

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
NE SW SEC. 7 T4N R64W 6th P.M.  
HONEBEIN 7K-323**

**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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	14,162.0	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	14,029.2	7,000.0	1,251.9	1,111.3	8.902	CC
ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1	14,074.8	7,000.0	1,252.7	1,111.2	8.851	ES
ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1	14,162.0	7,000.0	1,258.9	1,115.7	8.791	SF
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,142.4	7,077.9	601.6	484.5	5.141	CC, ES
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,204.7	7,077.2	604.8	486.5	5.115	SF
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,143.6	7,384.5	2,014.3	1,892.7	16.568	CC
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,200.0	7,383.5	2,015.1	1,892.4	16.426	ES
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,795.2	7,373.3	2,117.0	1,982.7	15.762	SF
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,200.4	7,567.2	2,001.5	1,850.9	13.290	CC, ES
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,700.0	7,572.4	2,062.9	1,902.5	12.861	SF
EXIST VERT FARR #18-12 - Wellbore #1 - Design #1	12,720.4	6,957.3	1,304.8	1,052.2	5.164	CC, ES
EXIST VERT FARR #18-12 - Wellbore #1 - Design #1	12,893.7	6,956.7	1,316.3	1,060.2	5.141	SF
EXIST VERT FARR #18-14 - Wellbore #1 - Design #1	14,162.0	6,977.5	73.4	-207.7	0.261	Level 1, CC, ES, SF
EXIST VERT FARR #2 - Wellbore #1 - Design #1	12,628.5	6,972.6	80.8	-170.2	0.322	Level 1, CC, ES, SF
EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1	13,340.8	6,967.2	597.0	332.1	2.254	CC, ES
EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1	13,385.8	6,967.1	598.7	332.9	2.253	SF
FRY 18-1 - Wellbore #1 - Wellbore #1	11,276.0	5,400.0	2,057.1	1,992.7	31.969	CC
FRY 18-1 - Wellbore #1 - Wellbore #1	11,300.0	5,400.0	2,057.2	1,992.5	31.806	ES
FRY 18-1 - Wellbore #1 - Wellbore #1	12,200.0	5,400.0	2,255.1	2,177.8	29.190	SF
FRY 21-18 - Wellbore #1 - Wellbore #1	9,978.5	6,994.8	99.3	37.8	1.616	CC, ES, SF
FRY 21-6I - Wellbore #1 - Wellbore #1	10,730.9	7,083.8	470.5	376.1	4.984	CC, ES
FRY 21-6I - Wellbore #1 - Wellbore #1	10,800.0	7,084.9	475.6	379.8	4.967	SF
FRY 22-18 - Wellbore #1 - Wellbore #1	11,276.3	6,981.8	149.6	63.0	1.728	CC, ES, SF
FRY 5 - Wellbore #1 - Wellbore #1	10,634.4	6,974.1	721.3	647.0	9.710	CC, ES
FRY 5 - Wellbore #1 - Wellbore #1	10,800.0	6,964.1	740.0	662.5	9.553	SF
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	9,974.2	7,000.0	1,164.4	1,102.6	18.852	CC
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,000.0	7,000.0	1,164.7	1,102.4	18.708	ES
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,400.0	7,000.0	1,239.8	1,169.9	17.730	SF
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	98.4	73.6	934.7	934.6	5,411.073	CC
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	689.0	659.3	935.7	933.6	429.184	ES
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	8,858.2	7,000.0	2,186.4	2,133.4	41.223	SF
HONEBEIN 7G-203 - ORIGINAL WELLBORE - PROPOSAL	1,000.0	995.0	150.6	146.3	35.604	CC, ES
HONEBEIN 7G-203 - ORIGINAL WELLBORE - PROPOSAL	14,162.0	14,170.4	1,852.4	1,569.4	6.546	SF
HONEBEIN 7G-323 - ORIGINAL WELLBORE - PROPOSAL	1,100.0	1,096.0	119.9	115.2	25.615	CC, ES
HONEBEIN 7G-323 - ORIGINAL WELLBORE - PROPOSAL	14,162.0	14,210.5	1,595.9	1,316.7	5.717	SF
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOSAL	1,100.0	1,099.0	30.7	26.0	6.543	CC, ES
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOSAL	14,162.0	14,079.0	382.6	105.3	1.379	Level 3, 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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 7K-243 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,097.0	92.0	87.3	19.648	CC, ES
HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOS	14,162.0	14,075.1	1,016.5	737.4	3.642	SF
HONEBEIN 7K-403 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,098.0	61.3	56.7	13.093	CC, ES
HONEBEIN 7K-403 - ORIGINAL WELLBORE - PROPOS	14,162.0	14,219.1	641.7	366.5	2.332	SF
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	989.4	990.4	27.9	23.7	6.647	CC
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	14,162.0	14,141.5	278.0	6.8	1.025	Level 2, ES, SF
HOW SAD C 18-31 - Wellbore #1 - Design #1	10,574.0	6,944.3	2,143.5	1,932.7	10.170	CC
HOW SAD C 18-31 - Wellbore #1 - Design #1	10,629.9	6,944.1	2,144.2	1,932.4	10.121	ES
HOW SAD C 18-31 - Wellbore #1 - Design #1	11,000.0	6,942.9	2,185.4	1,966.4	9.980	SF
LATHAM 7-1 - Wellbore #1 - Wellbore #1	1,127.6	1,103.4	693.9	690.9	225.717	CC, ES
LATHAM 7-1 - Wellbore #1 - Wellbore #1	8,267.7	6,984.5	985.9	955.5	32.463	SF
LATHAM 7-2 - Wellbore #1 - Wellbore #1	7,601.2	7,000.0	83.2	62.3	3.990	CC, ES, SF
LATHAM 7-3 - Wellbore #1 - Wellbore #1	8,648.8	6,994.3	1,241.3	1,204.3	33.528	CC
LATHAM 7-3 - Wellbore #1 - Wellbore #1	8,661.4	6,994.5	1,241.4	1,204.1	33.328	ES
LATHAM 7-3 - Wellbore #1 - Wellbore #1	9,448.8	7,006.4	1,476.7	1,425.0	28.560	SF
LATHAM 7-4 - Wellbore #1 - Wellbore #1	8,721.6	7,012.3	204.0	165.6	5.318	CC, ES
LATHAM 7-4 - Wellbore #1 - Wellbore #1	8,759.8	7,012.3	207.5	168.5	5.316	SF
SE SE SEC. 18 T4N R64W 6th P.M.						
COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOS	9,888.7	11,613.5	654.7	507.8	4.456	CC, ES
COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOS	14,162.0	7,345.9	670.3	510.5	4.196	SF
NEI C17-33D - Wellbore #1 - Wellbore #1	13,196.0	6,509.9	2,746.6	2,603.3	19.171	CC
NEI C17-33D - Wellbore #1 - Wellbore #1	13,287.4	6,525.4	2,748.1	2,602.8	18.921	ES
NEI C17-33D - Wellbore #1 - Wellbore #1	14,162.0	6,662.1	2,908.9	2,744.9	17.736	SF
NEI C18-21D - Wellbore #1 - Wellbore #1	11,883.0	7,047.8	768.3	655.8	6.828	CC
NEI C18-21D - Wellbore #1 - Wellbore #1	11,900.0	7,047.9	768.5	655.7	6.810	ES
NEI C18-21D - Wellbore #1 - Wellbore #1	12,000.0	7,048.2	777.2	662.4	6.770	SF
NEI C18-22D - Wellbore #1 - Wellbore #1	11,916.7	7,244.3	1,856.5	1,740.5	16.010	CC, ES
NEI C18-22D - Wellbore #1 - Wellbore #1	12,500.0	7,241.1	1,946.0	1,818.6	15.279	SF
NEI C18-23D - Wellbore #1 - Wellbore #1	13,396.0	7,443.9	1,906.3	1,749.9	12.186	CC
NEI C18-23D - Wellbore #1 - Wellbore #1	13,400.0	7,443.7	1,906.3	1,749.8	12.180	ES
NEI C18-23D - Wellbore #1 - Wellbore #1	13,877.9	7,424.8	1,966.2	1,800.3	11.849	SF
NEI C18-24D - Wellbore #1 - Wellbore #1	13,215.1	7,133.0	763.9	617.3	5.209	CC, ES
NEI C18-24D - Wellbore #1 - Wellbore #1	13,287.4	7,133.7	767.3	619.3	5.182	SF
OSTER C19-27D - Wellbore #1 - Wellbore #1	14,162.0	7,322.2	1,907.0	1,719.8	10.186	CC, ES, SF

<b>Offset Design</b> NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - 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
0.0	0.0	0.0	0.0	0.0	0.0	-173.92	-6,940.0	-739.1	6,979.3				
98.4	98.4	103.7	103.7	0.1	0.1	-173.92	-6,939.9	-738.9	6,979.2	6,979.0	0.15	N/A	
100.0	100.0	105.3	105.3	0.1	0.1	-173.92	-6,939.9	-738.9	6,979.2	6,979.0	0.16	N/A	
196.8	196.8	205.4	205.4	0.3	0.2	-173.92	-6,939.7	-738.6	6,978.9	6,978.4	0.53	N/A	
200.0	200.0	208.2	208.2	0.3	0.2	-173.92	-6,939.7	-738.6	6,978.9	6,978.3	0.54	N/A	
295.3	295.3	295.0	295.0	0.5	0.3	-173.93	-6,939.5	-738.5	6,978.7	6,977.8	0.83	8,439.823	
300.0	300.0	300.0	300.0	0.5	0.3	-173.93	-6,939.5	-738.5	6,978.7	6,977.8	0.84	8,291.900	
393.7	393.7	387.2	387.2	0.8	0.3	-173.93	-6,939.4	-738.3	6,978.6	6,977.5	1.09	6,387.968	
400.0	400.0	393.1	393.1	0.8	0.4	-173.93	-6,939.4	-738.3	6,978.6	6,977.4	1.11	6,290.775	
431.0	431.0	419.5	419.5	0.8	0.4	-173.93	-6,939.4	-738.2	6,978.5	6,977.3	1.19	5,847.939	

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

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<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
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
492.1	492.1	470.0	470.0	1.0	0.4	-173.93	-6,939.5	-738.0	6,978.6	6,977.2	1.36	5,132.269	
500.0	500.0	476.5	476.5	1.0	0.4	-173.93	-6,939.5	-737.9	6,978.6	6,977.2	1.38	5,052.635	
590.5	590.5	557.7	557.7	1.2	0.4	-173.93	-6,939.7	-737.5	6,978.8	6,977.2	1.63	4,279.597	
600.0	600.0	566.4	566.4	1.2	0.4	-173.93	-6,939.7	-737.5	6,978.9	6,977.2	1.66	4,212.004	
689.0	689.0	647.0	647.0	1.4	0.5	-173.94	-6,940.1	-737.1	6,979.2	6,977.3	1.90	3,675.555	
700.0	700.0	656.9	656.8	1.4	0.5	-173.94	-6,940.1	-737.1	6,979.2	6,977.3	1.93	3,619.263	
787.4	787.4	735.6	735.6	1.6	0.5	-173.94	-6,940.6	-736.9	6,979.7	6,977.5	2.16	3,226.447	
800.0	800.0	747.1	747.1	1.7	0.5	-173.94	-6,940.6	-736.8	6,979.8	6,977.6	2.20	3,177.148	
885.8	885.8	826.8	826.8	1.9	0.6	-173.94	-6,941.2	-736.6	6,980.3	6,977.9	2.43	2,876.586	
900.0	900.0	840.5	840.5	1.9	0.6	-173.94	-6,941.3	-736.5	6,980.4	6,978.0	2.46	2,832.423	
984.2	984.2	920.2	920.2	2.1	0.6	-173.94	-6,941.9	-736.4	6,981.0	6,978.3	2.69	2,596.218	
1,000.0	1,000.0	934.3	934.3	2.1	0.6	-173.94	-6,942.0	-736.4	6,981.1	6,978.4	2.73	2,556.945	
1,082.7	1,082.7	1,008.4	1,008.4	2.3	0.6	-173.95	-6,942.6	-736.3	6,981.8	6,978.9	2.95	2,368.932	
1,100.0	1,100.0	1,023.7	1,023.7	2.3	0.6	-173.95	-6,942.8	-736.2	6,982.0	6,979.0	2.99	2,333.342	
1,181.1	1,181.1	1,100.0	1,100.0	2.5	0.7	123.47	-6,943.5	-736.1	6,983.4	6,980.3	3.17	2,199.622	
1,200.0	1,200.0	1,114.2	1,114.2	2.6	0.7	123.46	-6,943.7	-736.1	6,984.0	6,980.7	3.22	2,167.556	
1,279.5	1,279.4	1,199.6	1,199.6	2.7	0.7	123.44	-6,944.6	-736.1	6,986.9	6,983.5	3.43	2,037.553	
1,300.0	1,299.8	1,221.2	1,221.2	2.8	0.7	123.43	-6,944.8	-736.2	6,987.9	6,984.4	3.48	2,006.790	
1,377.9	1,377.5	1,303.4	1,303.4	3.0	0.8	123.41	-6,945.5	-736.3	6,992.2	6,988.5	3.69	1,894.026	
1,400.0	1,399.5	1,326.7	1,326.7	3.0	0.8	123.40	-6,945.7	-736.4	6,993.6	6,989.8	3.75	1,864.571	
1,476.4	1,475.3	1,408.6	1,408.6	3.2	0.8	123.38	-6,946.4	-736.6	6,999.2	6,995.2	3.97	1,764.250	
