.33	-2,834.3	1,252.1	1,691.2	1,566.3	124.86	13.545	
8,900.0	7,125.0	11,613.7	6,907.5	37.8	92.0	-83.33	-2,834.3	1,252.1	1,664.6	1,539.0	125.58	13.255	
8,956.7	7,124.8	11,613.7	6,907.5	38.8	92.0	-83.33	-2,834.3	1,252.1	1,629.5	1,502.9	126.58	12.873	
9,000.0	7,124.7	11,613.7	6,907.5	39.6	92.0	-83.33	-2,834.3	1,252.1	1,603.4	1,476.1	127.34	12.592	
9,055.1	7,124.6	11,613.7	6,907.5	40.6	92.0	-83.33	-2,834.3	1,252.1	1,571.5	1,443.2	128.31	12.247	
9,100.0	7,124.5	11,613.7	6,907.5	41.4	92.0	-83.33	-2,834.3	1,252.1	1,546.4	1,417.3	129.10	11.978	
9,153.5	7,124.4	11,613.7	6,907.5	42.3	92.0	-83.33	-2,834.3	1,252.1	1,517.7	1,387.6	130.06	11.669	
9,200.0	7,124.3	11,613.7	6,907.5	43.2	92.0	-83.33	-2,834.3	1,252.1	1,493.8	1,363.0	130.88	11.414	
9,251.9	7,124.2	11,613.7	6,907.5	44.1	92.0	-83.33	-2,834.3	1,252.1	1,468.5	1,336.7	131.81	11.141	
9,300.0	7,124.1	11,613.7	6,907.5	45.0	92.0	-83.33	-2,834.3	1,252.1	1,446.3	1,313.6	132.67	10.901	
9,350.4	7,123.9	11,613.7	6,907.5	45.9	92.0	-83.33	-2,834.3	1,252.1	1,424.4	1,290.9	133.58	10.664	
9,400.0	7,123.8	11,613.7	6,907.5	46.8	92.0	-83.33	-2,834.3	1,252.1	1,404.3	1,269.8	134.47	10.443	
9,448.8	7,123.7	11,613.7	6,907.5	47.7	92.0	-83.33	-2,834.3	1,252.1	1,386.0	1,250.6	135.35	10.240	
9,500.0	7,123.6	11,613.7	6,907.5	48.6	92.0	-83.33	-2,834.3	1,252.1	1,368.3	1,232.1	136.28	10.041	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	
9,547.2	7,123.5	11,613.7	6,907.5	49.4	92.0	-83.33	-2,834.3	1,252.1	1,353.6	1,216.5	137.14	9.870	
9,600.0	7,123.4	11,613.7	6,907.5	50.4	92.0	-83.33	-2,834.3	1,252.1	1,338.9	1,200.8	138.09	9.695	
9,645.6	7,123.3	11,613.7	6,907.5	51.2	92.0	-83.33	-2,834.3	1,252.1	1,327.7	1,188.8	138.93	9.557	
9,700.0	7,123.2	11,613.7	6,907.5	52.2	92.0	-83.33	-2,834.3	1,252.1	1,316.4	1,176.5	139.92	9.408	
9,744.1	7,123.1	11,613.7	6,907.5	53.1	92.0	-83.33	-2,834.3	1,252.1	1,308.8	1,168.1	140.72	9.300	
9,800.0	7,122.9	11,613.7	6,907.5	54.1	92.0	-83.33	-2,834.3	1,252.1	1,301.2	1,159.5	141.74	9.180	
9,842.5	7,122.8	11,613.7	6,907.5	54.9	92.0	-83.33	-2,834.3	1,252.1	1,297.0	1,154.5	142.52	9.101	
9,900.0	7,122.7	11,613.7	6,907.5	55.9	92.0	-83.33	-2,834.3	1,252.1	1,293.6	1,150.0	143.58	9.010	
9,940.9	7,122.6	11,613.7	6,907.5	56.7	92.0	-83.33	-2,834.3	1,252.1	1,292.7	1,148.4	144.33	8.957	
9,949.7	7,122.6	11,613.7	6,907.5	56.8	92.0	-83.33	-2,834.3	1,252.1	1,292.7	1,148.2	144.49	8.946 CC, ES	
10,000.0	7,122.5	11,565.9	6,907.8	57.8	91.2	-83.35	-2,882.1	1,252.1	1,292.8	1,148.3	144.53	8.945	
10,039.3	7,122.4	11,526.5	6,908.1	58.5	90.5	-83.37	-2,921.4	1,252.1	1,292.9	1,148.4	144.52	8.946	
10,100.0	7,122.3	11,465.9	6,908.5	59.6	89.4	-83.39	-2,982.1	1,252.1	1,293.1	1,148.6	144.51	8.948	
10,137.8	7,122.2	11,428.1	6,908.7	60.3	88.7	-83.41	-3,019.8	1,252.1	1,293.2	1,148.7	144.51	8.949	
10,200.0	7,122.0	11,365.9	6,909.2	61.5	87.5	-83.43	-3,082.1	1,252.1	1,293.4	1,148.9	144.50	8.950	
10,236.2	7,121.9	11,329.7	6,909.4	62.2	86.9	-83.45	-3,118.3	1,252.1	1,293.5	1,149.0	144.50	8.951	
10,300.0	7,121.8	11,265.9	6,909.8	63.3	85.7	-83.48	-3,182.1	1,252.1	1,293.6	1,149.1	144.50	8.953	
10,334.6	7,121.7	11,231.3	6,910.1	64.0	85.1	-83.49	-3,216.7	1,252.1	1,293.7	1,149.2	144.50	8.953	
10,400.0	7,121.6	11,165.9	6,910.5	65.2	83.9	-83.52	-3,282.1	1,252.1	1,293.9	1,149.4	144.50	8.954	
10,433.0	7,121.5	11,132.9	6,910.7	65.8	83.3	-83.53	-3,315.1	1,252.1	1,294.0	1,149.5	144.50	8.955	
10,500.0	7,121.4	11,065.9	6,911.2	67.1	82.1	-83.56	-3,382.0	1,252.1	1,294.2	1,149.7	144.51	8.956	
10,531.5	7,121.3	11,034.4	6,911.4	67.7	81.6	-83.57	-3,413.5	1,252.1	1,294.3	1,149.8	144.51	8.956	
10,600.0	7,121.1	10,965.9	6,911.8	69.0	80.3	-83.60	-3,482.0	1,252.1	1,294.5	1,149.9	144.52	8.957	
10,629.9	7,121.1	10,936.0	6,912.0	69.5	79.8	-83.61	-3,511.9	1,252.2	1,294.5	1,150.0	144.52	8.957	
10,700.0	7,120.9	10,865.9	6,912.5	70.8	78.6	-83.64	-3,582.0	1,252.2	1,294.7	1,150.2	144.54	8.958	
10,728.3	7,120.8	10,837.6	6,912.7	71.4	78.0	-83.65	-3,610.4	1,252.2	1,294.8	1,150.3	144.54	8.958	
10,800.0	7,120.7	10,765.9	6,913.2	72.7	76.8	-83.68	-3,682.0	1,252.2	1,295.0	1,150.4	144.56	8.958	
10,826.7	7,120.6	10,739.2	6,913.3	73.2	76.3	-83.69	-3,708.8	1,252.2	1,295.1	1,150.5	144.56	8.958	
10,900.0	7,120.5	10,665.9	6,913.8	74.6	75.0	-83.72	-3,782.0	1,252.2	1,295.3	1,150.7	144.58	8.959	
10,925.2	7,120.4	10,640.8	6,914.0	75.1	74.6	-83.73	-3,807.2	1,252.2	1,295.4	1,150.8	144.59	8.959	
11,000.0	7,120.2	10,565.9	6,914.5	76.5	73.2	-83.76	-3,882.0	1,252.2	1,295.6	1,150.9	144.62	8.959	
11,023.6	7,120.2	10,542.3	6,914.6	76.9	72.8	-83.77	-3,905.6	1,252.2	1,295.6	1,151.0	144.63	8.958	
11,100.0	7,120.0	10,465.9	6,915.2	78.3	71.5	-83.80	-3,982.0	1,252.2	1,295.8	1,151.2	144.65	8.958	
11,122.0	7,120.0	10,443.9	6,915.3	78.8	71.1	-83.81	-4,004.0	1,252.2	1,295.9	1,151.2	144.66	8.958	
11,200.0	7,119.8	10,366.0	6,915.8	80.2	69.7	-83.85	-4,082.0	1,252.2	1,296.1	1,151.4	144.70	8.957	
11,220.4	7,119.7	10,345.5	6,916.0	80.6	69.4	-83.85	-4,102.4	1,252.2	1,296.2	1,151.5	144.71	8.957	
11,300.0	7,119.5	10,266.0	6,916.5	82.1	68.0	-83.89	-4,182.0	1,252.2	1,296.4	1,151.6	144.75	8.956	
11,318.9	7,119.5	10,247.1	6,916.6	82.5	67.7	-83.89	-4,200.9	1,252.2	1,296.4	1,151.7	144.76	8.956	
11,400.0	7,119.3	10,166.0	6,917.2	84.0	66.3	-83.93	-4,282.0	1,252.2	1,296.7	1,151.9	144.80	8.955	
11,417.3	7,119.3	10,148.7	6,917.3	84.3	66.0	-83.93	-4,299.3	1,252.2	1,296.7	1,151.9	144.81	8.955	
11,500.0	7,119.1	10,066.0	6,917.8	85.9	64.6	-83.97	-4,382.0	1,252.2	1,296.9	1,152.1	144.86	8.953	
11,515.7	7,119.1	10,050.2	6,917.9	86.2	64.3	-83.97	-4,397.7	1,252.3	1,297.0	1,152.1	144.87	8.953	
11,600.0	7,118.9	9,966.0	6,918.5	87.8	62.9	-84.01	-4,482.0	1,252.3	1,297.2	1,152.3	144.93	8.951	
11,614.1	7,118.8	9,951.8	6,918.6	88.0	62.6	-84.01	-4,496.1	1,252.3	1,297.3	1,152.3	144.94	8.951	
11,700.0	7,118.6	9,866.0	6,919.2	89.7	61.2	-84.05	-4,582.0	1,252.3	1,297.5	1,152.5	145.00	8.948	
11,712.6	7,118.6	9,853.4	6,919.2	89.9	61.0	-84.06	-4,594.5	1,252.3	1,297.5	1,152.5	145.01	8.948	
11,800.0	7,118.4	9,766.0	6,919.8	91.6	59.5	-84.09	-4,682.0	1,252.3	1,297.8	1,152.7	145.08	8.945	
11,811.0	7,118.4	9,755.0	6,919.9	91.8	59.3	-84.10	-4,693.0	1,252.3	1,297.8	1,152.7	145.09	8.945	
11,900.0	7,118.2	9,666.0	6,920.5	93.4	57.8	-84.13	-4,781.9	1,252.3	1,298.1	1,152.9	145.17	8.942	
11,909.4	7,118.2	9,656.6	6,920.5	93.6	57.7	-84.14	-4,791.4	1,252.3	1,298.1	1,152.9	145.18	8.941	
12,000.0	7,118.0	9,566.0	6,921.2	95.3	56.2	-84.17	-4,881.9	1,252.3	1,298.4	1,153.1	145.27	8.937	
12,007.8	7,118.0	9,558.1	6,921.2	95.5	56.1	-84.18	-4,889.8	1,252.3	1,298.4	1,153.1	145.28	8.937	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SE SEC. 18 T4N R64W 6th P.M. - COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOSAL #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	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
12,100.0	7,117.8	9,466.0	6,921.8	97.2	54.6	-84.21	-4,981.9	1,252.3	1,298.6	1,153.3	145.38	8.933	
12,106.3	7,117.7	9,459.7	6,921.9	97.4	54.5	-84.22	-4,988.2	1,252.3	1,298.7	1,153.3	145.39	8.932	
12,200.0	7,117.5	9,366.0	6,922.5	99.1	53.0	-84.25	-5,081.9	1,252.3	1,298.9	1,153.4	145.50	8.927	
12,204.7	7,117.5	9,361.3	6,922.5	99.2	52.9	-84.26	-5,086.6	1,252.3	1,298.9	1,153.4	145.50	8.927	
12,300.0	7,117.3	9,266.0	6,923.1	101.0	51.4	-84.29	-5,181.9	1,252.3	1,299.2	1,153.6	145.63	8.921	
12,303.1	7,117.3	9,262.9	6,923.2	101.1	51.4	-84.30	-5,185.0	1,252.3	1,299.2	1,153.6	145.63	8.921	
12,400.0	7,117.1	9,166.0	6,923.8	102.9	49.9	-84.34	-5,281.9	1,252.3	1,299.5	1,153.7	145.77	8.915	
12,401.5	7,117.1	9,164.5	6,923.8	103.0	49.8	-84.34	-5,283.5	1,252.3	1,299.5	1,153.7	145.77	8.915	
12,500.0	7,116.9	9,066.0	6,924.5	104.8	48.3	-84.38	-5,381.9	1,252.4	1,299.8	1,153.9	145.93	8.907	
12,598.4	7,116.6	8,967.6	6,925.1	106.7	46.9	-84.42	-5,480.3	1,252.4	1,300.1	1,154.0	146.10	8.898	
12,600.0	7,116.6	8,966.0	6,925.1	106.7	46.9	-84.42	-5,481.9	1,252.4	1,300.1	1,154.0	146.10	8.898	
12,696.8	7,116.4	8,869.2	6,925.8	108.6	45.5	-84.46	-5,578.7	1,252.4	1,300.3	1,154.1	146.29	8.889	
12,700.0	7,116.4	8,866.0	6,925.8	108.6	45.4	-84.46	-5,581.9	1,252.4	1,300.4	1,154.1	146.29	8.889	
12,795.2	7,116.2	8,770.8	6,926.4	110.4	44.1	-84.50	-5,677.1	1,252.4	1,300.6	1,154.1	146.50	8.878	
12,800.0	7,116.2	8,766.0	6,926.5	110.5	44.0	-84.50	-5,681.9	1,252.4	1,300.6	1,154.1	146.51	8.878	
12,893.7	7,116.0	8,672.4	6,927.1	112.3	42.7	-84.54	-5,775.6	1,252.4	1,300.9	1,154.2	146.73	8.866	
12,900.0	7,116.0	8,666.0	6,927.1	112.4	42.7	-84.54	-5,781.9	1,252.4	1,300.9	1,154.2	146.74	8.865	
12,992.1	7,115.7	8,573.9	6,927.7	114.2	41.5	-84.58	-5,874.0	1,252.4	1,301.2	1,154.2	146.98	8.853	
13,000.0	7,115.7	8,566.0	6,927.8	114.3	41.4	-84.58	-5,881.9	1,252.4	1,301.2	1,154.2	147.01	8.852	
13,090.5	7,115.5	8,475.5	6,928.4	116.1	40.2	-84.62	-5,972.4	1,252.4	1,301.5	1,154.2	147.27	8.837	
13,100.0	7,115.5	8,466.0	6,928.5	116.2	40.1	-84.62	-5,981.9	1,252.4	1,301.5	1,154.2	147.30	8.836	
13,188.9	7,115.3	8,377.1	6,929.1	117.9	39.1	-84.66	-6,070.8	1,252.4	1,301.8	1,154.2	147.59	8.820	
13,200.0	7,115.3	8,366.0	6,929.1	118.1	39.0	-84.66	-6,081.9	1,252.4	1,301.8	1,154.2	147.63	8.818	
13,287.4	7,115.1	8,278.7	6,929.7	119.8	38.0	-84.69	-6,169.2	1,252.4	1,302.1	1,154.1	147.95	8.801	
13,300.0	7,115.1	8,266.0	6,929.8	120.0	37.9	-84.70	-6,181.9	1,252.4	1,302.1	1,154.1	148.00	8.798	
13,385.8	7,114.9	8,180.3	6,930.4	121.7	37.0	-84.73	-6,267.6	1,252.5	1,302.3	1,154.0	148.36	8.778	
13,400.0	7,114.8	8,166.1	6,930.5	121.9	36.8	-84.74	-6,281.8	1,252.5	1,302.4	1,154.0	148.42	8.775	
13,484.2	7,114.6	8,081.8	6,931.0	123.6	36.0	-84.77	-6,366.1	1,252.5	1,302.6	1,153.8	148.82	8.753	
13,500.0	7,114.6	8,066.1	6,931.1	123.9	35.9	-84.78	-6,381.8	1,252.5	1,302.7	1,153.8	148.90	8.749	
13,582.6	7,114.4	7,983.4	6,931.7	125.4	35.2	-84.81	-6,464.5	1,252.5	1,302.9	1,153.6	149.34	8.724	
13,600.0	7,114.4	7,966.1	6,931.8	125.8	35.1	-84.82	-6,481.8	1,252.5	1,303.0	1,153.5	149.45	8.719	
13,681.1	7,114.2	7,885.0	6,932.3	127.3	34.5	-84.85	-6,562.9	1,252.5	1,303.2	1,153.3	149.94	8.691	
13,700.0	7,114.2	7,866.1	6,932.4	127.7	34.3	-84.86	-6,581.8	1,252.5	1,303.3	1,153.2	150.07	8.684	
13,779.5	7,114.0	7,786.6	6,933.0	129.2	33.8	-84.89	-6,661.3	1,252.5	1,303.5	1,152.9	150.63	8.654	
13,800.0	7,113.9	7,766.1	6,933.1	129.6	33.7	-84.90	-6,681.8	1,252.5	1,303.6	1,152.8	150.79	8.645	
13,877.9	7,113.8	7,688.2	6,933.6	131.1	33.3	-84.93	-6,759.7	1,252.5	1,303.8	1,152.4	151.42	8.610	
13,900.0	7,113.7	7,666.1	6,933.8	131.5	33.2	-84.94	-6,781.8	1,252.5	1,303.8	1,152.2	151.63	8.599	
13,976.3	7,113.5	7,589.7	6,934.3	132.9	32.9	-84.97	-6,858.2	1,252.5	1,304.1	1,151.7	152.33	8.561	
14,000.0	7,113.5	7,567.3	6,934.4	133.4	32.8	-84.98	-6,880.6	1,252.5	1,304.1	1,151.6	152.58	8.547	
14,074.8	7,113.3	7,500.0	6,931.0	134.8	32.6	-84.84	-6,947.8	1,252.5	1,304.7	1,151.3	153.39	8.506	
14,100.0	7,113.3	7,481.5	6,928.9	135.3	32.5	-84.75	-6,966.2	1,252.5	1,305.1	1,151.4	153.71	8.491	
14,173.2	7,113.1	7,420.0	6,918.7	136.7	32.4	-84.31	-7,026.8	1,252.5	1,306.5	1,152.0	154.52	8.455	
14,200.0	7,113.0	7,400.0	6,914.3	137.2	32.3	-84.12	-7,046.3	1,252.5	1,307.2	1,152.4	154.84	8.443	
14,219.1	7,113.0	7,382.6	6,910.0	137.6	32.3	-83.94	-7,063.2	1,252.5	1,307.8	1,152.8	155.04	8.435 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 106-MWD												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	170.86	-5,114.8	822.7	5,180.6				
98.4	98.4	131.9	131.9	0.1	0.1	170.85	-5,114.0	823.6	5,180.1	5,179.9	0.20	N/A	
100.0	100.0	133.7	133.7	0.1	0.1	170.85	-5,114.0	823.6	5,180.1	5,179.9	0.21	N/A	
196.8	196.8	224.1	224.1	0.3	0.3	170.84	-5,113.0	824.3	5,179.2	5,178.5	0.61	8,458.349	
200.0	200.0	226.2	226.2	0.3	0.3	170.84	-5,112.9	824.4	5,179.1	5,178.5	0.62	8,304.726	
295.3	295.3	285.0	285.0	0.5	0.4	170.84	-5,112.6	824.8	5,178.7	5,177.7	0.96	5,404.377	
299.5	299.5	285.0	285.0	0.5	0.4	170.84	-5,112.6	824.8	5,178.7	5,177.7	0.97	5,351.584	
300.0	300.0	285.0	285.0	0.5	0.4	170.84	-5,112.6	824.8	5,178.7	5,177.7	0.97	5,345.134	
393.7	393.7	342.5	342.4	0.8	0.5	170.83	-5,112.6	825.5	5,179.0	5,177.7	1.30	3,980.480	
400.0	400.0	345.9	345.9	0.8	0.6	170.83	-5,112.6	825.6	5,179.0	5,177.7	1.32	3,915.799	
492.1	492.1	390.0	390.0	1.0	0.6	170.82	-5,113.0	826.5	5,180.1	5,178.5	1.62	3,191.735	
500.0	500.0	390.0	390.0	1.0	0.6	170.82	-5,113.0	826.5	5,180.2	5,178.6	1.64	3,157.386	
590.5	590.5	454.1	454.0	1.2	0.8	170.80	-5,113.9	828.4	5,182.0	5,180.0	1.99	2,606.917	
600.0	600.0	459.6	459.5	1.2	0.8	170.80	-5,114.0	828.6	5,182.2	5,180.2	2.02	2,563.800	
689.0	689.0	517.0	516.9	1.4	0.9	170.77	-5,115.3	830.9	5,184.7	5,182.4	2.35	2,206.349	
700.0	700.0	517.0	516.9	1.4	0.9	170.77	-5,115.3	830.9	5,185.1	5,182.7	2.37	2,183.472	
787.4	787.4	562.5	562.3	1.6	1.0	170.75	-5,116.6	833.1	5,188.3	5,185.6	2.68	1,936.715	
800.0	800.0	569.0	568.8	1.7	1.1	170.75	-5,116.8	833.4	5,188.8	5,186.1	2.72	1,905.845	
885.8	885.8	613.2	612.9	1.9	1.2	170.73	-5,118.5	835.8	5,192.7	5,189.7	3.02	1,719.639	
900.0	900.0	653.0	652.6	1.9	1.3	170.70	-5,120.3	838.1	5,193.6	5,190.5	3.15	1,651.341	
984.2	984.2	670.5	670.0	2.1	1.3	170.69	-5,121.1	839.2	5,198.0	5,194.7	3.38	1,539.231	
1,000.0	1,000.0	683.6	683.1	2.1	1.3	170.69	-5,121.7	840.0	5,199.0	5,195.5	3.44	1,509.403	
1,082.7	1,082.7	728.0	727.3	2.3	1.4	170.66	-5,123.9	842.8	5,203.9	5,200.2	3.74	1,392.149	
1,100.0	1,100.0	756.1	755.3	2.3	1.5	170.64	-5,125.4	844.7	5,205.0	5,201.1	3.85	1,352.777	
1,181.1	1,181.1	804.7	803.7	2.5	1.7	170.61	-5,128.0	848.4	5,210.4	5,206.2	4.15	1,254.886	
1,200.0	1,200.0	816.0	814.9	2.6	1.7	170.60	-5,128.7	849.3	5,211.7	5,207.5	4.22	1,234.137	
1,279.5	1,279.5	856.0	854.7	2.7	1.8	170.56	-5,131.1	852.7	5,217.6	5,213.1	4.50	1,158.920	
1,300.0	1,300.0	856.0	854.7	2.8	1.8	170.56	-5,131.1	852.7	5,219.3	5,214.7	4.55	1,147.556	
1,377.9	1,377.9	924.7	923.0	3.0	2.0	174.77	-5,135.5	859.5	5,226.6	5,221.7	4.91	1,065.457	
1,400.0	1,400.0	938.3	936.5	3.0	2.0	174.75	-5,136.4	860.9	5,229.2	5,224.2	4.99	1,047.485	
1,476.4	1,476.3	985.0	982.7	3.2	2.2	174.68	-5,139.7	866.3	5,239.6	5,234.3	5.29	990.394	
1,500.0	1,499.8	985.0	982.7	3.2	2.2	174.68	-5,139.7	866.3	5,243.3	5,238.0	5.34	981.297	
1,574.8	1,574.4	985.0	982.7	3.4	2.2	174.65	-5,139.7	866.3	5,257.1	5,251.6	5.51	953.937	
1,600.0	1,599.5	1,032.0	1,029.2	3.5	2.3	174.59	-5,143.4	872.1	5,261.9	5,256.2	5.71	922.272	
1,673.2	1,672.2	1,059.4	1,056.2	3.6	2.4	174.52	-5,145.8	875.8	5,278.4	5,272.4	5.95	887.521	
1,700.0	1,698.7	1,069.3	1,066.1	3.7	2.5	174.50	-5,146.7	877.2	5,285.0	5,278.9	6.03	875.806	
1,771.6	1,769.5	1,113.0	1,109.0	3.9	2.6	174.40	-5,151.1	883.5	5,304.4	5,298.0	6.32	839.674	
1,800.0	1,797.5	1,113.0	1,109.0	4.0	2.6	174.39	-5,151.1	883.5	5,312.6	5,306.2	6.38	832.988	
1,870.1	1,866.3	1,113.0	1,109.0	4.2	2.6	174.34	-5,151.1	883.5	5,334.6	5,328.0	6.53	817.014	
1,900.1	1,895.8	1,113.0	1,109.0	4.3	2.6	174.32	-5,151.1	883.5	5,344.7	5,338.1	6.59	810.634	
1,968.5	1,962.6	1,175.7	1,170.6	4.5	2.9	174.24	-5,158.1	893.4	5,368.0	5,361.0	6.95	771.859	
2,000.0	1,993.4	1,188.8	1,183.4	4.6	2.9	174.22	-5,159.6	895.5	5,378.9	5,371.9	7.07	760.749	
2,066.9	2,058.9	1,242.0	1,235.4	4.8	3.1	174.14	-5,166.3	904.5	5,402.7	5,395.2	7.40	729.751	
2,100.0	2,091.3	1,242.0	1,235.4	4.9	3.1	174.14	-5,166.3	904.5	5,414.4	5,406.9	7.48	723.816	
2,165.3	2,155.2	1,266.5	1,259.3	5.1	3.3	174.11	-5,169.5	908.9	5,437.9	5,430.2	7.72	704.276	
2,200.0	2,189.1	1,289.9	1,282.1	5.3	3.4	174.07	-5,172.6	913.3	5,450.5	5,442.6	7.89	691.006	
2,263.8	2,251.4	1,332.8	1,323.8	5.5	3.6	174.00	-5,178.2	921.6	5,473.8	5,465.6	8.19	668.294	
2,300.0	2,286.9	1,370.0	1,359.8	5.6	3.7	173.93	-5,183.1	929.4	5,487.2	5,478.8	8.41	652.683	
2,362.2	2,347.7	1,370.0	1,359.8	5.9	3.7	173.93	-5,183.1	929.4	5,510.3	5,501.7	8.56	643.545	
2,400.0	2,384.7	1,370.0	1,359.8	6.0	3.7	173.93	-5,183.1	929.4	5,524.6	5,516.0	8.66	638.162	
2,460.6	2,444.0	1,424.1	1,412.1	6.3	4.0	173.83	-5,190.5	941.3	5,547.5	5,538.5	9.02	614.987	
2,500.0	2,482.5	1,439.0	1,426.4	6.4	4.1	173.80	-5,192.6	944.8	5,562.6	5,553.4	9.18	606.073	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 106-MWD												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	
2,559.0	2,540.3	1,498.0	1,482.9	6.6	4.4	173.67	-5,201.4	959.2	5,585.9	5,576.3	9.56	584.381	
2,600.0	2,580.3	1,498.0	1,482.9	6.8	4.4	173.67	-5,201.4	959.2	5,601.8	5,592.1	9.66	579.737	
2,617.6	2,597.5	1,498.0	1,482.9	6.9	4.4	173.67	-5,201.4	959.2	5,608.7	5,599.0	9.71	577.771	
2,657.5	2,636.6	1,498.0	1,482.9	7.0	4.4	173.71	-5,201.4	959.2	5,624.3	5,614.5	9.81	573.131	
2,700.0	2,678.4	1,498.0	1,482.9	7.2	4.4	173.75	-5,201.4	959.2	5,640.7	5,630.8	9.92	568.353	
2,755.9	2,733.5	1,537.6	1,520.6	7.3	4.6	173.71	-5,207.7	969.5	5,661.4	5,651.2	10.24	553.129	
2,800.0	2,777.0	1,555.3	1,537.4	7.4	4.7	173.70	-5,210.5	974.3	5,677.3	5,666.8	10.42	544.974	
2,854.3	2,830.9	1,577.1	1,558.1	7.6	4.9	173.69	-5,214.2	980.2	5,696.2	5,685.5	10.64	535.453	
2,900.0	2,876.2	1,627.0	1,605.2	7.7	5.2	173.60	-5,222.7	994.5	5,711.7	5,700.8	10.97	520.773	
2,952.7	2,928.7	1,627.0	1,605.2	7.8	5.2	173.64	-5,222.7	994.5	5,728.7	5,717.6	11.08	517.219	
3,000.0	2,975.8	1,643.0	1,620.3	7.9	5.3	173.64	-5,225.5	999.1	5,743.5	5,732.2	11.25	510.427	
3,051.2	3,026.8	1,681.8	1,656.7	8.0	5.6	173.57	-5,232.3	1,010.5	5,758.7	5,747.2	11.55	498.672	
3,100.0	3,075.6	1,718.9	1,691.6	8.1	5.8	173.51	-5,238.9	1,021.4	5,772.6	5,760.8	11.83	488.026	
3,149.6	3,125.2	1,755.0	1,725.4	8.2	6.1	173.44	-5,245.3	1,032.1	5,786.0	5,773.9	12.10	478.180	
3,200.0	3,175.6	1,755.0	1,725.4	8.3	6.1	173.48	-5,245.3	1,032.1	5,799.0	5,786.8	12.19	475.904	
3,217.7	3,193.3	1,755.0	1,725.4	8.3	6.1	169.20	-5,245.3	1,032.1	5,803.4	5,791.2	12.21	475.390	
3,248.0	3,223.6	1,755.0	1,725.4	8.4	6.1	169.20	-5,245.3	1,032.1	5,811.1	5,798.8	12.27	473.734	
3,300.0	3,275.6	1,811.5	1,778.3	8.5	6.5	169.05	-5,255.8	1,049.0	5,823.9	5,811.2	12.67	459.486	
3,346.4	3,322.0	1,828.6	1,794.2	8.6	6.6	169.01	-5,259.1	1,054.3	5,835.8	5,822.9	12.87	453.572	
3,400.0	3,375.6	1,884.0	1,845.7	8.7	7.0	168.86	-5,270.2	1,071.6	5,850.1	5,836.8	13.28	440.525	
3,444.9	3,420.4	1,884.0	1,845.7	8.7	7.0	168.86	-5,270.2	1,071.6	5,861.9	5,848.5	13.38	438.244	
3,500.0	3,475.6	1,886.2	1,847.7	8.8	7.0	168.85	-5,270.6	1,072.3	5,876.8	5,863.3	13.51	435.141	
3,543.3	3,518.9	1,950.7	1,907.4	8.9	7.5	168.67	-5,283.8	1,093.1	5,888.6	5,874.7	13.95	422.168	
3,600.0	3,575.6	2,012.0	1,964.0	9.0	7.9	168.50	-5,295.9	1,113.1	5,903.9	5,889.5	14.40	409.981	
3,641.7	3,617.3	2,042.5	1,992.1	9.1	8.2	168.41	-5,301.9	1,123.1	5,915.2	5,900.5	14.66	403.401	
3,700.0	3,675.6	2,073.3	2,020.5	9.2	8.4	168.32	-5,308.1	1,133.4	5,931.2	5,916.2	14.96	396.375	
3,740.1	3,715.7	2,094.5	2,040.0	9.3	8.6	168.26	-5,312.4	1,140.6	5,942.4	5,927.2	15.17	391.718	
3,800.0	3,775.6	2,140.0	2,081.8	9.4	8.9	168.13	-5,321.7	1,156.0	5,959.3	5,943.7	15.56	383.098	
3,838.6	3,814.1	2,140.0	2,081.8	9.5	8.9	168.13	-5,321.7	1,156.0	5,970.2	5,954.6	15.64	381.760	
3,900.0	3,875.6	2,140.0	2,081.8	9.6	8.9	168.13	-5,321.7	1,156.0	5,988.2	5,972.4	15.77	379.688	
3,937.0	3,912.6	2,140.0	2,081.8	9.7	8.9	168.13	-5,321.7	1,156.0	5,999.3	5,983.5	15.85	378.470	
4,000.0	3,975.6	2,199.1	2,135.8	9.8	9.4	167.95	-5,334.5	1,176.2	6,017.9	6,001.6	16.33	368.411	
4,035.4	4,011.0	2,211.1	2,146.8	9.9	9.5	167.92	-5,337.2	1,180.3	6,028.7	6,012.2	16.48	365.777	
4,100.0	4,075.6	2,269.0	2,199.5	10.0	10.0	167.76	-5,350.8	1,200.0	6,049.0	6,032.1	16.96	356.660	
4,133.8	4,109.4	2,269.0	2,199.5	10.0	10.0	167.76	-5,350.8	1,200.0	6,059.5	6,042.5	17.03	355.738	
4,200.0	4,175.6	2,269.0	2,199.5	10.2	10.0	167.76	-5,350.8	1,200.0	6,080.5	6,063.4	17.18	353.986	
4,232.3	4,207.8	2,269.0	2,199.5	10.2	10.0	167.76	-5,350.8	1,200.0	6,091.0	6,073.8	17.25	353.153	
4,300.0	4,275.6	2,329.9	2,254.6	10.4	10.5	167.58	-5,365.6	1,221.3	6,113.1	6,095.3	17.77	344.075	
4,330.7	4,306.3	2,349.8	2,272.5	10.4	10.7	167.52	-5,370.4	1,228.6	6,123.2	6,105.2	17.95	341.043	
4,400.0	4,375.6	2,397.0	2,314.7	10.6	11.1	167.37	-5,381.7	1,246.4	6,146.2	6,127.8	18.39	334.199	
4,429.1	4,404.7	2,397.0	2,314.7	10.6	11.1	167.37	-5,381.7	1,246.4	6,155.9	6,137.5	18.45	333.578	
4,500.0	4,475.6	2,397.0	2,314.7	10.8	11.1	167.37	-5,381.7	1,246.4	6,180.2	6,161.6	18.61	332.110	
4,527.5	4,503.1	2,441.1	2,353.9	10.8	11.5	167.23	-5,392.3	1,263.5	6,189.4	6,170.5	18.97	326.329	
4,600.0	4,575.6	2,466.8	2,376.7	11.0	11.7	167.15	-5,398.7	1,273.6	6,214.7	6,195.4	19.30	322.035	
4,626.0	4,601.5	2,476.0	2,384.8	11.0	11.8	167.12	-5,401.0	1,277.2	6,223.8	6,204.4	19.42	320.543	
4,700.0	4,675.6	2,526.0	2,428.8	11.2	12.3	166.96	-5,413.8	1,297.2	6,250.4	6,230.5	19.91	313.884	
4,724.4	4,700.0	2,526.0	2,428.8	11.2	12.3	166.96	-5,413.8	1,297.2	6,259.1	6,239.2	19.97	313.483	
4,800.0	4,775.6	2,526.0	2,428.8	11.4	12.3	166.96	-5,413.8	1,297.2	6,286.8	6,266.6	20.13	312.279	
4,822.8	4,798.4	2,526.0	2,428.8	11.4	12.3	166.96	-5,413.8	1,297.2	6,295.3	6,275.1	20.18	311.927	
4,900.0	4,875.6	2,526.0	2,428.8	11.6	12.3	166.96	-5,413.8	1,297.2	6,324.6	6,304.2	20.35	310.773	
4,921.2	4,896.8	2,570.4	2,467.6	11.6	12.8	166.81	-5,425.7	1,315.3	6,332.3	6,311.6	20.71	305.693	
5,000.0	4,975.6	2,593.0	2,487.3	11.8	13.0	166.73	-5,431.9	1,324.6	6,362.6	6,341.6	21.05	302.289	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 106-MWD													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		
5,019.7	4,995.2	2,598.7	2,492.2	11.8	13.1	166.72	-5,433.5	1,326.9	6,370.3	6,349.1	21.13	301.463		
5,100.0	5,075.6	2,654.0	2,539.8	12.0	13.7	166.53	-5,449.3	1,350.2	6,402.2	6,380.5	21.70	295.053		
5,118.1	5,093.7	2,654.0	2,539.8	12.0	13.7	166.53	-5,449.3	1,350.2	6,409.4	6,387.6	21.74	294.842		
5,200.0	5,175.6	2,654.0	2,539.8	12.2	13.7	166.53	-5,449.3	1,350.2	6,442.2	6,420.3	21.92	293.921		
5,216.5	5,192.1	2,654.0	2,539.8	12.2	13.7	166.53	-5,449.3	1,350.2	6,449.0	6,427.0	21.95	293.742		
5,300.0	5,275.6	2,692.1	2,572.3	12.4	14.1	166.40	-5,460.5	1,366.6	6,483.4	6,460.9	22.43	289.107		
5,314.9	5,290.5	2,698.8	2,578.0	12.4	14.2	166.38	-5,462.4	1,369.6	6,489.6	6,467.1	22.51	288.315		
5,400.0	5,375.6	2,736.6	2,610.1	12.6	14.6	166.25	-5,473.6	1,386.3	6,525.2	6,502.2	22.98	283.966		
5,413.4	5,388.9	2,742.5	2,615.1	12.6	14.7	166.22	-5,475.3	1,388.9	6,530.8	6,507.8	23.05	283.306		
5,500.0	5,475.6	2,782.0	2,648.2	12.8	15.1	166.08	-5,487.0	1,406.9	6,567.7	6,544.2	23.54	279.048		
5,511.8	5,487.4	2,782.0	2,648.2	12.8	15.1	166.08	-5,487.0	1,406.9	6,572.7	6,549.2	23.56	278.954		
5,600.0	5,575.6	2,846.6	2,702.2	13.0	15.9	165.85	-5,506.0	1,437.0	6,610.7	6,586.5	24.27	272.417		
5,610.2	5,585.8	2,853.4	2,707.8	13.0	15.9	165.82	-5,507.9	1,440.2	6,615.2	6,590.8	24.34	271.750		
5,700.0	5,675.6	2,913.6	2,757.6	13.2	16.7	165.59	-5,525.4	1,469.1	6,654.2	6,629.2	25.01	266.047		
5,708.6	5,684.2	2,922.8	2,765.2	13.2	16.8	165.56	-5,528.0	1,473.5	6,658.0	6,632.9	25.10	265.218		
5,800.0	5,775.6	3,019.6	2,845.0	13.4	17.9	165.19	-5,555.6	1,520.9	6,697.8	6,671.7	26.07	256.894		
5,807.1	5,782.6	3,027.1	2,851.2	13.4	18.0	165.16	-5,557.7	1,524.6	6,700.8	6,674.7	26.15	256.280		
5,900.0	5,875.6	3,074.3	2,890.0	13.6	18.6	164.98	-5,571.0	1,548.0	6,741.5	6,714.8	26.73	252.165		
5,905.5	5,881.1	3,076.7	2,891.9	13.6	18.6	164.97	-5,571.7	1,549.2	6,743.9	6,717.2	26.77	251.958		
6,000.0	5,975.6	4,276.2	3,935.0	13.8	30.4	161.16	-5,846.2	2,067.1	6,776.1	6,741.3	34.83	194.536		
6,003.9	5,979.5	4,277.6	3,936.2	13.8	30.4	161.16	-5,846.4	2,067.7	6,777.3	6,742.5	34.85	194.469		
6,100.0	6,075.6	4,323.0	3,976.1	14.0	30.8	161.00	-5,852.7	2,088.5	6,806.5	6,771.1	35.37	192.457		
6,102.3	6,077.9	4,323.0	3,976.1	14.0	30.8	161.00	-5,852.7	2,088.5	6,807.2	6,771.9	35.37	192.449		
6,200.0	6,175.6	4,323.0	3,976.1	14.2	30.8	161.00	-5,852.7	2,088.5	6,837.8	6,802.2	35.59	192.142		
6,200.8	6,176.3	4,323.0	3,976.1	14.2	30.8	161.00	-5,852.7	2,088.5	6,838.0	6,802.5	35.59	192.140		
6,299.2	6,274.8	4,374.9	4,021.1	14.4	31.3	160.82	-5,860.2	2,113.2	6,869.6	6,833.4	36.21	189.714		
6,300.0	6,275.6	4,375.1	4,021.3	14.4	31.3	160.82	-5,860.2	2,113.4	6,869.9	6,833.6	36.21	189.702		
6,397.6	6,373.2	4,405.3	4,047.4	14.7	31.7	160.71	-5,864.8	2,127.9	6,902.1	6,865.5	36.66	188.255		
6,400.0	6,375.6	4,406.1	4,048.0	14.7	31.7	160.71	-5,864.9	2,128.2	6,902.9	6,866.2	36.67	188.221		
6,436.2	6,411.8	4,452.0	4,087.5	14.7	32.2	160.54	-5,872.3	2,150.6	6,915.4	6,878.3	37.11	186.352		
6,450.0	6,425.6	4,452.0	4,087.5	14.8	32.2	-19.54	-5,872.3	2,150.6	6,919.9	6,882.6	37.27	185.682		
6,496.0	6,471.5	4,452.0	4,087.5	14.8	32.2	-19.16	-5,872.3	2,150.6	6,933.3	6,895.9	37.45	185.153		
6,500.0	6,475.5	4,452.0	4,087.5	14.8	32.2	-19.14	-5,872.3	2,150.6	6,934.4	6,896.9	37.45	185.145		
6,550.0	6,525.1	4,464.0	4,097.7	14.9	32.3	-18.87	-5,874.3	2,156.5	6,946.1	6,908.5	37.53	185.094		
6,594.5	6,568.7	4,611.5	4,224.5	14.9	33.9	-19.24	-5,897.1	2,228.3	6,953.3	6,914.9	38.45	180.836		
6,600.0	6,574.1	4,616.6	4,228.9	14.9	33.9	-19.25	-5,897.8	2,230.8	6,954.0	6,915.6	38.45	180.841		
6,650.0	6,622.4	4,662.4	4,268.3	14.9	34.4	-19.31	-5,904.5	2,253.2	6,958.7	6,920.4	38.36	181.409		
6,692.9	6,663.0	4,701.3	4,301.6	14.9	34.8	-19.43	-5,910.1	2,272.4	6,960.2	6,922.1	38.11	182.647		
6,700.0	6,669.6	4,707.6	4,307.1	14.9	34.9	-19.46	-5,911.0	2,275.5	6,960.2	6,922.2	38.05	182.919		
6,750.0	6,715.6	4,708.0	4,307.4	14.9	34.9	-19.50	-5,911.1	2,275.7	6,958.7	6,921.4	37.23	186.909		
6,791.3	6,752.5	4,750.6	4,344.0	14.9	35.3	-19.79	-5,917.4	2,296.6	6,954.9	6,918.2	36.70	189.507		
6,800.0	6,760.1	4,754.6	4,347.4	14.9	35.4	-19.84	-5,918.0	2,298.6	6,953.9	6,917.3	36.54	190.306		
6,850.0	6,802.9	4,777.5	4,367.2	14.9	35.6	-20.16	-5,921.5	2,309.7	6,946.1	6,910.6	35.52	195.529		
6,889.7	6,835.6	4,795.4	4,382.6	14.9	35.8	-20.49	-5,924.4	2,318.3	6,937.8	6,903.2	34.61	200.457		
6,900.0	6,843.8	4,800.0	4,386.5	14.9	35.9	-20.58	-5,925.1	2,320.5	6,935.4	6,901.0	34.36	201.843		
6,950.0	6,882.6	4,837.0	4,418.5	14.9	36.3	-21.18	-5,931.3	2,338.2	6,921.7	6,888.5	33.16	208.751		
6,988.2	6,910.7	5,038.9	4,592.3	15.0	38.4	-22.71	-5,960.3	2,436.5	6,908.7	6,875.6	33.10	208.693		
7,000.0	6,919.1	5,055.0	4,606.2	15.0	38.5	-22.95	-5,962.4	2,444.4	6,904.2	6,871.4	32.82	210.373		
7,050.0	6,953.1	5,108.0	4,652.0	15.0	39.1	-23.99	-5,969.1	2,470.4	6,883.6	6,852.1	31.51	218.487		
7,086.6	6,976.4	5,131.9	4,672.6	15.1	39.3	-24.77	-5,972.2	2,481.9	6,866.8	6,836.3	30.48	225.309		
7,100.0	6,984.5	5,140.4	4,680.0	15.1	39.4	-25.08	-5,973.3	2,486.1	6,860.3	6,830.2	30.11	227.857		
7,150.0	7,013.1	5,171.0	4,706.5	15.3	39.7	-26.35	-5,977.3	2,500.7	6,834.3	6,805.5	28.82	237.160		

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 106-MWD													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		
7,185.0	7,031.4	5,191.2	4,724.0	15.4	39.9	-27.36	-5,980.0	2,510.4	6,814.7	6,786.6	28.04	243.045		
7,200.0	7,038.8	5,199.5	4,731.3	15.4	40.0	-27.82	-5,981.1	2,514.3	6,805.9	6,778.2	27.75	245.288		
7,250.0	7,061.4	5,222.0	4,750.9	15.6	40.2	-29.50	-5,984.2	2,525.0	6,775.1	6,748.1	27.01	250.834		
7,283.4	7,074.8	5,222.0	4,750.9	15.8	40.2	-30.66	-5,984.2	2,525.0	6,753.3	6,726.6	26.71	252.806		
7,300.0	7,080.9	5,222.0	4,750.9	15.9	40.2	-31.28	-5,984.2	2,525.0	6,742.1	6,715.5	26.66	252.940		
7,350.0	7,097.1	5,250.8	4,776.0	16.2	40.5	-33.66	-5,988.1	2,538.6	6,707.1	6,680.0	27.09	247.631		
7,381.9	7,105.7	5,257.9	4,782.2	16.4	40.6	-35.29	-5,989.1	2,541.9	6,683.8	6,656.1	27.66	241.655		
7,400.0	7,109.9	5,261.7	4,785.4	16.6	40.6	-36.29	-5,989.6	2,543.7	6,670.2	6,642.1	28.10	237.335		
7,450.0	7,119.4	5,270.9	4,793.4	17.0	40.7	-39.38	-5,990.9	2,548.0	6,631.6	6,601.8	29.79	222.585		
7,480.3	7,123.4	5,275.6	4,797.6	17.2	40.8	-41.51	-5,991.6	2,550.3	6,607.5	6,576.4	31.11	212.381		
7,500.0	7,125.4	5,278.3	4,799.9	17.4	40.8	-43.02	-5,992.0	2,551.6	6,591.5	6,559.4	32.06	205.577		
7,550.0	7,127.9	5,284.0	4,804.9	17.9	40.9	-47.32	-5,992.8	2,554.2	6,550.0	6,515.2	34.76	188.426		
7,562.9	7,128.0	5,285.2	4,805.9	18.0	40.9	-48.55	-5,993.0	2,554.8	6,539.1	6,503.6	35.50	184.193		
7,578.7	7,128.0	5,286.5	4,807.0	18.2	40.9	-48.57	-5,993.1	2,555.4	6,525.7	6,490.1	35.64	183.088		
7,600.0	7,127.9	5,288.4	4,808.6	18.4	40.9	-48.60	-5,993.4	2,556.3	6,507.7	6,471.9	35.83	181.619		
7,677.1	7,127.7	5,295.0	4,814.4	19.2	41.0	-48.70	-5,994.4	2,559.4	6,442.5	6,405.9	36.57	176.147		
7,700.0	7,127.7	5,297.0	4,816.2	19.5	41.0	-48.73	-5,994.6	2,560.4	6,423.3	6,386.5	36.80	174.568		
7,775.6	7,127.5	5,303.6	4,821.9	20.3	41.1	-48.84	-5,995.6	2,563.5	6,359.7	6,322.2	37.50	169.587		
7,800.0	7,127.5	5,305.8	4,823.8	20.5	41.1	-48.87	-5,995.9	2,564.5	6,339.3	6,301.5	37.73	168.017		
7,874.0	7,127.3	5,312.3	4,829.5	21.4	41.2	-48.98	-5,996.9	2,567.6	6,277.4	6,238.9	38.48	163.119		
7,900.0	7,127.2	5,314.6	4,831.5	21.7	41.2	-49.02	-5,997.2	2,568.7	6,255.7	6,217.0	38.75	161.443		
7,972.4	7,127.1	5,321.1	4,837.1	22.7	41.2	-49.12	-5,998.1	2,571.8	6,195.5	6,155.9	39.62	156.386		
8,000.0	7,127.0	5,323.6	4,839.3	23.1	41.3	-49.16	-5,998.5	2,572.9	6,172.7	6,132.7	39.95	154.517		
8,070.8	7,126.8	5,350.0	4,862.2	24.2	41.5	-49.58	-6,002.4	2,585.4	6,114.1	6,073.1	41.05	148.944		
8,100.0	7,126.8	5,350.0	4,862.2	24.6	41.5	-49.58	-6,002.4	2,585.4	6,090.1	6,048.7	41.39	147.136		
8,169.3	7,126.6	5,350.0	4,862.2	25.6	41.5	-49.58	-6,002.4	2,585.4	6,033.2	5,990.9	42.23	142.851		
8,200.0	7,126.6	5,350.0	4,862.2	26.1	41.5	-49.58	-6,002.4	2,585.4	6,008.0	5,965.4	42.61	141.007		
8,267.7	7,126.4	5,350.0	4,862.2	27.2	41.5	-49.58	-6,002.4	2,585.4	5,952.7	5,909.3	43.46	136.976		
8,300.0	7,126.3	5,352.3	4,864.2	27.7	41.6	-49.62	-6,002.7	2,586.5	5,926.4	5,882.6	43.89	135.032		
8,366.1	7,126.2	5,363.2	4,873.7	28.8	41.7	-49.80	-6,004.4	2,591.7	5,872.8	5,828.0	44.87	130.897		
8,400.0	7,126.1	5,368.9	4,878.6	29.3	41.7	-49.89	-6,005.2	2,594.3	5,845.4	5,800.1	45.37	128.847		
8,464.5	7,126.0	5,379.5	4,887.9	30.4	41.8	-50.06	-6,006.8	2,599.3	5,793.4	5,747.1	46.34	125.012		
8,500.0	7,125.9	5,385.3	4,892.9	31.0	41.9	-50.15	-6,007.6	2,602.1	5,765.0	5,718.1	46.88	122.973		
8,563.0	7,125.7	5,395.6	4,901.9	32.0	42.0	-50.32	-6,009.2	2,607.0	5,714.6	5,666.8	47.85	119.424		
8,600.0	7,125.6	5,401.7	4,907.1	32.6	42.1	-50.42	-6,010.1	2,609.8	5,685.1	5,636.7	48.42	117.404		
8,661.4	7,125.5	5,411.7	4,915.8	33.7	42.2	-50.58	-6,011.5	2,614.6	5,636.4	5,587.0	49.39	114.126		
8,700.0	7,125.4	5,417.9	4,921.2	34.4	42.2	-50.68	-6,012.4	2,617.5	5,605.8	5,555.8	49.99	112.130		
8,759.8	7,125.3	5,427.6	4,929.6	35.4	42.3	-50.84	-6,013.9	2,622.1	5,558.7	5,507.8	50.95	109.107		
8,800.0	7,125.2	5,434.0	4,935.2	36.1	42.4	-50.94	-6,014.8	2,625.1	5,527.2	5,475.6	51.59	107.139		
8,858.2	7,125.1	5,443.4	4,943.3	37.1	42.5	-51.09	-6,016.2	2,629.6	5,481.7	5,429.2	52.53	104.354		
8,900.0	7,125.0	5,450.1	4,949.1	37.8	42.6	-51.20	-6,017.1	2,632.7	5,449.2	5,396.0	53.21	102.418		
8,956.7	7,124.8	5,459.1	4,957.0	38.8	42.7	-51.35	-6,018.5	2,637.0	5,405.3	5,351.2	54.13	99.854		
9,000.0	7,124.7	5,465.9	4,962.9	39.6	42.7	-51.46	-6,019.5	2,640.3	5,371.9	5,317.1	54.84	97.953		
9,055.1	7,124.6	5,474.7	4,970.5	40.6	42.8	-51.60	-6,020.7	2,644.4	5,329.6	5,273.9	55.75	95.594		
9,100.0	7,124.5	5,479.0	4,974.3	41.4	42.9	-51.67	-6,021.3	2,646.4	5,295.3	5,238.9	56.46	93.787		
9,153.5	7,124.4	5,479.0	4,974.3	42.3	42.9	-51.67	-6,021.3	2,646.4	5,254.7	5,197.4	57.24	91.794		
9,200.0	7,124.3	5,479.0	4,974.3	43.2	42.9	-51.67	-6,021.3	2,646.4	5,219.5	5,161.6	57.92	90.110		
9,251.9	7,124.2	5,479.0	4,974.3	44.1	42.9	-51.67	-6,021.3	2,646.4	5,180.5	5,121.8	58.69	88.271		
9,300.0	7,124.1	5,479.0	4,974.3	45.0	42.9	-51.67	-6,021.3	2,646.4	5,144.6	5,085.2	59.40	86.615		
9,350.4	7,123.9	5,479.0	4,974.3	45.9	42.9	-51.67	-6,021.3	2,646.4	5,107.1	5,047.0	60.14	84.919		
9,400.0	7,123.8	5,479.0	4,974.3	46.8	42.9	-51.67	-6,021.3	2,646.4	5,070.5	5,009.6	60.88	83.292		
9,448.8	7,123.7	5,479.0	4,974.3	47.7	42.9	-51.67	-6,021.3	2,646.4	5,034.6	4,973.0	61.60	81.729		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 106-MWD												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	
9,500.0	7,123.6	5,479.0	4,974.3	48.6	42.9	-51.67	-6,021.3	2,646.4	4,997.2	4,934.9	62.36	80.132	
9,547.2	7,123.5	5,479.0	4,974.3	49.4	42.9	-51.67	-6,021.3	2,646.4	4,963.0	4,899.9	63.07	78.693	
9,600.0	7,123.4	5,479.0	4,974.3	50.4	42.9	-51.67	-6,021.3	2,646.4	4,925.0	4,861.1	63.86	77.126	
9,645.6	7,123.3	5,479.0	4,974.3	51.2	42.9	-51.67	-6,021.3	2,646.4	4,892.3	4,827.8	64.54	75.802	
9,700.0	7,123.2	5,479.0	4,974.3	52.2	42.9	-51.67	-6,021.3	2,646.4	4,853.7	4,788.3	65.36	74.266	
9,744.1	7,123.1	5,479.0	4,974.3	53.1	42.9	-51.67	-6,021.3	2,646.4	4,822.6	4,756.6	66.02	73.049	
9,800.0	7,122.9	5,519.8	5,009.6	54.1	43.3	-52.34	-6,027.4	2,665.9	4,783.0	4,715.5	67.47	70.886	
9,842.5	7,122.8	5,522.4	5,011.9	54.9	43.3	-52.38	-6,027.8	2,667.2	4,753.4	4,685.3	68.16	69.739	
9,900.0	7,122.7	5,525.9	5,014.9	55.9	43.4	-52.44	-6,028.4	2,668.9	4,713.7	4,644.6	69.09	68.228	
9,940.9	7,122.6	5,528.5	5,017.1	56.7	43.4	-52.48	-6,028.8	2,670.1	4,685.6	4,615.9	69.75	67.177	
10,000.0	7,122.5	5,532.1	5,020.2	57.8	43.5	-52.54	-6,029.3	2,671.9	4,645.5	4,574.8	70.71	65.698	
10,039.3	7,122.4	5,534.6	5,022.4	58.5	43.5	-52.58	-6,029.7	2,673.1	4,618.9	4,547.6	71.35	64.735	
10,100.0	7,122.3	5,538.4	5,025.7	59.6	43.5	-52.64	-6,030.3	2,674.9	4,578.4	4,506.1	72.34	63.289	
10,137.8	7,122.2	5,540.8	5,027.7	60.3	43.5	-52.68	-6,030.7	2,676.1	4,553.4	4,480.4	72.96	62.410	
10,200.0	7,122.0	5,544.9	5,031.2	61.5	43.6	-52.75	-6,031.3	2,678.0	4,512.5	4,438.5	73.98	60.997	
10,236.2	7,121.9	5,547.2	5,033.2	62.2	43.6	-52.79	-6,031.7	2,679.2	4,489.0	4,414.4	74.58	60.194	
10,300.0	7,121.8	5,551.4	5,036.8	63.3	43.7	-52.85	-6,032.4	2,681.2	4,447.9	4,372.3	75.63	58.813	
10,334.6	7,121.7	5,553.7	5,038.8	64.0	43.7	-52.89	-6,032.8	2,682.3	4,425.8	4,349.6	76.20	58.081	
10,400.0	7,121.6	5,558.0	5,042.5	65.2	43.7	-52.96	-6,033.5	2,684.4	4,384.6	4,307.3	77.28	56.734	
10,433.0	7,121.5	5,560.3	5,044.4	65.8	43.8	-53.00	-6,033.8	2,685.5	4,363.9	4,286.1	77.83	56.068	
10,500.0	7,121.4	5,564.8	5,048.3	67.1	43.8	-53.08	-6,034.6	2,687.8	4,322.6	4,243.7	78.95	54.753	
10,531.5	7,121.3	5,567.0	5,050.2	67.7	43.8	-53.11	-6,034.9	2,688.8	4,303.4	4,223.9	79.47	54.149	
10,600.0	7,121.1	5,992.0	5,423.4	69.0	48.0	-60.18	-6,093.7	2,882.8	4,262.3	4,175.1	87.22	48.868	
10,629.9	7,121.1	5,992.0	5,423.4	69.5	48.0	-60.18	-6,093.7	2,882.8	4,244.1	4,156.4	87.72	48.383	
10,700.0	7,120.9	5,992.0	5,423.4	70.8	48.0	-60.18	-6,093.7	2,882.8	4,201.9	4,113.1	88.88	47.274	
10,728.3	7,120.8	5,992.0	5,423.4	71.4	48.0	-60.18	-6,093.7	2,882.8	4,185.1	4,095.8	89.36	46.836	
10,800.0	7,120.7	6,016.1	5,445.1	72.7	48.2	-60.59	-6,096.3	2,892.9	4,143.0	4,052.1	90.91	45.575	
10,826.7	7,120.6	6,018.0	5,446.8	73.2	48.2	-60.62	-6,096.5	2,893.7	4,127.5	4,036.1	91.38	45.168	
10,900.0	7,120.5	6,023.1	5,451.4	74.6	48.3	-60.70	-6,097.0	2,895.9	4,085.7	3,993.0	92.68	44.082	
10,925.2	7,120.4	6,024.9	5,453.0	75.1	48.3	-60.73	-6,097.2	2,896.6	4,071.5	3,978.4	93.13	43.718	
11,000.0	7,120.2	6,030.2	5,457.7	76.5	48.4	-60.82	-6,097.8	2,898.9	4,030.0	3,935.5	94.47	42.661	
11,023.6	7,120.2	6,031.8	5,459.2	76.9	48.4	-60.85	-6,098.0	2,899.6	4,017.1	3,922.2	94.89	42.335	
11,100.0	7,120.0	6,037.2	5,464.1	78.3	48.4	-60.94	-6,098.6	2,901.9	3,976.0	3,879.8	96.25	41.308	
11,122.0	7,120.0	6,038.8	5,465.5	78.8	48.4	-60.97	-6,098.7	2,902.5	3,964.4	3,867.7	96.65	41.019	
11,200.0	7,119.8	6,044.3	5,470.4	80.2	48.5	-61.06	-6,099.3	2,904.9	3,923.9	3,825.8	98.05	40.021	
11,220.4	7,119.7	6,045.7	5,471.8	80.6	48.5	-61.09	-6,099.5	2,905.5	3,913.4	3,815.0	98.41	39.765	
11,300.0	7,119.5	6,051.4	5,476.8	82.1	48.5	-61.18	-6,100.1	2,907.9	3,873.6	3,773.7	99.84	38.796	
11,318.9	7,119.5	6,052.7	5,478.0	82.5	48.6	-61.20	-6,100.3	2,908.4	3,864.3	3,764.1	100.18	38.572	
11,400.0	7,119.3	6,058.5	5,483.2	84.0	48.6	-61.30	-6,100.9	2,910.9	3,825.2	3,723.5	101.64	37.633	
11,417.3	7,119.3	6,059.7	5,484.3	84.3	48.6	-61.32	-6,101.0	2,911.4	3,817.0	3,715.1	101.96	37.437	
11,500.0	7,119.1	6,065.6	5,489.6	85.9	48.7	-61.42	-6,101.7	2,914.0	3,778.8	3,675.4	103.45	36.528	
11,515.7	7,119.1	6,066.8	5,490.6	86.2	48.7	-61.44	-6,101.8	2,914.4	3,771.7	3,668.0	103.74	36.359	
11,600.0	7,118.9	6,072.8	5,496.0	87.8	48.7	-61.54	-6,102.5	2,917.0	3,734.5	3,629.3	105.26	35.479	
11,614.1	7,118.8	6,073.8	5,496.9	88.0	48.7	-61.56	-6,102.6	2,917.4	3,728.4	3,622.9	105.52	35.335	
11,700.0	7,118.6	6,079.9	5,502.5	89.7	48.8	-61.66	-6,103.2	2,920.1	3,692.4	3,585.3	107.08	34.484	
11,712.6	7,118.6	6,080.8	5,503.3	89.9	48.8	-61.68	-6,103.3	2,920.5	3,687.2	3,579.9	107.30	34.362	
11,800.0	7,118.4	6,087.1	5,508.9	91.6	48.9	-61.79	-6,104.0	2,923.2	3,652.5	3,543.6	108.90	33.541	
11,811.0	7,118.4	6,087.9	5,509.6	91.8	48.9	-61.80	-6,104.1	2,923.5	3,648.2	3,539.1	109.10	33.441	
11,900.0	7,118.2	6,094.3	5,515.3	93.4	48.9	-61.91	-6,104.8	2,926.3	3,614.9	3,504.2	110.72	32.649	
11,909.4	7,118.2	6,095.0	5,516.0	93.6	48.9	-61.92	-6,104.9	2,926.6	3,611.5	3,500.6	110.89	32.568	
12,000.0	7,118.0	6,121.0	5,539.2	95.3	49.2	-62.36	-6,107.8	2,937.8	3,579.8	3,466.9	112.87	31.715	
12,007.8	7,118.0	6,121.0	5,539.2	95.5	49.2	-62.36	-6,107.8	2,937.8	3,577.1	3,464.1	113.01	31.654	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 106-MWD												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
12,100.0	7,117.8	6,121.0	5,539.2	97.2	49.2	-62.36	-6,107.8	2,937.8	3,546.9	3,432.4	114.58	30.955	
12,106.3	7,117.7	6,121.0	5,539.2	97.4	49.2	-62.36	-6,107.8	2,937.8	3,545.0	3,430.3	114.69	30.909	
12,200.0	7,117.5	6,121.0	5,539.2	99.1	49.2	-62.36	-6,107.8	2,937.8	3,516.7	3,400.4	116.30	30.239	
12,204.7	7,117.5	6,121.0	5,539.2	99.2	49.2	-62.36	-6,107.8	2,937.8	3,515.3	3,398.9	116.38	30.206	
12,300.0	7,117.3	6,121.0	5,539.2	101.0	49.2	-62.36	-6,107.8	2,937.8	3,489.0	3,371.0	118.01	29.565	
12,303.1	7,117.3	6,121.0	5,539.2	101.1	49.2	-62.36	-6,107.8	2,937.8	3,488.2	3,370.1	118.07	29.545	
12,400.0	7,117.1	6,121.0	5,539.2	102.9	49.2	-62.36	-6,107.8	2,937.8	3,464.0	3,344.3	119.73	28.933	
12,401.5	7,117.1	6,121.0	5,539.2	103.0	49.2	-62.36	-6,107.8	2,937.8	3,463.6	3,343.9	119.75	28.923	
12,500.0	7,116.9	6,141.1	5,557.2	104.8	49.4	-62.70	-6,110.0	2,946.5	3,441.7	3,319.9	121.80	28.256	
12,598.4	7,116.6	6,149.7	5,564.8	106.7	49.4	-62.84	-6,110.9	2,950.2	3,422.4	3,298.7	123.65	27.678	
12,600.0	7,116.6	6,149.8	5,564.9	106.7	49.4	-62.85	-6,111.0	2,950.3	3,422.1	3,298.4	123.68	27.669	
12,696.8	7,116.4	6,158.2	5,572.5	108.6	49.5	-62.99	-6,111.9	2,954.0	3,405.8	3,280.3	125.50	27.138	
12,700.0	7,116.4	6,158.5	5,572.7	108.6	49.5	-62.99	-6,111.9	2,954.1	3,405.3	3,279.7	125.56	27.121	
12,795.2	7,116.2	6,166.8	5,580.2	110.4	49.6	-63.13	-6,112.9	2,957.7	3,392.0	3,264.6	127.36	26.634	
12,800.0	7,116.2	6,167.3	5,580.5	110.5	49.6	-63.14	-6,112.9	2,957.9	3,391.4	3,263.9	127.45	26.610	
12,893.7	7,116.0	6,175.5	5,587.9	112.3	49.7	-63.28	-6,113.8	2,961.5	3,380.9	3,251.7	129.22	26.165	
12,900.0	7,116.0	6,176.0	5,588.4	112.4	49.7	-63.29	-6,113.9	2,961.8	3,380.3	3,251.0	129.34	26.136	
12,992.1	7,115.7	6,184.1	5,595.6	114.2	49.8	-63.43	-6,114.8	2,965.3	3,372.7	3,241.6	131.08	25.730	
13,000.0	7,115.7	6,184.8	5,596.2	114.3	49.8	-63.44	-6,114.9	2,965.6	3,372.1	3,240.9	131.23	25.697	
13,090.5	7,115.5	6,192.8	5,603.3	116.1	49.9	-63.57	-6,115.7	2,969.1	3,367.3	3,234.3	132.95	25.328	
13,100.0	7,115.5	6,193.6	5,604.1	116.2	49.9	-63.59	-6,115.8	2,969.5	3,366.9	3,233.8	133.13	25.291	
13,188.9	7,115.3	6,201.5	5,611.1	117.9	49.9	-63.72	-6,116.7	2,972.9	3,364.7	3,229.9	134.82	24.957	
13,200.0	7,115.3	6,202.4	5,611.9	118.1	50.0	-63.74	-6,116.8	2,973.3	3,364.6	3,229.6	135.03	24.918	
13,228.3	7,115.2	6,204.9	5,614.2	118.7	50.0	-63.78	-6,117.1	2,974.4	3,364.5	3,228.9	135.57	24.818 CC	
13,287.4	7,115.1	6,210.2	5,618.8	119.8	50.0	-63.87	-6,117.7	2,976.7	3,365.0	3,228.3	136.69	24.617 ES	
13,300.0	7,115.1	6,211.3	5,619.8	120.0	50.0	-63.89	-6,117.8	2,977.2	3,365.2	3,228.3	136.93	24.576	
13,385.8	7,114.9	6,218.9	5,626.6	121.7	50.1	-64.01	-6,118.7	2,980.6	3,368.1	3,229.5	138.57	24.306	
13,400.0	7,114.8	6,220.2	5,627.7	121.9	50.1	-64.04	-6,118.8	2,981.1	3,368.8	3,230.0	138.84	24.264	
13,484.2	7,114.6	6,227.7	5,634.4	123.6	50.2	-64.16	-6,119.6	2,984.4	3,374.1	3,233.6	140.45	24.023	
13,500.0	7,114.6	6,229.1	5,635.7	123.9	50.2	-64.19	-6,119.8	2,985.0	3,375.3	3,234.6	140.75	23.980	
13,582.6	7,114.4	6,236.4	5,642.2	125.4	50.3	-64.31	-6,120.6	2,988.3	3,382.9	3,240.6	142.34	23.767	
13,600.0	7,114.4	6,249.0	5,653.4	125.8	50.4	-64.52	-6,122.0	2,993.8	3,384.8	3,241.9	142.88	23.689	
13,681.1	7,114.2	6,249.0	5,653.4	127.3	50.4	-64.52	-6,122.0	2,993.8	3,394.5	3,250.2	144.30	23.524	
13,700.0	7,114.2	6,249.0	5,653.4	127.7	50.4	-64.52	-6,122.0	2,993.8	3,397.1	3,252.4	144.63	23.488	
13,779.5	7,114.0	6,255.0	5,658.8	129.2	50.5	-64.63	-6,122.7	2,996.5	3,408.9	3,262.8	146.14	23.326	
13,800.0	7,113.9	6,257.2	5,660.7	129.6	50.5	-64.66	-6,123.0	2,997.4	3,412.2	3,265.7	146.54	23.285	
13,877.9	7,113.8	6,265.3	5,668.0	131.1	50.5	-64.80	-6,123.9	3,001.0	3,426.0	3,278.0	148.06	23.139	
13,900.0	7,113.7	6,267.6	5,670.0	131.5	50.6	-64.84	-6,124.1	3,002.0	3,430.2	3,281.7	148.49	23.100	
13,976.3	7,113.5	6,275.2	5,676.8	132.9	50.6	-64.97	-6,124.9	3,005.4	3,445.8	3,295.9	149.98	22.975	
14,000.0	7,113.5	6,277.6	5,678.9	133.4	50.7	-65.01	-6,125.2	3,006.4	3,451.0	3,300.5	150.44	22.939	
14,074.8	7,113.3	6,284.8	5,685.3	134.8	50.7	-65.13	-6,125.9	3,009.6	3,468.3	3,316.4	151.90	22.833	
14,100.0	7,113.3	6,287.2	5,687.4	135.3	50.8	-65.17	-6,126.2	3,010.7	3,474.5	3,322.1	152.39	22.800	
14,173.2	7,113.1	6,294.0	5,693.5	136.7	50.8	-65.29	-6,126.9	3,013.7	3,493.4	3,339.6	153.81	22.713	
14,200.0	7,113.0	6,296.5	5,695.7	137.2	50.8	-65.33	-6,127.2	3,014.7	3,500.6	3,346.3	154.33	22.683	
14,219.1	7,113.0	6,298.2	5,697.2	137.6	50.9	-65.36	-6,127.3	3,015.5	3,505.9	3,351.3	154.70	22.663 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												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	170.62	-5,114.8	845.0	5,184.2				
98.4	98.4	127.0	127.0	0.1	0.1	170.62	-5,114.3	845.1	5,183.8	5,183.7	0.17	N/A	
100.0	100.0	128.0	128.0	0.1	0.1	170.62	-5,114.3	845.1	5,183.8	5,183.6	0.17	N/A	
196.8	196.8	728.0	725.6	0.3	1.6	170.28	-5,075.5	869.0	5,178.0	5,176.1	1.84	2,817.534	
200.0	200.0	728.0	725.6	0.3	1.6	170.28	-5,075.5	869.0	5,177.6	5,175.8	1.84	2,806.542	
295.3	295.3	783.9	780.9	0.5	1.8	170.21	-5,068.8	874.7	5,168.0	5,165.8	2.22	2,326.780	
300.0	300.0	786.3	783.3	0.5	1.8	170.21	-5,068.5	875.0	5,167.5	5,165.3	2.24	2,308.162	
393.7	393.7	856.0	852.0	0.8	2.0	170.10	-5,060.7	883.5	5,159.0	5,156.3	2.65	1,945.155	
400.0	400.0	856.0	852.0	0.8	2.0	170.10	-5,060.7	883.5	5,158.4	5,155.8	2.67	1,934.609	
492.1	492.1	893.7	889.1	1.0	2.2	170.03	-5,056.7	888.8	5,150.7	5,147.7	3.00	1,715.896	
500.0	500.0	898.9	894.1	1.0	2.2	170.02	-5,056.2	889.5	5,150.1	5,147.0	3.04	1,695.724	
590.5	590.5	958.1	952.3	1.2	2.4	169.90	-5,050.0	899.2	5,143.2	5,139.7	3.44	1,493.812	
600.0	600.0	985.0	978.6	1.2	2.5	169.85	-5,047.2	904.0	5,142.5	5,139.0	3.56	1,446.019	
689.0	689.0	1,020.9	1,013.6	1.4	2.7	169.76	-5,043.5	910.9	5,136.3	5,132.4	3.91	1,315.043	
700.0	700.0	1,027.8	1,020.3	1.4	2.7	169.75	-5,042.8	912.3	5,135.6	5,131.6	3.96	1,297.050	
787.4	787.4	1,082.4	1,073.5	1.6	3.0	169.61	-5,037.4	923.6	5,130.2	5,125.8	4.38	1,170.195	
800.0	800.0	1,113.0	1,103.2	1.7	3.1	169.53	-5,034.4	930.4	5,129.5	5,125.0	4.54	1,129.774	
885.8	885.8	1,147.0	1,136.1	1.9	3.2	169.44	-5,031.2	938.2	5,124.8	5,119.9	4.89	1,047.217	
900.0	900.0	1,156.7	1,145.5	1.9	3.3	169.41	-5,030.3	940.4	5,124.0	5,119.1	4.97	1,030.634	
984.2	984.2	1,214.7	1,201.6	2.1	3.6	169.25	-5,025.0	954.1	5,120.0	5,114.6	5.44	941.980	
1,000.0	1,000.0	1,242.0	1,228.0	2.1	3.7	169.17	-5,022.5	960.7	5,119.3	5,113.7	5.60	914.135	
1,082.7	1,082.7	1,398.8	1,379.3	2.3	4.5	168.72	-5,006.8	998.7	5,114.9	5,108.4	6.55	781.008	
1,100.0	1,100.0	1,416.3	1,396.2	2.3	4.6	168.67	-5,004.9	1,003.0	5,113.9	5,107.2	6.68	765.944	
1,181.1	1,181.1	1,499.0	1,475.8	2.5	5.0	168.42	-4,995.9	1,023.4	5,109.0	5,101.7	7.28	702.065	
1,200.0	1,200.0	1,569.8	1,544.0	2.6	5.4	168.21	-4,987.7	1,040.7	5,107.7	5,100.1	7.68	665.041	
1,279.5	1,279.5	1,627.0	1,599.0	2.7	5.7	168.05	-4,980.7	1,054.5	5,102.0	5,093.9	8.15	625.949	
1,300.0	1,300.0	1,668.3	1,638.8	2.8	5.9	167.93	-4,975.6	1,064.4	5,100.4	5,092.0	8.39	608.121	
1,377.9	1,377.9	1,706.5	1,675.7	3.0	6.0	172.11	-4,971.2	1,073.3	5,096.3	5,087.5	8.83	577.193	
1,400.0	1,400.0	1,717.3	1,686.2	3.0	6.1	172.08	-4,970.0	1,075.7	5,095.7	5,086.8	8.93	570.695	
1,458.4	1,458.3	1,755.0	1,722.6	3.2	6.3	171.99	-4,966.1	1,084.3	5,095.0	5,085.8	9.23	551.843	
1,476.4	1,476.3	1,755.1	1,722.7	3.2	6.3	171.99	-4,966.1	1,084.3	5,095.1	5,085.9	9.27	549.537	
1,500.0	1,499.8	1,779.9	1,746.7	3.2	6.4	171.92	-4,963.6	1,089.9	5,095.5	5,086.0	9.44	539.721	
1,574.8	1,574.4	1,858.1	1,822.5	3.4	6.8	171.71	-4,955.6	1,107.7	5,097.7	5,087.8	9.97	511.110	
1,600.0	1,599.5	1,884.6	1,848.2	3.5	6.9	171.64	-4,952.9	1,113.8	5,098.9	5,088.8	10.15	502.240	
1,673.2	1,672.2	1,990.5	1,950.6	3.6	7.4	171.35	-4,941.7	1,138.1	5,103.5	5,092.6	10.82	471.510	
1,700.0	1,698.7	2,012.0	1,971.4	3.7	7.5	171.29	-4,939.3	1,143.0	5,105.5	5,094.5	10.98	464.919	
1,771.6	1,769.5	2,063.8	2,021.5	3.9	7.8	171.14	-4,933.7	1,154.7	5,112.3	5,100.9	11.36	450.087	
1,800.0	1,797.5	2,081.3	2,038.5	4.0	7.9	171.08	-4,931.9	1,158.7	5,115.6	5,104.1	11.49	445.162	
1,870.1	1,866.3	2,140.0	2,095.4	4.2	8.1	170.91	-4,926.1	1,172.0	5,125.2	5,113.3	11.89	431.037	
1,900.1	1,895.8	2,285.3	2,236.1	4.3	8.9	170.55	-4,910.0	1,204.5	5,129.6	5,117.0	12.63	406.198	
1,968.5	1,962.6	2,350.9	2,299.6	4.5	9.2	170.40	-4,902.0	1,218.6	5,139.0	5,125.9	13.10	392.437	
2,000.0	1,993.4	2,381.2	2,329.0	4.6	9.3	170.33	-4,898.4	1,225.0	5,143.4	5,130.0	13.31	386.424	
2,066.9	2,058.9	2,432.7	2,379.1	4.8	9.5	170.22	-4,892.3	1,235.7	5,152.7	5,139.0	13.71	375.924	
2,100.0	2,091.3	2,456.1	2,401.8	4.9	9.7	170.17	-4,889.6	1,240.5	5,157.4	5,143.5	13.89	371.371	
2,165.3	2,155.2	2,502.3	2,446.7	5.1	9.9	170.07	-4,884.3	1,250.0	5,166.8	5,152.6	14.25	362.572	
2,200.0	2,189.1	2,526.0	2,469.7	5.3	10.0	170.02	-4,881.7	1,254.9	5,171.9	5,157.5	14.44	358.100	
2,263.8	2,251.4	2,562.9	2,505.6	5.5	10.1	169.94	-4,877.8	1,262.5	5,181.6	5,166.8	14.77	350.919	
2,300.0	2,286.9	2,583.5	2,525.7	5.6	10.2	169.89	-4,875.6	1,266.7	5,187.2	5,172.3	14.95	347.014	
2,362.2	2,347.7	2,618.8	2,560.0	5.9	10.4	169.82	-4,872.1	1,274.0	5,197.1	5,181.9	15.26	340.528	
2,400.0	2,384.7	2,654.0	2,594.3	6.0	10.5	169.75	-4,868.8	1,281.2	5,203.3	5,187.8	15.51	335.393	
2,460.6	2,444.0	2,691.6	2,631.0	6.3	10.7	169.67	-4,865.4	1,288.9	5,213.4	5,197.6	15.83	329.328	
2,500.0	2,482.5	2,732.5	2,670.9	6.4	10.9	169.59	-4,861.7	1,297.1	5,219.9	5,203.8	16.11	324.089	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												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	
2,559.0	2,540.3	2,795.8	2,732.7	6.6	11.2	169.46	-4,856.0	1,309.4	5,229.8	5,213.2	16.53	316.460	
2,600.0	2,580.3	2,845.3	2,781.1	6.8	11.4	169.37	-4,851.6	1,318.5	5,236.5	5,219.7	16.83	311.175	
2,617.6	2,597.5	2,866.6	2,802.0	6.9	11.4	169.34	-4,849.7	1,322.3	5,239.4	5,222.4	16.96	308.953	
2,657.5	2,636.6	2,915.3	2,849.8	7.0	11.6	169.28	-4,845.4	1,330.6	5,245.6	5,228.3	17.27	303.674	
2,700.0	2,678.4	2,969.5	2,903.1	7.2	11.8	169.22	-4,840.7	1,339.0	5,251.6	5,234.0	17.59	298.525	
2,755.9	2,733.5	3,039.0	2,971.8	7.3	12.1	169.15	-4,834.8	1,348.3	5,258.3	5,240.3	17.98	292.410	
2,800.0	2,777.0	3,039.0	2,971.8	7.4	12.1	169.17	-4,834.8	1,348.3	5,263.0	5,244.9	18.10	290.838	
2,854.3	2,830.9	3,088.6	3,020.9	7.6	12.2	169.14	-4,831.1	1,353.8	5,267.9	5,249.6	18.36	286.920	
2,900.0	2,876.2	3,111.3	3,043.5	7.7	12.3	169.13	-4,829.7	1,355.9	5,271.6	5,253.1	18.53	284.526	
2,952.7	2,928.7	3,168.0	3,100.0	7.8	12.4	169.10	-4,826.8	1,360.1	5,275.3	5,256.5	18.79	280.693	
3,000.0	2,975.8	3,168.0	3,100.0	7.9	12.4	169.11	-4,826.8	1,360.1	5,277.8	5,258.9	18.89	279.344	
3,051.2	3,026.8	3,168.0	3,100.0	8.0	12.4	169.12	-4,826.8	1,360.1	5,280.1	5,261.1	18.99	277.989	
3,100.0	3,075.6	3,209.2	3,141.1	8.1	12.5	169.10	-4,825.4	1,362.3	5,281.5	5,262.4	19.16	275.720	
3,149.6	3,125.2	3,232.9	3,164.8	8.2	12.5	169.10	-4,824.8	1,363.3	5,282.5	5,263.2	19.28	273.980	
3,200.0	3,175.6	3,257.0	3,188.9	8.3	12.6	169.09	-4,824.4	1,364.1	5,282.8	5,263.4	19.40	272.278	
3,217.7	3,193.3	3,296.0	3,227.8	8.3	12.6	164.80	-4,824.1	1,365.0	5,283.0	5,263.5	19.50	270.867	
3,248.0	3,223.6	3,296.0	3,227.8	8.4	12.6	164.80	-4,824.1	1,365.0	5,282.8	5,263.2	19.56	270.046	
3,266.8	3,242.3	3,296.0	3,227.8	8.4	12.6	164.80	-4,824.1	1,365.0	5,282.8	5,263.2	19.60	269.544	
3,300.0	3,275.6	3,320.2	3,252.0	8.5	12.7	164.79	-4,824.1	1,365.4	5,282.8	5,263.1	19.70	268.228	
3,346.4	3,322.0	3,380.7	3,312.5	8.6	12.8	164.78	-4,823.9	1,366.3	5,282.8	5,263.0	19.87	265.809	
3,400.0	3,375.6	3,440.9	3,372.6	8.7	12.8	164.77	-4,823.5	1,367.0	5,282.7	5,262.7	20.07	263.249	
3,444.9	3,420.4	3,478.1	3,409.9	8.7	12.9	164.77	-4,823.4	1,367.4	5,282.7	5,262.4	20.21	261.384	
3,468.1	3,443.6	3,497.4	3,429.1	8.8	12.9	164.77	-4,823.3	1,367.5	5,282.6	5,262.4	20.28	260.431	
3,500.0	3,475.6	3,523.8	3,455.6	8.8	12.9	164.76	-4,823.3	1,367.7	5,282.7	5,262.3	20.39	259.134	
3,543.3	3,518.9	3,553.0	3,484.8	8.9	13.0	164.76	-4,823.3	1,367.8	5,282.7	5,262.2	20.52	257.502	
3,600.0	3,575.6	3,601.4	3,533.2	9.0	13.0	164.76	-4,823.5	1,368.0	5,283.0	5,262.3	20.69	255.287	
3,641.7	3,617.3	3,632.5	3,564.3	9.1	13.1	164.76	-4,823.6	1,368.1	5,283.2	5,262.4	20.82	253.748	
3,700.0	3,675.6	3,681.0	3,612.8	9.2	13.1	164.76	-4,824.0	1,368.3	5,283.7	5,262.7	21.00	251.565	
3,740.1	3,715.7	3,714.5	3,646.3	9.3	13.2	164.76	-4,824.4	1,368.3	5,284.1	5,263.0	21.13	250.126	
3,800.0	3,775.6	3,774.3	3,706.1	9.4	13.2	164.77	-4,825.1	1,368.0	5,284.8	5,263.5	21.32	247.889	
3,838.6	3,814.1	3,817.2	3,749.0	9.5	13.3	164.77	-4,825.7	1,367.5	5,285.2	5,263.7	21.45	246.416	
3,900.0	3,875.6	3,938.0	3,869.8	9.6	13.4	164.79	-4,826.5	1,366.0	5,285.3	5,263.6	21.71	243.482	
3,937.0	3,912.6	3,973.1	3,904.8	9.7	13.4	164.80	-4,826.5	1,365.5	5,285.2	5,263.3	21.82	242.183	
3,959.6	3,935.2	3,988.9	3,920.7	9.7	13.4	164.80	-4,826.5	1,365.3	5,285.2	5,263.3	21.89	241.462	
4,000.0	3,975.6	4,017.2	3,948.9	9.8	13.5	164.80	-4,826.7	1,364.8	5,285.2	5,263.2	22.00	240.188	
4,035.4	4,011.0	4,042.0	3,973.7	9.9	13.5	164.81	-4,826.9	1,364.4	5,285.3	5,263.2	22.11	239.084	
4,100.0	4,075.6	4,092.7	4,024.4	10.0	13.5	164.82	-4,827.5	1,363.2	5,285.7	5,263.4	22.30	237.068	
4,133.8	4,109.4	4,122.5	4,054.2	10.0	13.6	164.83	-4,827.9	1,362.6	5,285.9	5,263.5	22.40	236.004	
4,200.0	4,175.6	4,180.4	4,112.1	10.2	13.6	164.85	-4,828.8	1,361.3	5,286.5	5,263.9	22.60	233.957	
4,232.3	4,207.8	4,224.5	4,156.2	10.2	13.7	164.86	-4,829.4	1,360.4	5,286.8	5,264.1	22.71	232.767	
4,300.0	4,275.6	4,340.9	4,272.6	10.4	13.8	164.87	-4,830.0	1,359.1	5,286.9	5,263.9	22.99	229.973	
4,330.7	4,306.3	4,372.8	4,304.5	10.4	13.8	164.88	-4,830.0	1,358.6	5,286.8	5,263.7	23.09	228.956	
4,400.0	4,375.6	4,444.7	4,376.4	10.6	13.9	164.90	-4,830.3	1,356.1	5,286.6	5,263.1	23.32	226.694	
4,429.1	4,404.7	4,468.9	4,400.5	10.6	13.9	164.91	-4,830.5	1,356.1	5,286.6	5,263.1	23.41	225.843	
4,472.6	4,448.2	4,502.1	4,433.7	10.7	14.0	164.92	-4,830.7	1,355.1	5,286.5	5,263.0	23.53	224.626	
4,500.0	4,475.6	4,522.9	4,454.6	10.8	14.0	164.93	-4,830.9	1,354.4	5,286.5	5,262.9	23.61	223.870	
4,527.5	4,503.1	4,544.0	4,475.6	10.8	14.0	164.93	-4,831.1	1,353.7	5,286.6	5,262.9	23.69	223.114	
4,600.0	4,575.6	4,708.0	4,639.5	11.0	14.2	164.97	-4,831.3	1,349.9	5,286.3	5,262.3	24.04	219.938	
4,626.0	4,601.5	4,708.0	4,639.5	11.0	14.2	164.97	-4,831.3	1,349.9	5,286.0	5,261.9	24.09	219.407	
4,700.0	4,675.6	4,768.3	4,699.8	11.2	14.3	164.98	-4,830.6	1,349.3	5,285.0	5,260.7	24.33	217.182	
4,724.4	4,700.0	4,780.0	4,711.5	11.2	14.3	164.98	-4,830.5	1,349.2	5,284.9	5,260.5	24.40	216.562	
4,751.6	4,727.2	4,793.0	4,724.5	11.3	14.3	164.98	-4,830.5	1,349.1	5,284.8	5,260.3	24.48	215.877	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												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	
4,800.0	4,775.6	4,837.0	4,768.5	11.4	14.4	164.98	-4,830.7	1,348.8	5,284.9	5,260.2	24.65	214.437	
4,807.5	4,783.0	4,837.0	4,768.5	11.4	14.4	164.98	-4,830.7	1,348.8	5,284.9	5,260.2	24.66	214.295	
4,822.8	4,798.4	4,837.0	4,768.5	11.4	14.4	164.98	-4,830.7	1,348.8	5,284.9	5,260.2	24.70	214.004	
4,900.0	4,875.6	4,965.0	4,896.5	11.6	14.5	164.98	-4,829.9	1,348.5	5,284.2	5,259.1	25.05	210.948	
4,921.2	4,896.8	5,007.3	4,938.9	11.6	14.6	164.98	-4,829.2	1,348.5	5,283.7	5,258.5	25.16	209.996	
5,000.0	4,975.6	5,043.7	4,975.2	11.8	14.7	164.98	-4,829.0	1,348.6	5,283.2	5,257.8	25.39	208.088	
5,019.7	4,995.2	5,052.8	4,984.3	11.8	14.7	164.98	-4,828.9	1,348.6	5,283.1	5,257.7	25.45	207.620	
5,026.4	5,001.9	5,055.9	4,987.4	11.8	14.7	164.98	-4,828.9	1,348.6	5,283.1	5,257.7	25.47	207.461	
5,100.0	5,075.6	5,094.0	5,025.5	12.0	14.7	164.98	-4,829.1	1,348.8	5,283.4	5,257.7	25.69	205.697	
5,118.1	5,093.7	5,104.8	5,036.3	12.0	14.8	164.98	-4,829.1	1,348.8	5,283.6	5,257.8	25.74	205.253	
5,200.0	5,175.6	5,199.5	5,131.0	12.2	14.9	164.98	-4,829.7	1,349.3	5,284.1	5,258.0	26.07	202.716	
5,216.5	5,192.1	5,218.6	5,150.1	12.2	14.9	164.97	-4,829.8	1,349.4	5,284.2	5,258.1	26.13	202.210	
5,300.0	5,275.6	5,288.6	5,220.1	12.4	15.0	164.97	-4,830.1	1,349.8	5,284.7	5,258.3	26.42	200.011	
5,314.9	5,290.5	5,300.9	5,232.4	12.4	15.1	164.97	-4,830.2	1,349.8	5,284.9	5,258.4	26.47	199.625	
5,400.0	5,375.6	5,379.2	5,310.7	12.6	15.2	164.97	-4,831.0	1,349.9	5,285.7	5,258.9	26.78	197.369	
5,413.4	5,388.9	5,394.4	5,325.9	12.6	15.2	164.97	-4,831.1	1,349.9	5,285.8	5,259.0	26.83	196.985	
5,500.0	5,475.6	5,490.9	5,422.4	12.8	15.3	164.97	-4,831.8	1,350.4	5,286.5	5,259.3	27.17	194.550	
5,511.8	5,487.4	5,502.3	5,433.8	12.8	15.4	164.97	-4,831.9	1,350.5	5,286.6	5,259.4	27.22	194.241	
5,600.0	5,575.6	5,587.7	5,519.2	13.0	15.5	164.97	-4,832.5	1,350.7	5,287.2	5,259.7	27.54	191.961	
5,610.2	5,585.8	5,597.6	5,529.1	13.0	15.5	164.97	-4,832.6	1,350.7	5,287.3	5,259.7	27.58	191.700	
5,700.0	5,675.6	5,671.5	5,603.0	13.2	15.6	164.97	-4,833.3	1,350.7	5,288.2	5,260.3	27.89	189.587	
5,708.6	5,684.2	5,678.4	5,609.9	13.2	15.6	164.97	-4,833.4	1,350.7	5,288.3	5,260.3	27.92	189.388	
5,800.0	5,775.6	5,753.5	5,685.0	13.4	15.7	164.97	-4,834.3	1,350.9	5,289.4	5,261.2	28.24	187.293	
5,807.1	5,782.6	5,759.8	5,691.3	13.4	15.7	164.97	-4,834.4	1,351.0	5,289.5	5,261.3	28.27	187.125	
5,900.0	5,875.6	5,841.9	5,773.4	13.6	15.9	164.97	-4,835.5	1,351.7	5,291.0	5,262.4	28.61	184.961	
5,905.5	5,881.1	5,846.8	5,778.3	13.6	15.9	164.97	-4,835.6	1,351.7	5,291.1	5,262.5	28.63	184.835	
6,000.0	5,975.6	5,992.6	5,924.1	13.8	16.1	164.96	-4,837.2	1,352.9	5,292.3	5,263.2	29.07	182.035	
6,003.9	5,979.5	5,996.6	5,928.0	13.8	16.1	164.96	-4,837.2	1,352.9	5,292.3	5,263.3	29.09	181.941	
6,100.0	6,075.6	6,092.5	6,024.0	14.0	16.3	164.96	-4,837.8	1,353.4	5,293.0	5,263.6	29.46	179.677	
6,102.3	6,077.9	6,094.9	6,026.3	14.0	16.3	164.96	-4,837.8	1,353.4	5,293.0	5,263.6	29.47	179.622	
6,200.0	6,175.6	6,290.6	6,222.0	14.2	16.6	164.93	-4,836.9	1,355.7	5,293.1	5,263.0	30.03	176.277	
6,200.8	6,176.3	6,292.5	6,223.9	14.2	16.6	164.93	-4,836.9	1,355.8	5,293.1	5,263.0	30.03	176.246	
6,299.2	6,274.8	6,439.5	6,370.9	14.4	16.9	164.91	-4,833.9	1,356.5	5,291.1	5,260.6	30.51	173.415	
6,300.0	6,275.6	6,440.2	6,371.6	14.4	16.9	164.91	-4,833.9	1,356.5	5,291.1	5,260.6	30.51	173.397	
6,397.6	6,373.2	6,506.0	6,437.4	14.7	17.0	164.90	-4,832.4	1,356.9	5,289.2	5,258.3	30.85	171.465	
6,400.0	6,375.6	6,506.0	6,437.4	14.7	17.0	164.90	-4,832.4	1,356.9	5,289.2	5,258.3	30.85	171.434	
6,436.2	6,411.8	6,549.7	6,481.1	14.7	17.1	164.90	-4,831.5	1,357.2	5,288.5	5,257.5	31.01	170.549	
6,450.0	6,425.6	6,558.5	6,489.9	14.8	17.1	-15.32	-4,831.3	1,357.2	5,288.1	5,257.1	31.03	170.437	
6,496.0	6,471.5	6,588.0	6,519.4	14.8	17.2	-15.39	-4,830.9	1,357.3	5,285.2	5,254.2	31.03	170.311	
6,500.0	6,475.5	6,590.5	6,521.9	14.8	17.2	-15.40	-4,830.9	1,357.3	5,284.9	5,253.8	31.03	170.320	
6,550.0	6,525.1	6,634.0	6,565.4	14.9	17.2	-15.55	-4,830.4	1,357.3	5,278.4	5,247.5	30.94	170.611	
6,594.5	6,568.7	6,652.4	6,583.7	14.9	17.3	-15.75	-4,830.3	1,357.3	5,270.0	5,239.3	30.73	171.496	
6,600.0	6,574.1	6,656.3	6,587.6	14.9	17.3	-15.78	-4,830.3	1,357.3	5,268.8	5,238.1	30.70	171.618	
6,650.0	6,622.4	6,691.2	6,622.5	14.9	17.3	-16.10	-4,830.1	1,357.4	5,256.1	5,225.7	30.38	173.008	
6,692.9	6,663.0	6,720.6	6,651.9	14.9	17.4	-16.45	-4,830.1	1,357.5	5,242.7	5,212.6	30.03	174.600	
6,700.0	6,669.6	6,725.4	6,656.7	14.9	17.4	-16.51	-4,830.1	1,357.5	5,240.2	5,210.3	29.96	174.897	
6,750.0	6,715.6	6,763.0	6,694.4	14.9	17.4	-17.04	-4,830.0	1,357.7	5,221.4	5,191.9	29.46	177.225	
6,791.3	6,752.5	6,788.5	6,719.9	14.9	17.5	-17.55	-4,830.1	1,357.9	5,203.5	5,174.6	28.98	179.543	
6,800.0	6,760.1	6,794.8	6,726.1	14.9	17.5	-17.67	-4,830.1	1,357.9	5,199.6	5,170.7	28.88	180.056	
6,850.0	6,802.9	6,830.0	6,761.4	14.9	17.6	-18.45	-4,830.2	1,358.1	5,174.9	5,146.6	28.24	183.243	
6,889.7	6,835.6	6,857.6	6,789.0	14.9	17.6	-19.18	-4,830.3	1,358.3	5,153.3	5,125.6	27.70	186.006	
6,900.0	6,843.8	6,865.1	6,796.5	14.9	17.6	-19.39	-4,830.4	1,358.3	5,147.4	5,119.9	27.56	186.739	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-21D - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 usft
Survey Program: 128-MWD													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					
6,950.0	6,882.6	6,902.0	6,833.4	14.9	17.7	-20.53	-4,830.6	1,358.5	5,117.4	5,090.5	26.88	190.375					
6,988.2	6,910.7	6,931.1	6,862.4	15.0	17.7	-21.56	-4,830.7	1,358.6	5,092.7	5,066.3	26.37	193.099					
7,000.0	6,919.1	6,939.8	6,871.2	15.0	17.7	-21.92	-4,830.8	1,358.6	5,084.8	5,058.5	26.22	193.923					
7,050.0	6,953.1	6,975.0	6,906.3	15.0	17.8	-23.59	-4,831.0	1,358.8	5,049.8	5,024.2	25.62	197.101					
7,086.6	6,976.4	6,999.0	6,930.4	15.1	17.8	-25.04	-4,831.1	1,359.0	5,022.8	4,997.5	25.25	198.920					
7,100.0	6,984.5	7,007.4	6,938.8	15.1	17.9	-25.62	-4,831.1	1,359.0	5,012.6	4,987.5	25.13	199.443					
7,150.0	7,013.1	7,020.0	6,951.4	15.3	17.9	-27.98	-4,831.2	1,359.1	4,973.5	4,948.7	24.77	200.745					
7,185.0	7,031.4	7,044.7	6,976.0	15.4	17.9	-30.09	-4,831.3	1,359.3	4,944.9	4,920.2	24.72	200.008					
7,200.0	7,038.8	7,049.9	6,981.3	15.4	17.9	-31.04	-4,831.3	1,359.4	4,932.5	4,907.8	24.73	199.464					
7,250.0	7,061.4	7,066.1	6,997.5	15.6	18.0	-34.73	-4,831.5	1,359.5	4,890.0	4,865.0	24.99	195.694					
7,283.4	7,074.8	7,075.8	7,007.1	15.8	18.0	-37.70	-4,831.5	1,359.6	4,860.8	4,835.4	25.40	191.388					
7,300.0	7,080.9	7,080.2	7,011.5	15.9	18.0	-39.35	-4,831.6	1,359.7	4,846.1	4,820.4	25.67	188.758					
7,350.0	7,097.1	7,092.0	7,023.4	16.2	18.0	-45.15	-4,831.7	1,359.8	4,801.0	4,774.2	26.85	178.823					
7,381.9	7,105.7	7,098.3	7,029.7	16.4	18.0	-49.61	-4,831.7	1,359.8	4,771.8	4,743.9	27.86	171.303					
7,400.0	7,109.9	7,101.5	7,032.9	16.6	18.0	-52.45	-4,831.8	1,359.9	4,755.0	4,726.5	28.50	166.842					
7,450.0	7,119.4	7,108.6	7,040.0	17.0	18.0	-61.51	-4,831.9	1,360.0	4,708.2	4,677.8	30.47	154.536					
7,480.3	7,123.4	7,111.8	7,043.1	17.2	18.0	-67.87	-4,831.9	1,360.0	4,679.6	4,648.0	31.66	147.801					
7,500.0	7,125.4	7,113.3	7,044.7	17.4	18.0	-72.33	-4,831.9	1,360.0	4,661.0	4,628.6	32.36	144.033					
7,550.0	7,127.9	7,115.5	7,046.9	17.9	18.1	-84.47	-4,831.9	1,360.0	4,613.4	4,579.8	33.63	137.192					
7,562.9	7,128.0	7,115.7	7,047.0	18.0	18.1	-87.69	-4,831.9	1,360.0	4,601.1	4,567.3	33.79	136.153					
7,578.7	7,128.0	7,115.8	7,047.2	18.2	18.1	-87.69	-4,831.9	1,360.0	4,586.0	4,552.1	33.96	135.056					
7,600.0	7,127.9	7,115.9	7,047.3	18.4	18.1	-87.70	-4,831.9	1,360.1	4,565.8	4,531.6	34.18	133.600					
7,677.1	7,127.7	7,116.4	7,047.8	19.2	18.1	-87.72	-4,831.9	1,360.1	4,492.4	4,457.4	35.04	128.212					
7,700.0	7,127.7	7,116.6	7,047.9	19.5	18.1	-87.72	-4,831.9	1,360.1	4,470.7	4,435.4	35.29	126.668					
7,775.6	7,127.5	7,117.1	7,048.5	20.3	18.1	-87.75	-4,831.9	1,360.1	4,399.0	4,362.9	36.09	121.876					
7,800.0	7,127.5	7,117.3	7,048.6	20.5	18.1	-87.75	-4,831.9	1,360.1	4,375.9	4,339.5	36.35	120.373					
7,874.0	7,127.3	7,117.8	7,049.1	21.4	18.1	-87.77	-4,832.0	1,360.1	4,305.8	4,268.6	37.21	115.713					
7,900.0	7,127.2	7,117.9	7,049.3	21.7	18.1	-87.78	-4,832.0	1,360.1	4,281.2	4,243.7	37.51	114.127					
7,972.4	7,127.1	7,118.4	7,049.8	22.7	18.1	-87.80	-4,832.0	1,360.1	4,212.9	4,174.3	38.53	109.344					
8,000.0	7,127.0	7,118.6	7,050.0	23.1	18.1	-87.81	-4,832.0	1,360.1	4,186.9	4,147.9	38.91	107.590					
8,070.8	7,126.8	7,119.1	7,050.5	24.2	18.1	-87.83	-4,832.0	1,360.1	4,120.2	4,080.2	39.96	103.112					
8,100.0	7,126.8	7,119.3	7,050.7	24.6	18.1	-87.83	-4,832.0	1,360.1	4,092.8	4,052.4	40.39	101.338					
8,169.3	7,126.6	7,119.8	7,051.1	25.6	18.1	-87.85	-4,832.0	1,360.1	4,027.7	3,986.3	41.45	97.177					
8,200.0	7,126.6	7,120.0	7,051.4	26.1	18.1	-87.86	-4,832.0	1,360.1	3,998.9	3,957.0	41.92	95.400					
8,267.7	7,126.4	7,120.5	7,051.8	27.2	18.1	-87.88	-4,832.0	1,360.1	3,935.6	3,892.6	42.99	91.554					
8,300.0	7,126.3	7,120.7	7,052.1	27.7	18.1	-87.89	-4,832.0	1,360.1	3,905.4	3,861.9	43.50	89.787					
8,366.1	7,126.2	7,121.2	7,052.5	28.8	18.1	-87.91	-4,832.0	1,360.1	3,843.8	3,799.2	44.57	86.246					
8,400.0	7,126.1	7,121.4	7,052.8	29.3	18.1	-87.92	-4,832.0	1,360.1	3,812.2	3,767.1	45.12	84.498					
8,464.5	7,126.0	7,121.9	7,053.2	30.4	18.1	-87.94	-4,832.0	1,360.1	3,752.3	3,706.1	46.18	81.246					
8,500.0	7,125.9	7,122.1	7,053.5	31.0	18.1	-87.95	-4,832.0	1,360.1	3,719.4	3,672.6	46.77	79.524					
8,563.0	7,125.7	7,122.6	7,054.0	32.0	18.1	-87.97	-4,832.0	1,360.1	3,661.1	3,613.3	47.83	76.544					
8,600.0	7,125.6	7,122.9	7,054.2	32.6	18.1	-87.98	-4,832.0	1,360.1	3,627.0	3,578.5	48.45	74.854					
8,661.4	7,125.5	7,123.3	7,054.7	33.7	18.1	-88.00	-4,832.0	1,360.1	3,570.4	3,520.9	49.50	72.125					
8,700.0	7,125.4	7,123.6	7,055.0	34.4	18.1	-88.01	-4,832.0	1,360.1	3,534.9	3,484.8	50.16	70.470					
8,759.8	7,125.3	7,124.1	7,055.4	35.4	18.1	-88.03	-4,832.0	1,360.1	3,480.1	3,428.9	51.20	67.974					
8,800.0	7,125.2	7,124.4	7,055.7	36.1	18.1	-88.04	-4,832.0	1,360.2	3,443.3	3,391.4	51.89	66.356					
8,858.2	7,125.1	7,124.8	7,056.1	37.1	18.1	-88.06	-4,832.0	1,360.2	3,390.2	3,337.3	52.91	64.074					
8,900.0	7,125.0	7,125.1	7,056.5	37.8	18.1	-88.07	-4,832.0	1,360.2	3,352.2	3,298.6	53.64	62.494					
8,956.7	7,124.8	7,125.5	7,056.9	38.8	18.1	-88.09	-4,832.0	1,360.2	3,300.8	3,246.2	54.64	60.410					
9,000.0	7,124.7	7,125.9	7,057.2	39.6	18.1	-88.10	-4,832.0	1,360.2	3,261.6	3,206.2	55.40	58.869					
9,055.1	7,124.6	7,126.3	7,057.6	40.6	18.1	-88.12	-4,832.1	1,360.2	3,212.0	3,155.6	56.38	56.965					
9,100.0	7,124.5	7,126.6	7,058.0	41.4	18.1	-88.13	-4,832.1	1,360.2	3,171.6	3,114.4	57.18	55.464					