1,500.0	1,498.7	1,439.3	1,439.2	3.2	0.8	123.37	-6,946.6	-736.8	7,001.2	6,997.1	4.03	1,735.235	
1,574.8	1,572.6	1,536.4	1,536.4	3.5	0.8	123.37	-6,947.1	-737.3	7,007.9	7,003.6	4.26	1,643.699	
1,600.0	1,597.5	1,569.3	1,569.2	3.5	0.8	123.36	-6,947.1	-737.5	7,010.3	7,006.0	4.34	1,615.439	
1,673.2	1,669.4	1,664.8	1,664.7	3.7	0.8	123.36	-6,947.2	-737.9	7,017.9	7,013.4	4.57	1,536.993	
1,700.0	1,695.7	1,699.7	1,699.7	3.8	0.8	123.36	-6,947.1	-737.9	7,020.9	7,016.3	4.65	1,511.108	
1,771.6	1,765.7	1,777.7	1,777.7	4.1	0.9	123.47	-6,946.9	-737.8	7,029.1	7,024.2	4.88	1,439.097	
1,800.0	1,793.4	1,809.5	1,809.5	4.2	0.9	123.51	-6,946.8	-737.7	7,032.3	7,027.3	4.98	1,412.553	
1,870.1	1,862.0	1,894.0	1,894.0	4.4	0.9	123.63	-6,946.4	-737.5	7,040.1	7,034.9	5.23	1,347.270	
1,900.0	1,891.3	1,923.9	1,923.9	4.5	0.9	123.67	-6,946.2	-737.4	7,043.4	7,038.1	5.33	1,321.776	
1,968.5	1,958.3	1,989.5	1,989.5	4.8	0.9	123.77	-6,945.8	-737.2	7,051.0	7,045.4	5.58	1,264.751	
2,000.0	1,989.1	2,017.9	2,017.9	4.9	0.9	123.81	-6,945.7	-737.1	7,054.5	7,048.8	5.69	1,240.174	
2,066.9	2,054.5	2,076.3	2,076.3	5.2	0.9	123.89	-6,945.4	-736.9	7,062.0	7,056.1	5.93	1,189.949	
2,100.0	2,086.9	2,105.5	2,105.5	5.3	0.9	123.93	-6,945.3	-736.7	7,065.8	7,059.7	6.06	1,166.597	
2,165.3	2,150.8	2,165.8	2,165.8	5.6	0.9	124.01	-6,945.1	-736.3	7,073.2	7,066.9	6.30	1,121.846	
2,200.0	2,184.7	2,200.0	2,200.0	5.7	1.0	124.05	-6,945.0	-736.1	7,077.2	7,070.8	6.44	1,099.466	
2,263.8	2,247.1	2,261.1	2,261.1	5.9	1.0	124.14	-6,944.8	-735.7	7,084.5	7,077.8	6.68	1,060.054	
2,300.0	2,282.5	2,297.2	2,297.1	6.1	1.0	124.19	-6,944.7	-735.5	7,088.7	7,081.8	6.82	1,038.913	
2,362.2	2,343.4	2,346.8	2,346.8	6.4	1.0	124.25	-6,944.6	-735.2	7,095.9	7,088.8	7.06	1,004.486	
2,400.0	2,380.3	2,376.6	2,376.6	6.5	1.0	124.29	-6,944.6	-735.0	7,100.3	7,093.1	7.21	984.731	
2,460.6	2,439.6	2,425.4	2,425.4	6.8	1.0	124.36	-6,944.6	-734.7	7,107.5	7,100.0	7.45	954.304	
2,500.0	2,478.1	2,457.7	2,457.7	6.9	1.0	124.40	-6,944.6	-734.6	7,112.2	7,104.6	7.60	935.623	
2,559.0	2,535.9	2,507.3	2,507.2	7.2	1.0	124.47	-6,944.8	-734.5	7,119.4	7,111.5	7.84	908.613	
2,600.0	2,576.0	2,546.9	2,546.9	7.4	1.0	124.53	-6,944.9	-734.4	7,124.4	7,116.4	8.00	890.643	
2,657.5	2,632.2	2,600.0	2,599.9	7.6	1.1	124.60	-6,945.0	-734.2	7,131.4	7,123.2	8.23	866.510	
2,700.0	2,673.8	2,640.7	2,640.6	7.8	1.1	124.65	-6,945.2	-734.1	7,136.6	7,128.2	8.40	849.575	
2,755.9	2,728.4	2,691.0	2,690.9	8.0	1.1	124.72	-6,945.3	-734.0	7,143.5	7,134.9	8.62	828.267	
2,800.0	2,771.6	2,730.1	2,730.1	8.2	1.1	124.78	-6,945.5	-733.9	7,149.0	7,140.2	8.80	812.159	
2,854.3	2,824.7	2,778.1	2,778.1	8.4	1.1	124.84	-6,945.7	-733.9	7,155.8	7,146.8	9.02	793.068	
2,900.0	2,869.4	2,818.6	2,818.5	8.6	1.1	124.90	-6,945.9	-733.9	7,161.5	7,152.3	9.21	777.735	
2,952.7	2,921.0	2,865.5	2,865.4	8.9	1.1	124.96	-6,946.2	-733.9	7,168.2	7,158.8	9.42	760.696	
3,000.0	2,967.2	2,907.4	2,907.3	9.1	1.1	125.02	-6,946.5	-733.9	7,174.3	7,164.6	9.62	746.096	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
3,051.2	3,017.3	2,952.4	2,952.3	9.3	1.2	125.08	-6,946.8	-733.9	7,180.8	7,171.0	9.83	730.861	
3,100.0	3,065.0	3,000.0	2,999.9	9.5	1.2	125.14	-6,947.2	-734.0	7,187.1	7,177.1	10.03	716.859	
3,149.6	3,113.5	3,041.1	3,041.1	9.7	1.2	125.20	-6,947.5	-734.0	7,193.6	7,183.3	10.23	703.263	
3,200.0	3,162.8	3,087.9	3,087.9	9.9	1.2	125.26	-6,947.9	-734.0	7,200.1	7,189.7	10.44	689.929	
3,248.0	3,209.8	3,136.4	3,136.3	10.2	1.2	125.33	-6,948.3	-734.1	7,206.4	7,195.8	10.63	677.641	
3,300.0	3,260.7	3,190.4	3,190.3	10.4	1.2	125.40	-6,948.8	-734.3	7,213.2	7,202.4	10.85	664.846	
3,346.4	3,306.1	3,232.7	3,232.6	10.6	1.2	125.46	-6,949.1	-734.4	7,219.3	7,208.2	11.04	653.877	
3,400.0	3,358.5	3,279.7	3,279.6	10.8	1.2	125.53	-6,949.5	-734.6	7,226.3	7,215.1	11.26	641.727	
3,444.9	3,402.4	3,321.9	3,321.9	11.0	1.2	125.59	-6,949.9	-734.9	7,232.3	7,220.8	11.45	631.857	
3,500.0	3,456.3	3,377.5	3,377.4	11.3	1.3	125.66	-6,950.3	-735.2	7,239.5	7,227.9	11.67	620.130	
3,543.3	3,498.6	3,417.0	3,417.0	11.5	1.3	125.72	-6,950.7	-735.5	7,245.3	7,233.4	11.85	611.263	
3,600.0	3,554.1	3,463.1	3,463.1	11.7	1.3	125.78	-6,951.1	-735.9	7,252.9	7,240.8	12.09	600.118	
3,641.7	3,594.9	3,500.0	3,499.9	11.9	1.3	125.83	-6,951.5	-736.2	7,258.5	7,246.2	12.26	592.150	
3,700.0	3,651.9	3,556.3	3,556.3	12.2	1.3	125.91	-6,952.1	-736.8	7,266.4	7,253.9	12.50	581.385	
3,740.1	3,691.2	3,597.7	3,597.6	12.3	1.3	125.97	-6,952.5	-737.3	7,271.8	7,259.2	12.66	574.176	
3,800.0	3,749.7	3,643.7	3,643.6	12.6	1.3	126.04	-6,952.9	-738.0	7,280.0	7,267.1	12.91	563.936	