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												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	
9,153.5	7,124.4	7,127.1	7,058.4	42.3	18.1	-88.15	-4,832.1	1,360.2	3,123.7	3,065.5	58.14	53.726	
9,200.0	7,124.3	7,127.4	7,058.8	43.2	18.1	-88.17	-4,832.1	1,360.2	3,082.2	3,023.2	58.97	52.264	
9,251.9	7,124.2	7,127.8	7,059.2	44.1	18.1	-88.18	-4,832.1	1,360.2	3,036.0	2,976.1	59.91	50.677	
9,300.0	7,124.1	7,128.2	7,059.6	45.0	18.1	-88.20	-4,832.1	1,360.2	2,993.4	2,932.7	60.77	49.255	
9,350.4	7,123.9	7,128.6	7,060.0	45.9	18.1	-88.21	-4,832.1	1,360.2	2,949.0	2,887.3	61.69	47.806	
9,400.0	7,123.8	7,129.0	7,060.4	46.8	18.1	-88.23	-4,832.1	1,360.2	2,905.4	2,842.9	62.59	46.424	
9,448.8	7,123.7	7,129.4	7,060.8	47.7	18.1	-88.25	-4,832.1	1,360.2	2,862.8	2,799.3	63.47	45.102	
9,500.0	7,123.6	7,129.8	7,061.2	48.6	18.1	-88.26	-4,832.1	1,360.2	2,818.2	2,753.8	64.40	43.758	
9,547.2	7,123.5	7,130.2	7,061.6	49.4	18.1	-88.28	-4,832.1	1,360.2	2,777.3	2,712.1	65.27	42.553	
9,600.0	7,123.4	7,130.6	7,062.0	50.4	18.1	-88.30	-4,832.1	1,360.2	2,731.9	2,665.7	66.23	41.248	
9,645.6	7,123.3	7,131.0	7,062.4	51.2	18.1	-88.31	-4,832.1	1,360.2	2,692.8	2,625.7	67.07	40.150	
9,700.0	7,123.2	7,131.5	7,062.8	52.2	18.1	-88.33	-4,832.1	1,360.2	2,646.5	2,578.4	68.07	38.882	
9,744.1	7,123.1	7,131.8	7,063.2	53.1	18.1	-88.35	-4,832.1	1,360.2	2,609.2	2,540.3	68.88	37.883	
9,800.0	7,122.9	7,132.3	7,063.7	54.1	18.1	-88.37	-4,832.1	1,360.3	2,562.2	2,492.3	69.91	36.653	
9,842.5	7,122.8	7,132.7	7,064.0	54.9	18.1	-88.38	-4,832.1	1,360.3	2,526.7	2,456.0	70.69	35.744	
9,900.0	7,122.7	7,133.2	7,064.5	55.9	18.1	-88.40	-4,832.1	1,360.3	2,479.0	2,407.3	71.75	34.551	
9,940.9	7,122.6	7,133.5	7,064.9	56.7	18.1	-88.41	-4,832.1	1,360.3	2,445.4	2,372.9	72.51	33.726	
10,000.0	7,122.5	7,134.0	7,065.4	57.8	18.1	-88.44	-4,832.2	1,360.3	2,397.2	2,323.6	73.60	32.570	
10,039.3	7,122.4	7,134.4	7,065.7	58.5	18.1	-88.45	-4,832.2	1,360.3	2,365.4	2,291.0	74.33	31.822	
10,100.0	7,122.3	7,134.9	7,066.2	59.6	18.1	-88.47	-4,832.2	1,360.3	2,316.7	2,241.3	75.46	30.703	
10,137.8	7,122.2	7,135.2	7,066.6	60.3	18.1	-88.48	-4,832.2	1,360.3	2,286.8	2,210.6	76.16	30.027	
10,200.0	7,122.0	7,135.8	7,067.1	61.5	18.1	-88.51	-4,832.2	1,360.3	2,237.9	2,160.6	77.31	28.945	
10,236.2	7,121.9	7,136.1	7,067.4	62.2	18.1	-88.52	-4,832.2	1,360.3	2,209.8	2,131.8	77.99	28.334	
10,300.0	7,121.8	7,136.7	7,068.0	63.3	18.1	-88.54	-4,832.2	1,360.3	2,160.8	2,081.6	79.18	27.290	
10,334.6	7,121.7	7,137.0	7,068.3	64.0	18.1	-88.56	-4,832.2	1,360.3	2,134.5	2,054.7	79.82	26.740	
10,400.0	7,121.6	7,137.6	7,068.9	65.2	18.1	-88.58	-4,832.2	1,360.3	2,085.6	2,004.6	81.04	25.734	
10,433.0	7,121.5	7,137.9	7,069.2	65.8	18.1	-88.59	-4,832.2	1,360.3	2,061.2	1,979.6	81.66	25.241	
10,500.0	7,121.4	7,138.5	7,069.8	67.1	18.1	-88.62	-4,832.2	1,360.3	2,012.6	1,929.7	82.91	24.274	
10,531.5	7,121.3	7,148.0	7,079.3	67.7	18.1	-89.01	-4,832.3	1,360.5	1,990.1	1,906.6	83.52	23.828	
10,600.0	7,121.1	7,148.0	7,079.3	69.0	18.1	-89.01	-4,832.3	1,360.5	1,942.0	1,857.2	84.80	22.900	
10,629.9	7,121.1	7,148.0	7,079.3	69.5	18.1	-89.01	-4,832.3	1,360.5	1,921.4	1,836.1	85.36	22.509	
10,700.0	7,120.9	7,148.0	7,079.3	70.8	18.1	-89.01	-4,832.3	1,360.5	1,874.1	1,787.4	86.68	21.622	
10,728.3	7,120.8	7,148.0	7,079.3	71.4	18.1	-89.01	-4,832.3	1,360.5	1,855.4	1,768.2	87.21	21.275	
10,800.0	7,120.7	7,148.0	7,079.3	72.7	18.1	-89.01	-4,832.3	1,360.5	1,809.1	1,720.6	88.55	20.430	
10,826.7	7,120.6	7,148.0	7,079.3	73.2	18.1	-89.01	-4,832.3	1,360.5	1,792.3	1,703.3	89.05	20.126	
10,900.0	7,120.5	7,148.0	7,079.3	74.6	18.1	-89.01	-4,832.3	1,360.5	1,747.5	1,657.1	90.43	19.325	
10,925.2	7,120.4	7,148.0	7,079.3	75.1	18.1	-89.01	-4,832.3	1,360.5	1,732.6	1,641.7	90.90	19.059	
11,000.0	7,120.2	7,148.0	7,079.3	76.5	18.1	-89.01	-4,832.3	1,360.5	1,689.5	1,597.2	92.31	18.303	
11,023.6	7,120.2	7,148.0	7,079.3	76.9	18.1	-89.01	-4,832.3	1,360.5	1,676.4	1,583.7	92.75	18.074	
11,100.0	7,120.0	7,148.0	7,079.3	78.3	18.1	-89.01	-4,832.3	1,360.5	1,635.7	1,541.5	94.19	17.365	
11,122.0	7,120.0	7,148.0	7,079.3	78.8	18.1	-89.01	-4,832.3	1,360.5	1,624.4	1,529.8	94.61	17.170	
11,200.0	7,119.8	7,148.0	7,079.3	80.2	18.1	-89.01	-4,832.3	1,360.5	1,586.2	1,490.2	96.07	16.510	
11,220.4	7,119.7	7,148.0	7,079.3	80.6	18.1	-89.01	-4,832.3	1,360.5	1,576.7	1,480.3	96.46	16.346	
11,300.0	7,119.5	7,148.0	7,079.3	82.1	18.1	-89.01	-4,832.3	1,360.5	1,541.7	1,443.8	97.96	15.738	
11,318.9	7,119.5	7,148.0	7,079.3	82.5	18.1	-89.01	-4,832.3	1,360.5	1,533.9	1,435.6	98.32	15.602	
11,400.0	7,119.3	7,148.0	7,079.3	84.0	18.1	-89.01	-4,832.3	1,360.5	1,502.6	1,402.7	99.85	15.049	
11,417.3	7,119.3	7,148.0	7,079.3	84.3	18.1	-89.01	-4,832.3	1,360.5	1,496.4	1,396.2	100.17	14.938	
11,500.0	7,119.1	7,148.0	7,079.8	85.9	18.1	-89.02	-4,832.3	1,360.5	1,469.2	1,367.4	101.73	14.441	
11,515.7	7,119.1	7,148.6	7,080.0	86.2	18.1	-89.03	-4,832.3	1,360.5	1,464.5	1,362.5	102.03	14.353	
11,600.0	7,118.9	7,149.7	7,081.0	87.8	18.1	-89.08	-4,832.4	1,360.5	1,442.0	1,338.3	103.63	13.915	
11,614.1	7,118.8	7,149.8	7,081.2	88.0	18.1	-89.08	-4,832.4	1,360.5	1,438.6	1,334.7	103.90	13.847	
11,700.0	7,118.6	7,150.9	7,082.2	89.7	18.1	-89.12	-4,832.4	1,360.5	1,421.3	1,315.8	105.52	13.469	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-21D - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 128-MWD													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		
11,712.6	7,118.6	7,151.0	7,082.4	89.9	18.1	-89.13	-4,832.4	1,360.5	1,419.2	1,313.4	105.76	13.419		
11,800.0	7,118.4	7,152.1	7,083.4	91.6	18.1	-89.17	-4,832.4	1,360.5	1,407.4	1,300.0	107.42	13.103		
11,811.0	7,118.4	7,152.2	7,083.5	91.8	18.1	-89.18	-4,832.4	1,360.5	1,406.3	1,298.7	107.62	13.067		
11,900.0	7,118.2	7,153.2	7,084.6	93.4	18.1	-89.22	-4,832.4	1,360.5	1,400.6	1,291.3	109.31	12.813		
11,909.4	7,118.2	7,153.3	7,084.7	93.6	18.1	-89.23	-4,832.4	1,360.5	1,400.3	1,290.8	109.49	12.789		
11,946.2	7,118.1	7,153.8	7,085.1	94.3	18.1	-89.24	-4,832.4	1,360.5	1,399.8	1,289.6	110.19	12.704 CC, ES		
12,000.0	7,118.0	7,154.4	7,085.7	95.3	18.1	-89.27	-4,832.4	1,360.5	1,400.8	1,289.6	111.21	12.597		
12,007.8	7,118.0	7,154.5	7,085.8	95.5	18.1	-89.27	-4,832.4	1,360.5	1,401.2	1,289.8	111.36	12.583		
12,100.0	7,117.8	7,155.5	7,086.9	97.2	18.1	-89.31	-4,832.4	1,360.6	1,408.2	1,295.1	113.10	12.451		
12,106.3	7,117.7	7,155.6	7,086.9	97.4	18.1	-89.32	-4,832.4	1,360.6	1,408.9	1,295.7	113.22	12.444		
12,200.0	7,117.5	7,156.6	7,088.0	99.1	18.1	-89.36	-4,832.5	1,360.6	1,422.6	1,307.6	115.00	12.370		
12,204.7	7,117.5	7,156.7	7,088.0	99.2	18.1	-89.36	-4,832.5	1,360.6	1,423.5	1,308.4	115.09	12.368		
12,300.0	7,117.3	7,157.7	7,089.0	101.0	18.1	-89.40	-4,832.5	1,360.6	1,443.8	1,326.9	116.90	12.351 SF		
12,303.1	7,117.3	7,157.7	7,089.1	101.1	18.1	-89.41	-4,832.5	1,360.6	1,444.6	1,327.6	116.96	12.351		
12,400.0	7,117.1	7,158.8	7,090.1	102.9	18.1	-89.45	-4,832.5	1,360.6	1,471.5	1,352.7	118.80	12.386		
12,401.5	7,117.1	7,158.8	7,090.1	103.0	18.1	-89.45	-4,832.5	1,360.6	1,472.0	1,353.2	118.83	12.387		
12,500.0	7,116.9	7,159.8	7,091.2	104.8	18.1	-89.49	-4,832.5	1,360.6	1,505.4	1,384.7	120.70	12.472		
12,598.4	7,116.6	7,160.8	7,092.2	106.7	18.1	-89.53	-4,832.5	1,360.6	1,544.3	1,421.7	122.57	12.599		
12,600.0	7,116.6	7,160.8	7,092.2	106.7	18.1	-89.53	-4,832.5	1,360.6	1,545.0	1,422.4	122.60	12.601		
12,696.8	7,116.4	7,161.8	7,093.2	108.6	18.1	-89.57	-4,832.5	1,360.6	1,588.4	1,463.9	124.45	12.764		
12,700.0	7,116.4	7,161.8	7,093.2	108.6	18.1	-89.57	-4,832.5	1,360.6	1,589.9	1,465.4	124.51	12.769		
12,795.2	7,116.2	7,162.8	7,094.1	110.4	18.1	-89.61	-4,832.5	1,360.6	1,637.2	1,510.9	126.32	12.961		
12,800.0	7,116.2	7,162.8	7,094.2	110.5	18.1	-89.61	-4,832.5	1,360.7	1,639.6	1,513.2	126.41	12.971		
12,893.7	7,116.0	7,163.8	7,095.1	112.3	18.1	-89.65	-4,832.5	1,360.7	1,690.3	1,562.1	128.19	13.186		
12,900.0	7,116.0	7,163.8	7,095.2	112.4	18.1	-89.65	-4,832.5	1,360.7	1,693.9	1,565.6	128.31	13.201		
12,992.1	7,115.7	7,164.7	7,096.0	114.2	18.1	-89.69	-4,832.6	1,360.7	1,747.4	1,617.3	130.06	13.435		
13,000.0	7,115.7	7,164.8	7,096.1	114.3	18.1	-89.69	-4,832.6	1,360.7	1,752.1	1,621.9	130.21	13.456		
13,090.5	7,115.5	7,165.6	7,097.0	116.1	18.1	-89.73	-4,832.6	1,360.7	1,808.0	1,676.1	131.94	13.703		
13,100.0	7,115.5	7,165.7	7,097.1	116.2	18.1	-89.73	-4,832.6	1,360.7	1,814.0	1,681.9	132.12	13.730		
13,188.9	7,115.3	7,166.5	7,097.9	117.9	18.1	-89.77	-4,832.6	1,360.7	1,871.9	1,738.0	133.81	13.989		
13,200.0	7,115.3	7,166.6	7,098.0	118.1	18.1	-89.77	-4,832.6	1,360.7	1,879.2	1,745.2	134.02	14.021		
13,287.4	7,115.1	7,167.4	7,098.8	119.8	18.1	-89.80	-4,832.6	1,360.7	1,938.6	1,802.9	135.69	14.287		
13,300.0	7,115.1	7,167.5	7,098.9	120.0	18.1	-89.81	-4,832.6	1,360.7	1,947.3	1,811.4	135.93	14.326		
13,385.8	7,114.9	7,168.3	7,099.6	121.7	18.1	-89.84	-4,832.6	1,360.7	2,007.9	1,870.4	137.56	14.596		
13,400.0	7,114.8	7,168.4	7,099.8	121.9	18.1	-89.84	-4,832.6	1,360.7	2,018.1	1,880.3	137.83	14.642		
13,484.2	7,114.6	7,169.2	7,100.5	123.6	18.1	-89.87	-4,832.6	1,360.7	2,079.6	1,940.2	139.44	14.914		
13,500.0	7,114.6	7,169.3	7,100.7	123.9	18.1	-89.88	-4,832.6	1,360.7	2,091.3	1,951.6	139.74	14.966		
13,582.6	7,114.4	7,170.0	7,101.4	125.4	18.1	-89.91	-4,832.6	1,360.7	2,153.4	2,012.1	141.32	15.238		
13,600.0	7,114.4	7,170.2	7,101.5	125.8	18.1	-89.92	-4,832.6	1,360.7	2,166.6	2,025.0	141.65	15.296		
13,681.1	7,114.2	7,170.9	7,102.2	127.3	18.1	-89.94	-4,832.6	1,360.8	2,229.1	2,086.0	143.19	15.567		
13,700.0	7,114.2	7,171.0	7,102.4	127.7	18.1	-89.95	-4,832.6	1,360.8	2,243.9	2,100.3	143.55	15.631		
13,779.5	7,114.0	7,171.7	7,103.0	129.2	18.1	-89.98	-4,832.6	1,360.8	2,306.6	2,161.5	145.07	15.900		
13,800.0	7,113.9	7,171.9	7,103.2	129.6	18.1	-89.98	-4,832.6	1,360.8	2,322.9	2,177.4	145.46	15.969		
13,877.9	7,113.8	7,172.5	7,103.8	131.1	18.2	-90.01	-4,832.6	1,360.8	2,385.5	2,238.6	146.95	16.234		
13,900.0	7,113.7	7,172.7	7,104.0	131.5	18.2	-90.02	-4,832.6	1,360.8	2,403.4	2,256.1	147.37	16.309		
13,976.3	7,113.5	7,173.3	7,104.6	132.9	18.2	-90.04	-4,832.7	1,360.8	2,465.9	2,317.1	148.82	16.569		
14,000.0	7,113.5	7,173.5	7,104.8	133.4	18.2	-90.05	-4,832.7	1,360.8	2,485.4	2,336.1	149.28	16.650		
14,074.8	7,113.3	7,174.1	7,105.4	134.8	18.2	-90.08	-4,832.7	1,360.8	2,547.5	2,396.8	150.70	16.904		
14,100.0	7,113.3	7,174.3	7,105.6	135.3	18.2	-90.08	-4,832.7	1,360.8	2,568.7	2,417.5	151.18	16.990		
14,173.2	7,113.1	7,174.9	7,106.2	136.7	18.2	-90.11	-4,832.7	1,360.8	2,630.3	2,477.8	152.58	17.239		
14,200.0	7,113.0	7,175.1	7,106.4	137.2	18.2	-90.12	-4,832.7	1,360.8	2,653.1	2,500.0	153.09	17.330		
14,219.1	7,113.0	7,175.2	7,106.6	137.6	18.2	-90.12	-4,832.7	1,360.8	2,669.3	2,515.9	153.46	17.395		

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

## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 134-MWD												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	170.38	-5,114.8	867.3	5,187.9				
98.4	98.4	134.0	134.0	0.1	0.1	170.38	-5,114.1	866.6	5,187.3	5,187.1	0.18	N/A	
100.0	100.0	134.0	134.0	0.1	0.1	170.38	-5,114.1	866.6	5,187.2	5,187.1	0.18	N/A	
196.8	196.8	188.3	188.3	0.3	0.2	170.39	-5,113.8	866.2	5,186.7	5,186.1	0.51	N/A	
200.0	200.0	189.8	189.8	0.3	0.2	170.39	-5,113.8	866.2	5,186.7	5,186.1	0.52	N/A	
208.3	208.3	193.8	193.8	0.3	0.2	170.39	-5,113.8	866.2	5,186.6	5,186.1	0.54	9,524.002	
295.3	295.3	243.0	243.0	0.5	0.3	170.39	-5,114.0	866.3	5,187.0	5,186.2	0.84	6,169.156	
300.0	300.0	246.9	246.9	0.5	0.3	170.39	-5,114.1	866.3	5,187.0	5,186.2	0.86	6,034.703	
393.7	393.7	316.0	316.0	0.8	0.5	170.38	-5,114.6	866.5	5,187.9	5,186.7	1.22	4,267.409	
400.0	400.0	316.0	316.0	0.8	0.5	170.38	-5,114.6	866.5	5,188.0	5,186.8	1.23	4,218.341	
492.1	492.1	396.4	396.4	1.0	0.6	170.38	-5,115.6	867.3	5,189.2	5,187.6	1.61	3,225.575	
500.0	500.0	402.3	402.3	1.0	0.6	170.38	-5,115.6	867.4	5,189.3	5,187.7	1.64	3,166.029	
590.5	590.5	444.0	444.0	1.2	0.7	170.37	-5,116.2	868.4	5,191.1	5,189.1	1.93	2,687.200	
600.0	600.0	471.5	471.5	1.2	0.8	170.36	-5,116.6	869.3	5,191.2	5,189.2	2.01	2,577.255	
689.0	689.0	526.9	526.8	1.4	0.9	170.33	-5,117.6	871.7	5,193.4	5,191.1	2.34	2,221.994	
700.0	700.0	533.7	533.6	1.4	0.9	170.33	-5,117.8	872.1	5,193.8	5,191.4	2.38	2,184.747	
787.4	787.4	572.0	571.8	1.6	1.0	170.31	-5,118.6	874.3	5,196.6	5,194.0	2.66	1,954.627	
800.0	800.0	595.4	595.2	1.7	1.1	170.29	-5,119.2	875.8	5,197.1	5,194.3	2.74	1,894.540	
885.8	885.8	661.0	660.5	1.9	1.2	170.24	-5,121.0	880.8	5,200.5	5,197.4	3.09	1,681.245	
900.0	900.0	661.0	660.5	1.9	1.2	170.24	-5,121.0	880.8	5,201.1	5,198.0	3.13	1,664.295	
984.2	984.2	725.0	724.2	2.1	1.4	170.18	-5,123.0	886.5	5,204.9	5,201.4	3.47	1,497.986	
1,000.0	1,000.0	725.0	724.2	2.1	1.4	170.18	-5,123.0	886.5	5,205.7	5,202.2	3.51	1,483.096	
1,082.7	1,082.7	795.7	794.4	2.3	1.6	170.10	-5,125.1	894.6	5,209.8	5,205.9	3.90	1,337.146	
1,100.0	1,100.0	807.2	805.8	2.3	1.6	170.08	-5,125.4	896.2	5,210.7	5,206.7	3.97	1,313.265	
1,181.1	1,181.1	1,070.6	1,064.1	2.5	2.6	169.53	-5,126.4	947.2	5,214.1	5,209.0	5.10	1,022.882	
1,200.0	1,200.0	1,104.3	1,096.7	2.6	2.7	169.44	-5,125.4	955.5	5,214.5	5,209.2	5.28	987.079	
1,279.5	1,279.5	1,239.0	1,225.9	2.7	3.4	169.02	-5,119.0	993.1	5,214.6	5,208.5	6.16	846.036	
1,300.0	1,300.0	1,239.0	1,225.9	2.8	3.4	169.02	-5,119.0	993.1	5,214.8	5,208.6	6.21	839.797	
1,377.9	1,377.9	1,307.2	1,290.6	3.0	3.8	173.07	-5,115.2	1,014.1	5,216.3	5,209.6	6.75	772.802	
1,400.0	1,400.0	1,316.1	1,299.1	3.0	3.9	173.03	-5,114.8	1,016.9	5,217.3	5,210.5	6.85	761.790	
1,476.4	1,476.3	1,367.0	1,347.4	3.2	4.2	172.85	-5,112.8	1,032.8	5,222.7	5,215.4	7.30	715.217	
1,500.0	1,499.8	1,367.0	1,347.4	3.2	4.2	172.84	-5,112.8	1,032.8	5,224.8	5,217.4	7.35	710.677	
1,574.8	1,574.4	1,413.7	1,391.6	3.4	4.5	172.66	-5,111.1	1,047.9	5,233.2	5,225.4	7.81	670.083	
1,600.0	1,599.5	1,437.5	1,414.0	3.5	4.6	172.56	-5,110.2	1,056.0	5,236.5	5,228.5	8.01	653.586	
1,673.2	1,672.2	1,665.2	1,625.3	3.6	6.2	171.64	-5,096.6	1,139.4	5,246.5	5,236.8	9.71	540.202	
1,700.0	1,698.7	1,684.9	1,643.6	3.7	6.3	171.56	-5,095.1	1,146.6	5,250.3	5,240.4	9.89	530.639	
1,771.6	1,769.5	1,737.7	1,692.7	3.9	6.7	171.32	-5,091.3	1,165.8	5,261.7	5,251.3	10.38	506.945	
1,800.0	1,797.5	1,763.0	1,716.2	4.0	6.9	171.21	-5,089.5	1,174.9	5,266.8	5,256.2	10.60	496.772	
1,870.1	1,866.3	1,848.7	1,795.7	4.2	7.5	170.83	-5,083.2	1,206.2	5,280.4	5,269.1	11.32	466.362	
1,900.1	1,895.8	1,885.4	1,829.7	4.3	7.7	170.67	-5,080.3	1,219.8	5,286.8	5,275.1	11.63	454.590	
1,968.5	1,962.6	1,971.9	1,909.6	4.5	8.4	170.34	-5,073.2	1,252.0	5,301.4	5,288.9	12.42	426.761	
2,000.0	1,993.4	2,009.0	1,944.0	4.6	8.7	170.20	-5,070.1	1,265.7	5,308.0	5,295.3	12.77	415.731	
2,066.9	2,058.9	2,043.7	1,976.1	4.8	8.9	170.06	-5,067.2	1,278.5	5,322.4	5,309.2	13.18	403.739	
2,100.0	2,091.3	2,060.2	1,991.4	4.9	9.0	170.00	-5,065.9	1,284.7	5,329.6	5,316.2	13.38	398.355	
2,165.3	2,155.2	2,092.8	2,021.5	5.1	9.3	169.87	-5,063.5	1,296.9	5,344.2	5,330.5	13.77	388.031	
2,200.0	2,189.1	2,138.0	2,063.3	5.3	9.6	169.70	-5,060.3	1,313.9	5,352.3	5,338.1	14.19	377.311	
2,263.8	2,251.4	2,145.2	2,069.9	5.5	9.7	169.68	-5,059.8	1,316.6	5,367.0	5,352.6	14.40	372.833	
2,300.0	2,286.9	2,179.5	2,101.6	5.6	9.9	169.55	-5,057.6	1,329.4	5,375.5	5,360.8	14.73	364.977	
2,362.2	2,347.7	2,238.5	2,156.3	5.9	10.4	169.33	-5,053.7	1,351.4	5,390.2	5,374.9	15.30	352.240	
2,400.0	2,384.7	2,310.4	2,223.0	6.0	10.9	169.06	-5,048.9	1,377.8	5,399.1	5,383.2	15.91	339.420	
2,460.6	2,444.0	2,421.8	2,326.3	6.3	11.7	168.65	-5,040.0	1,418.6	5,412.6	5,395.8	16.85	321.318	
2,500.0	2,482.5	2,446.9	2,349.6	6.4	11.9	168.56	-5,038.1	1,427.6	5,421.4	5,404.3	17.12	316.698	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 134-MWD												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	
2,559.0	2,540.3	2,484.6	2,384.8	6.6	12.1	168.43	-5,035.3	1,440.8	5,434.9	5,417.3	17.53	310.013	
2,600.0	2,580.3	2,523.0	2,420.7	6.8	12.4	168.30	-5,032.6	1,454.1	5,444.3	5,426.4	17.90	304.123	
2,617.6	2,597.5	2,523.0	2,420.7	6.9	12.4	168.30	-5,032.6	1,454.1	5,448.4	5,430.4	17.95	303.577	
2,657.5	2,636.6	2,550.0	2,446.0	7.0	12.6	168.25	-5,030.8	1,463.3	5,457.5	5,439.2	18.26	298.796	
2,700.0	2,678.4	2,579.6	2,473.8	7.2	12.8	168.19	-5,028.9	1,473.6	5,466.7	5,448.0	18.61	293.791	
2,755.9	2,733.5	2,618.6	2,510.2	7.3	13.1	168.10	-5,026.4	1,487.2	5,478.0	5,458.9	19.04	287.767	
2,800.0	2,777.0	2,651.0	2,540.4	7.4	13.3	168.03	-5,024.4	1,498.7	5,486.3	5,466.9	19.38	283.057	
2,854.3	2,830.9	2,811.7	2,689.3	7.6	14.5	167.47	-5,011.4	1,557.5	5,494.6	5,473.9	20.73	265.075	
2,900.0	2,876.2	2,838.1	2,713.7	7.7	14.7	167.40	-5,009.1	1,567.5	5,501.1	5,480.0	21.05	261.318	
2,952.7	2,928.7	2,868.6	2,741.9	7.8	15.0	167.31	-5,006.4	1,579.0	5,507.8	5,486.4	21.42	257.185	
3,000.0	2,975.8	2,908.0	2,778.2	7.9	15.3	167.19	-5,003.2	1,593.9	5,513.3	5,491.5	21.83	252.558	
3,051.2	3,026.8	2,936.2	2,804.1	8.0	15.5	167.10	-5,000.9	1,604.6	5,518.5	5,496.3	22.15	249.094	
3,100.0	3,075.6	2,981.6	2,845.9	8.1	15.9	166.94	-4,997.2	1,621.9	5,522.7	5,500.1	22.60	244.388	
3,149.6	3,125.2	3,027.7	2,888.5	8.2	16.2	166.77	-4,993.5	1,639.4	5,526.2	5,503.2	23.04	239.850	
3,200.0	3,175.6	3,075.9	2,932.9	8.3	16.6	166.60	-4,989.6	1,657.6	5,529.0	5,505.5	23.49	235.415	
3,217.7	3,193.3	3,092.9	2,948.6	8.3	16.7	162.25	-4,988.3	1,664.0	5,529.8	5,506.2	23.64	233.951	
3,248.0	3,223.6	3,122.1	2,975.6	8.4	16.9	162.13	-4,986.0	1,674.9	5,531.1	5,507.2	23.91	231.326	
3,300.0	3,275.6	3,165.0	3,015.3	8.5	17.2	161.96	-4,982.6	1,690.9	5,533.3	5,509.0	24.33	227.453	
3,346.4	3,322.0	3,205.5	3,052.7	8.6	17.5	161.81	-4,979.4	1,705.9	5,535.4	5,510.7	24.72	223.918	
3,400.0	3,375.6	3,245.7	3,090.0	8.7	17.8	161.65	-4,976.4	1,720.7	5,537.9	5,512.8	25.13	220.398	
3,444.9	3,420.4	3,279.5	3,121.4	8.7	18.1	161.52	-4,973.9	1,733.1	5,540.2	5,514.7	25.47	217.534	
3,500.0	3,475.6	3,326.1	3,164.6	8.8	18.4	161.34	-4,970.6	1,750.1	5,543.1	5,517.2	25.93	213.792	
3,543.3	3,518.9	3,364.6	3,200.3	8.9	18.7	161.20	-4,967.9	1,764.2	5,545.4	5,519.1	26.30	210.830	
3,600.0	3,575.6	3,414.9	3,246.9	9.0	19.1	161.00	-4,964.3	1,782.8	5,548.6	5,521.8	26.79	207.089	
3,641.7	3,617.3	3,550.0	3,372.9	9.1	20.1	160.50	-4,954.2	1,830.5	5,550.7	5,522.8	27.83	199.426	
3,700.0	3,675.6	3,550.0	3,372.9	9.2	20.1	160.50	-4,954.2	1,830.5	5,553.4	5,525.4	27.96	198.637	
3,740.1	3,715.7	3,550.0	3,372.9	9.3	20.1	160.50	-4,954.2	1,830.5	5,555.6	5,527.6	28.04	198.109	
3,800.0	3,775.6	3,602.9	3,422.6	9.4	20.4	160.32	-4,950.6	1,848.3	5,558.8	5,530.2	28.52	194.891	
3,838.6	3,814.1	3,615.7	3,434.6	9.5	20.5	160.27	-4,949.8	1,852.6	5,561.2	5,532.5	28.69	193.840	
3,900.0	3,875.6	3,636.0	3,453.7	9.6	20.7	160.20	-4,948.8	1,859.5	5,565.5	5,536.5	28.96	192.205	
3,937.0	3,912.6	3,678.0	3,493.1	9.7	21.0	160.06	-4,947.0	1,873.9	5,568.5	5,539.2	29.31	189.964	
4,000.0	3,975.6	3,678.0	3,493.1	9.8	21.0	160.06	-4,947.0	1,873.9	5,573.4	5,544.0	29.45	189.260	
4,035.4	4,011.0	3,774.3	3,583.3	9.9	21.6	159.72	-4,942.5	1,907.4	5,576.4	5,546.3	30.18	184.766	
4,100.0	4,075.6	3,903.9	3,704.5	10.0	22.6	159.25	-4,934.5	1,952.5	5,580.8	5,549.6	31.19	178.901	
4,133.8	4,109.4	3,970.3	3,766.9	10.0	23.0	159.02	-4,930.1	1,974.8	5,582.9	5,551.2	31.70	176.105	
4,200.0	4,175.6	4,064.0	3,855.3	10.2	23.6	158.71	-4,923.5	2,005.1	5,586.4	5,553.9	32.44	172.198	
4,232.3	4,207.8	4,064.0	3,855.3	10.2	23.6	158.71	-4,923.5	2,005.1	5,588.2	5,555.7	32.51	171.886	
4,300.0	4,275.6	4,115.8	3,904.2	10.4	24.0	158.53	-4,919.9	2,022.0	5,592.2	5,559.2	33.00	169.468	
4,330.7	4,306.3	4,128.1	3,915.7	10.4	24.1	158.49	-4,919.1	2,026.1	5,594.2	5,561.0	33.15	168.777	
4,400.0	4,375.6	4,192.0	3,975.5	10.6	24.5	158.26	-4,915.2	2,048.3	5,599.4	5,565.7	33.71	166.082	
4,429.1	4,404.7	4,192.0	3,975.5	10.6	24.5	158.26	-4,915.2	2,048.3	5,601.5	5,567.7	33.78	165.834	
4,500.0	4,475.6	4,198.9	3,981.9	10.8	24.6	158.24	-4,914.8	2,050.8	5,607.2	5,573.2	33.98	165.018	
4,527.5	4,503.1	4,222.8	4,004.2	10.8	24.7	158.15	-4,913.4	2,059.3	5,609.5	5,575.3	34.21	163.990	
4,600.0	4,575.6	4,285.7	4,062.7	11.0	25.2	157.92	-4,909.9	2,082.0	5,615.9	5,581.1	34.80	161.364	
4,626.0	4,601.5	4,308.1	4,083.7	11.0	25.4	157.84	-4,908.6	2,090.1	5,618.2	5,583.2	35.02	160.448	
4,700.0	4,675.6	4,352.6	4,125.0	11.2	25.7	157.68	-4,906.1	2,106.3	5,625.0	5,589.5	35.48	158.520	
4,724.4	4,700.0	4,365.8	4,137.3	11.2	25.8	157.63	-4,905.4	2,111.1	5,627.4	5,591.7	35.63	157.944	
4,800.0	4,775.6	4,406.8	4,175.5	11.4	26.1	157.48	-4,903.5	2,125.9	5,635.0	5,598.9	36.08	156.197	
4,822.8	4,798.4	4,419.2	4,187.0	11.4	26.2	157.44	-4,902.9	2,130.4	5,637.4	5,601.2	36.21	155.680	
4,900.0	4,875.6	4,465.8	4,230.5	11.6	26.5	157.27	-4,901.1	2,147.2	5,645.8	5,609.1	36.70	153.828	
4,921.2	4,896.8	4,481.8	4,245.4	11.6	26.7	157.21	-4,900.5	2,153.0	5,648.2	5,611.3	36.86	153.236	
5,000.0	4,975.6	4,540.9	4,300.2	11.8	27.1	157.00	-4,898.2	2,174.7	5,657.2	5,619.8	37.44	151.098	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 134-MWD												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	
5,019.7	4,995.2	4,555.6	4,313.9	11.8	27.2	156.95	-4,897.6	2,180.1	5,659.5	5,621.9	37.59	150.578	
5,100.0	5,075.6	4,613.6	4,367.6	12.0	27.6	156.74	-4,895.4	2,201.8	5,669.2	5,631.0	38.16	148.560	
5,118.1	5,093.7	4,626.5	4,379.6	12.0	27.7	156.69	-4,895.0	2,206.6	5,671.4	5,633.1	38.29	148.121	
5,200.0	5,175.6	4,998.9	4,732.0	12.2	30.1	155.53	-4,881.4	2,325.4	5,680.0	5,639.3	40.66	139.685	
5,216.5	5,192.1	5,018.8	4,751.3	12.2	30.2	155.49	-4,880.8	2,330.1	5,681.2	5,640.4	40.78	139.298	
5,300.0	5,275.6	5,320.0	5,046.0	12.4	31.5	154.89	-4,871.0	2,390.6	5,685.8	5,643.7	42.12	135.003	
5,314.9	5,290.5	5,341.7	5,067.4	12.4	31.5	154.85	-4,870.2	2,394.2	5,686.3	5,644.1	42.22	134.673	
5,400.0	5,375.6	5,418.9	5,143.7	12.6	31.8	154.74	-4,867.8	2,406.0	5,689.5	5,646.9	42.63	133.466	
5,413.4	5,388.9	5,430.8	5,155.4	12.6	31.8	154.72	-4,867.6	2,407.6	5,690.0	5,647.3	42.69	133.283	
5,500.0	5,475.6	5,733.0	5,456.6	12.8	32.4	154.49	-4,863.5	2,430.5	5,691.9	5,648.5	43.45	131.002	
5,511.8	5,487.4	5,764.2	5,487.8	12.8	32.5	154.48	-4,863.0	2,431.3	5,691.8	5,648.3	43.51	130.822	
5,550.9	5,526.5	5,788.4	5,512.0	12.9	32.5	154.48	-4,862.7	2,431.8	5,691.8	5,648.2	43.62	130.488	
5,600.0	5,575.6	5,818.7	5,542.3	13.0	32.5	154.47	-4,862.5	2,432.4	5,691.9	5,648.1	43.76	130.073	
5,610.2	5,585.8	5,825.0	5,548.6	13.0	32.5	154.47	-4,862.4	2,432.5	5,691.9	5,648.1	43.79	129.987	
5,700.0	5,675.6	5,885.8	5,609.4	13.2	32.6	154.46	-4,862.5	2,433.4	5,692.5	5,648.5	44.05	129.236	
5,708.6	5,684.2	5,892.6	5,616.2	13.2	32.6	154.46	-4,862.5	2,433.5	5,692.6	5,648.5	44.07	129.163	
5,800.0	5,775.6	5,964.8	5,688.4	13.4	32.7	154.45	-4,862.8	2,434.7	5,693.6	5,649.3	44.34	128.403	
5,807.1	5,782.6	5,970.4	5,694.0	13.4	32.7	154.45	-4,862.9	2,434.8	5,693.7	5,649.3	44.36	128.344	
5,900.0	5,875.6	6,050.0	5,773.6	13.6	32.7	154.44	-4,863.5	2,436.1	5,695.0	5,650.4	44.64	127.576	
5,905.5	5,881.1	6,054.8	5,778.4	13.6	32.7	154.44	-4,863.5	2,436.2	5,695.1	5,650.5	44.66	127.531	
6,000.0	5,975.6	6,144.3	5,867.8	13.8	32.8	154.44	-4,864.6	2,437.3	5,696.7	5,651.7	44.95	126.745	
6,003.9	5,979.5	6,148.8	5,872.4	13.8	32.8	154.44	-4,864.7	2,437.3	5,696.7	5,651.8	44.96	126.711	
6,100.0	6,075.6	6,255.0	5,978.6	14.0	32.9	154.43	-4,865.7	2,438.9	5,698.2	5,652.9	45.27	125.877	
6,102.3	6,077.9	6,257.3	5,980.8	14.0	32.9	154.43	-4,865.7	2,439.0	5,698.2	5,652.9	45.27	125.858	
6,200.0	6,175.6	6,350.2	6,073.7	14.2	33.0	154.42	-4,866.7	2,440.2	5,699.7	5,654.1	45.58	125.060	
6,200.8	6,176.3	6,351.0	6,074.5	14.2	33.0	154.42	-4,866.7	2,440.3	5,699.7	5,654.1	45.58	125.053	
6,299.2	6,274.8	6,503.0	6,226.5	14.4	33.2	154.41	-4,867.9	2,441.6	5,700.8	5,654.9	45.93	124.116	
6,300.0	6,275.6	6,503.0	6,226.5	14.4	33.2	154.41	-4,867.9	2,441.6	5,700.8	5,654.9	45.93	124.111	
6,397.6	6,373.2	6,582.7	6,306.2	14.7	33.2	154.41	-4,868.2	2,442.3	5,701.5	5,655.3	46.22	123.353	
6,400.0	6,375.6	6,584.6	6,308.1	14.7	33.2	154.41	-4,868.3	2,442.3	5,701.6	5,655.3	46.23	123.335	
6,436.2	6,411.8	6,613.2	6,336.7	14.7	33.3	154.41	-4,868.5	2,442.5	5,701.9	5,655.6	46.33	123.060	
6,450.0	6,425.6	6,632.0	6,355.5	14.8	33.3	-25.80	-4,868.6	2,442.7	5,702.0	5,655.6	46.40	122.890	
6,496.0	6,471.5	6,678.2	6,401.7	14.8	33.3	-25.88	-4,869.0	2,443.0	5,700.3	5,653.9	46.40	122.862	
6,500.0	6,475.5	6,683.3	6,406.8	14.8	33.3	-25.89	-4,869.0	2,443.1	5,700.1	5,653.7	46.39	122.874	
6,550.0	6,525.1	6,747.3	6,470.8	14.9	33.4	-26.10	-4,869.5	2,443.3	5,694.9	5,648.7	46.20	123.271	
6,594.5	6,568.7	6,799.9	6,523.4	14.9	33.4	-26.41	-4,869.8	2,443.3	5,687.6	5,641.8	45.87	124.000	
6,600.0	6,574.1	6,806.2	6,529.7	14.9	33.4	-26.45	-4,869.9	2,443.4	5,686.5	5,640.7	45.82	124.114	
6,650.0	6,622.4	6,863.1	6,586.6	14.9	33.5	-26.95	-4,870.0	2,443.7	5,675.0	5,629.8	45.26	125.397	
6,692.9	6,663.0	6,912.2	6,635.7	14.9	33.5	-27.50	-4,870.0	2,444.1	5,662.7	5,618.1	44.65	126.838	
6,700.0	6,669.6	6,920.5	6,644.0	14.9	33.5	-27.60	-4,870.0	2,444.1	5,660.5	5,615.9	44.53	127.106	
6,750.0	6,715.6	6,977.7	6,701.2	14.9	33.6	-28.43	-4,869.8	2,444.6	5,642.9	5,599.2	43.66	129.237	
6,791.3	6,752.5	7,021.2	6,744.7	14.9	33.6	-29.24	-4,869.6	2,444.9	5,626.2	5,583.3	42.84	131.321	
6,800.0	6,760.1	7,027.3	6,750.8	14.9	33.7	-29.42	-4,869.6	2,445.0	5,622.4	5,579.8	42.66	131.801	
6,850.0	6,802.9	7,062.5	6,785.9	14.9	33.7	-30.58	-4,869.4	2,445.2	5,599.3	5,557.7	41.54	134.792	
6,889.7	6,835.6	7,089.6	6,813.1	14.9	33.7	-31.65	-4,869.3	2,445.5	5,579.0	5,538.4	40.60	137.419	
6,900.0	6,843.8	7,096.4	6,819.9	14.9	33.7	-31.95	-4,869.3	2,445.6	5,573.6	5,533.2	40.35	138.129	
6,950.0	6,882.6	7,128.6	6,852.1	14.9	33.8	-33.56	-4,869.2	2,446.0	5,545.5	5,506.3	39.13	141.728	
6,988.2	6,910.7	7,153.7	6,877.2	15.0	33.8	-34.99	-4,869.1	2,446.3	5,522.5	5,484.3	38.20	144.556	
7,000.0	6,919.1	7,162.4	6,885.9	15.0	33.8	-35.47	-4,869.1	2,446.4	5,515.1	5,477.1	37.92	145.431	
7,050.0	6,953.1	7,197.7	6,921.1	15.0	33.8	-37.74	-4,869.0	2,446.8	5,482.5	5,445.7	36.79	149.013	
7,086.6	6,976.4	7,221.8	6,945.3	15.1	33.9	-39.63	-4,869.0	2,447.1	5,457.4	5,421.4	36.05	151.392	
7,100.0	6,984.5	7,230.2	6,953.7	15.1	33.9	-40.38	-4,869.0	2,447.2	5,448.0	5,412.2	35.80	152.193	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 134-MWD													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		
7,150.0	7,013.1	7,259.9	6,983.4	15.3	33.9	-43.47	-4,868.9	2,447.5	5,411.6	5,376.6	35.00	154.605		
7,185.0	7,031.4	7,278.6	7,002.0	15.4	33.9	-45.92	-4,868.9	2,447.7	5,385.1	5,350.5	34.60	155.622		
7,200.0	7,038.8	7,285.7	7,009.2	15.4	33.9	-47.05	-4,868.9	2,447.7	5,373.6	5,339.1	34.47	155.882		
7,250.0	7,061.4	7,307.6	7,031.0	15.6	33.9	-51.18	-4,868.8	2,448.0	5,334.2	5,299.9	34.25	155.739		
7,283.4	7,074.8	7,320.5	7,043.9	15.8	34.0	-54.29	-4,868.8	2,448.1	5,307.1	5,272.9	34.29	154.783		
7,300.0	7,080.9	7,326.3	7,049.8	15.9	34.0	-55.93	-4,868.8	2,448.2	5,293.6	5,259.2	34.35	154.100		
7,350.0	7,097.1	7,341.8	7,065.3	16.2	34.0	-61.32	-4,868.7	2,448.4	5,251.9	5,217.2	34.74	151.199		
7,381.9	7,105.7	7,350.0	7,073.5	16.4	34.0	-65.08	-4,868.7	2,448.5	5,224.9	5,189.8	35.09	148.905		
7,400.0	7,109.9	7,354.0	7,077.5	16.6	34.0	-67.33	-4,868.7	2,448.6	5,209.5	5,174.2	35.30	147.566		
7,450.0	7,119.4	7,363.0	7,086.4	17.0	34.0	-73.89	-4,868.6	2,448.7	5,166.4	5,130.5	35.90	143.893		
7,480.3	7,123.4	7,366.7	7,090.2	17.2	34.0	-78.07	-4,868.6	2,448.7	5,140.1	5,103.9	36.22	141.909		
7,500.0	7,125.4	7,368.5	7,092.0	17.4	34.0	-80.84	-4,868.6	2,448.8	5,123.0	5,086.6	36.38	140.821		
7,550.0	7,127.9	7,370.7	7,094.2	17.9	34.0	-87.96	-4,868.6	2,448.8	5,079.4	5,042.8	36.61	138.757		
7,562.9	7,128.0	7,370.8	7,094.2	18.0	34.0	-89.79	-4,868.6	2,448.8	5,068.2	5,031.6	36.62	138.405		
7,578.7	7,128.0	7,370.7	7,094.1	18.2	34.0	-89.78	-4,868.6	2,448.8	5,054.4	5,017.6	36.78	137.417		
7,600.0	7,127.9	7,370.5	7,094.0	18.4	34.0	-89.78	-4,868.6	2,448.8	5,035.9	4,998.9	37.00	136.106		
7,677.1	7,127.7	7,370.0	7,093.5	19.2	34.0	-89.77	-4,868.6	2,448.8	4,969.0	4,931.1	37.86	131.235		
7,700.0	7,127.7	7,369.9	7,093.3	19.5	34.0	-89.77	-4,868.6	2,448.8	4,949.2	4,911.1	38.12	129.836		
7,775.6	7,127.5	7,369.4	7,092.8	20.3	34.0	-89.75	-4,868.6	2,448.8	4,884.0	4,845.1	38.92	125.496		
7,800.0	7,127.5	7,369.2	7,092.7	20.5	34.0	-89.75	-4,868.6	2,448.8	4,863.0	4,823.9	39.18	124.133		
7,874.0	7,127.3	7,368.7	7,092.2	21.4	34.0	-89.74	-4,868.6	2,448.8	4,799.6	4,759.6	40.03	119.887		
7,900.0	7,127.2	7,368.6	7,092.0	21.7	34.0	-89.74	-4,868.6	2,448.8	4,777.4	4,737.0	40.34	118.440		
7,972.4	7,127.1	7,368.1	7,091.6	22.7	34.0	-89.73	-4,868.6	2,448.8	4,715.7	4,674.4	41.35	114.041		
8,000.0	7,127.0	7,367.9	7,091.4	23.1	34.0	-89.72	-4,868.6	2,448.8	4,692.3	4,650.6	41.74	112.425		
8,070.8	7,126.8	7,367.5	7,090.9	24.2	34.0	-89.71	-4,868.6	2,448.8	4,632.4	4,589.6	42.78	108.284		
8,100.0	7,126.8	7,367.3	7,090.7	24.6	34.0	-89.71	-4,868.6	2,448.8	4,607.8	4,564.6	43.21	106.641		
8,169.3	7,126.6	7,366.8	7,090.3	25.6	34.0	-89.70	-4,868.6	2,448.7	4,549.7	4,505.4	44.27	102.774		
8,200.0	7,126.6	7,366.6	7,090.1	26.1	34.0	-89.69	-4,868.6	2,448.7	4,524.0	4,479.2	44.74	101.120		
8,267.7	7,126.4	7,366.2	7,089.7	27.2	34.0	-89.68	-4,868.6	2,448.7	4,467.6	4,421.8	45.81	97.530		
8,300.0	7,126.3	7,366.0	7,089.5	27.7	34.0	-89.68	-4,868.6	2,448.7	4,440.8	4,394.5	46.32	95.878		
8,366.1	7,126.2	7,365.6	7,089.0	28.8	34.0	-89.67	-4,868.6	2,448.7	4,386.2	4,338.8	47.39	92.560		
8,400.0	7,126.1	7,365.4	7,088.8	29.3	34.0	-89.66	-4,868.6	2,448.7	4,358.3	4,310.4	47.94	90.919		
8,464.5	7,126.0	7,365.0	7,088.4	30.4	34.0	-89.65	-4,868.6	2,448.7	4,305.5	4,256.5	49.00	87.861		
8,500.0	7,125.9	7,364.7	7,088.2	31.0	34.0	-89.65	-4,868.6	2,448.7	4,276.6	4,227.0	49.59	86.240		
8,563.0	7,125.7	7,364.3	7,087.8	32.0	34.0	-89.64	-4,868.6	2,448.7	4,225.5	4,174.9	50.65	83.428		
8,600.0	7,125.6	7,364.1	7,087.6	32.6	34.0	-89.63	-4,868.6	2,448.7	4,195.7	4,144.4	51.27	81.831		
8,661.4	7,125.5	7,363.7	7,087.2	33.7	34.0	-89.62	-4,868.6	2,448.7	4,146.4	4,094.1	52.32	79.250		
8,700.0	7,125.4	7,363.5	7,087.0	34.4	34.0	-89.62	-4,868.6	2,448.7	4,115.6	4,062.6	52.98	77.682		
8,759.8	7,125.3	7,363.1	7,086.6	35.4	34.0	-89.61	-4,868.6	2,448.7	4,068.1	4,014.1	54.01	75.315		
8,800.0	7,125.2	7,362.9	7,086.4	36.1	34.0	-89.61	-4,868.6	2,448.7	4,036.4	3,981.7	54.71	73.780		
8,858.2	7,125.1	7,362.5	7,086.0	37.1	34.0	-89.60	-4,868.6	2,448.7	3,990.7	3,934.9	55.73	71.612		
8,900.0	7,125.0	7,362.3	7,085.7	37.8	34.0	-89.59	-4,868.6	2,448.7	3,958.1	3,901.7	56.46	70.110		
8,956.7	7,124.8	7,361.9	7,085.4	38.8	34.0	-89.58	-4,868.6	2,448.7	3,914.2	3,856.7	57.46	68.126		
9,000.0	7,124.7	7,361.7	7,085.1	39.6	34.0	-89.58	-4,868.6	2,448.7	3,880.9	3,822.6	58.22	66.660		
9,055.1	7,124.6	7,361.3	7,084.8	40.6	34.0	-89.57	-4,868.6	2,448.7	3,838.7	3,779.5	59.20	64.845		
9,100.0	7,124.5	7,361.1	7,084.5	41.4	34.0	-89.56	-4,868.6	2,448.7	3,804.6	3,744.7	60.00	63.415		
9,153.5	7,124.4	7,360.7	7,084.2	42.3	34.0	-89.56	-4,868.6	2,448.7	3,764.3	3,703.4	60.95	61.757		
9,200.0	7,124.3	7,360.5	7,083.9	43.2	34.0	-89.55	-4,868.6	2,448.6	3,729.6	3,667.8	61.79	60.363		
9,251.9	7,124.2	7,360.2	7,083.6	44.1	34.0	-89.54	-4,868.6	2,448.6	3,691.0	3,628.3	62.72	58.849		
9,300.0	7,124.1	7,359.9	7,083.3	45.0	34.0	-89.54	-4,868.6	2,448.6	3,655.7	3,592.1	63.59	57.492		
9,350.4	7,123.9	7,359.6	7,083.0	45.9	34.0	-89.53	-4,868.6	2,448.6	3,618.9	3,554.4	64.50	56.110		
9,400.0	7,123.8	7,359.3	7,082.7	46.8	34.0	-89.52	-4,868.6	2,448.6	3,583.1	3,517.7	65.39	54.791		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 134-MWD												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	
9,448.8	7,123.7	7,359.0	7,082.5	47.7	34.0	-89.52	-4,868.6	2,448.6	3,548.1	3,481.8	66.28	53.530	
9,500.0	7,123.6	7,358.7	7,082.2	48.6	34.0	-89.51	-4,868.6	2,448.6	3,511.8	3,444.6	67.21	52.249	
9,547.2	7,123.5	7,358.4	7,081.9	49.4	34.0	-89.50	-4,868.6	2,448.6	3,478.6	3,410.5	68.08	51.100	
9,600.0	7,123.4	7,358.1	7,081.6	50.4	34.0	-89.49	-4,868.6	2,448.6	3,441.9	3,372.9	69.04	49.855	
9,645.6	7,123.3	7,357.8	7,081.3	51.2	34.0	-89.49	-4,868.7	2,448.6	3,410.6	3,340.7	69.87	48.810	
9,700.0	7,123.2	7,357.5	7,081.0	52.2	34.0	-89.48	-4,868.7	2,448.6	3,373.6	3,302.7	70.87	47.602	
9,744.1	7,123.1	7,357.3	7,080.7	53.1	34.0	-89.48	-4,868.7	2,448.6	3,344.0	3,272.3	71.68	46.651	
9,800.0	7,122.9	7,356.9	7,080.4	54.1	34.0	-89.47	-4,868.7	2,448.6	3,306.9	3,234.2	72.71	45.481	
9,842.5	7,122.8	7,356.7	7,080.2	54.9	34.0	-89.46	-4,868.7	2,448.6	3,279.1	3,205.6	73.49	44.618	
9,900.0	7,122.7	7,356.4	7,079.8	55.9	34.0	-89.45	-4,868.7	2,448.6	3,241.9	3,167.3	74.55	43.485	
9,940.9	7,122.6	7,356.1	7,079.6	56.7	34.0	-89.45	-4,868.7	2,448.6	3,215.8	3,140.5	75.31	42.701	
10,000.0	7,122.5	7,355.8	7,079.3	57.8	34.0	-89.44	-4,868.7	2,448.6	3,178.7	3,102.3	76.40	41.606	
10,039.3	7,122.4	7,355.6	7,079.0	58.5	34.0	-89.44	-4,868.7	2,448.6	3,154.4	3,077.2	77.13	40.897	
10,100.0	7,122.3	7,355.2	7,078.7	59.6	34.0	-89.43	-4,868.7	2,448.6	3,117.5	3,039.2	78.25	39.837	
10,137.8	7,122.2	7,355.0	7,078.5	60.3	34.0	-89.42	-4,868.7	2,448.6	3,094.8	3,015.9	78.96	39.197	
10,200.0	7,122.0	7,354.7	7,078.1	61.5	34.0	-89.42	-4,868.7	2,448.6	3,058.2	2,978.1	80.11	38.175	
10,236.2	7,121.9	7,354.5	7,077.9	62.2	34.0	-89.41	-4,868.7	2,448.6	3,037.3	2,956.6	80.79	37.598	
10,300.0	7,121.8	7,354.1	7,077.6	63.3	34.0	-89.40	-4,868.7	2,448.6	3,001.2	2,919.2	81.97	36.612	
10,334.6	7,121.7	7,353.9	7,077.4	64.0	34.0	-89.40	-4,868.7	2,448.5	2,982.0	2,899.4	82.62	36.093	
10,400.0	7,121.6	7,353.5	7,077.0	65.2	34.0	-89.39	-4,868.7	2,448.5	2,946.4	2,862.6	83.84	35.145	
10,433.0	7,121.5	7,353.4	7,076.8	65.8	34.0	-89.39	-4,868.7	2,448.5	2,928.9	2,844.4	84.45	34.680	
10,500.0	7,121.4	7,353.0	7,076.5	67.1	34.0	-89.38	-4,868.7	2,448.5	2,894.1	2,808.4	85.70	33.768	
10,531.5	7,121.3	7,352.8	7,076.3	67.7	34.0	-89.37	-4,868.7	2,448.5	2,878.1	2,791.9	86.29	33.353	
10,600.0	7,121.1	7,352.4	7,075.9	69.0	34.0	-89.36	-4,868.7	2,448.5	2,844.3	2,756.7	87.57	32.479	
10,629.9	7,121.1	7,352.3	7,075.7	69.5	34.0	-89.36	-4,868.7	2,448.5	2,829.9	2,741.8	88.13	32.109	
10,700.0	7,120.9	7,351.9	7,075.4	70.8	34.0	-89.35	-4,868.7	2,448.5	2,797.2	2,707.8	89.45	31.272	
10,728.3	7,120.8	7,351.7	7,075.2	71.4	34.0	-89.35	-4,868.7	2,448.5	2,784.4	2,694.4	89.98	30.945	
10,800.0	7,120.7	7,351.3	7,074.8	72.7	34.0	-89.34	-4,868.7	2,448.5	2,752.9	2,661.6	91.32	30.145	
10,826.7	7,120.6	7,351.2	7,074.7	73.2	34.0	-89.34	-4,868.7	2,448.5	2,741.6	2,649.8	91.82	29.857	
10,900.0	7,120.5	7,350.8	7,074.3	74.6	34.0	-89.33	-4,868.7	2,448.5	2,711.6	2,618.4	93.20	29.095	
10,925.2	7,120.4	7,350.7	7,074.1	75.1	34.0	-89.32	-4,868.7	2,448.5	2,701.7	2,608.1	93.67	28.842	
11,000.0	7,120.2	7,350.3	7,073.7	76.5	34.0	-89.31	-4,868.7	2,448.5	2,673.5	2,578.4	95.08	28.118	
11,023.6	7,120.2	7,350.1	7,073.6	76.9	34.0	-89.31	-4,868.7	2,448.5	2,664.9	2,569.4	95.52	27.898	
11,100.0	7,120.0	7,349.7	7,073.2	78.3	34.0	-89.30	-4,868.7	2,448.5	2,638.5	2,541.5	96.96	27.212	
11,122.0	7,120.0	7,349.6	7,073.1	78.8	34.0	-89.30	-4,868.7	2,448.5	2,631.2	2,533.9	97.38	27.022	
11,200.0	7,119.8	7,349.2	7,072.7	80.2	34.0	-89.29	-4,868.7	2,448.5	2,606.9	2,508.1	98.84	26.374	
11,220.4	7,119.7	7,349.1	7,072.6	80.6	34.0	-89.29	-4,868.7	2,448.5	2,600.9	2,501.6	99.23	26.211	
11,300.0	7,119.5	7,348.7	7,072.1	82.1	34.0	-89.28	-4,868.7	2,448.5	2,578.8	2,478.1	100.73	25.601	
11,318.9	7,119.5	7,348.6	7,072.0	82.5	34.0	-89.28	-4,868.7	2,448.5	2,573.9	2,472.8	101.09	25.463	
11,400.0	7,119.3	7,348.2	7,071.6	84.0	34.0	-89.27	-4,868.7	2,448.5	2,554.3	2,451.7	102.62	24.892	
11,417.3	7,119.3	7,348.1	7,071.5	84.3	34.0	-89.26	-4,868.7	2,448.5	2,550.5	2,447.5	102.94	24.776	
11,500.0	7,119.1	7,347.6	7,071.1	85.9	34.0	-89.25	-4,868.7	2,448.5	2,533.5	2,429.0	104.50	24.244	
11,515.7	7,119.1	7,347.5	7,071.0	86.2	34.0	-89.25	-4,868.7	2,448.5	2,530.6	2,425.8	104.80	24.147	
11,600.0	7,118.9	7,347.1	7,070.6	87.8	34.0	-89.24	-4,868.7	2,448.5	2,516.6	2,410.2	106.39	23.654	
11,614.1	7,118.8	7,347.0	7,070.5	88.0	34.0	-89.24	-4,868.7	2,448.5	2,514.5	2,407.8	106.66	23.575	
11,700.0	7,118.6	7,346.6	7,070.1	89.7	34.0	-89.23	-4,868.7	2,448.4	2,503.5	2,395.2	108.28	23.120	
11,712.6	7,118.6	7,346.5	7,070.0	89.9	34.0	-89.23	-4,868.7	2,448.4	2,502.1	2,393.6	108.52	23.056	
11,800.0	7,118.4	7,346.1	7,069.5	91.6	34.0	-89.22	-4,868.7	2,448.4	2,494.3	2,384.2	110.18	22.640	
11,811.0	7,118.4	7,346.0	7,069.5	91.8	34.0	-89.22	-4,868.7	2,448.4	2,493.6	2,383.2	110.38	22.590	
11,900.0	7,118.2	7,345.6	7,069.0	93.4	34.0	-89.21	-4,868.7	2,448.4	2,489.2	2,377.1	112.07	22.211	
11,909.4	7,118.2	7,345.5	7,069.0	93.6	34.0	-89.20	-4,868.7	2,448.4	2,488.9	2,376.7	112.25	22.174	
11,978.5	7,118.0	7,345.2	7,068.6	94.9	34.0	-89.20	-4,868.7	2,448.4	2,488.0	2,374.4	113.55	21.910 CC	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 134-MWD												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	
12,000.0	7,118.0	7,345.1	7,068.5	95.3	34.0	-89.19	-4,868.7	2,448.4	2,488.0	2,374.1	113.96	21.832	
12,007.8	7,118.0	7,345.0	7,068.5	95.5	34.0	-89.19	-4,868.7	2,448.4	2,488.1	2,374.0	114.11	21.804	ES
12,100.0	7,117.8	7,344.6	7,068.0	97.2	34.0	-89.18	-4,868.7	2,448.4	2,490.9	2,375.1	115.86	21.500	
12,106.3	7,117.7	7,344.5	7,068.0	97.4	34.0	-89.18	-4,868.7	2,448.4	2,491.2	2,375.3	115.98	21.481	
12,200.0	7,117.5	7,344.1	7,067.5	99.1	34.0	-89.17	-4,868.7	2,448.4	2,497.8	2,380.0	117.75	21.212	
12,204.7	7,117.5	7,344.0	7,067.5	99.2	34.0	-89.17	-4,868.7	2,448.4	2,498.2	2,380.4	117.84	21.200	
12,300.0	7,117.3	7,343.6	7,067.0	101.0	34.0	-89.16	-4,868.7	2,448.4	2,508.6	2,389.0	119.65	20.967	
12,303.1	7,117.3	7,343.5	7,067.0	101.1	34.0	-89.16	-4,868.7	2,448.4	2,509.0	2,389.3	119.71	20.960	
12,400.0	7,117.1	7,343.1	7,066.5	102.9	34.0	-89.15	-4,868.7	2,448.4	2,523.4	2,401.9	121.55	20.761	
12,401.5	7,117.1	7,343.1	7,066.5	103.0	34.0	-89.15	-4,868.7	2,448.4	2,523.7	2,402.1	121.58	20.758	
12,500.0	7,116.9	7,342.6	7,066.0	104.8	34.0	-89.14	-4,868.7	2,448.4	2,542.0	2,418.6	123.45	20.592	
12,598.4	7,116.6	7,342.1	7,065.6	106.7	34.0	-89.13	-4,868.7	2,448.4	2,564.0	2,438.7	125.31	20.461	
12,600.0	7,116.6	7,342.1	7,065.5	106.7	34.0	-89.13	-4,868.7	2,448.4	2,564.4	2,439.1	125.34	20.459	
12,696.8	7,116.4	7,341.6	7,065.1	108.6	34.0	-89.11	-4,868.7	2,448.4	2,589.6	2,462.4	127.18	20.361	
12,700.0	7,116.4	7,341.6	7,065.1	108.6	34.0	-89.11	-4,868.7	2,448.4	2,590.4	2,463.2	127.24	20.358	
12,795.2	7,116.2	7,341.1	7,064.6	110.4	34.0	-89.10	-4,868.7	2,448.4	2,618.6	2,489.5	129.05	20.291	
12,800.0	7,116.2	7,341.1	7,064.6	110.5	34.0	-89.10	-4,868.7	2,448.4	2,620.1	2,490.9	129.14	20.288	
12,893.7	7,116.0	7,340.6	7,064.1	112.3	34.0	-89.09	-4,868.7	2,448.4	2,650.9	2,520.0	130.93	20.248	
12,900.0	7,116.0	7,340.6	7,064.1	112.4	34.0	-89.09	-4,868.7	2,448.4	2,653.1	2,522.1	131.05	20.246	
12,992.1	7,115.7	7,340.2	7,063.6	114.2	34.0	-89.08	-4,868.7	2,448.4	2,686.5	2,553.7	132.80	20.230	
13,000.0	7,115.7	7,340.1	7,063.6	114.3	34.0	-89.08	-4,868.7	2,448.4	2,689.5	2,556.5	132.95	20.230	SF
13,090.5	7,115.5	7,339.7	7,063.2	116.1	34.0	-89.07	-4,868.7	2,448.3	2,725.1	2,590.5	134.67	20.236	
13,100.0	7,115.5	7,339.7	7,063.1	116.2	34.0	-89.07	-4,868.7	2,448.3	2,729.0	2,594.2	134.85	20.238	
13,188.9	7,115.3	7,339.2	7,062.7	117.9	34.0	-89.06	-4,868.7	2,448.3	2,766.8	2,630.2	136.54	20.263	
13,200.0	7,115.3	7,339.2	7,062.7	118.1	34.0	-89.06	-4,868.7	2,448.3	2,771.6	2,634.9	136.75	20.268	
13,287.4	7,115.1	7,338.8	7,062.2	119.8	34.0	-89.05	-4,868.7	2,448.3	2,811.2	2,672.8	138.41	20.310	
13,300.0	7,115.1	7,338.7	7,062.2	120.0	34.0	-89.05	-4,868.7	2,448.3	2,817.1	2,678.5	138.66	20.317	
13,385.8	7,114.9	7,338.3	7,061.8	121.7	34.0	-89.04	-4,868.7	2,448.3	2,858.4	2,718.1	140.29	20.375	
13,400.0	7,114.8	7,338.2	7,061.7	121.9	34.0	-89.04	-4,868.7	2,448.3	2,865.4	2,724.8	140.56	20.386	
13,484.2	7,114.6	7,337.9	7,061.3	123.6	34.0	-89.03	-4,868.7	2,448.3	2,908.1	2,765.9	142.16	20.456	
13,500.0	7,114.6	7,337.8	7,061.3	123.9	34.0	-89.03	-4,868.7	2,448.3	2,916.3	2,773.8	142.46	20.470	
13,582.6	7,114.4	7,337.4	7,060.9	125.4	34.0	-89.02	-4,868.7	2,448.3	2,960.2	2,816.2	144.04	20.552	
13,600.0	7,114.4	7,337.3	7,060.8	125.8	34.0	-89.02	-4,868.7	2,448.3	2,969.7	2,825.3	144.37	20.570	
13,681.1	7,114.2	7,336.9	7,060.4	127.3	34.0	-89.01	-4,868.7	2,448.3	3,014.7	2,868.8	145.91	20.661	
13,700.0	7,114.2	7,336.9	7,060.3	127.7	34.0	-89.01	-4,868.7	2,448.3	3,025.4	2,879.2	146.27	20.684	
13,779.5	7,114.0	7,336.5	7,060.0	129.2	34.0	-89.00	-4,868.7	2,448.3	3,071.4	2,923.6	147.79	20.782	
13,800.0	7,113.9	7,336.4	7,059.9	129.6	34.0	-88.99	-4,868.7	2,448.3	3,083.4	2,935.3	148.18	20.809	
13,877.9	7,113.8	7,336.0	7,059.5	131.1	34.0	-88.99	-4,868.7	2,448.3	3,130.1	2,980.4	149.66	20.914	
13,900.0	7,113.7	7,335.9	7,059.4	131.5	34.0	-88.98	-4,868.7	2,448.3	3,143.5	2,993.5	150.08	20.945	
13,976.3	7,113.5	7,335.6	7,059.1	132.9	34.0	-88.98	-4,868.7	2,448.3	3,190.8	3,039.2	151.54	21.056	
14,000.0	7,113.5	7,335.5	7,059.0	133.4	34.0	-88.97	-4,868.7	2,448.3	3,205.6	3,053.7	151.99	21.091	
14,074.8	7,113.3	7,335.1	7,058.6	134.8	34.0	-88.97	-4,868.7	2,448.3	3,253.3	3,099.9	153.42	21.206	
14,100.0	7,113.3	7,335.0	7,058.5	135.3	34.0	-88.96	-4,868.7	2,448.3	3,269.6	3,115.7	153.90	21.246	
14,173.2	7,113.1	7,334.7	7,058.2	136.7	34.0	-88.96	-4,868.7	2,448.3	3,317.6	3,162.3	155.29	21.363	
14,200.0	7,113.0	7,334.6	7,058.1	137.2	34.0	-88.95	-4,868.7	2,448.3	3,335.4	3,179.6	155.80	21.408	
14,219.1	7,113.0	7,334.5	7,058.0	137.6	34.0	-88.95	-4,868.7	2,448.3	3,348.1	3,192.0	156.17	21.439	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 726-MWD												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	171.11	-5,114.8	800.4	5,177.1				
98.4	98.4	79.9	79.9	0.1	0.1	171.11	-5,114.9	800.3	5,177.1	5,176.9	0.18	N/A	
100.0	100.0	81.4	81.4	0.1	0.1	171.11	-5,114.9	800.3	5,177.1	5,176.9	0.18	N/A	
196.8	196.8	173.5	173.5	0.3	0.2	171.11	-5,115.0	800.1	5,177.2	5,176.8	0.49	N/A	
200.0	200.0	176.5	176.5	0.3	0.2	171.11	-5,115.0	800.1	5,177.3	5,176.7	0.50	N/A	
295.3	295.3	267.2	267.2	0.5	0.3	171.11	-5,115.3	799.7	5,177.5	5,176.6	0.81	6,370.870	
300.0	300.0	271.7	271.7	0.5	0.3	171.12	-5,115.3	799.7	5,177.5	5,176.6	0.83	6,253.355	
393.7	393.7	360.8	360.8	0.8	0.4	171.12	-5,115.7	799.1	5,177.8	5,176.6	1.13	4,578.674	
400.0	400.0	366.8	366.8	0.8	0.4	171.12	-5,115.7	799.0	5,177.8	5,176.6	1.15	4,497.695	
492.1	492.1	454.5	454.5	1.0	0.5	171.13	-5,116.2	798.3	5,178.2	5,176.7	1.45	3,573.594	
500.0	500.0	462.0	462.0	1.0	0.5	171.13	-5,116.2	798.2	5,178.2	5,176.7	1.47	3,511.921	
590.5	590.5	548.2	548.1	1.2	0.6	171.14	-5,116.8	797.4	5,178.6	5,176.9	1.77	2,930.485	
600.0	600.0	557.1	557.1	1.2	0.6	171.14	-5,116.9	797.3	5,178.7	5,176.9	1.80	2,880.719	
689.0	689.0	641.8	641.8	1.4	0.7	171.16	-5,117.5	796.2	5,179.2	5,177.1	2.09	2,483.665	
700.0	700.0	652.3	652.3	1.4	0.7	171.16	-5,117.6	796.1	5,179.3	5,177.2	2.12	2,441.967	
787.4	787.4	726.0	726.0	1.6	0.8	171.17	-5,118.3	795.1	5,179.9	5,177.5	2.39	2,163.977	
800.0	800.0	726.0	726.0	1.7	0.8	171.17	-5,118.3	795.1	5,180.0	5,177.6	2.42	2,138.727	
885.8	885.8	795.6	795.5	1.9	0.9	171.18	-5,119.1	794.6	5,181.0	5,178.2	2.76	1,879.996	
900.0	900.0	804.7	804.6	1.9	0.9	171.18	-5,119.3	794.7	5,181.2	5,178.4	2.81	1,846.374	
984.2	984.2	854.0	853.9	2.1	1.0	171.17	-5,120.1	795.2	5,182.8	5,179.7	3.10	1,674.348	
1,000.0	1,000.0	854.0	853.9	2.1	1.0	171.17	-5,120.1	795.2	5,183.1	5,180.0	3.13	1,655.536	
1,082.7	1,082.7	904.5	904.4	2.3	1.1	171.16	-5,121.2	796.4	5,185.4	5,182.0	3.41	1,518.587	
1,100.0	1,100.0	912.7	912.7	2.3	1.1	171.16	-5,121.5	796.8	5,186.0	5,182.5	3.47	1,494.694	
1,181.1	1,181.1	983.0	982.8	2.5	1.3	171.12	-5,123.8	800.5	5,189.2	5,185.4	3.79	1,369.823	
1,200.0	1,200.0	983.0	982.8	2.6	1.3	171.12	-5,123.8	800.5	5,189.9	5,186.1	3.83	1,354.816	
1,279.5	1,279.5	983.0	982.8	2.7	1.3	171.12	-5,123.8	800.5	5,193.6	5,189.6	4.01	1,295.343	
1,300.0	1,300.0	983.0	982.8	2.8	1.3	171.12	-5,123.8	800.5	5,194.8	5,190.7	4.06	1,280.928	
1,377.9	1,377.9	1,039.7	1,039.3	3.0	1.4	175.36	-5,126.3	804.6	5,200.2	5,195.9	4.36	1,192.371	
1,400.0	1,400.0	1,049.3	1,048.8	3.0	1.4	175.34	-5,126.8	805.3	5,202.3	5,197.9	4.43	1,173.458	
1,476.4	1,476.3	1,111.0	1,110.2	3.2	1.6	175.28	-5,130.5	810.7	5,211.4	5,206.7	4.75	1,097.994	
1,500.0	1,499.8	1,111.0	1,110.2	3.2	1.6	175.27	-5,130.5	810.7	5,214.6	5,209.8	4.80	1,086.300	
1,574.8	1,574.4	1,111.0	1,110.2	3.4	1.6	175.25	-5,130.5	810.7	5,226.6	5,221.7	4.97	1,051.136	
1,600.0	1,599.5	1,111.0	1,110.2	3.5	1.6	175.25	-5,130.5	810.7	5,231.4	5,226.3	5.03	1,040.069	
1,673.2	1,672.2	1,156.3	1,155.2	3.6	1.7	175.18	-5,133.8	815.3	5,246.4	5,241.1	5.31	987.593	
1,700.0	1,698.7	1,165.6	1,164.3	3.7	1.7	175.16	-5,134.5	816.3	5,252.6	5,247.2	5.40	973.405	
1,771.6	1,769.5	1,190.1	1,188.5	3.9	1.8	175.11	-5,136.6	819.0	5,270.6	5,265.0	5.62	937.718	
1,800.0	1,797.5	1,240.0	1,237.9	4.0	1.9	175.04	-5,141.5	825.2	5,278.9	5,273.1	5.81	908.944	
1,870.1	1,866.3	1,240.0	1,237.9	4.2	1.9	175.00	-5,141.5	825.2	5,299.3	5,293.3	5.97	888.069	
1,900.1	1,895.8	1,240.0	1,237.9	4.3	1.9	174.99	-5,141.5	825.2	5,308.8	5,302.8	6.03	879.705	
1,968.5	1,962.6	1,240.0	1,237.9	4.5	1.9	174.99	-5,141.5	825.2	5,331.4	5,325.2	6.20	860.217	
2,000.0	1,993.4	1,281.8	1,279.1	4.6	2.1	174.94	-5,145.9	830.9	5,341.7	5,335.4	6.39	836.512	
2,066.9	2,058.9	1,316.9	1,313.5	4.8	2.2	174.89	-5,149.8	836.1	5,364.2	5,357.6	6.65	807.226	
2,100.0	2,091.3	1,334.1	1,330.4	4.9	2.3	174.87	-5,151.8	838.8	5,375.5	5,368.7	6.77	794.176	
2,165.3	2,155.2	1,368.0	1,363.6	5.1	2.4	174.82	-5,155.6	844.5	5,397.9	5,390.9	7.02	769.195	
2,200.0	2,189.1	1,368.0	1,363.6	5.3	2.4	174.82	-5,155.6	844.5	5,410.0	5,402.9	7.10	761.469	
2,263.8	2,251.4	1,368.0	1,363.6	5.5	2.4	174.82	-5,155.6	844.5	5,432.7	5,425.5	7.26	748.103	
2,300.0	2,286.9	1,418.6	1,413.0	5.6	2.6	174.74	-5,161.8	853.6	5,445.4	5,437.9	7.51	725.052	
2,362.2	2,347.7	1,441.7	1,435.5	5.9	2.7	174.71	-5,164.8	857.9	5,467.9	5,460.1	7.74	706.656	
2,400.0	2,384.7	1,455.7	1,449.1	6.0	2.7	174.68	-5,166.7	860.6	5,481.7	5,473.9	7.88	696.014	
2,460.6	2,444.0	1,496.0	1,488.2	6.3	2.9	174.61	-5,172.3	868.7	5,504.3	5,496.2	8.15	675.054	
2,500.0	2,482.5	1,496.0	1,488.2	6.4	2.9	174.61	-5,172.3	868.7	5,519.1	5,510.8	8.25	668.725	
2,559.0	2,540.3	1,496.0	1,488.2	6.6	2.9	174.61	-5,172.3	868.7	5,541.6	5,533.2	8.40	659.508	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 726-MWD												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	
2,600.0	2,580.3	1,496.0	1,488.2	6.8	2.9	174.61	-5,172.3	868.7	5,557.6	5,549.1	8.51	653.333	
2,617.6	2,597.5	1,496.0	1,488.2	6.9	2.9	174.61	-5,172.3	868.7	5,564.5	5,556.0	8.55	650.724	
2,657.5	2,636.6	1,548.4	1,538.8	7.0	3.2	174.55	-5,180.3	879.8	5,579.6	5,570.7	8.84	631.138	
2,700.0	2,678.4	1,563.5	1,553.3	7.2	3.3	174.55	-5,182.7	883.0	5,595.5	5,586.5	9.00	621.709	
2,755.9	2,733.5	1,583.4	1,572.4	7.3	3.4	174.56	-5,185.9	887.4	5,615.9	5,606.7	9.19	610.911	
2,800.0	2,777.0	1,625.0	1,612.4	7.4	3.6	174.51	-5,193.1	896.7	5,631.6	5,622.2	9.44	596.618	
2,854.3	2,830.9	1,625.0	1,612.4	7.6	3.6	174.54	-5,193.1	896.7	5,650.0	5,640.5	9.55	591.602	
2,900.0	2,876.2	1,625.0	1,612.4	7.7	3.6	174.57	-5,193.1	896.7	5,665.1	5,655.5	9.64	587.571	
2,952.7	2,928.7	1,662.4	1,648.1	7.8	3.8	174.53	-5,199.8	905.3	5,681.9	5,672.0	9.90	574.066	
3,000.0	2,975.8	1,684.5	1,669.2	7.9	3.9	174.52	-5,203.8	910.5	5,696.3	5,686.2	10.08	565.193	
3,051.2	3,026.8	1,708.5	1,692.1	8.0	4.1	174.50	-5,208.3	916.2	5,711.3	5,701.1	10.27	556.082	
3,100.0	3,075.6	1,753.0	1,734.4	8.1	4.3	174.43	-5,216.8	927.1	5,725.1	5,714.6	10.54	543.087	
3,149.6	3,125.2	1,753.0	1,734.4	8.2	4.3	174.46	-5,216.8	927.1	5,738.4	5,727.8	10.62	540.098	
3,200.0	3,175.6	1,753.0	1,734.4	8.3	4.3	174.48	-5,216.8	927.1	5,751.4	5,740.7	10.71	537.208	
3,217.7	3,193.3	1,789.1	1,768.6	8.3	4.5	170.13	-5,223.9	936.2	5,755.7	5,744.8	10.90	528.112	
3,248.0	3,223.6	1,804.3	1,783.0	8.4	4.6	170.09	-5,226.9	940.2	5,763.1	5,752.1	11.03	522.589	
3,300.0	3,275.6	1,830.3	1,807.5	8.5	4.8	170.03	-5,232.1	947.1	5,776.1	5,764.8	11.25	513.456	
3,346.4	3,322.0	1,882.0	1,856.0	8.6	5.2	169.91	-5,242.7	961.4	5,788.0	5,776.4	11.59	499.527	
3,400.0	3,375.6	1,882.0	1,856.0	8.7	5.2	169.91	-5,242.7	961.4	5,801.7	5,790.0	11.70	495.815	
3,444.9	3,420.4	1,882.0	1,856.0	8.7	5.2	169.91	-5,242.7	961.4	5,813.5	5,801.7	11.80	492.777	
3,500.0	3,475.6	1,922.7	1,894.1	8.8	5.4	169.81	-5,251.2	973.1	5,828.1	5,816.0	12.12	480.724	
3,543.3	3,518.9	1,941.0	1,911.1	8.9	5.6	169.76	-5,255.1	978.4	5,839.8	5,827.5	12.31	474.402	
3,600.0	3,575.6	1,964.8	1,933.3	9.0	5.7	169.70	-5,260.3	985.4	5,855.4	5,842.9	12.55	466.456	
3,641.7	3,617.3	2,010.0	1,975.2	9.1	6.1	169.58	-5,270.4	998.9	5,867.3	5,854.4	12.87	455.824	
3,700.0	3,675.6	2,010.0	1,975.2	9.2	6.1	169.58	-5,270.4	998.9	5,883.7	5,870.7	13.00	452.690	
3,740.1	3,715.7	2,010.0	1,975.2	9.3	6.1	169.58	-5,270.4	998.9	5,895.3	5,882.2	13.08	450.582	
3,800.0	3,775.6	2,057.4	2,019.0	9.4	6.5	169.46	-5,281.2	1,013.5	5,912.8	5,899.3	13.48	438.757	
3,838.6	3,814.1	2,077.1	2,037.2	9.5	6.6	169.40	-5,285.8	1,019.7	5,924.2	5,910.5	13.67	433.414	
3,900.0	3,875.6	2,108.3	2,065.8	9.6	6.9	169.32	-5,293.0	1,029.8	5,942.6	5,928.6	13.97	425.276	
3,937.0	3,912.6	2,138.0	2,092.9	9.7	7.1	169.23	-5,300.0	1,039.7	5,953.9	5,939.6	14.22	418.793	
4,000.0	3,975.6	2,138.0	2,092.9	9.8	7.1	169.23	-5,300.0	1,039.7	5,973.3	5,958.9	14.35	416.164	
4,035.4	4,011.0	2,138.0	2,092.9	9.9	7.1	169.23	-5,300.0	1,039.7	5,984.4	5,970.0	14.43	414.721	
4,100.0	4,075.6	2,190.2	2,140.3	10.0	7.5	169.08	-5,312.5	1,057.5	6,004.7	5,989.8	14.89	403.288	
4,133.8	4,109.4	2,202.6	2,151.5	10.0	7.7	169.04	-5,315.5	1,061.9	6,015.6	6,000.6	15.04	400.014	
4,200.0	4,175.6	2,226.7	2,173.3	10.2	7.9	168.97	-5,321.5	1,070.4	6,037.2	6,021.9	15.33	393.849	
4,232.3	4,207.8	2,267.0	2,209.4	10.2	8.2	168.84	-5,331.7	1,085.0	6,048.0	6,032.4	15.64	386.632	
4,300.0	4,275.6	2,267.0	2,209.4	10.4	8.2	168.84	-5,331.7	1,085.0	6,070.6	6,054.8	15.79	384.451	
4,330.7	4,306.3	2,267.0	2,209.4	10.4	8.2	168.84	-5,331.7	1,085.0	6,081.0	6,065.2	15.86	383.487	
4,400.0	4,375.6	2,267.0	2,209.4	10.6	8.2	168.84	-5,331.7	1,085.0	6,105.1	6,089.1	16.01	381.373	
4,429.1	4,404.7	2,267.0	2,209.4	10.6	8.2	168.84	-5,331.7	1,085.0	6,115.4	6,099.4	16.07	380.506	
4,500.0	4,475.6	2,323.7	2,259.9	10.8	8.8	168.67	-5,346.7	1,105.9	6,140.3	6,123.7	16.59	370.109	
4,527.5	4,503.1	2,331.9	2,267.2	10.8	8.8	168.64	-5,349.0	1,109.0	6,150.2	6,133.5	16.70	368.202	
4,600.0	4,575.6	2,395.0	2,322.9	11.0	9.4	168.45	-5,367.0	1,132.5	6,177.0	6,159.8	17.26	357.817	
4,626.0	4,601.5	2,395.0	2,322.9	11.0	9.4	168.45	-5,367.0	1,132.5	6,186.5	6,169.2	17.32	357.189	
4,700.0	4,675.6	2,395.0	2,322.9	11.2	9.4	168.45	-5,367.0	1,132.5	6,214.0	6,196.5	17.48	355.451	
4,724.4	4,700.0	2,395.0	2,322.9	11.2	9.4	168.45	-5,367.0	1,132.5	6,223.2	6,205.7	17.54	354.894	
4,800.0	4,775.6	2,449.5	2,370.7	11.4	9.9	168.28	-5,382.9	1,153.1	6,252.1	6,234.0	18.05	346.462	
4,822.8	4,798.4	2,470.4	2,389.1	11.4	10.1	168.21	-5,389.0	1,161.1	6,260.8	6,242.6	18.23	343.487	
4,900.0	4,875.6	2,547.9	2,457.1	11.6	10.9	167.97	-5,411.5	1,190.8	6,290.3	6,271.4	18.88	333.192	
4,921.2	4,896.8	2,575.3	2,481.1	11.6	11.1	167.89	-5,419.4	1,201.4	6,298.4	6,279.3	19.09	329.881	
5,000.0	4,975.6	2,683.4	2,575.9	11.8	12.1	167.55	-5,450.0	1,243.3	6,328.3	6,308.4	19.92	317.681	
5,019.7	4,995.2	2,715.3	2,603.9	11.8	12.4	167.45	-5,458.9	1,255.7	6,335.7	6,315.6	20.16	314.346	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-23D - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 usft
Survey Program: 726-MWD													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					
5,100.0	5,075.6	2,780.0	2,660.8	12.0	13.0	167.25	-5,476.7	1,280.9	6,365.7	6,345.0	20.72	307.258					
5,118.1	5,093.7	2,780.0	2,660.8	12.0	13.0	167.25	-5,476.7	1,280.9	6,372.6	6,351.8	20.76	306.999					
5,200.0	5,175.6	2,843.7	2,716.7	12.2	13.6	167.05	-5,494.4	1,305.8	6,403.5	6,382.2	21.34	300.017					
5,216.5	5,192.1	2,851.1	2,723.2	12.2	13.7	167.03	-5,496.5	1,308.8	6,409.8	6,388.4	21.43	299.140					
5,300.0	5,275.6	2,909.0	2,773.7	12.4	14.2	166.85	-5,513.0	1,331.7	6,442.1	6,420.1	21.98	293.124					
5,314.9	5,290.5	2,909.0	2,773.7	12.4	14.2	166.85	-5,513.0	1,331.7	6,447.9	6,425.9	22.01	292.949					
5,400.0	5,375.6	2,958.8	2,817.1	12.6	14.7	166.69	-5,527.3	1,351.6	6,481.2	6,458.6	22.54	287.587					
5,413.4	5,388.9	2,971.0	2,827.6	12.6	14.9	166.65	-5,530.7	1,356.6	6,486.4	6,463.8	22.65	286.396					
5,500.0	5,475.6	3,037.0	2,884.8	12.8	15.5	166.44	-5,549.4	1,383.7	6,520.5	6,497.2	23.28	280.044					
5,511.8	5,487.4	3,037.0	2,884.8	12.8	15.5	166.44	-5,549.4	1,383.7	6,525.2	6,501.9	23.31	279.932					
5,600.0	5,575.6	3,103.2	2,942.0	13.0	16.2	166.23	-5,568.0	1,411.3	6,560.1	6,536.2	23.97	273.682					
5,610.2	5,585.8	3,109.1	2,947.1	13.0	16.3	166.21	-5,569.7	1,413.8	6,564.2	6,540.2	24.03	273.123					
5,700.0	5,675.6	3,166.0	2,996.0	13.2	16.9	166.02	-5,585.9	1,437.9	6,600.3	6,575.7	24.63	267.987					
5,708.6	5,684.2	3,166.0	2,996.0	13.2	16.9	166.02	-5,585.9	1,437.9	6,603.8	6,579.2	24.65	267.921					
5,800.0	5,775.6	3,362.5	3,166.4	13.4	18.9	165.42	-5,641.5	1,518.5	6,640.1	6,614.0	26.10	254.388					
5,807.1	5,782.6	3,374.5	3,176.9	13.4	19.0	165.38	-5,644.8	1,523.4	6,642.8	6,616.6	26.19	253.639					
5,900.0	5,875.6	3,674.9	3,443.2	13.6	21.6	164.56	-5,725.3	1,636.4	6,676.7	6,648.7	28.08	237.774					
5,905.5	5,881.1	3,679.0	3,446.9	13.6	21.7	164.55	-5,726.3	1,637.9	6,678.7	6,650.6	28.11	237.560					
6,000.0	5,975.6	3,761.4	3,520.7	13.8	22.4	164.34	-5,748.0	1,667.3	6,713.0	6,684.2	28.78	233.266					
6,003.9	5,979.5	3,764.7	3,523.7	13.8	22.4	164.33	-5,748.9	1,668.5	6,714.4	6,685.6	28.81	233.097					
6,100.0	6,075.6	3,833.2	3,584.9	14.0	23.0	164.16	-5,766.6	1,693.7	6,749.5	6,720.1	29.41	229.532					
6,102.3	6,077.9	3,834.5	3,586.1	14.0	23.1	164.15	-5,767.0	1,694.2	6,750.4	6,720.9	29.42	229.460					
6,200.0	6,175.6	3,888.9	3,634.4	14.2	23.6	164.01	-5,781.2	1,714.5	6,786.4	6,756.5	29.96	226.540					
6,200.8	6,176.3	3,889.3	3,634.8	14.2	23.6	164.01	-5,781.3	1,714.7	6,786.7	6,756.8	29.96	226.518					
6,299.2	6,274.8	3,947.3	3,686.3	14.4	24.1	163.86	-5,796.7	1,736.6	6,823.6	6,793.1	30.52	223.591					
6,300.0	6,275.6	3,948.0	3,686.9	14.4	24.1	163.86	-5,796.8	1,736.8	6,823.9	6,793.4	30.52	223.562					
6,397.6	6,373.2	4,026.7	3,756.7	14.7	24.9	163.65	-5,818.0	1,766.2	6,860.9	6,829.7	31.18	220.018					
6,400.0	6,375.6	4,028.6	3,758.4	14.7	24.9	163.65	-5,818.5	1,766.9	6,861.8	6,830.6	31.20	219.933					
6,436.2	6,411.8	4,057.9	3,784.5	14.7	25.2	163.58	-5,826.5	1,777.6	6,875.5	6,844.1	31.44	218.655					
6,450.0	6,425.6	4,064.0	3,789.9	14.8	25.2	-16.52	-5,828.2	1,779.9	6,880.6	6,849.0	31.61	217.684					
6,496.0	6,471.5	4,064.0	3,789.9	14.8	25.2	-16.15	-5,828.2	1,779.9	6,896.2	6,864.4	31.76	217.115					
6,500.0	6,475.5	4,064.0	3,789.9	14.8	25.2	-16.12	-5,828.2	1,779.9	6,897.4	6,865.7	31.77	217.107					
6,550.0	6,525.1	4,104.1	3,825.5	14.9	25.6	-15.91	-5,839.3	1,794.6	6,911.1	6,879.1	31.99	216.008					
6,594.5	6,568.7	4,121.1	3,840.6	14.9	25.8	-15.74	-5,844.1	1,800.9	6,920.7	6,888.8	31.95	216.627					
6,600.0	6,574.1	4,123.2	3,842.5	14.9	25.8	-15.73	-5,844.7	1,801.7	6,921.7	6,889.8	31.93	216.759					
6,650.0	6,622.4	4,142.4	3,859.4	14.9	26.0	-15.62	-5,850.1	1,808.9	6,929.3	6,897.6	31.71	218.526					
6,692.9	6,663.0	4,193.0	3,903.8	14.9	26.5	-15.69	-5,864.7	1,828.2	6,933.6	6,902.0	31.58	219.558					
6,700.0	6,669.6	4,193.0	3,903.8	14.9	26.5	-15.68	-5,864.7	1,828.2	6,934.0	6,902.5	31.50	220.120					
6,750.0	6,715.6	4,193.0	3,903.8	14.9	26.5	-15.65	-5,864.7	1,828.2	6,935.2	6,904.4	30.86	224.710					
6,791.3	6,752.5	4,193.0	3,903.8	14.9	26.5	-15.68	-5,864.7	1,828.2	6,934.0	6,903.7	30.23	229.356					
6,800.0	6,760.1	4,193.0	3,903.8	14.9	26.5	-15.69	-5,864.7	1,828.2	6,933.4	6,903.3	30.09	230.432					
6,850.0	6,802.9	4,193.0	3,903.8	14.9	26.5	-15.80	-5,864.7	1,828.2	6,928.7	6,899.5	29.19	237.351					
6,889.7	6,835.6	4,239.6	3,944.5	14.9	26.9	-16.10	-5,878.3	1,846.3	6,922.4	6,893.8	28.64	241.695					
6,900.0	6,843.8	4,244.0	3,948.4	14.9	27.0	-16.16	-5,879.6	1,848.0	6,920.5	6,892.1	28.45	243.275					
6,950.0	6,882.6	4,265.1	3,966.8	14.9	27.2	-16.50	-5,885.9	1,856.2	6,909.4	6,882.0	27.44	251.759					
6,988.2	6,910.7	7,590.9	7,126.5	15.0	43.5	-29.76	-6,343.5	2,491.5	6,893.3	6,859.2	34.02	202.619					
7,000.0	6,919.1	7,598.6	7,134.3	15.0	43.5	-30.23	-6,343.2	2,491.4	6,885.3	6,851.5	33.75	203.997					
7,050.0	6,953.1	7,630.0	7,165.6	15.0	43.5	-32.43	-6,342.2	2,491.2	6,850.1	6,817.3	32.78	208.976					
7,086.6	6,976.4	7,651.4	7,187.0	15.1	43.6	-34.30	-6,341.5	2,491.0	6,823.1	6,790.8	32.30	211.215					
7,100.0	6,984.5	7,660.0	7,195.6	15.1	43.6	-35.06	-6,341.2	2,491.0	6,813.0	6,780.8	32.20	211.615					
7,150.0	7,013.1	7,709.6	7,245.2	15.3	43.6	-38.37	-6,339.6	2,490.5	6,774.0	6,741.7	32.23	210.154					
7,185.0	7,031.4	7,733.5	7,269.0	15.4	43.6	-41.02	-6,338.7	2,490.2	6,745.6	6,713.0	32.69	206.352					