3,838.6	3,787.5	3,672.9	3,672.8	12.8	1.3	126.08	-6,953.2	-738.6	7,285.3	7,272.2	13.07	557.542	
3,900.0	3,847.5	3,743.7	3,743.6	13.0	1.3	126.19	-6,954.0	-740.2	7,293.8	7,280.5	13.32	547.561	
3,937.0	3,883.7	3,804.3	3,804.1	13.2	1.3	126.28	-6,954.4	-741.5	7,298.8	7,285.4	13.48	541.634	
4,000.0	3,945.4	3,869.2	3,869.0	13.5	1.3	126.37	-6,954.8	-743.0	7,307.3	7,293.5	13.73	532.120	
4,035.4	3,980.0	3,906.9	3,906.8	13.7	1.3	126.43	-6,954.9	-743.8	7,312.0	7,298.1	13.88	526.916	
4,068.9	4,012.7	3,948.9	3,948.8	13.8	1.4	126.49	-6,955.1	-744.7	7,316.5	7,302.5	14.01	522.073	
4,100.0	4,043.2	3,988.1	3,987.9	13.9	1.4	126.61	-6,955.2	-745.5	7,320.5	7,306.4	14.12	518.584	
4,133.8	4,076.4	4,035.3	4,035.1	14.0	1.4	126.74	-6,955.3	-746.4	7,324.6	7,310.4	14.21	515.627	
4,200.0	4,141.6	4,121.5	4,121.3	14.2	1.4	126.96	-6,955.3	-747.6	7,331.7	7,317.3	14.38	509.908	
4,232.3	4,173.4	4,153.5	4,153.3	14.3	1.4	127.05	-6,955.3	-747.9	7,334.8	7,320.4	14.45	507.478	
4,300.0	4,240.5	4,220.5	4,220.3	14.5	1.4	127.20	-6,955.3	-748.6	7,340.7	7,326.1	14.61	502.382	
4,330.7	4,271.0	4,250.4	4,250.2	14.6	1.4	127.27	-6,955.3	-748.9	7,343.0	7,328.3	14.68	500.364	
4,400.0	4,339.9	4,300.0	4,299.8	14.8	1.4	127.38	-6,955.3	-749.3	7,347.6	7,332.8	14.82	495.884	
4,429.1	4,368.9	4,331.8	4,331.6	14.8	1.4	127.42	-6,955.3	-749.5	7,349.2	7,334.4	14.87	494.227	
4,500.0	4,439.6	4,379.3	4,379.1	15.0	1.4	127.50	-6,955.5	-749.7	7,352.7	7,337.7	15.00	490.310	
4,527.5	4,467.1	4,400.0	4,399.8	15.0	1.4	127.52	-6,955.6	-749.8	7,353.8	7,338.7	15.04	489.012	
4,600.0	4,539.5	4,450.0	4,449.8	15.1	1.4	127.57	-6,956.1	-749.9	7,356.1	7,340.9	15.15	485.408	
4,626.0	4,565.4	4,468.8	4,468.6	15.2	1.4	127.58	-6,956.3	-749.9	7,356.7	7,341.5	15.19	484.291	
4,668.9	4,608.4	4,500.0	4,499.8	15.2	1.4	-169.84	-6,956.7	-749.9	7,357.4	7,342.1	15.27	481.952	
4,700.0	4,639.5	4,522.0	4,521.7	15.3	1.4	-169.84	-6,957.0	-750.0	7,357.8	7,342.5	15.32	480.386	
4,724.4	4,663.9	4,539.3	4,539.1	15.3	1.5	-169.84	-6,957.3	-750.0	7,358.2	7,342.8	15.36	479.049	
4,800.0	4,739.5	4,600.0	4,599.8	15.4	1.5	-169.84	-6,958.3	-749.9	7,359.5	7,344.0	15.50	474.906	
4,822.8	4,762.3	4,600.0	4,599.8	15.4	1.5	-169.84	-6,958.3	-749.9	7,359.9	7,344.4	15.53	473.810	
4,900.0	4,839.5	4,661.4	4,661.1	15.6	1.5	-169.84	-6,959.7	-749.6	7,361.5	7,345.8	15.67	469.671	
4,921.2	4,860.7	4,675.8	4,675.6	15.6	1.5	-169.84	-6,960.0	-749.4	7,362.0	7,346.3	15.71	468.554	
5,000.0	4,939.5	4,736.6	4,736.3	15.7	1.5	-169.85	-6,961.7	-748.6	7,364.0	7,348.1	15.86	464.412	
5,019.7	4,959.1	4,753.2	4,752.9	15.7	1.5	-169.86	-6,962.2	-748.4	7,364.5	7,348.6	15.89	463.367	
5,100.0	5,039.5	4,818.1	4,817.7	15.9	1.5	-169.86	-6,964.2	-747.5	7,366.7	7,350.6	16.04	459.198	
5,118.1	5,057.6	4,831.2	4,830.8	15.9	1.5	-169.87	-6,964.6	-747.4	7,367.2	7,351.1	16.08	458.271	
5,200.0	5,139.5	4,900.0	4,899.6	16.0	1.6	-169.87	-6,966.8	-746.9	7,369.7	7,353.5	16.23	454.068	
5,216.5	5,156.0	4,905.2	4,904.8	16.0	1.6	-169.87	-6,967.0	-746.9	7,370.3	7,354.0	16.26	453.288	
5,300.0	5,239.5	5,032.5	5,032.0	16.2	1.6	-169.88	-6,970.9	-746.5	7,372.7	7,356.3	16.43	448.610	
5,314.9	5,254.4	5,052.0	5,051.6	16.2	1.6	-169.88	-6,971.4	-746.5	7,373.1	7,356.6	16.47	447.799	
5,400.0	5,339.5	5,159.2	5,158.7	16.3	1.6	-169.89	-6,974.1	-746.3	7,375.2	7,358.5	16.64	443.258	
5,413.4	5,352.8	5,175.6	5,175.1	16.3	1.6	-169.89	-6,974.5	-746.3	7,375.5	7,358.8	16.67	442.549	
5,500.0	5,439.5	5,275.7	5,275.1	16.5	1.7	-169.89	-6,976.7	-746.3	7,377.3	7,360.5	16.84	438.044	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,511.8	5,451.3	5,289.0	5,288.5	16.5	1.7	-169.89	-6,976.9	-746.3	7,377.6	7,360.7	16.87	437.434	
5,600.0	5,539.5	5,405.9	5,405.3	16.6	1.7	-169.89	-6,979.0	-747.0	7,379.2	7,362.2	17.05	432.843	
5,610.2	5,549.7	5,415.6	5,415.1	16.6	1.7	-169.89	-6,979.2	-747.1	7,379.4	7,362.3	17.07	432.335	
5,700.0	5,639.5	5,504.4	5,503.8	16.8	1.7	-169.88	-6,980.5	-748.1	7,380.9	7,363.7	17.25	427.939	
5,708.6	5,648.1	5,539.5	5,538.9	16.8	1.7	-169.88	-6,981.0	-748.4	7,381.0	7,363.8	17.27	427.352	
5,800.0	5,739.5	5,670.6	5,670.0	17.0	1.8	-169.87	-6,982.0	-749.4	7,381.8	7,364.3	17.46	422.683	
5,807.1	5,746.5	5,677.1	5,676.5	17.0	1.8	-169.87	-6,982.0	-749.4	7,381.8	7,364.3	17.48	422.346	
5,900.0	5,839.5	5,780.9	5,780.3	17.1	1.8	-169.87	-6,982.7	-750.2	7,382.5	7,364.8	17.67	417.887	
5,905.5	5,845.0	5,787.4	5,786.9	17.1	1.8	-169.87	-6,982.7	-750.3	7,382.6	7,364.9	17.68	417.622	
6,000.0	5,939.5	5,888.7	5,888.1	17.3	1.8	-169.86	-6,983.2	-751.0	7,383.1	7,365.2	17.87	413.186	