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 726-MWD													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		
7,200.0	7,038.8	7,742.7	7,278.3	15.4	43.6	-42.26	-6,338.4	2,490.1	6,733.3	6,700.3	33.00	204.017		
7,250.0	7,061.4	7,760.0	7,295.5	15.6	43.6	-46.81	-6,337.8	2,489.9	6,691.2	6,656.6	34.57	193.564		
7,283.4	7,074.8	7,760.0	7,295.5	15.8	43.6	-50.21	-6,337.8	2,489.9	6,662.4	6,626.4	36.02	184.983		
7,300.0	7,080.9	7,760.0	7,295.5	15.9	43.6	-52.05	-6,337.8	2,489.9	6,647.9	6,611.1	36.84	180.444		
7,350.0	7,097.1	7,760.0	7,295.5	16.2	43.6	-58.26	-6,337.8	2,489.9	6,603.7	6,564.0	39.70	166.359		
7,381.9	7,105.7	7,760.0	7,295.5	16.4	43.6	-62.76	-6,337.8	2,489.9	6,575.1	6,533.5	41.66	157.821		
7,400.0	7,109.9	7,760.0	7,295.5	16.6	43.6	-65.51	-6,337.8	2,489.9	6,558.8	6,516.0	42.76	153.370		
7,450.0	7,119.4	7,760.0	7,295.5	17.0	43.6	-73.74	-6,337.8	2,489.9	6,513.3	6,467.7	45.52	143.081		
7,480.3	7,123.4	7,760.0	7,295.5	17.2	43.6	-79.11	-6,337.8	2,489.9	6,485.5	6,438.7	46.79	138.606		
7,500.0	7,125.4	7,760.0	7,295.5	17.4	43.6	-82.72	-6,337.8	2,489.9	6,467.4	6,420.0	47.37	136.525		
7,550.0	7,127.9	7,760.0	7,295.5	17.9	43.6	-92.02	-6,337.8	2,489.9	6,421.5	6,373.6	47.85	134.210		
7,562.9	7,128.0	7,760.0	7,295.5	18.0	43.6	-94.41	-6,337.8	2,489.9	6,409.6	6,361.9	47.72	134.317		
7,578.7	7,128.0	7,760.0	7,295.5	18.2	43.6	-94.41	-6,337.8	2,489.9	6,395.1	6,347.2	47.88	133.558		
7,600.0	7,127.9	7,760.0	7,295.5	18.4	43.6	-94.41	-6,337.8	2,489.9	6,375.6	6,327.5	48.10	132.548		
7,677.1	7,127.7	7,760.0	7,295.5	19.2	43.6	-94.41	-6,337.8	2,489.9	6,304.9	6,255.9	48.96	128.773		
7,700.0	7,127.7	7,760.0	7,295.5	19.5	43.6	-94.41	-6,337.8	2,489.9	6,284.0	6,234.8	49.22	127.680		
7,775.6	7,127.5	7,760.0	7,295.5	20.3	43.6	-94.41	-6,337.8	2,489.9	6,215.0	6,164.9	50.01	124.265		
7,800.0	7,127.5	7,760.0	7,295.5	20.5	43.6	-94.41	-6,337.8	2,489.9	6,192.7	6,142.4	50.27	123.185		
7,874.0	7,127.3	7,760.0	7,295.5	21.4	43.6	-94.41	-6,337.8	2,489.9	6,125.3	6,074.2	51.13	119.804		
7,900.0	7,127.2	7,760.0	7,295.5	21.7	43.6	-94.41	-6,337.8	2,489.9	6,101.6	6,050.2	51.43	118.644		
7,972.4	7,127.1	7,760.0	7,295.5	22.7	43.6	-94.41	-6,337.8	2,489.9	6,035.9	5,983.4	52.44	115.099		
8,000.0	7,127.0	7,760.0	7,295.5	23.1	43.6	-94.41	-6,337.8	2,489.9	6,010.9	5,958.0	52.83	113.786		
8,070.8	7,126.8	7,760.0	7,295.5	24.2	43.6	-94.41	-6,337.8	2,489.9	5,946.7	5,892.9	53.87	110.399		
8,100.0	7,126.8	7,760.0	7,295.5	24.6	43.6	-94.41	-6,337.8	2,489.9	5,920.4	5,866.1	54.29	109.044		
8,169.3	7,126.6	7,760.0	7,295.5	25.6	43.6	-94.41	-6,337.8	2,489.9	5,857.9	5,802.6	55.35	105.832		
8,200.0	7,126.6	7,760.0	7,295.5	26.1	43.6	-94.41	-6,337.8	2,489.9	5,830.2	5,774.4	55.82	104.448		
8,267.7	7,126.4	7,760.0	7,295.5	27.2	43.6	-94.41	-6,337.8	2,489.9	5,769.4	5,712.5	56.89	101.421		
8,300.0	7,126.3	7,760.0	7,295.5	27.7	43.6	-94.41	-6,337.8	2,489.9	5,740.4	5,683.0	57.39	100.018		
8,366.1	7,126.2	7,760.0	7,295.5	28.8	43.6	-94.41	-6,337.8	2,489.9	5,681.2	5,622.7	58.46	97.178		
8,400.0	7,126.1	7,760.0	7,295.5	29.3	43.6	-94.41	-6,337.8	2,489.9	5,650.9	5,591.9	59.01	95.764		
8,464.5	7,126.0	7,760.0	7,295.5	30.4	43.6	-94.41	-6,337.8	2,489.9	5,593.4	5,533.3	60.07	93.108		
8,500.0	7,125.9	7,760.0	7,295.5	31.0	43.6	-94.41	-6,337.8	2,489.9	5,561.8	5,501.1	60.66	91.691		
8,563.0	7,125.7	7,760.0	7,295.5	32.0	43.6	-94.41	-6,337.8	2,489.9	5,505.9	5,444.2	61.72	89.214		
8,600.0	7,125.6	7,760.0	7,295.5	32.6	43.6	-94.41	-6,337.8	2,489.9	5,473.1	5,410.7	62.34	87.798		
8,661.4	7,125.5	7,760.0	7,295.5	33.7	43.6	-94.41	-6,337.8	2,489.9	5,418.8	5,355.4	63.38	85.493		
8,700.0	7,125.4	7,760.0	7,295.5	34.4	43.6	-94.41	-6,337.8	2,489.9	5,384.7	5,320.7	64.04	84.084		
8,759.8	7,125.3	7,760.0	7,295.5	35.4	43.6	-94.41	-6,337.8	2,489.9	5,332.0	5,267.0	65.07	81.941		
8,800.0	7,125.2	7,760.0	7,295.5	36.1	43.6	-94.41	-6,337.8	2,489.9	5,296.8	5,231.0	65.76	80.542		
8,858.2	7,125.1	7,760.0	7,295.5	37.1	43.6	-94.41	-6,337.8	2,489.9	5,245.7	5,178.9	66.78	78.553		
8,900.0	7,125.0	7,760.0	7,295.5	37.8	43.6	-94.41	-6,337.8	2,489.9	5,209.2	5,141.7	67.51	77.166		
8,956.7	7,124.8	7,760.0	7,295.5	38.8	43.6	-94.41	-6,337.8	2,489.9	5,159.8	5,091.3	68.50	75.322		
9,000.0	7,124.7	7,760.0	7,295.5	39.6	43.6	-94.41	-6,337.8	2,489.9	5,122.2	5,052.9	69.27	73.950		
9,055.1	7,124.6	7,760.0	7,295.5	40.6	43.6	-94.41	-6,337.8	2,489.9	5,074.4	5,004.2	70.24	72.242		
9,100.0	7,124.5	7,766.1	7,301.6	41.4	43.6	-94.54	-6,337.6	2,489.8	5,035.6	4,964.6	71.02	70.903		
9,153.5	7,124.4	7,763.5	7,299.0	42.3	43.6	-94.49	-6,337.7	2,489.8	4,989.5	4,917.5	71.98	69.314		
9,200.0	7,124.3	7,761.3	7,296.8	43.2	43.6	-94.44	-6,337.7	2,489.9	4,949.6	4,876.7	72.82	67.970		
9,251.9	7,124.2	7,758.8	7,294.3	44.1	43.6	-94.38	-6,337.8	2,489.9	4,905.0	4,831.3	73.76	66.501		
9,300.0	7,124.1	7,756.5	7,292.0	45.0	43.6	-94.33	-6,337.9	2,489.9	4,864.0	4,789.4	74.63	65.177		
9,350.4	7,123.9	7,754.1	7,289.6	45.9	43.6	-94.27	-6,338.0	2,489.9	4,821.1	4,745.6	75.54	63.819		
9,400.0	7,123.8	7,751.7	7,287.3	46.8	43.6	-94.22	-6,338.1	2,490.0	4,779.0	4,702.6	76.45	62.515		
9,448.8	7,123.7	7,749.4	7,284.9	47.7	43.6	-94.17	-6,338.2	2,490.0	4,737.8	4,660.4	77.34	61.261		
9,500.0	7,123.6	7,747.0	7,282.5	48.6	43.6	-94.11	-6,338.3	2,490.0	4,694.7	4,616.4	78.27	59.978		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 726-MWD												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	
9,547.2	7,123.5	7,744.8	7,280.3	49.4	43.6	-94.06	-6,338.3	2,490.1	4,655.0	4,575.9	79.14	58.820	
9,600.0	7,123.4	7,742.3	7,277.8	50.4	43.6	-94.01	-6,338.4	2,490.1	4,610.9	4,530.8	80.11	57.558	
9,645.6	7,123.3	7,740.1	7,275.7	51.2	43.6	-93.96	-6,338.5	2,490.1	4,572.9	4,491.9	80.95	56.491	
9,700.0	7,123.2	7,737.6	7,273.1	52.2	43.6	-93.90	-6,338.6	2,490.2	4,527.8	4,445.8	81.95	55.251	
9,744.1	7,123.1	7,735.6	7,271.1	53.1	43.6	-93.86	-6,338.7	2,490.2	4,491.4	4,408.6	82.76	54.267	
9,800.0	7,122.9	7,733.0	7,268.5	54.1	43.6	-93.80	-6,338.7	2,490.2	4,445.4	4,361.6	83.80	53.049	
9,842.5	7,122.8	7,731.0	7,266.5	54.9	43.6	-93.75	-6,338.8	2,490.2	4,410.5	4,326.0	84.58	52.144	
9,900.0	7,122.7	7,728.3	7,263.9	55.9	43.6	-93.69	-6,338.9	2,490.3	4,363.7	4,278.0	85.65	50.948	
9,940.9	7,122.6	7,726.5	7,262.0	56.7	43.6	-93.65	-6,339.0	2,490.3	4,330.5	4,244.0	86.41	50.115	
10,000.0	7,122.5	7,723.8	7,259.3	57.8	43.6	-93.59	-6,339.1	2,490.3	4,282.8	4,195.2	87.51	48.941	
10,039.3	7,122.4	7,722.0	7,257.5	58.5	43.6	-93.55	-6,339.1	2,490.3	4,251.1	4,162.9	88.24	48.176	
10,100.0	7,122.3	7,719.2	7,254.7	59.6	43.6	-93.49	-6,339.2	2,490.4	4,202.7	4,113.3	89.37	47.025	
10,137.8	7,122.2	7,717.5	7,253.0	60.3	43.6	-93.45	-6,339.3	2,490.4	4,172.6	4,082.5	90.08	46.323	
10,200.0	7,122.0	7,714.7	7,250.2	61.5	43.6	-93.39	-6,339.4	2,490.4	4,123.4	4,032.2	91.24	45.194	
10,236.2	7,121.9	7,713.0	7,248.6	62.2	43.6	-93.35	-6,339.4	2,490.4	4,095.0	4,003.0	91.91	44.552	
10,300.0	7,121.8	7,709.8	7,245.4	63.3	43.6	-93.28	-6,339.6	2,490.5	4,045.1	3,952.0	93.11	43.445	
10,334.6	7,121.7	7,708.0	7,243.5	64.0	43.6	-93.24	-6,339.6	2,490.5	4,018.2	3,924.5	93.76	42.857	
10,400.0	7,121.6	7,704.5	7,240.1	65.2	43.6	-93.16	-6,339.7	2,490.5	3,967.8	3,872.8	94.98	41.773	
10,433.0	7,121.5	7,702.8	7,238.4	65.8	43.6	-93.12	-6,339.8	2,490.6	3,942.4	3,846.8	95.61	41.236	
10,500.0	7,121.4	7,699.4	7,234.9	67.1	43.6	-93.04	-6,339.9	2,490.6	3,891.4	3,794.6	96.86	40.174	
10,531.5	7,121.3	7,697.7	7,233.3	67.7	43.6	-93.01	-6,340.0	2,490.6	3,867.6	3,770.2	97.46	39.686	
10,600.0	7,121.1	7,694.2	7,229.8	69.0	43.6	-92.93	-6,340.1	2,490.6	3,816.2	3,717.5	98.74	38.647	
10,629.9	7,121.1	7,692.7	7,228.3	69.5	43.6	-92.89	-6,340.1	2,490.7	3,793.9	3,694.6	99.31	38.204	
10,700.0	7,120.9	7,689.2	7,224.8	70.8	43.6	-92.81	-6,340.3	2,490.7	3,742.1	3,641.5	100.63	37.188	
10,728.3	7,120.8	7,687.8	7,223.4	71.4	43.6	-92.78	-6,340.3	2,490.7	3,721.4	3,620.2	101.16	36.786	
10,800.0	7,120.7	7,684.2	7,219.8	72.7	43.6	-92.70	-6,340.4	2,490.8	3,669.3	3,566.8	102.51	35.793	
10,826.7	7,120.6	7,682.9	7,218.5	73.2	43.6	-92.67	-6,340.5	2,490.8	3,650.0	3,547.0	103.02	35.430	
10,900.0	7,120.5	7,679.4	7,214.9	74.6	43.6	-92.59	-6,340.6	2,490.8	3,597.7	3,493.3	104.40	34.460	
10,925.2	7,120.4	7,678.1	7,213.7	75.1	43.6	-92.56	-6,340.6	2,490.8	3,579.9	3,475.0	104.88	34.134	
11,000.0	7,120.2	7,674.5	7,210.1	76.5	43.6	-92.48	-6,340.8	2,490.8	3,527.6	3,421.3	106.29	33.187	
11,023.6	7,120.2	7,673.4	7,209.0	76.9	43.6	-92.46	-6,340.8	2,490.9	3,511.2	3,404.5	106.74	32.895	
11,100.0	7,120.0	7,669.8	7,205.4	78.3	43.6	-92.38	-6,340.9	2,490.9	3,458.8	3,350.7	108.18	31.972	
11,122.0	7,120.0	7,668.8	7,204.3	78.8	43.6	-92.35	-6,340.9	2,490.9	3,443.9	3,335.3	108.60	31.712	
11,200.0	7,119.8	7,665.1	7,200.7	80.2	43.6	-92.27	-6,341.1	2,490.9	3,391.7	3,281.6	110.08	30.812	
11,220.4	7,119.7	7,664.2	7,199.8	80.6	43.6	-92.25	-6,341.1	2,490.9	3,378.2	3,267.7	110.47	30.581	
11,300.0	7,119.5	7,660.5	7,196.1	82.1	43.6	-92.17	-6,341.2	2,491.0	3,326.2	3,214.2	111.97	29.705	
11,318.9	7,119.5	7,659.7	7,195.3	82.5	43.6	-92.15	-6,341.2	2,491.0	3,314.0	3,201.7	112.33	29.502	
11,400.0	7,119.3	7,656.8	7,192.4	84.0	43.6	-92.08	-6,341.3	2,491.0	3,262.4	3,148.5	113.87	28.651	
11,417.3	7,119.3	7,656.2	7,191.8	84.3	43.6	-92.07	-6,341.3	2,491.0	3,251.6	3,137.4	114.19	28.474	
11,500.0	7,119.1	7,653.2	7,188.8	85.9	43.6	-92.00	-6,341.4	2,491.0	3,200.5	3,084.7	115.76	27.647	
11,515.7	7,119.1	7,652.7	7,188.3	86.2	43.6	-91.99	-6,341.5	2,491.0	3,190.9	3,074.9	116.06	27.494	
11,600.0	7,118.9	7,649.6	7,185.2	87.8	43.6	-91.92	-6,341.6	2,491.1	3,140.5	3,022.9	117.66	26.692	
11,614.1	7,118.8	7,649.1	7,184.7	88.0	43.6	-91.91	-6,341.6	2,491.1	3,132.2	3,014.3	117.93	26.561	
11,700.0	7,118.6	7,646.0	7,181.6	89.7	43.5	-91.84	-6,341.7	2,491.1	3,082.7	2,963.1	119.56	25.784	
11,712.6	7,118.6	7,645.5	7,181.1	89.9	43.5	-91.83	-6,341.7	2,491.1	3,075.5	2,955.7	119.80	25.673	
11,800.0	7,118.4	7,642.4	7,178.0	91.6	43.5	-91.76	-6,341.8	2,491.1	3,027.0	2,905.5	121.46	24.922	
11,811.0	7,118.4	7,642.0	7,177.6	91.8	43.5	-91.75	-6,341.8	2,491.1	3,021.0	2,899.3	121.66	24.830	
11,900.0	7,118.2	7,638.7	7,174.3	93.4	43.5	-91.67	-6,341.9	2,491.1	2,973.6	2,850.3	123.36	24.106	
11,909.4	7,118.2	7,638.4	7,174.0	93.6	43.5	-91.67	-6,341.9	2,491.2	2,968.7	2,845.2	123.54	24.031	
12,000.0	7,118.0	7,635.0	7,170.6	95.3	43.5	-91.59	-6,342.0	2,491.2	2,922.7	2,797.4	125.26	23.333	
12,007.8	7,118.0	7,634.7	7,170.3	95.5	43.5	-91.58	-6,342.0	2,491.2	2,918.8	2,793.4	125.41	23.275	
12,100.0	7,117.8	7,631.3	7,166.9	97.2	43.5	-91.51	-6,342.1	2,491.2	2,874.3	2,747.2	127.16	22.604	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 726-MWD												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	
12,106.3	7,117.7	7,631.1	7,166.7	97.4	43.5	-91.50	-6,342.2	2,491.2	2,871.4	2,744.1	127.28	22.560	
12,200.0	7,117.5	7,627.6	7,163.2	99.1	43.5	-91.42	-6,342.3	2,491.2	2,828.7	2,699.6	129.06	21.917	
12,204.7	7,117.5	7,627.5	7,163.1	99.2	43.5	-91.42	-6,342.3	2,491.2	2,826.6	2,697.5	129.15	21.886	
12,300.0	7,117.3	7,623.9	7,159.5	101.0	43.5	-91.34	-6,342.4	2,491.3	2,785.9	2,654.9	130.97	21.272	
12,303.1	7,117.3	7,623.8	7,159.4	101.1	43.5	-91.34	-6,342.4	2,491.3	2,784.6	2,653.6	131.03	21.252	
12,400.0	7,117.1	7,620.2	7,155.8	102.9	43.5	-91.26	-6,342.5	2,491.3	2,746.0	2,613.2	132.87	20.667	
12,401.5	7,117.1	7,620.1	7,155.7	103.0	43.5	-91.25	-6,342.5	2,491.3	2,745.4	2,612.5	132.90	20.658	
12,500.0	7,116.9	7,616.4	7,152.1	104.8	43.5	-91.17	-6,342.6	2,491.3	2,709.3	2,574.5	134.78	20.102	
12,598.4	7,116.6	7,612.7	7,148.3	106.7	43.5	-91.09	-6,342.8	2,491.3	2,676.3	2,539.6	136.65	19.585	
12,600.0	7,116.6	7,612.7	7,148.3	106.7	43.5	-91.09	-6,342.8	2,491.3	2,675.8	2,539.1	136.68	19.577	
12,696.8	7,116.4	7,609.0	7,144.6	108.6	43.5	-91.00	-6,342.9	2,491.4	2,646.5	2,508.0	138.53	19.105	
12,700.0	7,116.4	7,608.9	7,144.5	108.6	43.5	-91.00	-6,342.9	2,491.4	2,645.6	2,507.0	138.59	19.090	
12,795.2	7,116.2	7,605.3	7,140.9	110.4	43.5	-90.92	-6,343.0	2,491.4	2,620.1	2,479.7	140.40	18.661	
12,800.0	7,116.2	7,605.1	7,140.7	110.5	43.5	-90.91	-6,343.0	2,491.4	2,619.0	2,478.5	140.50	18.641	
12,893.7	7,116.0	7,601.5	7,137.1	112.3	43.5	-90.83	-6,343.1	2,491.4	2,597.2	2,454.9	142.28	18.254	
12,900.0	7,116.0	7,601.3	7,136.9	112.4	43.5	-90.83	-6,343.1	2,491.4	2,595.8	2,453.4	142.40	18.229	
12,992.1	7,115.7	7,597.7	7,133.4	114.2	43.5	-90.75	-6,343.3	2,491.4	2,577.8	2,433.6	144.16	17.882	
13,000.0	7,115.7	7,597.4	7,133.1	114.3	43.5	-90.74	-6,343.3	2,491.4	2,576.4	2,432.1	144.31	17.853	
13,090.5	7,115.5	7,594.0	7,129.6	116.1	43.5	-90.66	-6,343.4	2,491.5	2,562.0	2,416.0	146.04	17.544	
13,100.0	7,115.5	7,593.6	7,129.2	116.2	43.5	-90.66	-6,343.4	2,491.5	2,560.7	2,414.5	146.22	17.513	
13,188.9	7,115.3	7,590.2	7,125.8	117.9	43.5	-90.58	-6,343.5	2,491.5	2,550.0	2,402.1	147.92	17.239	
13,200.0	7,115.3	7,589.7	7,125.4	118.1	43.5	-90.57	-6,343.5	2,491.5	2,548.9	2,400.7	148.13	17.207	
13,287.4	7,115.1	7,586.3	7,122.0	119.8	43.5	-90.49	-6,343.6	2,491.5	2,541.7	2,391.9	149.80	16.968	
13,300.0	7,115.1	7,585.8	7,121.5	120.0	43.5	-90.48	-6,343.7	2,491.5	2,540.9	2,390.8	150.04	16.935	
13,385.8	7,114.9	7,582.5	7,118.1	121.7	43.5	-90.40	-6,343.8	2,491.5	2,537.1	2,385.5	151.67	16.728	
13,400.0	7,114.8	7,581.9	7,117.6	121.9	43.5	-90.39	-6,343.8	2,491.5	2,536.8	2,384.9	151.95	16.696	
13,453.4	7,114.7	7,579.8	7,115.5	123.0	43.5	-90.34	-6,343.9	2,491.6	2,536.2	2,383.3	152.97	16.581 CC	
13,484.2	7,114.6	7,578.6	7,114.3	123.6	43.5	-90.32	-6,343.9	2,491.6	2,536.4	2,382.9	153.55	16.518	
13,500.0	7,114.6	7,578.0	7,113.7	123.9	43.5	-90.30	-6,343.9	2,491.6	2,536.7	2,382.8	153.86	16.487 ES	
13,582.6	7,114.4	7,574.8	7,110.4	125.4	43.5	-90.23	-6,344.0	2,491.6	2,539.5	2,384.1	155.43	16.338	
13,600.0	7,114.4	7,574.1	7,109.7	125.8	43.5	-90.21	-6,344.1	2,491.6	2,540.5	2,384.7	155.76	16.310	
13,681.1	7,114.2	7,570.9	7,106.5	127.3	43.5	-90.14	-6,344.2	2,491.6	2,546.4	2,389.1	157.31	16.187	
13,700.0	7,114.2	7,570.1	7,105.8	127.7	43.5	-90.13	-6,344.2	2,491.6	2,548.2	2,390.5	157.67	16.161	
13,779.5	7,114.0	7,567.0	7,102.6	129.2	43.5	-90.05	-6,344.3	2,491.6	2,557.1	2,397.9	159.19	16.063	
13,800.0	7,113.9	7,566.2	7,101.8	129.6	43.5	-90.04	-6,344.3	2,491.6	2,559.8	2,400.2	159.58	16.040	
13,877.9	7,113.8	7,563.1	7,098.7	131.1	43.5	-89.97	-6,344.4	2,491.6	2,571.5	2,410.4	161.07	15.965	
13,900.0	7,113.7	7,562.2	7,097.8	131.5	43.5	-89.95	-6,344.5	2,491.7	2,575.2	2,413.7	161.49	15.946	
13,976.3	7,113.5	7,559.1	7,094.8	132.9	43.5	-89.88	-6,344.6	2,491.7	2,589.5	2,426.6	162.95	15.891	
14,000.0	7,113.5	7,558.2	7,093.8	133.4	43.5	-89.86	-6,344.6	2,491.7	2,594.4	2,431.0	163.40	15.877	
14,074.8	7,113.3	7,555.2	7,090.8	134.8	43.5	-89.79	-6,344.7	2,491.7	2,611.1	2,446.3	164.83	15.841	
14,100.0	7,113.3	7,554.1	7,089.8	135.3	43.5	-89.76	-6,344.7	2,491.7	2,617.3	2,451.9	165.31	15.832	
14,173.2	7,113.1	7,551.2	7,086.8	136.7	43.5	-89.70	-6,344.8	2,491.7	2,636.3	2,469.6	166.71	15.813	
14,200.0	7,113.0	7,550.1	7,085.7	137.2	43.5	-89.67	-6,344.9	2,491.7	2,643.7	2,476.5	167.22	15.809	
14,219.1	7,113.0	7,549.3	7,085.0	137.6	43.5	-89.66	-6,344.9	2,491.7	2,649.2	2,481.6	167.59	15.807 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 731-MWD												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	171.60	-5,118.5	755.8	5,174.0				
98.4	98.4	79.0	79.0	0.1	0.1	171.60	-5,118.5	755.8	5,174.0	5,173.8	0.18	N/A	
100.0	100.0	80.5	80.5	0.1	0.1	171.60	-5,118.5	755.8	5,174.0	5,173.8	0.18	N/A	
196.8	196.8	172.8	172.8	0.3	0.2	171.60	-5,118.6	755.8	5,174.1	5,173.6	0.49	N/A	
200.0	200.0	175.8	175.8	0.3	0.2	171.60	-5,118.6	755.8	5,174.1	5,173.6	0.50	N/A	
295.3	295.3	266.6	266.6	0.5	0.3	171.60	-5,118.8	755.8	5,174.3	5,173.5	0.81	6,387.461	
300.0	300.0	271.1	271.1	0.5	0.3	171.60	-5,118.8	755.8	5,174.4	5,173.5	0.83	6,269.475	
393.7	393.7	360.4	360.4	0.8	0.4	171.60	-5,119.1	755.8	5,174.6	5,173.5	1.13	4,588.742	
400.0	400.0	366.4	366.4	0.8	0.4	171.60	-5,119.1	755.8	5,174.7	5,173.5	1.15	4,507.503	
492.1	492.1	454.2	454.2	1.0	0.5	171.60	-5,119.5	755.8	5,175.0	5,173.6	1.45	3,580.626	
500.0	500.0	461.7	461.7	1.0	0.5	171.60	-5,119.5	755.8	5,175.1	5,173.6	1.47	3,518.782	
590.5	590.5	548.0	548.0	1.2	0.6	171.60	-5,119.9	755.9	5,175.5	5,173.7	1.76	2,935.807	
600.0	600.0	557.0	557.0	1.2	0.6	171.60	-5,120.0	755.9	5,175.5	5,173.7	1.79	2,885.916	
689.0	689.0	641.8	641.8	1.4	0.7	171.60	-5,120.5	755.9	5,176.0	5,174.0	2.08	2,487.903	
700.0	700.0	652.4	652.3	1.4	0.7	171.60	-5,120.5	755.9	5,176.1	5,174.0	2.12	2,446.108	
787.4	787.4	731.0	731.0	1.6	0.8	171.60	-5,121.0	756.0	5,176.7	5,174.3	2.39	2,162.982	
800.0	800.0	731.0	731.0	1.7	0.8	171.60	-5,121.0	756.0	5,176.8	5,174.4	2.42	2,137.734	
885.8	885.8	783.0	783.0	1.9	0.9	171.60	-5,121.6	756.0	5,177.9	5,175.2	2.73	1,895.416	
900.0	900.0	790.1	790.1	1.9	0.9	171.60	-5,121.8	756.1	5,178.1	5,175.4	2.78	1,862.811	
984.2	984.2	859.0	859.0	2.1	1.0	171.60	-5,123.5	756.4	5,180.1	5,177.0	3.12	1,657.856	
1,000.0	1,000.0	859.0	859.0	2.1	1.0	171.60	-5,123.5	756.4	5,180.5	5,177.3	3.16	1,639.397	
1,082.7	1,082.7	859.0	859.0	2.3	1.0	171.60	-5,123.5	756.4	5,183.2	5,179.8	3.35	1,549.142	
1,100.0	1,100.0	859.0	859.0	2.3	1.0	171.60	-5,123.5	756.4	5,183.9	5,180.5	3.38	1,531.533	
1,181.1	1,181.1	915.3	915.2	2.5	1.2	171.60	-5,125.7	756.8	5,187.3	5,183.6	3.70	1,403.209	
1,200.0	1,200.0	922.7	922.6	2.6	1.2	171.60	-5,126.0	756.8	5,188.2	5,184.4	3.76	1,381.238	
1,279.5	1,279.5	987.0	986.8	2.7	1.3	171.60	-5,129.8	757.5	5,192.9	5,188.8	4.08	1,271.850	
1,300.0	1,300.0	987.0	986.8	2.8	1.3	171.60	-5,129.8	757.5	5,194.0	5,189.9	4.13	1,257.948	
1,377.9	1,377.9	987.0	986.8	3.0	1.3	175.87	-5,129.8	757.5	5,200.1	5,195.8	4.31	1,206.651	
1,400.0	1,400.0	987.0	986.8	3.0	1.3	175.87	-5,129.8	757.5	5,202.4	5,198.1	4.36	1,193.106	
1,476.4	1,476.3	1,030.9	1,030.6	3.2	1.5	175.86	-5,133.1	758.2	5,212.0	5,207.4	4.64	1,122.997	
1,500.0	1,499.8	1,040.2	1,039.8	3.2	1.5	175.85	-5,133.9	758.3	5,215.5	5,210.8	4.72	1,105.618	
1,574.8	1,574.4	1,069.4	1,068.9	3.4	1.6	175.83	-5,136.4	758.9	5,228.3	5,223.4	4.96	1,054.319	
1,600.0	1,599.5	1,116.0	1,115.3	3.5	1.7	175.82	-5,141.0	760.1	5,233.6	5,228.4	5.13	1,020.905	
1,673.2	1,672.2	1,116.0	1,115.3	3.6	1.7	175.80	-5,141.0	760.1	5,249.1	5,243.8	5.30	991.321	
1,700.0	1,698.7	1,116.0	1,115.3	3.7	1.7	175.79	-5,141.0	760.1	5,255.5	5,250.1	5.36	981.207	
1,771.6	1,769.5	1,164.0	1,163.0	3.9	1.8	175.76	-5,146.1	761.4	5,274.0	5,268.4	5.63	936.996	
1,800.0	1,797.5	1,181.8	1,180.7	4.0	1.9	175.75	-5,148.1	761.9	5,281.9	5,276.2	5.73	921.394	
1,870.1	1,866.3	1,244.0	1,242.4	4.2	2.0	175.72	-5,155.2	763.4	5,302.8	5,296.8	6.03	879.367	
1,900.1	1,895.8	1,244.0	1,242.4	4.3	2.0	175.71	-5,155.2	763.4	5,312.3	5,306.2	6.10	871.214	
1,968.5	1,962.6	1,284.8	1,282.9	4.5	2.2	175.71	-5,160.1	764.4	5,334.6	5,328.2	6.35	840.580	
2,000.0	1,993.4	1,303.5	1,301.5	4.6	2.2	175.71	-5,162.4	765.0	5,344.9	5,338.5	6.46	827.350	
2,066.9	2,058.9	1,343.1	1,340.8	4.8	2.3	175.71	-5,167.4	766.3	5,367.1	5,360.4	6.71	800.024	
2,100.0	2,091.3	1,373.0	1,370.4	4.9	2.4	175.71	-5,171.2	767.4	5,378.2	5,371.4	6.85	785.275	
2,165.3	2,155.2	1,373.0	1,370.4	5.1	2.4	175.71	-5,171.2	767.4	5,400.4	5,393.4	7.01	770.795	
2,200.0	2,189.1	1,373.0	1,370.4	5.3	2.4	175.71	-5,171.2	767.4	5,412.4	5,405.3	7.09	763.039	
2,263.8	2,251.4	1,429.3	1,426.1	5.5	2.6	175.71	-5,178.9	769.9	5,434.4	5,427.0	7.38	736.816	
2,300.0	2,286.9	1,443.1	1,439.8	5.6	2.7	175.70	-5,180.9	770.6	5,447.1	5,439.6	7.50	726.656	
2,362.2	2,347.7	1,501.0	1,496.9	5.9	2.8	175.69	-5,189.8	773.9	5,469.6	5,461.8	7.78	703.039	
2,400.0	2,384.7	1,501.0	1,496.9	6.0	2.8	175.69	-5,189.8	773.9	5,483.1	5,475.3	7.87	696.324	
2,460.6	2,444.0	1,501.0	1,496.9	6.3	2.8	175.69	-5,189.8	773.9	5,505.3	5,497.3	8.03	685.879	
2,500.0	2,482.5	1,501.0	1,496.9	6.4	2.8	175.69	-5,189.8	773.9	5,520.0	5,511.8	8.13	679.325	
2,559.0	2,540.3	1,551.6	1,546.6	6.6	3.0	175.68	-5,198.0	777.5	5,542.0	5,533.6	8.39	660.470	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 731-MWD												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	
2,600.0	2,580.3	1,570.9	1,565.6	6.8	3.1	175.67	-5,201.3	779.2	5,557.5	5,549.0	8.54	650.837	
2,617.6	2,597.5	1,579.2	1,573.8	6.9	3.1	175.66	-5,202.7	779.9	5,564.2	5,555.6	8.60	646.795	
2,657.5	2,636.6	1,629.0	1,622.5	7.0	3.3	175.65	-5,211.2	785.1	5,579.4	5,570.5	8.82	632.883	
2,700.0	2,678.4	1,629.0	1,622.5	7.2	3.3	175.68	-5,211.2	785.1	5,594.8	5,585.9	8.92	627.217	
2,755.9	2,733.5	1,629.0	1,622.5	7.3	3.3	175.71	-5,211.2	785.1	5,614.6	5,605.6	9.04	621.190	
2,800.0	2,777.0	1,664.4	1,657.1	7.4	3.5	175.70	-5,217.5	789.1	5,629.6	5,620.4	9.22	610.724	
2,854.3	2,830.9	1,689.5	1,681.7	7.6	3.6	175.71	-5,222.1	792.0	5,647.5	5,638.1	9.39	601.394	
2,900.0	2,876.2	1,710.7	1,702.3	7.7	3.7	175.72	-5,226.1	794.4	5,662.0	5,652.5	9.53	593.831	
2,952.7	2,928.7	1,758.0	1,748.4	7.8	3.8	175.70	-5,235.2	799.8	5,678.2	5,668.4	9.76	582.061	
3,000.0	2,975.8	1,758.0	1,748.4	7.9	3.8	175.73	-5,235.2	799.8	5,691.9	5,682.0	9.84	578.209	
3,051.2	3,026.8	1,758.0	1,748.4	8.0	3.8	175.75	-5,235.2	799.8	5,706.3	5,696.4	9.94	574.326	
3,100.0	3,075.6	1,758.0	1,748.4	8.1	3.8	175.77	-5,235.2	799.8	5,719.7	5,709.6	10.02	570.785	
3,149.6	3,125.2	1,814.2	1,803.0	8.2	4.1	175.74	-5,246.7	806.4	5,732.1	5,721.8	10.26	558.663	
3,200.0	3,175.6	1,833.4	1,821.6	8.3	4.2	175.74	-5,250.8	808.8	5,744.4	5,734.0	10.40	552.569	
3,217.7	3,193.3	1,840.2	1,828.2	8.3	4.2	171.46	-5,252.3	809.6	5,748.6	5,738.2	10.44	550.535	
3,248.0	3,223.6	1,886.0	1,872.5	8.4	4.4	171.41	-5,262.5	815.5	5,756.1	5,745.4	10.63	541.545	
3,300.0	3,275.6	1,886.0	1,872.5	8.5	4.4	171.41	-5,262.5	815.5	5,768.3	5,757.6	10.73	537.587	
3,346.4	3,322.0	1,886.0	1,872.5	8.6	4.4	171.41	-5,262.5	815.5	5,779.7	5,768.9	10.83	533.708	
3,400.0	3,375.6	1,920.4	1,905.7	8.7	4.6	171.38	-5,270.4	820.1	5,793.0	5,782.0	11.05	524.470	
3,444.9	3,420.4	1,945.4	1,929.7	8.7	4.8	171.35	-5,276.3	823.5	5,804.4	5,793.2	11.22	517.540	
3,500.0	3,475.6	1,976.1	1,959.2	8.8	4.9	171.32	-5,283.5	827.8	5,818.5	5,807.1	11.42	509.348	
3,543.3	3,518.9	2,015.0	1,996.6	8.9	5.1	171.28	-5,292.8	833.4	5,829.7	5,818.1	11.63	501.257	
3,600.0	3,575.6	2,052.8	2,032.8	9.0	5.3	171.24	-5,301.9	838.9	5,844.6	5,832.7	11.86	492.819	
3,641.7	3,617.3	2,105.8	2,083.7	9.1	5.6	171.18	-5,314.6	846.8	5,855.4	5,843.3	12.10	483.946	
3,700.0	3,675.6	2,165.3	2,140.8	9.2	5.9	171.11	-5,328.6	855.9	5,870.5	5,858.1	12.39	473.718	
3,740.1	3,715.7	2,196.1	2,170.3	9.3	6.0	171.07	-5,336.0	860.5	5,880.9	5,868.3	12.57	468.015	
3,800.0	3,775.6	2,242.0	2,214.4	9.4	6.2	171.03	-5,347.0	867.1	5,896.5	5,883.7	12.82	459.817	
3,838.6	3,814.1	2,271.9	2,243.1	9.5	6.4	170.99	-5,354.2	871.4	5,906.7	5,893.7	12.99	454.682	
3,900.0	3,875.6	2,341.3	2,309.8	9.6	6.7	170.93	-5,371.1	881.1	5,922.8	5,909.5	13.32	444.730	
3,937.0	3,912.6	2,383.2	2,350.0	9.7	6.9	170.88	-5,381.1	886.9	5,932.5	5,918.9	13.51	438.966	
4,000.0	3,975.6	2,475.1	2,438.4	9.8	7.3	170.79	-5,403.1	899.5	5,948.8	5,934.9	13.90	427.890	
4,035.4	4,011.0	2,528.0	2,489.3	9.9	7.6	170.75	-5,415.5	906.4	5,957.8	5,943.6	14.12	421.843	
4,100.0	4,075.6	2,579.9	2,539.3	10.0	7.8	170.70	-5,427.7	912.9	5,974.1	5,959.7	14.41	414.653	
4,133.8	4,109.4	2,606.4	2,564.8	10.0	7.9	170.68	-5,434.0	916.1	5,982.8	5,968.2	14.55	411.050	
4,200.0	4,175.6	2,657.0	2,613.6	10.2	8.2	170.65	-5,446.2	921.7	5,999.7	5,984.9	14.84	404.313	
4,232.3	4,207.8	2,657.0	2,613.6	10.2	8.2	170.65	-5,446.2	921.7	6,008.1	5,993.2	14.91	402.970	
4,300.0	4,275.6	2,697.8	2,652.9	10.4	8.4	170.62	-5,456.3	926.4	6,026.0	6,010.8	15.18	396.990	
4,330.7	4,306.3	2,710.0	2,664.7	10.4	8.5	170.61	-5,459.4	927.8	6,034.2	6,018.9	15.28	394.837	
4,400.0	4,375.6	2,737.7	2,691.1	10.6	8.6	170.59	-5,466.4	931.3	6,053.1	6,037.6	15.52	390.111	
4,429.1	4,404.7	2,785.0	2,736.4	10.6	8.9	170.54	-5,478.8	937.7	6,061.4	6,045.7	15.72	385.563	
4,500.0	4,475.6	2,785.0	2,736.4	10.8	8.9	170.54	-5,478.8	937.7	6,081.1	6,065.2	15.88	383.045	
4,527.5	4,503.1	2,785.0	2,736.4	10.8	8.9	170.54	-5,478.8	937.7	6,089.0	6,073.0	15.94	382.090	
4,600.0	4,575.6	2,820.1	2,769.8	11.0	9.1	170.51	-5,488.2	942.6	6,110.0	6,093.8	16.21	377.000	
4,626.0	4,601.5	2,831.4	2,780.6	11.0	9.2	170.50	-5,491.3	944.2	6,117.6	6,101.3	16.30	375.316	
4,700.0	4,675.6	2,863.5	2,811.1	11.2	9.4	170.47	-5,500.2	948.8	6,139.7	6,123.1	16.56	370.647	
4,724.4	4,700.0	2,874.1	2,821.1	11.2	9.4	170.46	-5,503.2	950.3	6,147.1	6,130.4	16.65	369.147	
4,800.0	4,775.6	2,913.0	2,858.0	11.4	9.7	170.43	-5,514.3	955.8	6,170.2	6,153.3	16.94	364.193	
4,822.8	4,798.4	2,913.0	2,858.0	11.4	9.7	170.43	-5,514.3	955.8	6,177.3	6,160.3	16.99	363.535	
4,900.0	4,875.6	2,951.2	2,894.1	11.6	9.9	170.39	-5,525.4	961.3	6,201.5	6,184.2	17.29	358.706	
4,921.2	4,896.8	2,960.6	2,903.0	11.6	10.0	170.38	-5,528.2	962.8	6,208.3	6,190.9	17.37	357.482	
5,000.0	4,975.6	2,995.6	2,935.9	11.8	10.2	170.35	-5,538.7	968.2	6,233.6	6,216.0	17.66	353.068	
5,019.7	4,995.2	3,242.9	3,169.9	11.8	11.7	170.10	-5,609.0	1,006.7	6,239.9	6,221.5	18.48	337.749	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-24D - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 usft
Survey Program: 731-MWD													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					
5,100.0	5,075.6	3,571.7	3,484.6	12.0	13.4	169.80	-5,691.7	1,053.2	6,262.6	6,243.0	19.63	319.072					
5,118.1	5,093.7	3,585.8	3,498.2	12.0	13.5	169.78	-5,694.9	1,055.1	6,267.2	6,247.5	19.71	317.976					
5,200.0	5,175.6	3,649.6	3,559.6	12.2	13.8	169.73	-5,709.7	1,063.8	6,287.9	6,267.8	20.08	313.139					
5,216.5	5,192.1	3,662.4	3,572.0	12.2	13.9	169.72	-5,712.7	1,065.5	6,292.1	6,272.0	20.16	312.186					
5,300.0	5,275.6	3,684.0	3,592.8	12.4	14.0	169.70	-5,717.7	1,068.5	6,313.7	6,293.3	20.40	309.445					
5,314.9	5,290.5	3,717.1	3,624.6	12.4	14.2	169.67	-5,725.6	1,073.0	6,317.5	6,297.0	20.54	307.568					
5,400.0	5,375.6	3,756.8	3,662.7	12.6	14.4	169.64	-5,735.2	1,078.4	6,340.0	6,319.1	20.85	304.046					
5,413.4	5,388.9	3,763.0	3,668.7	12.6	14.4	169.63	-5,736.7	1,079.3	6,343.6	6,322.7	20.90	303.505					
5,500.0	5,475.6	3,812.0	3,715.6	12.8	14.7	169.59	-5,749.0	1,086.2	6,367.2	6,345.9	21.25	299.691					
5,511.8	5,487.4	3,812.0	3,715.6	12.8	14.7	169.59	-5,749.0	1,086.2	6,370.4	6,349.1	21.27	299.476					
5,600.0	5,575.6	3,870.6	3,771.7	13.0	15.1	169.54	-5,764.0	1,094.4	6,394.9	6,373.3	21.65	295.342					
5,610.2	5,585.8	3,878.0	3,778.7	13.0	15.1	169.53	-5,765.9	1,095.4	6,397.8	6,376.1	21.70	294.848					
5,700.0	5,675.6	3,941.0	3,839.0	13.2	15.5	169.48	-5,782.2	1,104.2	6,423.1	6,401.0	22.10	290.677					
5,708.6	5,684.2	3,941.0	3,839.0	13.2	15.5	169.48	-5,782.2	1,104.2	6,425.5	6,403.4	22.12	290.537					
5,800.0	5,775.6	3,941.0	3,839.0	13.4	15.5	169.48	-5,782.2	1,104.2	6,452.1	6,429.8	22.32	289.101					
5,807.1	5,782.6	3,941.0	3,839.0	13.4	15.5	169.48	-5,782.2	1,104.2	6,454.2	6,431.9	22.33	288.993					
5,900.0	5,875.6	4,006.6	3,901.4	13.6	15.9	169.42	-5,799.9	1,113.6	6,481.6	6,458.9	22.75	284.862					
5,905.5	5,881.1	4,008.4	3,903.1	13.6	15.9	169.42	-5,800.4	1,113.9	6,483.3	6,460.5	22.77	284.710					
6,000.0	5,975.6	4,069.0	3,960.5	13.8	16.3	169.37	-5,817.8	1,123.1	6,512.5	6,489.3	23.18	280.974					
6,003.9	5,979.5	4,069.0	3,960.5	13.8	16.3	169.37	-5,817.8	1,123.1	6,513.7	6,490.5	23.19	280.921					
6,100.0	6,075.6	4,074.1	3,965.2	14.0	16.3	169.36	-5,819.3	1,123.9	6,543.9	6,520.5	23.42	279.457					
6,102.3	6,077.9	4,076.5	3,967.5	14.0	16.3	169.36	-5,820.0	1,124.3	6,544.7	6,521.2	23.43	279.330					
6,200.0	6,175.6	6,312.5	6,149.6	14.2	24.6	168.09	-6,158.4	1,336.1	6,573.6	6,544.4	29.19	225.188					
6,200.8	6,176.3	6,313.3	6,150.5	14.2	24.7	168.09	-6,158.4	1,336.1	6,573.6	6,544.4	29.19	225.164					
6,299.2	6,274.8	6,405.7	6,242.7	14.4	24.8	168.07	-6,158.1	1,338.2	6,573.8	6,544.2	29.57	222.313					
6,300.0	6,275.6	6,406.2	6,243.3	14.4	24.8	168.07	-6,158.1	1,338.2	6,573.8	6,544.2	29.57	222.293					
6,397.6	6,373.2	6,473.6	6,310.7	14.7	24.8	168.06	-6,158.1	1,339.7	6,574.2	6,544.3	29.91	219.833					
6,400.0	6,375.6	6,475.2	6,312.3	14.7	24.8	168.06	-6,158.1	1,339.7	6,574.3	6,544.3	29.91	219.774					
6,436.2	6,411.8	6,509.0	6,346.1	14.7	24.9	168.05	-6,158.3	1,340.4	6,574.6	6,544.5	30.05	218.768					
6,450.0	6,425.6	6,510.1	6,347.1	14.8	24.9	-12.16	-6,158.3	1,340.5	6,574.6	6,544.4	30.14	218.141					
6,496.0	6,471.5	6,556.4	6,393.4	14.8	24.9	-12.20	-6,158.5	1,341.4	6,572.7	6,542.3	30.34	216.666					
6,500.0	6,475.5	6,560.3	6,397.4	14.8	24.9	-12.21	-6,158.5	1,341.5	6,572.4	6,542.0	30.35	216.572					
6,550.0	6,525.1	6,610.3	6,447.3	14.9	25.0	-12.32	-6,158.8	1,342.4	6,566.8	6,536.4	30.42	215.841					
6,594.5	6,568.7	6,651.7	6,488.7	14.9	25.1	-12.48	-6,159.1	1,343.0	6,559.0	6,528.7	30.38	215.909					
6,600.0	6,574.1	6,656.3	6,493.3	14.9	25.1	-12.50	-6,159.2	1,343.0	6,557.9	6,527.5	30.37	215.967					
6,650.0	6,622.4	6,697.5	6,534.5	14.9	25.1	-12.75	-6,159.5	1,343.7	6,545.7	6,515.5	30.17	216.938					
6,692.9	6,663.0	6,732.1	6,569.2	14.9	25.2	-13.02	-6,159.8	1,344.2	6,532.6	6,502.7	29.91	218.398					
6,700.0	6,669.6	6,737.8	6,574.8	14.9	25.2	-13.07	-6,159.8	1,344.3	6,530.2	6,500.4	29.86	218.693					
6,750.0	6,715.6	6,778.5	6,615.5	14.9	25.2	-13.48	-6,160.2	1,345.0	6,511.6	6,482.2	29.44	221.201					
6,791.3	6,752.5	6,813.4	6,650.4	14.9	25.3	-13.89	-6,160.5	1,345.5	6,494.0	6,464.9	29.02	223.808					
6,800.0	6,760.1	6,820.7	6,657.7	14.9	25.3	-13.98	-6,160.6	1,345.7	6,490.0	6,461.1	28.92	224.417					
6,850.0	6,802.9	6,861.3	6,698.3	14.9	25.3	-14.60	-6,161.0	1,346.3	6,465.4	6,437.0	28.31	228.343					
6,889.7	6,835.6	6,894.0	6,731.0	14.9	25.4	-15.19	-6,161.4	1,346.8	6,443.7	6,415.9	27.79	231.895					
6,900.0	6,843.8	6,902.9	6,739.9	14.9	25.4	-15.35	-6,161.5	1,347.0	6,437.9	6,410.2	27.65	232.860					
6,950.0	6,882.6	6,957.7	6,794.6	14.9	25.5	-16.30	-6,162.0	1,347.8	6,407.6	6,380.6	26.96	237.638					
6,988.2	6,910.7	6,999.3	6,836.3	15.0	25.5	-17.16	-6,162.3	1,348.4	6,382.6	6,356.2	26.44	241.394					
7,000.0	6,919.1	7,011.8	6,848.8	15.0	25.5	-17.45	-6,162.4	1,348.5	6,374.6	6,348.3	26.28	242.555					
7,050.0	6,953.1	7,041.8	6,878.8	15.0	25.6	-18.79	-6,162.6	1,348.9	6,339.2	6,313.6	25.61	247.524					
7,086.6	6,976.4	7,058.8	6,895.8	15.1	25.6	-19.95	-6,162.7	1,349.1	6,311.8	6,286.6	25.18	250.661					
7,100.0	6,984.5	7,064.8	6,901.7	15.1	25.6	-20.42	-6,162.7	1,349.2	6,301.5	6,276.5	25.04	251.627					
7,150.0	7,013.1	7,085.8	6,922.8	15.3	25.6	-22.42	-6,162.9	1,349.5	6,261.9	6,237.2	24.68	253.763					
7,185.0	7,031.4	7,099.3	6,936.3	15.4	25.7	-24.10	-6,163.1	1,349.7	6,233.0	6,208.4	24.60	253.361					

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 731-MWD													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		
7,200.0	7,038.8	7,104.8	6,941.8	15.4	25.7	-24.91	-6,163.1	1,349.8	6,220.4	6,195.8	24.63	252.598		
7,250.0	7,061.4	7,121.7	6,958.6	15.6	25.7	-28.08	-6,163.3	1,350.0	6,177.3	6,152.2	25.04	246.689		
7,283.4	7,074.8	7,131.7	6,968.7	15.8	25.7	-30.70	-6,163.4	1,350.1	6,147.6	6,121.9	25.67	239.504		
7,300.0	7,080.9	7,151.0	6,988.0	15.9	25.7	-32.34	-6,163.7	1,350.4	6,132.7	6,106.6	26.17	234.309		
7,350.0	7,097.1	7,151.0	6,988.0	16.2	25.7	-37.59	-6,163.7	1,350.4	6,086.9	6,058.9	28.00	217.365		
7,381.9	7,105.7	7,158.8	6,995.7	16.4	25.7	-41.94	-6,163.8	1,350.5	6,057.2	6,027.5	29.72	203.785		
7,400.0	7,109.9	7,164.9	7,001.9	16.6	25.7	-44.85	-6,163.8	1,350.6	6,040.1	6,009.2	30.89	195.507		
7,450.0	7,119.4	7,178.6	7,015.6	17.0	25.8	-54.67	-6,164.0	1,350.8	5,992.5	5,957.8	34.70	172.674		
7,480.3	7,123.4	7,184.6	7,021.6	17.2	25.8	-62.07	-6,164.1	1,350.9	5,963.4	5,926.2	37.20	160.301		
7,500.0	7,125.4	7,187.6	7,024.5	17.4	25.8	-67.48	-6,164.1	1,350.9	5,944.3	5,905.6	38.73	153.481		
7,550.0	7,127.9	7,191.8	7,028.8	17.9	25.8	-82.91	-6,164.2	1,350.9	5,895.9	5,854.4	41.48	142.121		
7,562.9	7,128.0	7,192.1	7,029.1	18.0	25.8	-87.11	-6,164.2	1,350.9	5,883.4	5,841.6	41.78	140.809		
7,578.7	7,128.0	7,192.3	7,029.3	18.2	25.8	-87.12	-6,164.2	1,350.9	5,868.0	5,826.0	41.95	139.895		
7,600.0	7,127.9	7,192.6	7,029.6	18.4	25.8	-87.13	-6,164.2	1,351.0	5,847.3	5,805.1	42.16	138.679		
7,677.1	7,127.7	7,193.6	7,030.5	19.2	25.8	-87.17	-6,164.2	1,351.0	5,772.4	5,729.4	43.03	134.153		
7,700.0	7,127.7	7,193.9	7,030.8	19.5	25.8	-87.18	-6,164.2	1,351.0	5,750.2	5,707.0	43.28	132.847		
7,775.6	7,127.5	7,194.8	7,031.7	20.3	25.8	-87.22	-6,164.2	1,351.0	5,677.0	5,632.9	44.08	128.774		
7,800.0	7,127.5	7,195.1	7,032.0	20.5	25.8	-87.23	-6,164.2	1,351.0	5,653.3	5,608.9	44.34	127.490		
7,874.0	7,127.3	7,196.0	7,033.0	21.4	25.8	-87.27	-6,164.2	1,351.0	5,581.6	5,536.4	45.20	123.480		
7,900.0	7,127.2	7,196.3	7,033.3	21.7	25.8	-87.28	-6,164.2	1,351.0	5,556.4	5,510.9	45.50	122.108		
7,972.4	7,127.1	7,197.2	7,034.2	22.7	25.8	-87.32	-6,164.2	1,351.0	5,486.4	5,439.9	46.52	117.935		
8,000.0	7,127.0	7,197.5	7,034.5	23.1	25.8	-87.33	-6,164.2	1,351.0	5,459.7	5,412.8	46.91	116.394		
8,070.8	7,126.8	7,198.4	7,035.3	24.2	25.8	-87.37	-6,164.2	1,351.0	5,391.3	5,343.3	47.95	112.434		
8,100.0	7,126.8	7,198.7	7,035.7	24.6	25.8	-87.38	-6,164.2	1,351.0	5,363.1	5,314.7	48.38	110.854		
8,169.3	7,126.6	7,199.6	7,036.5	25.6	25.8	-87.41	-6,164.2	1,351.0	5,296.2	5,246.8	49.44	107.124		
8,200.0	7,126.6	7,199.9	7,036.9	26.1	25.8	-87.43	-6,164.3	1,351.0	5,266.6	5,216.7	49.91	105.520		
8,267.7	7,126.4	7,200.7	7,037.7	27.2	25.8	-87.46	-6,164.3	1,351.1	5,201.4	5,150.4	50.98	102.027		
8,300.0	7,126.3	7,201.1	7,038.1	27.7	25.8	-87.48	-6,164.3	1,351.1	5,170.3	5,118.8	51.49	100.412		
8,366.1	7,126.2	7,201.9	7,038.8	28.8	25.8	-87.51	-6,164.3	1,351.1	5,106.6	5,054.1	52.56	97.154		
8,400.0	7,126.1	7,202.3	7,039.2	29.3	25.8	-87.52	-6,164.3	1,351.1	5,074.1	5,020.9	53.11	95.537		
8,464.5	7,126.0	7,203.0	7,040.0	30.4	25.8	-87.56	-6,164.3	1,351.1	5,012.0	4,957.8	54.18	92.508		
8,500.0	7,125.9	7,203.4	7,040.4	31.0	25.8	-87.57	-6,164.3	1,351.1	4,978.0	4,923.2	54.77	90.896		
8,563.0	7,125.7	7,204.2	7,041.1	32.0	25.8	-87.60	-6,164.3	1,351.1	4,917.6	4,861.8	55.83	88.087		
8,600.0	7,125.6	7,204.6	7,041.5	32.6	25.8	-87.62	-6,164.3	1,351.1	4,882.1	4,825.6	56.45	86.485		
8,661.4	7,125.5	7,205.3	7,042.2	33.7	25.8	-87.65	-6,164.3	1,351.1	4,823.3	4,765.8	57.50	83.885		
8,700.0	7,125.4	7,205.7	7,042.7	34.4	25.8	-87.67	-6,164.3	1,351.1	4,786.3	4,728.2	58.16	82.298		
8,759.8	7,125.3	7,206.4	7,043.3	35.4	25.8	-87.69	-6,164.3	1,351.1	4,729.2	4,670.0	59.19	79.893		
8,800.0	7,125.2	7,206.9	7,043.8	36.1	25.8	-87.71	-6,164.3	1,351.1	4,690.8	4,630.9	59.89	78.325		
8,858.2	7,125.1	7,207.5	7,044.5	37.1	25.8	-87.74	-6,164.3	1,351.1	4,635.2	4,574.3	60.91	76.103		
8,900.0	7,125.0	7,208.0	7,044.9	37.8	25.8	-87.76	-6,164.3	1,351.1	4,595.4	4,533.8	61.64	74.556		
8,956.7	7,124.8	7,208.6	7,045.5	38.8	25.8	-87.78	-6,164.3	1,351.1	4,541.5	4,478.8	62.64	72.504		
9,000.0	7,124.7	7,209.1	7,046.0	39.6	25.8	-87.80	-6,164.4	1,351.2	4,500.2	4,436.8	63.40	70.979		
9,055.1	7,124.6	7,209.7	7,046.6	40.6	25.8	-87.83	-6,164.4	1,351.2	4,447.9	4,383.5	64.38	69.086		
9,100.0	7,124.5	7,210.2	7,047.1	41.4	25.8	-87.85	-6,164.4	1,351.2	4,405.3	4,340.1	65.18	67.586		
9,153.5	7,124.4	7,210.8	7,047.7	42.3	25.8	-87.87	-6,164.4	1,351.2	4,354.6	4,288.4	66.14	65.839		
9,200.0	7,124.3	7,211.3	7,048.2	43.2	25.8	-87.89	-6,164.4	1,351.2	4,310.6	4,243.6	66.97	64.364		
9,251.9	7,124.2	7,211.8	7,048.8	44.1	25.8	-87.91	-6,164.4	1,351.2	4,261.4	4,193.5	67.91	62.754		
9,300.0	7,124.1	7,212.3	7,049.3	45.0	25.8	-87.94	-6,164.4	1,351.2	4,216.1	4,147.3	68.77	61.304		
9,350.4	7,123.9	7,212.9	7,049.8	45.9	25.8	-87.96	-6,164.4	1,351.2	4,168.6	4,098.9	69.69	59.820		
9,400.0	7,123.8	7,213.4	7,050.4	46.8	25.8	-87.98	-6,164.4	1,351.2	4,121.9	4,051.3	70.58	58.396		
9,448.8	7,123.7	7,213.9	7,050.9	47.7	25.8	-88.00	-6,164.4	1,351.2	4,076.0	4,004.5	71.47	57.029		
9,500.0	7,123.6	7,214.5	7,051.4	48.6	25.8	-88.02	-6,164.4	1,351.2	4,027.9	3,955.5	72.40	55.631		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 731-MWD												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	
9,547.2	7,123.5	7,215.0	7,051.9	49.4	25.8	-88.04	-6,164.4	1,351.2	3,983.6	3,910.4	73.27	54.372	
9,600.0	7,123.4	7,215.5	7,052.5	50.4	25.8	-88.07	-6,164.4	1,351.2	3,934.3	3,860.0	74.23	53.000	
9,645.6	7,123.3	7,216.0	7,052.9	51.2	25.8	-88.09	-6,164.4	1,351.2	3,891.6	3,816.5	75.07	51.841	
9,700.0	7,123.2	7,216.6	7,053.5	52.2	25.8	-88.11	-6,164.4	1,351.2	3,840.9	3,764.9	76.07	50.495	
9,744.1	7,123.1	7,217.0	7,054.0	53.1	25.8	-88.13	-6,164.4	1,351.2	3,799.9	3,723.0	76.88	49.429	
9,800.0	7,122.9	7,217.6	7,054.5	54.1	25.8	-88.15	-6,164.4	1,351.2	3,747.9	3,670.0	77.91	48.109	
9,842.5	7,122.8	7,218.0	7,055.0	54.9	25.8	-88.17	-6,164.5	1,351.3	3,708.5	3,629.8	78.69	47.129	
9,900.0	7,122.7	7,218.6	7,055.6	55.9	25.8	-88.19	-6,164.5	1,351.3	3,655.3	3,575.6	79.75	45.835	
9,940.9	7,122.6	7,219.0	7,056.0	56.7	25.8	-88.21	-6,164.5	1,351.3	3,617.5	3,537.0	80.51	44.934	
10,000.0	7,122.5	7,219.6	7,056.6	57.8	25.8	-88.23	-6,164.5	1,351.3	3,563.1	3,481.5	81.60	43.665	
10,039.3	7,122.4	7,220.0	7,057.0	58.5	25.8	-88.25	-6,164.5	1,351.3	3,526.9	3,444.6	82.33	42.839	
10,100.0	7,122.3	7,220.6	7,057.6	59.6	25.8	-88.28	-6,164.5	1,351.3	3,471.3	3,387.9	83.46	41.595	
10,137.8	7,122.2	7,221.0	7,058.0	60.3	25.8	-88.29	-6,164.5	1,351.3	3,436.8	3,352.6	84.16	40.837	
10,200.0	7,122.0	7,221.6	7,058.6	61.5	25.8	-88.32	-6,164.5	1,351.3	3,380.0	3,294.7	85.31	39.618	
10,236.2	7,121.9	7,222.0	7,058.9	62.2	25.8	-88.33	-6,164.5	1,351.3	3,347.1	3,261.1	85.99	38.924	
10,300.0	7,121.8	7,222.6	7,059.6	63.3	25.8	-88.36	-6,164.5	1,351.3	3,289.2	3,202.0	87.18	37.730	
10,334.6	7,121.7	7,223.0	7,059.9	64.0	25.8	-88.37	-6,164.5	1,351.3	3,257.9	3,170.1	87.82	37.096	
10,400.0	7,121.6	7,223.6	7,060.5	65.2	25.8	-88.40	-6,164.5	1,351.3	3,198.9	3,109.9	89.04	35.925	
10,433.0	7,121.5	7,223.9	7,060.9	65.8	25.8	-88.41	-6,164.5	1,351.3	3,169.2	3,079.6	89.66	35.347	
10,500.0	7,121.4	7,224.6	7,061.5	67.1	25.8	-88.44	-6,164.5	1,351.3	3,109.3	3,018.3	90.91	34.200	
10,531.5	7,121.3	7,224.9	7,061.8	67.7	25.8	-88.45	-6,164.5	1,351.3	3,081.2	2,989.7	91.50	33.673	
10,600.0	7,121.1	7,225.5	7,062.5	69.0	25.8	-88.48	-6,164.5	1,351.3	3,020.2	2,927.5	92.79	32.551	
10,629.9	7,121.1	7,225.8	7,062.8	69.5	25.8	-88.49	-6,164.5	1,351.3	2,993.8	2,900.4	93.35	32.072	
10,700.0	7,120.9	7,226.5	7,063.4	70.8	25.8	-88.52	-6,164.5	1,351.3	2,931.9	2,837.3	94.66	30.973	
10,728.3	7,120.8	7,226.7	7,063.7	71.4	25.8	-88.53	-6,164.5	1,351.3	2,907.0	2,811.9	95.19	30.539	
10,800.0	7,120.7	7,227.4	7,064.4	72.7	25.8	-88.55	-6,164.5	1,351.4	2,844.4	2,747.8	96.54	29.464	
10,826.7	7,120.6	7,227.7	7,064.6	73.2	25.8	-88.56	-6,164.6	1,351.4	2,821.1	2,724.1	97.04	29.072	
10,900.0	7,120.5	7,228.4	7,065.3	74.6	25.8	-88.59	-6,164.6	1,351.4	2,757.7	2,659.3	98.42	28.021	
10,925.2	7,120.4	7,228.6	7,065.5	75.1	25.8	-88.60	-6,164.6	1,351.4	2,736.0	2,637.1	98.89	27.667	
11,000.0	7,120.2	7,229.3	7,066.2	76.5	25.8	-88.63	-6,164.6	1,351.4	2,671.9	2,571.6	100.30	26.640	
11,023.6	7,120.2	7,229.5	7,066.5	76.9	25.8	-88.64	-6,164.6	1,351.4	2,651.8	2,551.1	100.74	26.323	
11,100.0	7,120.0	7,230.2	7,067.2	78.3	25.8	-88.67	-6,164.6	1,351.4	2,587.2	2,485.0	102.18	25.319	
11,122.0	7,120.0	7,230.4	7,067.4	78.8	25.8	-88.68	-6,164.6	1,351.4	2,568.7	2,466.1	102.60	25.037	
11,200.0	7,119.8	7,231.1	7,068.1	80.2	25.8	-88.71	-6,164.6	1,351.4	2,503.6	2,399.5	104.07	24.057	
11,220.4	7,119.7	7,231.3	7,068.3	80.6	25.8	-88.71	-6,164.6	1,351.4	2,486.6	2,382.2	104.45	23.806	
11,300.0	7,119.5	7,232.0	7,069.0	82.1	25.8	-88.74	-6,164.6	1,351.4	2,421.2	2,315.2	105.95	22.851	
11,318.9	7,119.5	7,232.2	7,069.2	82.5	25.8	-88.75	-6,164.6	1,351.4	2,405.8	2,299.5	106.31	22.630	
11,400.0	7,119.3	7,232.9	7,069.9	84.0	25.8	-88.78	-6,164.6	1,351.4	2,340.2	2,232.3	107.84	21.700	
11,417.3	7,119.3	7,233.1	7,070.0	84.3	25.8	-88.79	-6,164.6	1,351.4	2,326.3	2,218.2	108.17	21.506	
11,500.0	7,119.1	7,233.8	7,070.8	85.9	25.8	-88.82	-6,164.6	1,351.4	2,260.7	2,151.0	109.73	20.602	
11,515.7	7,119.1	7,234.0	7,070.9	86.2	25.8	-88.82	-6,164.6	1,351.4	2,248.4	2,138.3	110.03	20.434	
11,600.0	7,118.9	7,234.7	7,071.7	87.8	25.8	-88.85	-6,164.6	1,351.4	2,182.9	2,071.3	111.62	19.556	
11,614.1	7,118.8	7,234.9	7,071.8	88.0	25.8	-88.86	-6,164.6	1,351.4	2,172.1	2,060.2	111.89	19.412	
11,700.0	7,118.6	7,235.6	7,072.5	89.7	25.8	-88.89	-6,164.6	1,351.4	2,107.0	1,993.5	113.52	18.561	
11,712.6	7,118.6	7,235.7	7,072.7	89.9	25.8	-88.89	-6,164.6	1,351.4	2,097.6	1,983.8	113.75	18.440	
11,800.0	7,118.4	7,236.5	7,073.4	91.6	25.8	-88.93	-6,164.6	1,351.5	2,033.2	1,917.8	115.41	17.617	
11,811.0	7,118.4	7,236.6	7,073.5	91.8	25.8	-88.93	-6,164.6	1,351.5	2,025.2	1,909.6	115.62	17.516	
11,900.0	7,118.2	7,237.3	7,074.3	93.4	25.8	-88.96	-6,164.6	1,351.5	1,961.6	1,844.3	117.30	16.723	
11,909.4	7,118.2	7,237.4	7,074.4	93.6	25.8	-88.96	-6,164.7	1,351.5	1,955.0	1,837.6	117.48	16.641	
12,000.0	7,118.0	7,238.2	7,075.1	95.3	25.8	-89.00	-6,164.7	1,351.5	1,892.7	1,773.5	119.20	15.879	
12,007.8	7,118.0	7,238.3	7,075.2	95.5	25.8	-89.00	-6,164.7	1,351.5	1,887.4	1,768.1	119.35	15.814	
12,100.0	7,117.8	7,239.1	7,076.0	97.2	25.8	-89.03	-6,164.7	1,351.5	1,826.7	1,705.6	121.10	15.084	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 731-MWD												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	
12,106.3	7,117.7	7,239.1	7,076.1	97.4	25.8	-89.03	-6,164.7	1,351.5	1,822.6	1,701.4	121.22	15.036	
12,200.0	7,117.5	7,239.9	7,076.8	99.1	25.8	-89.07	-6,164.7	1,351.5	1,763.8	1,640.8	122.99	14.341	
12,204.7	7,117.5	7,239.9	7,076.9	99.2	25.8	-89.07	-6,164.7	1,351.5	1,760.9	1,637.8	123.08	14.307	
12,300.0	7,117.3	7,240.7	7,077.7	101.0	25.8	-89.10	-6,164.7	1,351.5	1,704.5	1,579.6	124.89	13.648	
12,303.1	7,117.3	7,240.8	7,077.7	101.1	25.8	-89.10	-6,164.7	1,351.5	1,702.7	1,577.7	124.95	13.627	
12,400.0	7,117.1	7,241.6	7,078.5	102.9	25.8	-89.13	-6,164.7	1,351.5	1,649.1	1,522.3	126.79	13.007	
12,401.5	7,117.1	7,241.6	7,078.5	103.0	25.8	-89.13	-6,164.7	1,351.5	1,648.3	1,521.5	126.82	12.997	
12,500.0	7,116.9	7,242.4	7,079.3	104.8	25.8	-89.17	-6,164.7	1,351.5	1,598.1	1,469.4	128.69	12.418	
12,598.4	7,116.6	7,243.2	7,080.1	106.7	25.8	-89.20	-6,164.7	1,351.5	1,552.5	1,422.0	130.56	11.891	
12,600.0	7,116.6	7,243.2	7,080.2	106.7	25.8	-89.20	-6,164.7	1,351.5	1,551.8	1,421.3	130.59	11.883	
12,696.8	7,116.4	7,244.0	7,080.9	108.6	25.8	-89.23	-6,164.7	1,351.5	1,512.0	1,379.6	132.43	11.417	
12,700.0	7,116.4	7,244.0	7,081.0	108.6	25.8	-89.23	-6,164.7	1,351.5	1,510.8	1,378.3	132.49	11.403	
12,795.2	7,116.2	7,244.8	7,081.7	110.4	25.8	-89.27	-6,164.7	1,351.5	1,477.0	1,342.6	134.31	10.997	
12,800.0	7,116.2	7,244.8	7,081.8	110.5	25.8	-89.27	-6,164.7	1,351.5	1,475.4	1,341.0	134.40	10.978	
12,893.7	7,116.0	7,245.6	7,082.5	112.3	25.9	-89.30	-6,164.7	1,351.5	1,447.7	1,311.6	136.18	10.631	
12,900.0	7,116.0	7,245.6	7,082.6	112.4	25.9	-89.30	-6,164.7	1,351.5	1,446.1	1,309.8	136.30	10.610	
12,992.1	7,115.7	7,246.4	7,083.3	114.2	25.9	-89.33	-6,164.7	1,351.6	1,424.7	1,286.7	138.05	10.320	
13,000.0	7,115.7	7,246.4	7,083.4	114.3	25.9	-89.33	-6,164.7	1,351.6	1,423.2	1,285.0	138.20	10.298	
13,090.5	7,115.5	7,247.1	7,084.1	116.1	25.9	-89.36	-6,164.7	1,351.6	1,408.3	1,268.3	139.93	10.064	
13,100.0	7,115.5	7,247.2	7,084.2	116.2	25.9	-89.37	-6,164.7	1,351.6	1,407.0	1,266.9	140.11	10.043	
13,188.9	7,115.3	7,247.9	7,084.9	117.9	25.9	-89.39	-6,164.8	1,351.6	1,398.5	1,256.7	141.80	9.863	
13,200.0	7,115.3	7,248.0	7,084.9	118.1	25.9	-89.40	-6,164.8	1,351.6	1,397.9	1,255.9	142.01	9.843	
13,278.5	7,115.1	7,248.6	7,085.6	119.6	25.9	-89.42	-6,164.8	1,351.6	1,395.7	1,252.1	143.51	9.725 CC	
13,287.4	7,115.1	7,248.7	7,085.6	119.8	25.9	-89.43	-6,164.8	1,351.6	1,395.7	1,252.0	143.68	9.714	
13,300.0	7,115.1	7,248.8	7,085.7	120.0	25.9	-89.43	-6,164.8	1,351.6	1,395.8	1,251.9	143.92	9.699 ES	
13,385.8	7,114.9	7,249.4	7,086.4	121.7	25.9	-89.46	-6,164.8	1,351.6	1,399.8	1,254.2	145.55	9.617	
13,400.0	7,114.8	7,249.5	7,086.5	121.9	25.9	-89.46	-6,164.8	1,351.6	1,400.9	1,255.1	145.82	9.607	
13,484.2	7,114.6	7,250.2	7,087.1	123.6	25.9	-89.49	-6,164.8	1,351.6	1,410.7	1,263.3	147.43	9.569	
13,500.0	7,114.6	7,250.3	7,087.3	123.9	25.9	-89.49	-6,164.8	1,351.6	1,413.1	1,265.4	147.73	9.566 SF	
13,582.6	7,114.4	7,250.9	7,087.9	125.4	25.9	-89.52	-6,164.8	1,351.6	1,428.4	1,279.1	149.30	9.567	
13,600.0	7,114.4	7,251.1	7,088.0	125.8	25.9	-89.52	-6,164.8	1,351.6	1,432.2	1,282.6	149.63	9.571	
13,681.1	7,114.2	7,251.7	7,088.6	127.3	25.9	-89.55	-6,164.8	1,351.6	1,452.5	1,301.4	151.18	9.608	
13,700.0	7,114.2	7,251.8	7,088.8	127.7	25.9	-89.55	-6,164.8	1,351.6	1,457.9	1,306.4	151.54	9.621	
13,779.5	7,114.0	7,252.4	7,089.4	129.2	25.9	-89.58	-6,164.8	1,351.6	1,482.8	1,329.8	153.06	9.688	
13,800.0	7,113.9	7,252.6	7,089.5	129.6	25.9	-89.59	-6,164.8	1,351.6	1,489.9	1,336.4	153.45	9.709	
13,877.9	7,113.8	7,253.2	7,090.1	131.1	25.9	-89.61	-6,164.8	1,351.6	1,518.9	1,364.0	154.93	9.804	
13,900.0	7,113.7	7,253.3	7,090.3	131.5	25.9	-89.62	-6,164.8	1,351.6	1,527.8	1,372.4	155.36	9.834	
13,976.3	7,113.5	7,253.9	7,090.8	132.9	25.9	-89.64	-6,164.8	1,351.6	1,560.4	1,403.6	156.81	9.951	
14,000.0	7,113.5	7,254.1	7,091.0	133.4	25.9	-89.65	-6,164.8	1,351.6	1,571.1	1,413.8	157.26	9.990	
14,074.8	7,113.3	7,254.6	7,091.5	134.8	25.9	-89.67	-6,164.8	1,351.6	1,606.8	1,448.1	158.69	10.125	
14,100.0	7,113.3	7,254.8	7,091.7	135.3	25.9	-89.68	-6,164.8	1,351.6	1,619.5	1,460.3	159.17	10.174	
14,173.2	7,113.1	7,255.3	7,092.3	136.7	25.9	-89.70	-6,164.8	1,351.6	1,657.8	1,497.2	160.57	10.325	
14,200.0	7,113.0	7,255.5	7,092.4	137.2	25.9	-89.71	-6,164.8	1,351.6	1,672.4	1,511.3	161.08	10.382	
14,219.1	7,113.0	7,255.6	7,092.6	137.6	25.9	-89.71	-6,164.8	1,351.6	1,683.0	1,521.6	161.44	10.425	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 260-MWD												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	171.35	-5,114.8	778.1	5,173.7				
98.4	98.4	101.8	101.8	0.1	0.1	171.35	-5,114.7	777.9	5,173.5	5,173.4	0.18	N/A	
100.0	100.0	103.7	103.7	0.1	0.1	171.35	-5,114.7	777.9	5,173.5	5,173.3	0.19	N/A	
196.8	196.8	222.6	222.6	0.3	0.2	171.36	-5,114.1	777.2	5,173.0	5,172.5	0.51	N/A	
200.0	200.0	226.4	226.4	0.3	0.2	171.36	-5,114.1	777.2	5,172.9	5,172.4	0.52	N/A	
295.3	295.3	295.8	295.8	0.5	0.3	171.36	-5,113.6	776.6	5,172.3	5,171.5	0.83	6,220.661	
300.0	300.0	298.3	298.3	0.5	0.3	171.36	-5,113.6	776.6	5,172.3	5,171.4	0.85	6,105.725	
329.1	329.1	313.6	313.6	0.6	0.3	171.37	-5,113.6	776.5	5,172.2	5,171.3	0.94	5,481.712	
393.7	393.7	351.0	351.0	0.8	0.4	171.37	-5,113.7	776.4	5,172.4	5,171.3	1.16	4,442.635	
400.0	400.0	351.0	351.0	0.8	0.4	171.37	-5,113.7	776.4	5,172.5	5,171.3	1.18	4,389.282	
492.1	492.1	400.6	400.6	1.0	0.5	171.37	-5,114.3	776.4	5,173.4	5,171.9	1.49	3,478.268	
500.0	500.0	404.8	404.8	1.0	0.5	171.37	-5,114.3	776.4	5,173.6	5,172.0	1.51	3,417.650	
590.5	590.5	479.0	479.0	1.2	0.7	171.37	-5,115.9	776.8	5,175.4	5,173.6	1.87	2,767.864	
600.0	600.0	479.0	479.0	1.2	0.7	171.37	-5,115.9	776.8	5,175.6	5,173.7	1.89	2,736.873	
689.0	689.0	479.0	479.0	1.4	0.7	171.37	-5,115.9	776.8	5,178.2	5,176.1	2.09	2,476.355	
700.0	700.0	479.0	479.0	1.4	0.7	171.37	-5,115.9	776.8	5,178.6	5,176.5	2.12	2,447.554	
787.4	787.4	541.6	541.5	1.6	0.8	171.36	-5,118.0	777.8	5,181.9	5,179.5	2.45	2,115.027	
800.0	800.0	546.8	546.8	1.7	0.8	171.36	-5,118.3	777.9	5,182.5	5,180.0	2.49	2,081.351	
885.8	885.8	607.0	606.8	1.9	1.0	171.34	-5,121.2	779.9	5,187.0	5,184.2	2.82	1,842.434	
900.0	900.0	607.0	606.8	1.9	1.0	171.34	-5,121.2	779.9	5,187.7	5,184.9	2.85	1,822.076	
984.2	984.2	607.0	606.8	2.1	1.0	171.34	-5,121.2	779.9	5,192.9	5,189.9	3.04	1,710.156	
1,000.0	1,000.0	607.0	606.8	2.1	1.0	171.34	-5,121.2	779.9	5,194.0	5,191.0	3.07	1,690.813	
1,082.7	1,082.7	666.0	665.6	2.3	1.1	171.32	-5,125.2	782.7	5,200.1	5,196.7	3.40	1,530.362	
1,100.0	1,100.0	666.0	665.6	2.3	1.1	171.32	-5,125.2	782.7	5,201.5	5,198.1	3.44	1,513.420	
1,181.1	1,181.1	705.3	704.7	2.5	1.2	171.30	-5,128.3	784.9	5,208.4	5,204.7	3.71	1,403.203	
1,200.0	1,200.0	726.0	725.3	2.6	1.3	171.29	-5,129.9	786.2	5,210.1	5,206.3	3.80	1,370.140	
1,279.5	1,279.5	726.0	725.3	2.7	1.3	171.29	-5,129.9	786.2	5,217.7	5,213.7	3.98	1,310.538	
1,300.0	1,300.0	726.0	725.3	2.8	1.3	171.29	-5,129.9	786.2	5,219.9	5,215.9	4.03	1,296.098	
1,377.9	1,377.9	781.2	780.1	3.0	1.4	175.52	-5,135.0	789.9	5,229.0	5,224.6	4.35	1,203.074	
1,400.0	1,400.0	788.5	787.4	3.0	1.4	175.51	-5,135.8	790.4	5,232.1	5,227.7	4.42	1,184.799	
1,476.4	1,476.3	854.0	852.3	3.2	1.6	175.45	-5,143.3	795.6	5,245.3	5,240.6	4.75	1,103.444	
1,500.0	1,499.8	854.0	852.3	3.2	1.6	175.45	-5,143.3	795.6	5,249.6	5,244.8	4.81	1,091.709	
1,574.8	1,574.4	854.0	852.3	3.4	1.6	175.42	-5,143.3	795.6	5,265.3	5,260.3	4.98	1,056.463	
1,600.0	1,599.5	854.0	852.3	3.5	1.6	175.41	-5,143.3	795.6	5,271.2	5,266.1	5.04	1,045.384	
1,673.2	1,672.2	854.0	852.3	3.6	1.6	175.38	-5,143.3	795.6	5,290.2	5,285.0	5.21	1,014.732	
1,700.0	1,698.7	854.0	852.3	3.7	1.6	175.37	-5,143.3	795.6	5,297.9	5,292.6	5.28	1,004.261	
1,771.6	1,769.5	908.9	906.4	3.9	1.8	175.29	-5,150.8	800.8	5,319.2	5,313.7	5.59	951.816	
1,800.0	1,797.5	917.7	915.1	4.0	1.9	175.27	-5,152.1	801.7	5,328.4	5,322.8	5.68	938.628	
1,870.1	1,866.3	939.4	936.4	4.2	1.9	175.21	-5,155.3	804.1	5,352.7	5,346.8	5.90	907.847	
1,900.1	1,895.8	983.0	979.1	4.3	2.1	175.15	-5,162.4	809.3	5,364.1	5,358.0	6.08	882.602	
1,968.5	1,962.6	983.0	979.1	4.5	2.1	175.15	-5,162.4	809.3	5,389.7	5,383.5	6.24	863.660	
2,000.0	1,993.4	983.0	979.1	4.6	2.1	175.15	-5,162.4	809.3	5,401.7	5,395.4	6.32	855.363	
2,066.9	2,058.9	983.0	979.1	4.8	2.1	175.15	-5,162.4	809.3	5,427.8	5,421.3	6.48	837.647	
2,100.0	2,091.3	983.0	979.1	4.9	2.1	175.15	-5,162.4	809.3	5,441.0	5,434.4	6.56	829.845	
2,165.3	2,155.2	983.0	979.1	5.1	2.1	175.15	-5,162.4	809.3	5,467.5	5,460.7	6.71	814.319	
2,200.0	2,189.1	1,030.7	1,025.6	5.3	2.3	175.10	-5,170.9	815.6	5,481.0	5,474.1	6.94	789.958	
2,263.8	2,251.4	1,046.8	1,041.2	5.5	2.4	175.09	-5,174.1	817.9	5,507.2	5,500.1	7.14	771.115	
2,300.0	2,286.9	1,055.9	1,050.1	5.6	2.4	175.08	-5,175.9	819.1	5,522.3	5,515.1	7.26	760.864	
2,362.2	2,347.7	1,111.0	1,103.3	5.9	2.7	175.02	-5,187.6	827.2	5,549.1	5,541.5	7.57	732.966	
2,400.0	2,384.7	1,111.0	1,103.3	6.0	2.7	175.02	-5,187.6	827.2	5,565.0	5,557.3	7.67	726.006	
2,460.6	2,444.0	1,111.0	1,103.3	6.3	2.7	175.02	-5,187.6	827.2	5,591.0	5,583.2	7.82	715.184	
2,500.0	2,482.5	1,111.0	1,103.3	6.4	2.7	175.02	-5,187.6	827.2	5,608.2	5,600.3	7.92	708.395	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 260-MWD												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	
2,559.0	2,540.3	1,111.0	1,103.3	6.6	2.7	175.02	-5,187.6	827.2	5,634.3	5,626.3	8.07	698.515	
2,600.0	2,580.3	1,111.0	1,103.3	6.8	2.7	175.02	-5,187.6	827.2	5,652.8	5,644.6	8.17	691.900	
2,617.6	2,597.5	1,150.3	1,141.0	6.9	2.9	174.98	-5,196.5	833.2	5,660.5	5,652.2	8.33	679.239	
2,657.5	2,636.6	1,166.7	1,156.8	7.0	3.0	174.99	-5,200.3	835.9	5,678.2	5,669.7	8.48	669.655	
2,700.0	2,678.4	1,184.3	1,173.6	7.2	3.1	175.01	-5,204.5	838.7	5,696.7	5,688.1	8.63	659.754	
2,755.9	2,733.5	1,240.0	1,226.9	7.3	3.4	174.98	-5,217.9	848.1	5,720.6	5,711.7	8.92	641.131	
2,800.0	2,777.0	1,240.0	1,226.9	7.4	3.4	175.02	-5,217.9	848.1	5,738.6	5,729.6	9.01	636.700	
2,854.3	2,830.9	1,240.0	1,226.9	7.6	3.4	175.06	-5,217.9	848.1	5,760.3	5,751.2	9.12	631.567	
2,900.0	2,876.2	1,240.0	1,226.9	7.7	3.4	175.09	-5,217.9	848.1	5,778.1	5,768.9	9.21	627.444	
2,952.7	2,928.7	1,282.7	1,267.6	7.8	3.6	175.07	-5,228.7	855.4	5,797.9	5,788.4	9.45	613.716	
3,000.0	2,975.8	1,299.8	1,283.8	7.9	3.7	175.08	-5,233.1	858.3	5,815.2	5,805.6	9.59	606.355	
3,051.2	3,026.8	1,318.4	1,301.4	8.0	3.9	175.09	-5,238.0	861.5	5,833.3	5,823.5	9.74	598.776	
3,100.0	3,075.6	1,368.0	1,348.4	8.1	4.2	175.06	-5,251.6	869.9	5,850.2	5,840.2	9.99	585.535	
3,149.6	3,125.2	1,368.0	1,348.4	8.2	4.2	175.09	-5,251.6	869.9	5,866.4	5,856.4	10.07	582.412	
3,200.0	3,175.6	1,368.0	1,348.4	8.3	4.2	175.12	-5,251.6	869.9	5,882.5	5,872.3	10.15	579.395	
3,217.7	3,193.3	1,368.0	1,348.4	8.3	4.2	170.85	-5,251.6	869.9	5,888.0	5,877.8	10.18	578.562	
3,248.0	3,223.6	1,368.0	1,348.4	8.4	4.2	170.85	-5,251.6	869.9	5,897.5	5,887.3	10.24	576.159	
3,300.0	3,275.6	1,415.2	1,393.0	8.5	4.5	170.78	-5,265.1	878.1	5,913.7	5,903.2	10.51	562.856	
3,346.4	3,322.0	1,434.6	1,411.1	8.6	4.6	170.76	-5,270.6	881.7	5,928.4	5,917.7	10.67	555.367	
3,400.0	3,375.6	1,456.7	1,431.9	8.7	4.7	170.73	-5,277.1	885.9	5,945.7	5,934.8	10.87	547.071	
3,444.9	3,420.4	1,496.0	1,468.6	8.7	5.0	170.67	-5,288.8	893.6	5,960.4	5,949.3	11.10	536.792	
3,500.0	3,475.6	1,496.0	1,468.6	8.8	5.0	170.67	-5,288.8	893.6	5,978.5	5,967.3	11.22	532.760	
3,543.3	3,518.9	1,496.0	1,468.6	8.9	5.0	170.67	-5,288.8	893.6	5,993.1	5,981.8	11.31	529.667	
3,600.0	3,575.6	1,535.0	1,504.9	9.0	5.3	170.61	-5,300.6	901.6	6,012.3	6,000.7	11.59	518.745	
3,641.7	3,617.3	1,550.5	1,519.3	9.1	5.4	170.58	-5,305.4	904.9	6,026.6	6,014.9	11.74	513.317	
3,700.0	3,675.6	1,572.1	1,539.2	9.2	5.6	170.55	-5,312.2	909.4	6,046.9	6,034.9	11.95	506.010	
3,740.1	3,715.7	1,625.0	1,588.0	9.3	6.0	170.46	-5,329.2	920.9	6,061.3	6,049.1	12.24	495.102	
3,800.0	3,775.6	1,625.0	1,588.0	9.4	6.0	170.46	-5,329.2	920.9	6,082.5	6,070.1	12.37	491.640	
3,838.6	3,814.1	1,625.0	1,588.0	9.5	6.0	170.46	-5,329.2	920.9	6,096.3	6,083.9	12.46	489.461	
3,900.0	3,875.6	1,677.3	1,636.1	9.6	6.4	170.37	-5,346.2	932.6	6,118.7	6,105.9	12.80	478.067	
3,937.0	3,912.6	1,712.1	1,668.0	9.7	6.6	170.31	-5,357.5	940.7	6,132.1	6,119.1	13.02	471.047	
4,000.0	3,975.6	1,753.0	1,705.5	9.8	6.9	170.24	-5,370.6	950.5	6,155.0	6,141.7	13.32	462.177	
4,035.4	4,011.0	1,753.0	1,705.5	9.9	6.9	170.24	-5,370.6	950.5	6,168.1	6,154.7	13.39	460.499	
4,100.0	4,075.6	1,794.0	1,742.9	10.0	7.3	170.16	-5,384.0	960.6	6,192.0	6,178.3	13.71	451.512	
4,133.8	4,109.4	1,805.6	1,753.4	10.0	7.4	170.14	-5,387.8	963.5	6,204.7	6,190.9	13.84	448.388	
4,200.0	4,175.6	1,828.1	1,773.8	10.2	7.5	170.10	-5,395.3	969.3	6,229.9	6,215.8	14.08	442.485	
4,232.3	4,207.8	1,839.0	1,783.7	10.2	7.6	170.08	-5,399.0	972.1	6,242.3	6,228.1	14.20	439.694	
4,300.0	4,275.6	1,882.0	1,822.5	10.4	8.0	169.99	-5,413.7	983.5	6,268.7	6,254.2	14.53	431.422	
4,330.7	4,306.3	1,882.0	1,822.5	10.4	8.0	169.99	-5,413.7	983.5	6,280.7	6,266.1	14.60	430.265	
4,400.0	4,375.6	1,882.0	1,822.5	10.6	8.0	169.99	-5,413.7	983.5	6,308.3	6,293.5	14.75	427.724	
4,429.1	4,404.7	1,882.0	1,822.5	10.6	8.0	169.99	-5,413.7	983.5	6,320.0	6,305.2	14.81	426.681	
4,500.0	4,475.6	1,932.0	1,867.2	10.8	8.4	169.89	-5,431.3	997.2	6,348.6	6,333.4	15.21	417.502	
4,527.5	4,503.1	1,941.8	1,876.0	10.8	8.5	169.87	-5,434.8	999.9	6,359.9	6,344.6	15.31	415.319	
4,600.0	4,575.6	1,967.6	1,898.9	11.0	8.8	169.81	-5,444.1	1,007.0	6,389.9	6,374.3	15.59	409.758	
4,626.0	4,601.5	2,010.0	1,936.6	11.0	9.2	169.73	-5,459.7	1,018.8	6,401.0	6,385.1	15.85	403.787	
4,700.0	4,675.6	2,010.0	1,936.6	11.2	9.2	169.73	-5,459.7	1,018.8	6,431.9	6,415.9	16.01	401.636	
4,724.4	4,700.0	2,010.0	1,936.6	11.2	9.2	169.73	-5,459.7	1,018.8	6,442.3	6,426.2	16.07	400.945	
4,800.0	4,775.6	2,010.0	1,936.6	11.4	9.2	169.73	-5,459.7	1,018.8	6,474.9	6,458.7	16.23	398.861	
4,822.8	4,798.4	2,010.0	1,936.6	11.4	9.2	169.73	-5,459.7	1,018.8	6,484.9	6,468.6	16.28	398.248	
4,900.0	4,875.6	2,072.1	1,991.3	11.6	9.8	169.60	-5,483.3	1,036.4	6,518.4	6,501.6	16.76	388.993	
4,921.2	4,896.8	2,079.4	1,997.7	11.6	9.8	169.58	-5,486.1	1,038.5	6,527.8	6,510.9	16.84	387.651	
5,000.0	4,975.6	2,138.0	2,048.9	11.8	10.4	169.46	-5,509.1	1,055.3	6,563.0	6,545.7	17.30	379.438	