6,003.9	5,943.4	5,892.9	5,892.3	17.3	1.8	-169.86	-6,983.2	-751.0	7,383.1	7,365.2	17.88	413.003	
6,100.0	6,039.5	5,977.8	5,977.2	17.4	1.8	-169.86	-6,983.6	-751.5	7,383.7	7,365.6	18.07	408.634	
6,102.3	6,041.8	5,979.9	5,979.3	17.4	1.8	-169.86	-6,983.6	-751.5	7,383.7	7,365.6	18.07	408.528	
6,200.0	6,139.5	6,097.9	6,097.3	17.6	1.9	-169.86	-6,984.2	-752.3	7,384.3	7,366.0	18.28	404.051	
6,200.8	6,140.2	6,098.9	6,098.3	17.6	1.9	-169.86	-6,984.2	-752.3	7,384.3	7,366.0	18.28	404.015	
6,299.2	6,238.7	6,199.7	6,199.1	17.8	1.9	-169.85	-6,984.5	-752.9	7,384.7	7,366.2	18.48	399.676	
6,300.0	6,239.5	6,201.3	6,200.7	17.8	1.9	-169.85	-6,984.5	-752.9	7,384.7	7,366.2	18.48	399.643	
6,360.9	6,300.4	6,351.7	6,351.1	17.9	1.9	-169.86	-6,984.3	-752.1	7,384.6	7,366.0	18.59	397.161	
6,397.6	6,337.1	6,429.3	6,428.7	17.9	1.9	9.94	-6,983.7	-750.5	7,383.2	7,364.6	18.61	396.750	
6,400.0	6,339.5	6,433.5	6,432.9	17.9	1.9	9.94	-6,983.6	-750.4	7,383.0	7,364.4	18.61	396.690	
6,450.0	6,389.2	6,521.3	6,520.7	18.0	1.9	10.01	-6,982.6	-748.0	7,377.8	7,359.1	18.67	395.075	
6,496.0	6,434.7	6,601.3	6,600.6	18.0	1.9	10.12	-6,981.3	-745.3	7,369.7	7,351.0	18.76	392.879	
6,500.0	6,438.6	6,606.7	6,606.0	18.0	1.9	10.14	-6,981.2	-745.2	7,368.9	7,350.2	18.77	392.679	
6,550.0	6,487.3	6,673.9	6,673.1	18.0	1.9	10.32	-6,979.9	-742.7	7,356.5	7,337.6	18.86	390.035	
6,594.5	6,529.8	6,725.0	6,724.2	18.0	1.9	10.54	-6,978.8	-740.8	7,342.6	7,323.7	18.93	387.836	
6,600.0	6,535.1	6,730.5	6,729.7	18.1	1.9	10.57	-6,978.7	-740.5	7,340.7	7,321.7	18.94	387.593	
6,650.0	6,581.7	6,779.9	6,779.0	18.0	1.9	10.89	-6,977.6	-738.7	7,321.6	7,302.6	18.98	385.671	
6,692.9	6,620.6	6,934.6	6,933.5	18.0	1.9	11.29	-6,972.8	-732.2	7,302.3	7,283.2	19.08	382.704	
6,700.0	6,626.9	6,939.8	6,938.7	18.0	1.9	11.35	-6,972.6	-732.0	7,298.8	7,279.8	19.08	382.548	
6,750.0	6,670.6	6,975.8	6,974.7	18.0	1.9	11.86	-6,971.3	-730.6	7,273.0	7,253.9	19.04	381.898	
6,791.3	6,705.4	7,000.0	6,998.8	18.0	1.9	12.36	-6,970.4	-729.8	7,249.5	7,230.5	18.98	382.027	
6,800.0	6,712.5	7,000.0	6,998.8	18.0	1.9	12.47	-6,970.4	-729.8	7,244.3	7,225.3	18.95	382.242	
6,850.0	6,752.3	7,000.0	6,998.8	18.0	1.9	13.18	-6,970.4	-729.8	7,213.1	7,194.3	18.79	383.954	
6,889.7	6,782.5	7,000.0	6,998.8	18.0	1.9	13.85	-6,970.4	-729.8	7,186.5	7,167.9	18.62	385.907	
6,900.0	6,790.0	7,000.0	6,998.8	18.0	1.9	14.03	-6,970.4	-729.8	7,179.5	7,160.9	18.57	386.521	
6,950.0	6,825.3	7,000.0	6,998.8	18.0	1.9	15.07	-6,970.4	-729.8	7,143.6	7,125.3	18.33	389.807	
6,988.2	6,850.5	7,000.0	6,998.8	17.9	1.9	16.01	-6,970.4	-729.8	7,114.8	7,096.7	18.12	392.607	
7,000.0	6,858.0	7,000.0	6,998.8	17.9	1.9	16.33	-6,970.4	-729.8	7,105.6	7,087.6	18.05	393.588	
7,050.0	6,888.0	7,000.0	6,998.8	18.0	1.9	17.90	-6,970.4	-729.8	7,065.7	7,047.9	17.77	397.515	
7,086.6	6,908.1	7,000.0	6,998.8	18.0	1.9	19.29	-6,970.4	-729.8	7,035.3	7,017.7	17.57	400.412	
7,100.0	6,915.1	7,000.0	6,998.8	18.0	1.9	19.86	-6,970.4	-729.8	7,024.0	7,006.4	17.51	401.046	
7,150.0	6,939.2	7,000.0	6,998.8	18.0	1.9	22.37	-6,970.4	-729.8	6,980.6	6,963.3	17.31	403.376	
7,185.0	6,954.3	7,000.0	6,998.8	18.1	1.9	24.57	-6,970.4	-729.8	6,949.4	6,932.1	17.21	403.699	
7,200.0	6,960.3	7,000.0	6,998.8	18.1	1.9	25.66	-6,970.4	-729.8	6,935.8	6,918.6	17.20	403.354	
7,250.0	6,978.1	7,000.0	6,998.8	18.3	1.9	30.07	-6,970.4	-729.8	6,889.8	6,872.5	17.25	399.503	
7,283.4	6,988.2	7,000.0	6,998.8	18.4	1.9	33.94	-6,970.4	-729.8	6,858.4	6,841.0	17.41	393.983	
7,300.0	6,992.6	7,000.0	6,998.8	18.4	1.9	36.20	-6,970.4	-729.8	6,842.7	6,825.1	17.53	390.344	
7,350.0	7,003.7	7,000.0	6,998.8	18.7	1.9	44.96	-6,970.4	-729.8	6,794.8	6,776.7	18.10	375.503	
7,381.9	7,009.1	7,000.0	6,998.8	18.9	1.9	52.48	-6,970.4	-729.8	6,763.9	6,745.3	18.57	364.221	
7,400.0	7,011.4	7,000.0	6,998.8	19.0	1.9	57.59	-6,970.4	-729.8	6,746.2	6,727.4	18.83	358.176	
7,450.0	7,015.7	7,000.0	6,998.8	19.3	1.9	75.00	-6,970.4	-729.8	6,697.3	6,678.0	19.31	346.876	
7,480.3	7,016.6	7,000.0	6,998.8	19.6	1.9	87.36	-6,970.4	-729.8	6,667.5	6,648.0	19.50	341.851	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
7,488.2	7,016.6	7,000.0	6,998.8	19.6	1.9	90.65	-6,970.4	-729.8	6,659.8	6,640.1	19.65	338.853		
7,500.0	7,016.6	7,000.0	6,998.8	19.7	1.9	90.65	-6,970.4	-729.8	6,648.2	6,628.4	19.77	336.285		
7,578.7	7,016.3	7,000.0	6,998.8	20.5	1.9	90.65	-6,970.4	-729.8	6,570.9	6,550.3	20.60	319.009		
7,600.0	7,016.2	7,000.0	6,998.8	20.7	1.9	90.65	-6,970.4	-729.8	6,550.0	6,529.2	20.82	314.576		
7,677.1	7,016.0	7,000.0	6,998.8	21.6	1.9	90.65	-6,970.4	-729.8	6,474.3	6,452.5	21.73	297.878		