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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 260-MWD													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		
5,019.7	4,995.2	2,138.0	2,048.9	11.8	10.4	169.46	-5,509.1	1,055.3	6,571.7	6,554.4	17.34	378.996		
5,100.0	5,075.6	2,146.8	2,056.5	12.0	10.5	169.44	-5,512.6	1,057.9	6,607.9	6,590.4	17.56	376.340		
5,118.1	5,093.7	2,171.0	2,077.6	12.0	10.7	169.39	-5,522.2	1,064.9	6,616.2	6,598.5	17.71	373.501		
5,200.0	5,175.6	2,278.6	2,171.2	12.2	11.7	169.16	-5,564.3	1,097.1	6,653.1	6,634.7	18.40	361.553		
5,216.5	5,192.1	2,297.4	2,187.7	12.2	11.9	169.12	-5,571.6	1,102.8	6,660.5	6,642.0	18.52	359.581		
5,300.0	5,275.6	2,393.3	2,271.3	12.4	12.7	168.92	-5,608.7	1,131.1	6,697.9	6,678.8	19.14	349.990		
5,314.9	5,290.5	2,430.9	2,304.3	12.4	13.0	168.85	-5,623.3	1,142.0	6,704.5	6,685.2	19.33	346.784		
5,400.0	5,375.6	2,559.4	2,417.5	12.6	14.1	168.60	-5,672.4	1,178.1	6,741.7	6,721.6	20.08	335.681		
5,413.4	5,388.9	2,568.8	2,425.8	12.6	14.2	168.59	-5,675.9	1,180.7	6,747.6	6,727.4	20.16	334.772		
5,500.0	5,475.6	2,629.6	2,479.3	12.8	14.7	168.47	-5,699.1	1,197.5	6,785.5	6,764.9	20.62	329.066		
5,511.8	5,487.4	2,637.9	2,486.6	12.8	14.8	168.46	-5,702.3	1,199.8	6,790.7	6,770.0	20.68	328.311		
5,600.0	5,575.6	2,703.0	2,544.0	13.0	15.4	168.34	-5,727.3	1,218.0	6,829.6	6,808.4	21.19	322.377		
5,610.2	5,585.8	2,710.7	2,550.7	13.0	15.5	168.32	-5,730.3	1,220.1	6,834.1	6,812.8	21.24	321.694		
5,700.0	5,675.6	2,780.0	2,611.7	13.2	16.2	168.20	-5,757.0	1,239.5	6,873.8	6,852.1	21.77	315.740		
5,708.6	5,684.2	2,780.0	2,611.7	13.2	16.2	168.20	-5,757.0	1,239.5	6,877.7	6,855.9	21.79	315.640		
5,800.0	5,775.6	2,848.5	2,671.9	13.4	16.8	168.08	-5,783.5	1,258.7	6,918.3	6,896.0	22.31	310.165		
5,807.1	5,782.6	2,853.5	2,676.2	13.4	16.9	168.07	-5,785.5	1,260.0	6,921.5	6,899.2	22.34	309.773		
5,900.0	5,875.6	2,909.0	2,725.0	13.6	17.4	167.97	-5,807.2	1,275.3	6,963.1	6,940.3	22.80	305.367		
5,905.5	5,881.1	2,909.0	2,725.0	13.6	17.4	167.97	-5,807.2	1,275.3	6,965.6	6,942.8	22.81	305.312		
6,000.0	5,975.6	2,964.0	2,773.1	13.8	17.9	167.87	-5,828.8	1,290.7	7,008.3	6,985.0	23.28	301.045		
6,003.9	5,979.5	2,965.8	2,774.7	13.8	18.0	167.87	-5,829.5	1,291.3	7,010.1	6,986.8	23.30	300.896		
6,100.0	6,075.6	3,037.0	2,836.6	14.0	18.6	167.74	-5,857.8	1,312.1	7,054.1	7,030.3	23.84	295.908		
6,102.3	6,077.9	3,037.0	2,836.6	14.0	18.6	167.74	-5,857.8	1,312.1	7,055.2	7,031.4	23.84	295.888		
6,200.0	6,175.6	3,074.2	2,868.9	14.2	19.0	167.67	-5,872.6	1,323.2	7,100.3	7,076.1	24.23	292.979		
6,200.8	6,176.3	3,074.8	2,869.4	14.2	19.0	167.67	-5,872.8	1,323.4	7,100.6	7,076.4	24.24	292.938		
6,299.2	6,274.8	3,153.6	2,937.8	14.4	19.8	167.52	-5,904.4	1,346.7	7,146.3	7,121.5	24.83	287.859		
6,300.0	6,275.6	3,154.2	2,938.3	14.4	19.8	167.52	-5,904.6	1,346.9	7,146.7	7,121.9	24.83	287.818		
6,397.6	6,373.2	3,370.5	3,127.4	14.7	21.7	167.14	-5,989.4	1,409.0	7,190.6	7,164.6	26.00	276.545		
6,400.0	6,375.6	3,372.4	3,129.0	14.7	21.8	167.14	-5,990.2	1,409.5	7,191.7	7,165.7	26.02	276.442		
6,436.2	6,411.8	3,401.0	3,154.0	14.7	22.0	167.09	-6,001.1	1,417.9	7,208.0	7,181.8	26.22	274.883		
6,450.0	6,425.6	3,411.8	3,163.5	14.8	22.1	-13.02	-6,005.3	1,421.1	7,214.1	7,187.7	26.40	273.297		
6,496.0	6,471.5	3,563.7	3,296.9	14.8	23.5	-12.94	-6,062.8	1,465.3	7,232.4	7,205.1	27.29	265.061		
6,500.0	6,475.5	3,569.8	3,302.3	14.8	23.6	-12.92	-6,065.2	1,467.0	7,233.8	7,206.5	27.32	264.739		
6,550.0	6,525.1	3,649.3	3,372.8	14.9	24.2	-12.75	-6,095.1	1,488.1	7,250.0	7,222.2	27.75	261.287		
6,594.5	6,568.7	3,700.7	3,418.7	14.9	24.7	-12.62	-6,114.6	1,501.0	7,261.5	7,233.6	27.93	259.981		
6,600.0	6,574.1	3,705.3	3,422.8	14.9	24.7	-12.61	-6,116.3	1,502.2	7,262.7	7,234.8	27.94	259.952		
6,650.0	6,622.4	3,747.1	3,459.9	14.9	25.1	-12.52	-6,132.1	1,513.0	7,272.2	7,244.3	27.93	260.340		
6,692.9	6,663.0	3,782.9	3,491.7	14.9	25.4	-12.49	-6,145.5	1,522.6	7,277.7	7,249.8	27.82	261.578		
6,700.0	6,669.6	3,788.9	3,497.0	14.9	25.5	-12.49	-6,147.7	1,524.2	7,278.3	7,250.5	27.79	261.862		
6,750.0	6,715.6	3,829.9	3,533.3	14.9	25.8	-12.53	-6,162.9	1,535.7	7,281.2	7,253.6	27.53	264.482		
6,791.3	6,752.5	3,863.3	3,562.8	14.9	26.1	-12.61	-6,175.3	1,545.0	7,281.0	7,253.8	27.22	267.487		
6,800.0	6,760.1	3,870.2	3,569.0	14.9	26.2	-12.64	-6,177.9	1,547.0	7,280.6	7,253.5	27.14	268.218		
6,850.0	6,802.9	3,910.3	3,604.4	14.9	26.6	-12.80	-6,192.9	1,558.2	7,276.8	7,250.2	26.64	273.122		
6,889.7	6,835.6	4,064.0	3,740.8	14.9	28.0	-13.30	-6,249.2	1,601.3	7,271.2	7,244.5	26.67	272.641		
6,900.0	6,843.8	4,064.0	3,740.8	14.9	28.0	-13.33	-6,249.2	1,601.3	7,269.3	7,242.8	26.50	274.305		
6,950.0	6,882.6	4,064.0	3,740.8	14.9	28.0	-13.54	-6,249.2	1,601.3	7,258.3	7,232.7	25.64	283.140		
6,988.2	6,910.7	4,111.7	3,783.2	15.0	28.4	-13.89	-6,266.4	1,614.6	7,247.6	7,222.5	25.12	288.527		
7,000.0	6,919.1	4,116.3	3,787.3	15.0	28.4	-13.97	-6,268.1	1,615.9	7,243.9	7,219.0	24.91	290.760		
7,050.0	6,953.1	4,135.6	3,804.4	15.0	28.6	-14.40	-6,275.1	1,621.3	7,226.7	7,202.7	24.03	300.728		
7,086.6	6,976.4	4,149.3	3,816.6	15.1	28.7	-14.76	-6,280.2	1,625.2	7,212.2	7,188.8	23.38	308.429		
7,100.0	6,984.5	4,154.3	3,821.0	15.1	28.8	-14.91	-6,282.0	1,626.6	7,206.5	7,183.4	23.15	311.309		
7,150.0	7,013.1	4,193.0	3,855.2	15.3	29.1	-15.60	-6,296.5	1,637.6	7,183.5	7,161.1	22.39	320.837		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 260-MWD												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	
7,185.0	7,031.4	4,193.0	3,855.2	15.4	29.1	-16.05	-6,296.5	1,637.6	7,165.7	7,143.8	21.82	328.409	
7,200.0	7,038.8	4,193.0	3,855.2	15.4	29.1	-16.26	-6,296.5	1,637.6	7,157.6	7,136.0	21.59	331.460	
7,250.0	7,061.4	4,193.0	3,855.2	15.6	29.1	-17.05	-6,296.5	1,637.6	7,129.2	7,108.2	20.97	340.011	
7,283.4	7,074.8	4,193.0	3,855.2	15.8	29.1	-17.67	-6,296.5	1,637.6	7,108.8	7,088.1	20.68	343.755	
7,300.0	7,080.9	4,193.0	3,855.2	15.9	29.1	-18.00	-6,296.5	1,637.6	7,098.3	7,077.7	20.58	344.878	
7,350.0	7,097.1	4,193.0	3,855.2	16.2	29.1	-19.14	-6,296.5	1,637.6	7,065.0	7,044.5	20.51	344.397	
7,381.9	7,105.7	4,193.0	3,855.2	16.4	29.1	-19.98	-6,296.5	1,637.6	7,042.7	7,022.0	20.67	340.678	
7,400.0	7,109.9	4,193.0	3,855.2	16.6	29.1	-20.50	-6,296.5	1,637.6	7,029.6	7,008.7	20.84	337.371	
7,450.0	7,119.4	4,241.7	3,898.0	17.0	29.6	-22.52	-6,315.0	1,651.8	6,991.5	6,969.6	21.94	318.726	
7,480.3	7,123.4	4,246.6	3,902.2	17.2	29.7	-23.76	-6,316.8	1,653.3	6,967.7	6,945.0	22.71	306.795	
7,500.0	7,125.4	4,249.5	3,904.8	17.4	29.7	-24.66	-6,318.0	1,654.2	6,951.9	6,928.6	23.32	298.158	
7,550.0	7,127.9	4,256.4	3,910.8	17.9	29.8	-27.31	-6,320.6	1,656.3	6,910.5	6,885.3	25.24	273.830	
7,562.9	7,128.0	4,258.1	3,912.2	18.0	29.8	-28.10	-6,321.3	1,656.8	6,899.6	6,873.8	25.82	267.213	
7,578.7	7,128.0	4,260.0	3,913.9	18.2	29.8	-28.12	-6,322.0	1,657.4	6,886.1	6,860.2	25.93	265.538	
7,600.0	7,127.9	4,262.7	3,916.2	18.4	29.8	-28.15	-6,323.0	1,658.2	6,868.0	6,841.9	26.08	263.312	
7,677.1	7,127.7	4,272.3	3,924.5	19.2	29.9	-28.25	-6,326.7	1,661.2	6,802.5	6,775.8	26.67	255.065	
7,700.0	7,127.7	4,275.1	3,927.0	19.5	30.0	-28.28	-6,327.9	1,662.1	6,783.1	6,756.3	26.84	252.686	
7,775.6	7,127.5	4,321.0	3,966.6	20.3	30.4	-28.79	-6,345.8	1,676.9	6,719.5	6,691.7	27.80	241.686	
7,800.0	7,127.5	4,321.0	3,966.6	20.5	30.4	-28.79	-6,345.8	1,676.9	6,698.8	6,670.8	27.96	239.591	
7,874.0	7,127.3	4,321.0	3,966.6	21.4	30.4	-28.79	-6,345.8	1,676.9	6,636.3	6,607.9	28.48	233.044	
7,900.0	7,127.2	4,321.0	3,966.6	21.7	30.4	-28.79	-6,345.8	1,676.9	6,614.4	6,585.8	28.66	230.802	
7,972.4	7,127.1	4,321.0	3,966.6	22.7	30.4	-28.79	-6,345.8	1,676.9	6,553.6	6,524.4	29.24	224.126	
8,000.0	7,127.0	4,321.0	3,966.6	23.1	30.4	-28.79	-6,345.8	1,676.9	6,530.5	6,501.1	29.46	221.655	
8,070.8	7,126.8	4,321.0	3,966.6	24.2	30.4	-28.79	-6,345.8	1,676.9	6,471.3	6,441.3	30.06	215.274	
8,100.0	7,126.8	4,321.0	3,966.6	24.6	30.4	-28.79	-6,345.8	1,676.9	6,447.1	6,416.8	30.31	212.724	
8,169.3	7,126.6	4,355.3	3,995.9	25.6	30.8	-29.18	-6,359.3	1,688.3	6,389.4	6,358.1	31.31	204.061	
8,200.0	7,126.6	4,365.0	4,004.2	26.1	30.9	-29.29	-6,363.2	1,691.5	6,363.9	6,332.2	31.70	200.775	
8,267.7	7,126.4	4,386.4	4,022.5	27.2	31.1	-29.54	-6,371.7	1,698.6	6,307.8	6,275.2	32.57	193.657	
8,300.0	7,126.3	4,396.6	4,031.3	27.7	31.2	-29.66	-6,375.7	1,702.0	6,281.0	6,248.0	32.99	190.378	
8,366.1	7,126.2	4,417.6	4,049.2	28.8	31.5	-29.90	-6,384.0	1,709.0	6,226.4	6,192.5	33.88	183.797	
8,400.0	7,126.1	4,428.3	4,058.5	29.3	31.6	-30.03	-6,388.3	1,712.6	6,198.5	6,164.1	34.33	180.541	
8,464.5	7,126.0	4,450.0	4,077.0	30.4	31.8	-30.28	-6,396.9	1,719.8	6,145.4	6,110.1	35.24	174.404	
8,500.0	7,125.9	4,509.1	4,127.6	31.0	32.4	-30.98	-6,420.4	1,739.2	6,116.2	6,079.8	36.33	168.331	
8,563.0	7,125.7	4,587.6	4,195.4	32.0	33.2	-31.92	-6,451.4	1,763.8	6,064.2	6,026.2	37.99	159.606	
8,600.0	7,125.6	4,601.6	4,207.6	32.6	33.3	-32.09	-6,456.9	1,768.1	6,033.6	5,995.1	38.56	156.473	
8,661.4	7,125.5	4,625.0	4,227.8	33.7	33.6	-32.38	-6,466.2	1,775.3	5,983.1	5,943.5	39.52	151.409	
8,700.0	7,125.4	4,639.8	4,240.6	34.4	33.7	-32.56	-6,472.0	1,779.8	5,951.3	5,911.2	40.12	148.331	
8,759.8	7,125.3	4,662.7	4,260.5	35.4	33.9	-32.84	-6,481.1	1,786.7	5,902.2	5,861.1	41.08	143.685	
8,800.0	7,125.2	4,678.2	4,273.9	36.1	34.1	-33.03	-6,487.2	1,791.4	5,869.3	5,827.6	41.72	140.667	
8,858.2	7,125.1	4,700.6	4,293.4	37.1	34.3	-33.31	-6,496.2	1,798.2	5,821.6	5,779.0	42.68	136.407	
8,900.0	7,125.0	4,706.0	4,298.0	37.8	34.3	-33.38	-6,498.3	1,799.8	5,787.6	5,744.4	43.21	133.929	
8,956.7	7,124.8	4,706.0	4,298.0	38.8	34.3	-33.38	-6,498.3	1,799.8	5,741.5	5,697.6	43.84	130.954	
9,000.0	7,124.7	4,735.8	4,323.8	39.6	34.6	-33.75	-6,510.2	1,808.7	5,706.2	5,661.5	44.76	127.476	
9,055.1	7,124.6	4,748.9	4,335.1	40.6	34.7	-33.91	-6,515.5	1,812.5	5,661.6	5,616.0	45.58	124.213	
9,100.0	7,124.5	4,759.6	4,344.4	41.4	34.9	-34.05	-6,519.9	1,815.7	5,625.3	5,579.1	46.25	121.628	
9,153.5	7,124.4	4,772.6	4,355.6	42.3	35.0	-34.21	-6,525.2	1,819.5	5,582.2	5,535.2	47.06	118.621	
9,200.0	7,124.3	4,784.0	4,365.5	43.2	35.1	-34.35	-6,529.9	1,822.8	5,544.9	5,497.1	47.77	116.082	
9,251.9	7,124.2	4,796.8	4,376.6	44.1	35.2	-34.51	-6,535.2	1,826.5	5,503.3	5,454.7	48.57	113.311	
9,300.0	7,124.1	4,808.9	4,387.0	45.0	35.3	-34.67	-6,540.2	1,830.0	5,464.9	5,415.6	49.31	110.819	
9,350.4	7,123.9	4,835.0	4,409.5	45.9	35.6	-35.00	-6,551.1	1,837.4	5,424.8	5,374.5	50.32	107.809	
9,400.0	7,123.8	4,835.0	4,409.5	46.8	35.6	-35.00	-6,551.1	1,837.4	5,385.4	5,334.5	50.90	105.799	
9,448.8	7,123.7	4,865.0	4,435.4	47.7	35.9	-35.38	-6,563.7	1,845.9	5,346.7	5,294.8	51.97	102.886	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 260-MWD												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	
9,500.0	7,123.6	4,898.2	4,464.0	48.6	36.2	-35.81	-6,577.6	1,855.3	5,306.2	5,253.1	53.13	99.878	
9,547.2	7,123.5	4,928.6	4,490.3	49.4	36.5	-36.21	-6,590.3	1,863.9	5,268.9	5,214.7	54.21	97.199	
9,600.0	7,123.4	4,962.3	4,519.5	50.4	36.8	-36.65	-6,604.3	1,873.3	5,227.3	5,171.9	55.43	94.312	
9,645.6	7,123.3	4,981.0	4,535.6	51.2	37.0	-36.90	-6,612.0	1,878.5	5,191.3	5,135.0	56.31	92.194	
9,700.0	7,123.2	5,002.9	4,554.6	52.2	37.2	-37.19	-6,621.1	1,884.7	5,148.6	5,091.3	57.36	89.757	
9,744.1	7,123.1	5,020.6	4,569.9	53.1	37.4	-37.43	-6,628.4	1,889.7	5,114.1	5,055.9	58.22	87.835	
9,800.0	7,122.9	5,042.9	4,589.3	54.1	37.6	-37.74	-6,637.6	1,896.1	5,070.4	5,011.1	59.33	85.468	
9,842.5	7,122.8	5,059.9	4,604.0	54.9	37.7	-37.97	-6,644.6	1,900.9	5,037.3	4,977.1	60.17	83.718	
9,900.0	7,122.7	5,082.8	4,623.8	55.9	38.0	-38.28	-6,654.0	1,907.4	4,992.6	4,931.3	61.32	81.420	
9,940.9	7,122.6	5,104.1	4,642.2	56.7	38.2	-38.58	-6,662.8	1,913.6	4,960.9	4,898.7	62.24	79.706	
10,000.0	7,122.5	5,144.2	4,676.9	57.8	38.5	-39.14	-6,679.2	1,925.0	4,915.3	4,851.5	63.76	77.090	
10,039.3	7,122.4	5,170.6	4,699.8	58.5	38.8	-39.52	-6,689.9	1,932.6	4,884.9	4,820.1	64.78	75.408	
10,100.0	7,122.3	5,356.1	4,862.3	59.6	40.5	-42.24	-6,763.3	1,983.9	4,838.1	4,768.9	69.26	69.858	
10,137.8	7,122.2	5,368.7	4,873.4	60.3	40.6	-42.43	-6,768.1	1,987.3	4,808.6	4,738.6	70.02	68.672	
10,200.0	7,122.0	5,389.7	4,892.0	61.5	40.8	-42.75	-6,776.2	1,992.8	4,760.3	4,689.0	71.30	66.767	
10,236.2	7,121.9	5,402.0	4,902.9	62.2	40.9	-42.93	-6,781.0	1,996.0	4,732.2	4,660.2	72.05	65.684	
10,300.0	7,121.8	5,424.0	4,922.3	63.3	41.1	-43.27	-6,789.6	2,001.7	4,683.0	4,609.6	73.38	63.821	
10,334.6	7,121.7	5,436.0	4,933.0	64.0	41.2	-43.45	-6,794.3	2,004.7	4,656.4	4,582.3	74.11	62.834	
10,400.0	7,121.6	5,459.0	4,953.3	65.2	41.4	-43.80	-6,803.3	2,010.5	4,606.3	4,530.8	75.50	61.014	
10,433.0	7,121.5	5,470.7	4,963.6	65.8	41.5	-43.98	-6,807.9	2,013.5	4,581.1	4,504.9	76.21	60.115	
10,500.0	7,121.4	5,477.0	4,969.2	67.1	41.6	-44.08	-6,810.4	2,015.0	4,530.2	4,452.9	77.27	58.626	
10,531.5	7,121.3	5,477.0	4,969.2	67.7	41.6	-44.08	-6,810.4	2,015.0	4,506.5	4,428.7	77.71	57.989	
10,600.0	7,121.1	5,477.0	4,969.2	69.0	41.6	-44.08	-6,810.4	2,015.0	4,455.1	4,376.4	78.67	56.630	
10,629.9	7,121.1	5,511.2	4,999.3	69.5	41.9	-44.61	-6,824.0	2,023.7	4,432.5	4,352.7	79.85	55.509	
10,700.0	7,120.9	5,524.7	5,011.2	70.8	42.0	-44.82	-6,829.4	2,027.2	4,380.4	4,299.2	81.15	53.981	
10,728.3	7,120.8	5,530.2	5,016.0	71.4	42.1	-44.90	-6,831.6	2,028.6	4,359.4	4,277.7	81.67	53.377	
10,800.0	7,120.7	5,544.0	5,028.2	72.7	42.2	-45.12	-6,837.2	2,032.3	4,306.7	4,223.7	83.01	51.883	
10,826.7	7,120.6	5,549.2	5,032.7	73.2	42.3	-45.20	-6,839.3	2,033.7	4,287.2	4,203.6	83.51	51.337	
10,900.0	7,120.5	5,563.5	5,045.2	74.6	42.4	-45.43	-6,845.0	2,037.5	4,233.9	4,149.1	84.89	49.876	
10,925.2	7,120.4	5,568.4	5,049.5	75.1	42.4	-45.51	-6,847.0	2,038.9	4,215.8	4,130.4	85.37	49.385	
11,000.0	7,120.2	5,605.0	5,081.4	76.5	42.8	-46.10	-6,861.8	2,049.1	4,162.3	4,074.9	87.31	47.670	
11,023.6	7,120.2	5,605.0	5,081.4	76.9	42.8	-46.10	-6,861.8	2,049.1	4,145.4	4,057.7	87.66	47.292	
11,100.0	7,120.0	5,605.0	5,081.4	78.3	42.8	-46.10	-6,861.8	2,049.1	4,091.3	4,002.6	88.76	46.095	
11,122.0	7,120.0	5,614.1	5,089.2	78.8	42.9	-46.25	-6,865.5	2,051.7	4,075.8	3,986.5	89.30	45.643	
11,200.0	7,119.8	5,675.5	5,142.7	80.2	43.5	-47.26	-6,890.2	2,069.0	4,021.3	3,929.3	91.95	43.732	
11,220.4	7,119.7	5,691.3	5,156.5	80.6	43.6	-47.52	-6,896.5	2,073.4	4,007.0	3,914.4	92.65	43.249	
11,300.0	7,119.5	5,756.8	5,213.9	82.1	44.2	-48.62	-6,922.4	2,091.5	3,951.8	3,856.3	95.47	41.391	
11,318.9	7,119.5	5,774.7	5,229.6	82.5	44.4	-48.92	-6,929.4	2,096.4	3,938.7	3,842.5	96.21	40.940	
11,400.0	7,119.3	5,849.7	5,295.8	84.0	45.1	-50.21	-6,958.4	2,116.7	3,882.7	3,783.4	99.34	39.087	
11,417.3	7,119.3	5,869.8	5,313.6	84.3	45.3	-50.56	-6,966.0	2,122.1	3,870.8	3,770.7	100.11	38.665	
11,500.0	7,119.1	5,998.3	5,428.3	85.9	46.4	-52.85	-7,012.8	2,156.2	3,813.8	3,709.1	104.67	36.436	
11,515.7	7,119.1	6,004.5	5,433.8	86.2	46.4	-52.96	-7,015.0	2,157.8	3,802.9	3,697.9	105.07	36.193	
11,600.0	7,118.9	6,037.7	5,463.7	87.8	46.7	-53.57	-7,026.7	2,166.6	3,745.4	3,638.1	107.25	34.920	
11,614.1	7,118.8	6,043.3	5,468.7	88.0	46.7	-53.67	-7,028.7	2,168.0	3,735.8	3,628.2	107.62	34.712	
11,700.0	7,118.6	6,077.3	5,499.3	89.7	47.0	-54.30	-7,040.7	2,176.9	3,678.1	3,568.2	109.86	33.478	
11,712.6	7,118.6	6,082.3	5,503.8	89.9	47.1	-54.39	-7,042.4	2,178.2	3,669.7	3,559.5	110.19	33.302	
11,800.0	7,118.4	6,117.1	5,535.0	91.6	47.4	-55.03	-7,054.7	2,187.2	3,611.9	3,499.4	112.50	32.106	
11,811.0	7,118.4	6,121.3	5,538.8	91.8	47.4	-55.11	-7,056.2	2,188.2	3,604.7	3,491.9	112.79	31.961	
11,900.0	7,118.2	6,154.5	5,568.7	93.4	47.7	-55.73	-7,068.0	2,196.7	3,546.9	3,431.8	115.10	30.817	
11,909.4	7,118.2	6,158.1	5,571.9	93.6	47.7	-55.80	-7,069.2	2,197.6	3,540.9	3,425.5	115.34	30.699	
12,000.0	7,118.0	6,192.4	5,602.8	95.3	48.0	-56.44	-7,081.5	2,206.2	3,483.2	3,365.5	117.72	29.589	
12,007.8	7,118.0	6,195.4	5,605.5	95.5	48.0	-56.50	-7,082.6	2,207.0	3,478.3	3,360.4	117.93	29.495	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 260-MWD												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	
12,100.0	7,117.8	6,230.9	5,637.4	97.2	48.3	-57.17	-7,095.3	2,215.8	3,420.9	3,300.5	120.38	28.418	
12,106.3	7,117.7	6,233.3	5,639.6	97.4	48.3	-57.22	-7,096.2	2,216.4	3,417.0	3,296.5	120.55	28.346	
12,200.0	7,117.5	6,277.9	5,679.7	99.1	48.7	-58.07	-7,112.4	2,227.2	3,359.9	3,236.7	123.28	27.254	
12,204.7	7,117.5	6,280.4	5,682.0	99.2	48.7	-58.11	-7,113.3	2,227.8	3,357.1	3,233.7	123.43	27.199	
12,300.0	7,117.3	6,331.5	5,728.0	101.0	49.2	-59.09	-7,132.0	2,239.7	3,300.3	3,173.9	126.37	26.116	
12,303.1	7,117.3	6,333.2	5,729.5	101.1	49.2	-59.12	-7,132.6	2,240.1	3,298.5	3,172.0	126.47	26.081	
12,400.0	7,117.1	6,383.7	5,775.1	102.9	49.6	-60.10	-7,151.2	2,251.5	3,242.1	3,112.6	129.44	25.048	
12,401.5	7,117.1	6,384.4	5,775.7	103.0	49.6	-60.11	-7,151.4	2,251.6	3,241.2	3,111.7	129.48	25.032	
12,500.0	7,116.9	6,425.7	5,813.1	104.8	49.9	-60.91	-7,166.5	2,260.9	3,185.4	3,053.1	132.24	24.089	
12,598.4	7,116.6	6,465.9	5,849.4	106.7	50.2	-61.70	-7,181.0	2,270.0	3,131.2	2,996.2	134.97	23.199	
12,600.0	7,116.6	6,466.5	5,850.0	106.7	50.3	-61.71	-7,181.2	2,270.1	3,130.3	2,995.3	135.02	23.185	
12,696.8	7,116.4	6,504.0	5,884.0	108.6	50.6	-62.46	-7,194.6	2,278.6	3,078.8	2,941.1	137.67	22.364	
12,700.0	7,116.4	6,504.0	5,884.0	108.6	50.6	-62.46	-7,194.6	2,278.6	3,077.1	2,939.4	137.72	22.343	
12,795.2	7,116.2	6,504.0	5,884.0	110.4	50.6	-62.46	-7,194.6	2,278.6	3,028.5	2,889.1	139.36	21.732	
12,800.0	7,116.2	6,504.0	5,884.0	110.5	50.6	-62.46	-7,194.6	2,278.6	3,026.1	2,886.7	139.44	21.702	
12,893.7	7,116.0	6,546.8	5,922.7	112.3	50.9	-63.31	-7,209.6	2,288.7	2,980.0	2,837.8	142.19	20.958	
12,900.0	7,116.0	6,548.1	5,923.9	112.4	50.9	-63.34	-7,210.1	2,289.0	2,977.0	2,834.7	142.34	20.915	
12,992.1	7,115.7	6,567.8	5,941.7	114.2	51.1	-63.73	-7,217.0	2,293.8	2,934.0	2,789.5	144.46	20.310	
13,000.0	7,115.7	6,569.4	5,943.2	114.3	51.1	-63.77	-7,217.6	2,294.2	2,930.4	2,785.7	144.64	20.260	
13,090.5	7,115.5	6,588.7	5,960.6	116.1	51.2	-64.16	-7,224.3	2,299.0	2,890.3	2,743.6	146.73	19.699	
13,100.0	7,115.5	6,590.7	5,962.4	116.2	51.3	-64.20	-7,225.0	2,299.5	2,886.2	2,739.3	146.95	19.641	
13,188.9	7,115.3	6,632.0	5,999.6	117.9	51.6	-65.04	-7,239.5	2,310.2	2,849.3	2,699.7	149.60	19.046	
13,200.0	7,115.3	6,632.0	5,999.6	118.1	51.6	-65.04	-7,239.5	2,310.2	2,844.8	2,695.0	149.79	18.991	
13,287.4	7,115.1	6,771.7	6,126.1	119.8	52.7	-67.90	-7,288.9	2,342.6	2,810.5	2,655.6	154.93	18.140	
13,300.0	7,115.1	6,785.6	6,138.8	120.0	52.8	-68.18	-7,293.8	2,345.5	2,805.5	2,650.0	155.50	18.042	
13,385.8	7,114.9	7,097.4	6,430.6	121.7	54.9	-74.77	-7,389.3	2,398.1	2,769.9	2,606.1	163.78	16.912	
13,400.0	7,114.8	7,101.3	6,434.3	121.9	54.9	-74.85	-7,390.2	2,398.7	2,764.2	2,600.1	164.12	16.843	
13,484.2	7,114.6	7,123.4	6,455.5	123.6	55.0	-75.33	-7,395.2	2,402.1	2,731.7	2,565.6	166.07	16.449	
13,500.0	7,114.6	7,127.3	6,459.3	123.9	55.0	-75.42	-7,396.1	2,402.8	2,725.8	2,559.4	166.44	16.377	
13,582.6	7,114.4	7,148.0	6,479.2	125.4	55.2	-75.88	-7,400.6	2,406.1	2,696.3	2,527.9	168.33	16.017	
13,600.0	7,114.4	7,155.5	6,486.5	125.8	55.2	-76.04	-7,402.2	2,407.3	2,690.3	2,521.6	168.79	15.939	
13,681.1	7,114.2	7,189.1	6,518.9	127.3	55.4	-76.78	-7,409.3	2,412.6	2,663.8	2,492.9	170.86	15.591	
13,700.0	7,114.2	7,195.9	6,525.5	127.7	55.4	-76.94	-7,410.7	2,413.7	2,657.9	2,486.6	171.32	15.514	
13,779.5	7,114.0	7,224.0	6,552.6	129.2	55.5	-77.56	-7,416.5	2,418.0	2,634.3	2,461.0	173.26	15.205	
13,800.0	7,113.9	7,231.1	6,559.4	129.6	55.6	-77.71	-7,417.9	2,419.1	2,628.5	2,454.8	173.75	15.128	
13,877.9	7,113.8	7,257.2	6,584.7	131.1	55.7	-78.29	-7,423.1	2,423.0	2,607.9	2,432.3	175.61	14.851	
13,900.0	7,113.7	7,264.4	6,591.7	131.5	55.7	-78.46	-7,424.5	2,424.1	2,602.5	2,426.3	176.13	14.776	
13,976.3	7,113.5	7,290.6	6,617.2	132.9	55.8	-79.04	-7,429.6	2,427.9	2,584.8	2,406.9	177.95	14.526	
14,000.0	7,113.5	7,298.8	6,625.1	133.4	55.9	-79.22	-7,431.1	2,429.1	2,579.7	2,401.2	178.51	14.452	
14,074.8	7,113.3	7,323.3	6,649.0	134.8	56.0	-79.77	-7,435.6	2,432.6	2,565.0	2,384.8	180.25	14.230	
14,100.0	7,113.3	7,331.2	6,656.6	135.3	56.0	-79.95	-7,437.0	2,433.7	2,560.5	2,379.7	180.83	14.160	
14,173.2	7,113.1	7,352.9	6,677.8	136.7	56.1	-80.43	-7,440.8	2,436.7	2,548.6	2,366.2	182.50	13.966	
14,200.0	7,113.0	7,360.5	6,685.2	137.2	56.2	-80.60	-7,442.1	2,437.8	2,544.8	2,361.7	183.10	13.899	
14,219.1	7,113.0	7,365.8	6,690.4	137.6	56.2	-80.72	-7,443.0	2,438.5	2,542.2	2,358.7	183.53	13.852 CC, ES, SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