7,700.0	7,015.9	7,000.0	6,998.8	21.8	1.9	90.66	-6,970.4	-729.8	6,451.9	6,429.9	22.01	293.198		
7,775.6	7,015.7	7,000.0	6,998.8	22.7	1.9	90.66	-6,970.4	-729.8	6,377.7	6,354.8	22.99	277.440		
7,800.0	7,015.6	7,000.0	6,998.8	23.0	1.9	90.66	-6,970.4	-729.8	6,353.8	6,330.5	23.31	272.631		
7,874.0	7,015.4	7,000.0	6,998.8	24.0	1.9	90.66	-6,970.4	-729.8	6,281.3	6,256.9	24.34	258.070		
7,900.0	7,015.3	7,000.0	6,998.8	24.4	1.9	90.66	-6,970.4	-729.8	6,255.8	6,231.1	24.70	253.243		
7,972.4	7,015.1	7,000.0	6,998.8	25.4	1.9	90.66	-6,970.4	-729.8	6,184.8	6,159.1	25.77	239.975		
8,000.0	7,015.0	7,000.0	6,998.8	25.8	1.9	90.66	-6,970.4	-729.8	6,157.8	6,131.7	26.18	235.209		
8,070.8	7,014.8	7,000.0	6,998.8	26.8	1.9	90.66	-6,970.4	-729.8	6,088.5	6,061.2	27.27	223.230		
8,100.0	7,014.7	7,000.0	6,998.8	27.3	1.9	90.66	-6,970.4	-729.8	6,060.0	6,032.2	27.72	218.577		
8,169.3	7,014.4	7,000.0	6,998.8	28.3	1.9	90.66	-6,970.4	-729.8	5,992.2	5,963.4	28.83	207.825		
8,200.0	7,014.4	7,000.0	6,998.8	28.8	1.9	90.66	-6,970.4	-729.8	5,962.1	5,932.8	29.32	203.317		
8,267.7	7,014.1	7,000.0	6,998.8	29.9	1.9	90.66	-6,970.4	-729.8	5,896.0	5,865.5	30.44	193.699		
8,300.0	7,014.0	7,000.0	6,998.8	30.4	1.9	90.66	-6,970.4	-729.8	5,864.4	5,833.4	30.97	189.354		
8,366.1	7,013.8	7,000.0	6,998.8	31.5	1.9	90.66	-6,970.4	-729.8	5,799.8	5,767.7	32.08	180.765		
8,400.0	7,013.7	7,000.0	6,998.8	32.0	1.9	90.66	-6,970.4	-729.8	5,766.8	5,734.1	32.66	176.592		
8,464.5	7,013.5	7,000.0	6,998.8	33.1	1.9	90.66	-6,970.4	-729.8	5,703.8	5,670.0	33.76	168.926		
8,500.0	7,013.4	7,000.0	6,998.8	33.7	1.9	90.66	-6,970.4	-729.8	5,669.2	5,634.8	34.37	164.926		
8,563.0	7,013.2	7,000.0	6,998.8	34.8	1.9	90.66	-6,970.4	-729.8	5,607.8	5,572.3	35.47	158.083		
8,600.0	7,013.1	7,000.0	6,998.8	35.4	1.9	90.66	-6,970.4	-729.8	5,571.7	5,535.6	36.12	154.254		
8,661.4	7,012.9	7,000.0	6,998.8	36.5	1.9	90.66	-6,970.4	-729.8	5,511.9	5,474.7	37.21	148.141		
8,700.0	7,012.8	7,000.0	6,998.8	37.1	1.9	90.66	-6,970.4	-729.8	5,474.3	5,436.4	37.89	144.477		
8,759.8	7,012.6	7,000.0	6,998.8	38.2	1.9	90.66	-6,970.4	-729.8	5,416.1	5,377.1	38.96	139.010		
8,800.0	7,012.4	7,000.0	6,998.8	38.9	1.9	90.66	-6,970.4	-729.8	5,377.0	5,337.3	39.68	135.505		
8,858.2	7,012.3	7,000.0	6,998.8	39.9	1.9	90.66	-6,970.4	-729.8	5,320.4	5,279.6	40.73	130.610		
8,900.0	7,012.1	7,000.0	6,998.8	40.7	1.9	90.66	-6,970.4	-729.8	5,279.8	5,238.3	41.49	127.255		
8,956.7	7,011.9	7,000.0	6,998.8	41.7	1.9	90.66	-6,970.4	-729.8	5,224.8	5,182.2	42.52	122.867		
9,000.0	7,011.8	7,000.0	6,998.8	42.4	1.9	90.67	-6,970.4	-729.8	5,182.7	5,139.4	43.31	119.654		
9,055.1	7,011.6	7,000.0	6,998.8	43.4	1.9	90.67	-6,970.4	-729.8	5,129.2	5,084.9	44.33	115.715		
9,100.0	7,011.5	7,000.0	6,998.8	44.2	1.9	90.67	-6,970.4	-729.8	5,085.7	5,040.6	45.15	112.636		
9,153.5	7,011.3	7,000.0	6,998.8	45.2	1.9	90.67	-6,970.4	-729.8	5,033.9	4,987.7	46.14	109.096		
9,200.0	7,011.2	7,000.0	6,998.8	46.1	1.9	90.67	-6,970.4	-729.8	4,988.9	4,941.9	47.00	106.143		
9,251.9	7,011.0	7,000.0	6,998.8	47.0	1.9	90.67	-6,970.4	-729.8	4,938.6	4,890.6	47.97	102.957		
9,300.0	7,010.9	7,000.0	6,998.8	47.9	1.9	90.67	-6,970.4	-729.8	4,892.1	4,843.3	48.86	100.122		
9,350.4	7,010.7	7,000.0	6,998.8	48.8	1.9	90.67	-6,970.4	-729.8	4,843.4	4,793.6	49.80	97.252		
9,400.0	7,010.5	7,000.0	6,998.8	49.7	1.9	90.67	-6,970.4	-729.8	4,795.5	4,744.8	50.73	94.529		
9,448.8	7,010.4	7,000.0	6,998.8	50.6	1.9	90.67	-6,970.4	-729.8	4,748.4	4,696.8	51.65	91.940		
9,500.0	7,010.2	7,000.0	6,998.8	51.6	1.9	90.67	-6,970.4	-729.8	4,699.1	4,646.4	52.61	89.321		
9,547.2	7,010.1	7,000.0	6,998.8	52.5	1.9	90.67	-6,970.4	-729.8	4,653.6	4,600.1	53.50	86.984		
9,600.0	7,009.9	7,000.0	6,998.8	53.5	1.9	90.67	-6,970.4	-729.8	4,602.7	4,548.3	54.49	84.464		
9,645.6	7,009.8	7,000.0	6,998.8	54.3	1.9	90.67	-6,970.4	-729.8	4,558.8	4,503.5	55.36	82.353		
9,700.0	7,009.6	7,000.0	6,998.8	55.3	1.9	90.67	-6,970.4	-729.8	4,506.6	4,450.2	56.39	79.925		
9,744.1	7,009.4	7,000.0	6,998.8	56.2	1.9	90.67	-6,970.4	-729.8	4,464.3	4,407.0	57.22	78.017		
9,800.0	7,009.3	7,000.0	6,998.8	57.2	1.9	90.67	-6,970.4	-729.8	4,410.6	4,352.3	58.28	75.676		
9,842.5	7,009.1	7,000.0	6,998.8	58.0	1.9	90.67	-6,970.4	-729.8	4,369.9	4,310.8	59.09	73.951		
9,900.0	7,008.9	7,000.0	6,998.8	59.1	1.9	90.67	-6,970.4	-729.8	4,314.8	4,254.6	60.19	71.691		
9,940.9	7,008.8	7,000.0	6,998.8	59.9	1.9	90.67	-6,970.4	-729.8	4,275.7	4,214.7	60.97	70.131		
10,000.0	7,008.6	7,000.0	6,998.8	61.0	1.9	90.67	-6,970.4	-729.8	4,219.2	4,157.1	62.09	67.949		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
10,039.3	7,008.5	7,000.0	6,998.8	61.7	1.9	90.67	-6,970.4	-729.8	4,181.7	4,118.8	62.85	66.538	
10,100.0	7,008.3	7,000.0	6,998.8	62.9	1.9	90.67	-6,970.4	-729.8	4,123.8	4,059.8	64.01	64.428	
10,137.8	7,008.2	7,000.0	6,998.8	63.6	1.9	90.67	-6,970.4	-729.8	4,087.9	4,023.1	64.73	63.152	
10,200.0	7,008.0	7,000.0	6,998.8	64.8	1.9	90.67	-6,970.4	-729.8	4,028.7	3,962.7	65.92	61.112	
10,236.2	7,007.9	7,000.0	6,998.8	65.5	1.9	90.67	-6,970.4	-729.8	3,994.3	3,927.7	66.62	59.958	
10,300.0	7,007.6	7,000.0	6,998.8	66.7	1.9	90.67	-6,970.4	-729.8	3,933.7	3,865.9	67.84	57.983	
10,334.6	7,007.5	7,000.0	6,998.8	67.3	1.9	90.67	-6,970.4	-729.8	3,900.9	3,832.4	68.51	56.940	
10,400.0	7,007.3	7,000.0	6,998.8	68.6	1.9	90.67	-6,970.4	-729.8	3,839.1	3,769.3	69.77	55.027	
10,433.0	7,007.2	7,000.0	6,998.8	69.2	1.9	90.67	-6,970.4	-729.8	3,807.8	3,737.4	70.40	54.086	
10,500.0	7,007.0	7,000.0	6,998.8	70.5	1.9	90.67	-6,970.4	-729.8	3,744.7	3,673.0	71.69	52.232	
10,531.5	7,006.9	7,000.0	6,998.8	71.1	1.9	90.67	-6,970.4	-729.8	3,715.0	3,642.7	72.30	51.383	
10,600.0	7,006.7	7,000.0	6,998.8	72.4	1.9	90.67	-6,970.4	-729.8	3,650.6	3,577.0	73.62	49.585	
10,629.9	7,006.6	7,000.0	6,998.8	73.0	1.9	90.67	-6,970.4	-729.8	3,622.5	3,548.3	74.20	48.821	
10,700.0	7,006.4	7,000.0	6,998.8	74.3	1.9	90.67	-6,970.4	-729.8	3,556.8	3,481.3	75.55	47.076	
10,728.3	7,006.3	7,000.0	6,998.8	74.9	1.9	90.67	-6,970.4	-729.8	3,530.3	3,454.2	76.10	46.389	
10,800.0	7,006.0	7,000.0	6,998.8	76.3	1.9	90.67	-6,970.4	-729.8	3,463.4	3,385.9	77.49	44.695	
10,826.7	7,005.9	7,000.0	6,998.8	76.8	1.9	90.67	-6,970.4	-729.8	3,438.5	3,360.5	78.01	44.079	
10,900.0	7,005.7	7,000.0	6,998.8	78.2	1.9	90.67	-6,970.4	-729.8	3,370.3	3,290.9	79.43	42.434	
10,925.2	7,005.6	7,000.0	6,998.8	78.7	1.9	90.67	-6,970.4	-729.8	3,347.0	3,267.1	79.91	41.882	
11,000.0	7,005.4	7,000.0	6,998.8	80.1	1.9	90.68	-6,970.4	-729.8	3,277.7	3,196.3	81.36	40.284	
11,023.6	7,005.3	7,000.0	6,998.8	80.6	1.9	90.68	-6,970.4	-729.8	3,255.9	3,174.1	81.82	39.792	
11,100.0	7,005.1	7,000.0	6,998.8	82.0	1.9	90.68	-6,970.4	-729.8	3,185.5	3,102.2	83.31	38.239	
11,122.0	7,005.0	7,000.0	6,998.8	82.5	1.9	90.68	-6,970.4	-729.8	3,165.3	3,081.5	83.73	37.802	
11,200.0	7,004.7	7,000.0	6,998.8	84.0	1.9	90.68	-6,970.4	-729.8	3,093.8	3,008.6	85.25	36.292	
11,220.4	7,004.7	7,000.0	6,998.8	84.4	1.9	90.68	-6,970.4	-729.8	3,075.1	2,989.5	85.65	35.905	
11,300.0	7,004.4	7,000.0	6,998.8	85.9	1.9	90.68	-6,970.4	-729.8	3,002.6	2,915.4	87.19	34.437	
11,318.9	7,004.4	7,000.0	6,998.8	86.3	1.9	90.68	-6,970.4	-729.8	2,985.5	2,897.9	87.56	34.097	
11,400.0	7,004.1	7,000.0	6,998.8	87.8	1.9	90.68	-6,970.4	-729.8	2,912.0	2,822.9	89.14	32.669	
11,417.3	7,004.0	7,000.0	6,998.8	88.2	1.9	90.68	-6,970.4	-729.8	2,896.4	2,807.0	89.47	32.371	
11,500.0	7,003.8	7,000.0	6,998.8	89.8	1.9	90.68	-6,970.4	-729.8	2,822.1	2,731.0	91.09	30.983	
11,515.7	7,003.7	7,000.0	6,998.8	90.1	1.9	90.68	-6,970.4	-729.8	2,808.0	2,716.6	91.39	30.725	
11,600.0	7,003.4	7,000.0	6,998.8	91.7	1.9	90.68	-6,970.4	-729.8	2,732.8	2,639.8	93.03	29.374	
11,614.1	7,003.4	7,000.0	6,998.8	92.0	1.9	90.68	-6,970.4	-729.8	2,720.2	2,626.9	93.31	29.153	
11,700.0	7,003.1	7,000.0	6,998.8	93.7	1.9	90.68	-6,970.4	-729.8	2,644.3	2,549.3	94.98	27.840	
11,712.6	7,003.1	7,000.0	6,998.8	93.9	1.9	90.68	-6,970.4	-729.8	2,633.3	2,538.0	95.23	27.652	
11,800.0	7,002.8	7,000.0	6,998.8	95.6	1.9	90.68	-6,970.4	-729.8	2,556.7	2,459.7	96.93	26.375	
11,811.0	7,002.7	7,000.0	6,998.8	95.8	1.9	90.68	-6,970.4	-729.8	2,547.1	2,449.9	97.15	26.218	
11,900.0	7,002.5	7,000.0	6,998.8	97.6	1.9	90.68	-6,970.4	-729.8	2,470.0	2,371.1	98.89	24.978	
11,909.4	7,002.4	7,000.0	6,998.8	97.7	1.9	90.68	-6,970.4	-729.8	2,461.8	2,362.8	99.07	24.849	
12,000.0	7,002.1	7,000.0	6,998.8	99.5	1.9	90.68	-6,970.4	-729.8	2,384.3	2,283.5	100.84	23.644	
12,007.8	7,002.1	7,000.0	6,998.8	99.7	1.9	90.68	-6,970.4	-729.8	2,377.6	2,276.6	100.99	23.542	
12,100.0	7,001.8	7,000.0	6,998.8	101.5	1.9	90.68	-6,970.4	-729.8	2,299.8	2,197.0	102.79	22.373	
12,106.3	7,001.8	7,000.0	6,998.8	101.6	1.9	90.68	-6,970.4	-729.8	2,294.5	2,191.6	102.92	22.295	
12,200.0	7,001.5	7,000.0	6,998.8	103.4	1.9	90.68	-6,970.4	-729.8	2,216.6	2,111.8	104.75	21.161	
12,204.7	7,001.5	7,000.0	6,998.8	103.5	1.9	90.68	-6,970.4	-729.8	2,212.7	2,107.9	104.84	21.105	
12,300.0	7,001.2	7,000.0	6,998.8	105.3	1.9	90.68	-6,970.4	-729.8	2,134.8	2,028.1	106.71	20.006	
12,303.1	7,001.1	7,000.0	6,998.8	105.4	1.9	90.68	-6,970.4	-729.8	2,132.3	2,025.5	106.77	19.971	