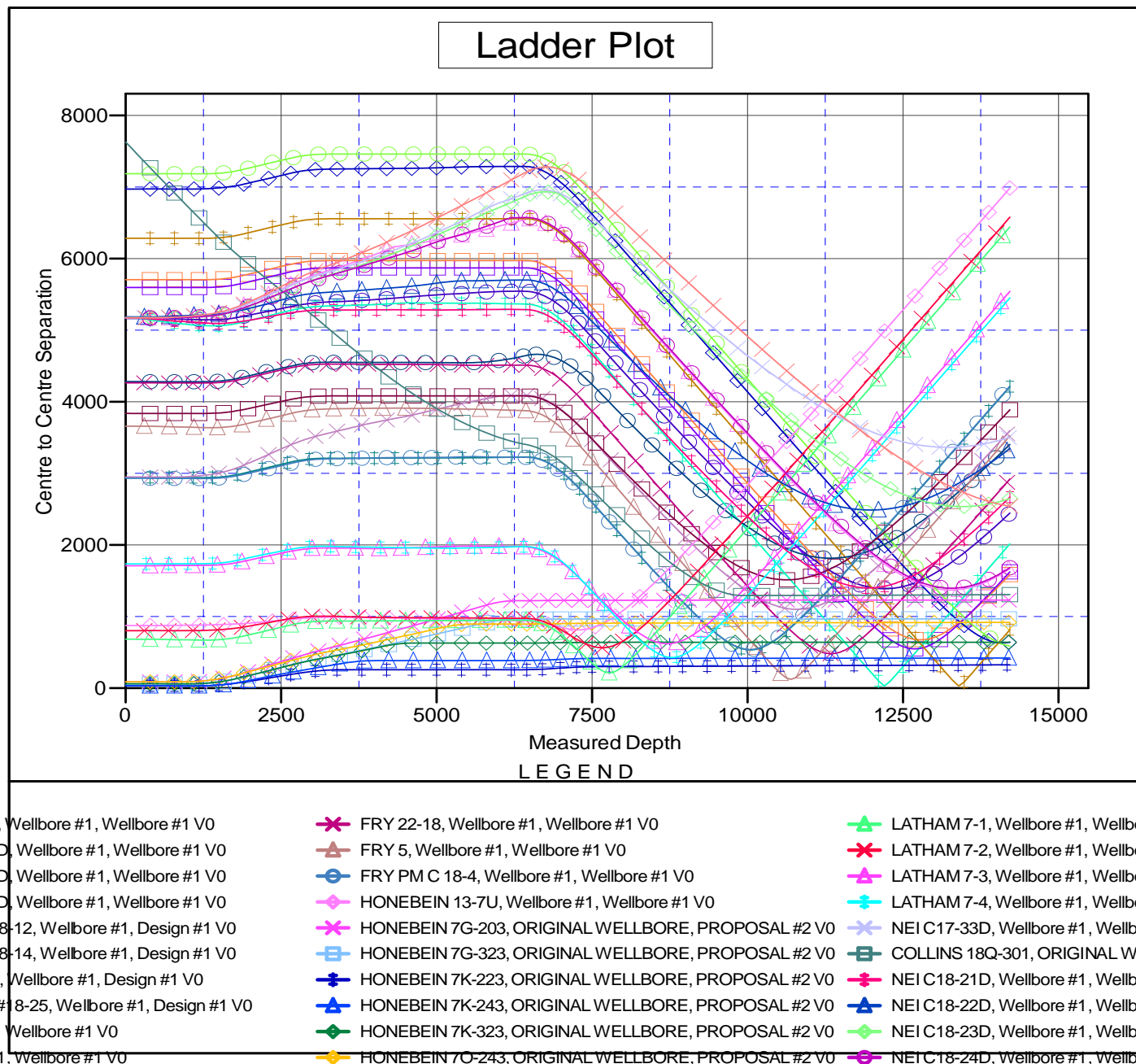
Reference Depths are relative to KB-EST @ 4862.5usft (Original Well ECoordinates are relative to: HONEBEIN 7K-403

Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, Colorado Northern Zone

Central Meridian is -105.500000

Grid Convergence at Surface is: 0.58°



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



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-403
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4862.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-403	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB-EST @ 4862.5usft (Original Well ECoordinates are relative to: HONEBEIN 7K-403

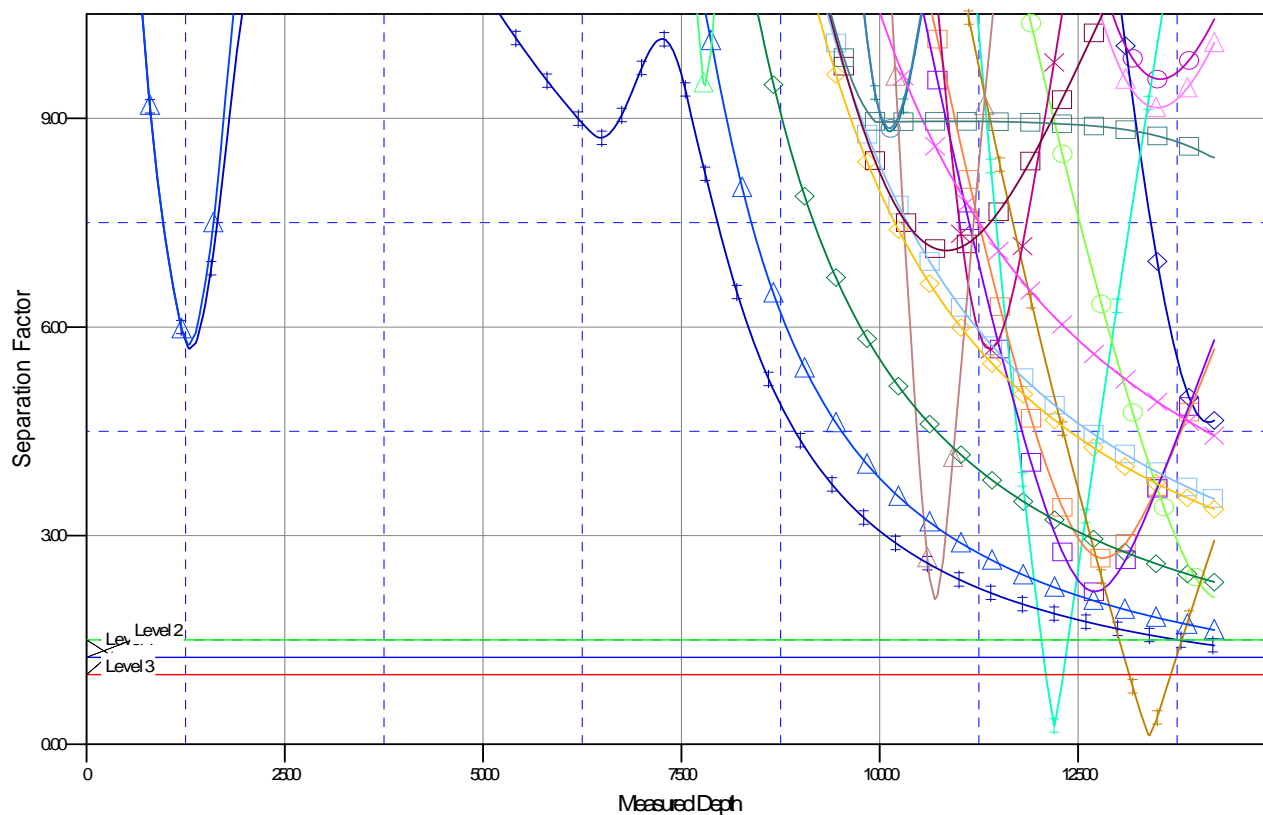
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, Colorado Northern Zone

Central Meridian is -105.500000

Grid Convergence at Surface is: 0.58°

## Separation Factor Plot



### LEGEND

1, Wellbore #1, Wellbore #1 V0	FRY 22-18, Wellbore #1, Wellbore #1 V0	LATHAM 7-1, Wellbore #1, Wellbore
2D, Wellbore #1, Wellbore #1 V0	FRY 5, Wellbore #1, Wellbore #1 V0	LATHAM 7-2, Wellbore #1, Wellbore
3D, Wellbore #1, Wellbore #1 V0	FRY PM C 18-4, Wellbore #1, Wellbore #1 V0	LATHAM 7-3, Wellbore #1, Wellbore
18-12, Wellbore #1, Design #1 V0	HONEBEIN 13-7U, Wellbore #1, Wellbore #1 V0	LATHAM 7-4, Wellbore #1, Wellbore
18-14, Wellbore #1, Design #1 V0	HONEBEIN 7G-203, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C17-33D, Wellbore #1, Wellbore
2, Wellbore #1, Design #1 V0	HONEBEIN 7G-323, ORIGINAL WELLBORE, PROPOSAL #2 V0	COLLINS 18Q-301, ORIGINAL WEL
# 8-25, Wellbore #1, Design #1 V0	HONEBEIN 7K-223, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-21D, Wellbore #1, Wellbore
1, Wellbore #1 V0	HONEBEIN 7K-243, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-22D, Wellbore #1, Wellbore
#1, Wellbore #1 V0	HONEBEIN 7K-323, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-23D, Wellbore #1, Wellbore
	HONEBEIN 7O-243, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-24D, Wellbore #1, Wellbore