12,400.0	7,000.8	7,000.0	6,998.8	107.3	1.9	90.68	-6,970.4	-729.8	2,054.6	1,946.0	108.66	18.908	
12,401.5	7,000.8	7,000.0	6,998.8	107.3	1.9	90.68	-6,970.4	-729.8	2,053.4	1,944.7	108.69	18.892	
12,500.0	7,000.5	7,000.0	6,998.8	109.3	1.9	90.68	-6,970.4	-729.8	1,976.3	1,865.7	110.62	17.865	
12,598.4	7,000.2	7,000.0	6,998.8	111.2	1.9	90.68	-6,970.4	-729.8	1,901.2	1,788.6	112.55	16.892	
12,600.0	7,000.2	7,000.0	6,998.8	111.2	1.9	90.68	-6,970.4	-729.8	1,900.0	1,787.4	112.58	16.877	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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. - ABDN VERT FARR #1 - 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
12,696.8	6,999.8	7,000.0	6,998.8	113.1	1.9	90.68	-6,970.4	-729.8	1,828.2	1,713.8	114.48	15.971	
12,700.0	6,999.8	7,000.0	6,998.8	113.2	1.9	90.68	-6,970.4	-729.8	1,825.9	1,711.4	114.54	15.942	
12,795.2	6,999.5	7,000.0	6,998.8	115.0	1.9	90.68	-6,970.4	-729.8	1,757.8	1,641.4	116.41	15.101	
12,800.0	6,999.5	7,000.0	6,998.8	115.1	1.9	90.68	-6,970.4	-729.8	1,754.5	1,638.0	116.50	15.060	
12,893.7	6,999.2	7,000.0	6,998.8	116.9	1.9	90.68	-6,970.4	-729.8	1,690.2	1,571.8	118.33	14.283	
12,900.0	6,999.2	7,000.0	6,998.8	117.1	1.9	90.68	-6,970.4	-729.8	1,685.9	1,567.5	118.46	14.232	
12,992.1	6,998.9	7,000.0	6,998.8	118.9	1.9	90.68	-6,970.4	-729.8	1,625.7	1,505.4	120.26	13.517	
13,000.0	6,998.8	7,000.0	6,998.8	119.0	1.9	90.68	-6,970.4	-729.8	1,620.6	1,500.2	120.42	13.458	
13,090.5	6,998.6	7,000.0	6,998.8	120.8	1.9	90.68	-6,970.4	-729.8	1,564.7	1,442.5	122.20	12.805	
13,100.0	6,998.5	7,000.0	6,998.8	121.0	1.9	90.68	-6,970.4	-729.8	1,559.1	1,436.7	122.38	12.739	
13,188.9	6,998.2	7,000.0	6,998.8	122.7	1.9	90.68	-6,970.4	-729.8	1,507.7	1,383.6	124.13	12.147	
13,200.0	6,998.2	7,000.0	6,998.8	122.9	1.9	90.68	-6,970.4	-729.8	1,501.6	1,377.3	124.34	12.076	
13,287.4	6,997.9	7,000.0	6,998.8	124.6	1.9	90.68	-6,970.4	-729.8	1,455.2	1,329.1	126.06	11.544	
13,300.0	6,997.9	7,000.0	6,998.8	124.9	1.9	90.68	-6,970.4	-729.8	1,448.8	1,322.5	126.31	11.470	
13,385.8	6,997.6	7,000.0	6,998.8	126.6	1.9	90.68	-6,970.4	-729.8	1,407.6	1,279.6	127.99	10.997	
13,400.0	6,997.5	7,000.0	6,998.8	126.9	1.9	90.68	-6,970.4	-729.8	1,401.1	1,272.9	128.27	10.923	
13,484.2	6,997.3	7,000.0	6,998.8	128.5	1.9	90.68	-6,970.4	-729.8	1,365.4	1,235.5	129.92	10.509	
13,500.0	6,997.2	7,000.0	6,998.8	128.8	1.9	90.68	-6,970.4	-729.8	1,359.2	1,228.9	130.23	10.436	
13,582.6	6,996.9	7,000.0	6,998.8	130.4	1.9	90.68	-6,970.4	-729.8	1,329.2	1,197.3	131.86	10.080	
13,600.0	6,996.9	7,000.0	6,998.8	130.8	1.9	90.68	-6,970.4	-729.8	1,323.4	1,191.2	132.20	10.011	
13,681.1	6,996.6	7,000.0	6,998.8	132.4	1.9	90.68	-6,970.4	-729.8	1,299.4	1,165.6	133.79	9.712	
13,700.0	6,996.5	7,000.0	6,998.8	132.7	1.9	90.68	-6,970.4	-729.8	1,294.5	1,160.3	134.16	9.648	
13,779.5	6,996.3	7,000.0	6,998.8	134.3	1.9	90.68	-6,970.4	-729.8	1,276.6	1,140.8	135.73	9.406	
13,800.0	6,996.2	7,000.0	6,998.8	134.7	1.9	90.68	-6,970.4	-729.8	1,272.7	1,136.6	136.13	9.349	
13,877.9	6,995.9	7,000.0	6,998.8	136.2	1.9	90.68	-6,970.4	-729.8	1,261.0	1,123.4	137.66	9.160	
13,900.0	6,995.9	7,000.0	6,998.8	136.7	1.9	90.68	-6,970.4	-729.8	1,258.6	1,120.5	138.09	9.114	
13,976.3	6,995.6	7,000.0	6,998.8	138.2	1.9	90.68	-6,970.4	-729.8	1,253.0	1,113.4	139.59	8.976	
14,000.0	6,995.5	7,000.0	6,998.8	138.6	1.9	90.68	-6,970.4	-729.8	1,252.3	1,112.2	140.06	8.941	
14,029.2	6,995.4	7,000.0	6,998.8	139.2	1.9	90.68	-6,970.4	-729.8	1,251.9	1,111.3	140.63	8.902 CC	
14,074.8	6,995.3	7,000.0	6,998.8	140.1	1.9	90.68	-6,970.4	-729.8	1,252.7	1,111.2	141.53	8.851 ES	
14,100.0	6,995.2	7,000.0	6,998.8	140.6	1.9	90.68	-6,970.4	-729.8	1,253.9	1,111.9	142.03	8.829	
14,162.0	6,995.0	7,000.0	6,998.8	141.8	1.9	90.68	-6,970.4	-729.8	1,258.9	1,115.7	143.21	8.791 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	172.76	-5,118.5	649.8	5,159.6				
98.4	98.4	102.7	102.7	0.1	0.1	172.76	-5,118.3	649.8	5,159.4	5,159.2	0.19	N/A	
100.0	100.0	104.7	104.7	0.1	0.1	172.76	-5,118.3	649.8	5,159.4	5,159.2	0.20	N/A	
196.8	196.8	227.5	227.5	0.3	0.2	172.76	-5,117.4	649.9	5,158.7	5,158.2	0.53	9,744.795	
200.0	200.0	231.5	231.5	0.3	0.2	172.76	-5,117.4	649.9	5,158.7	5,158.2	0.54	9,549.079	
295.3	295.3	1,021.7	1,018.4	0.5	2.1	172.86	-5,061.3	633.9	5,154.3	5,151.7	2.62	1,970.045	
300.0	300.0	1,025.1	1,021.7	0.5	2.2	172.86	-5,060.8	633.6	5,153.6	5,151.0	2.64	1,954.930	
393.7	393.7	1,092.8	1,088.4	0.8	2.4	172.94	-5,052.2	625.7	5,140.4	5,137.4	3.03	1,697.577	
400.0	400.0	1,097.4	1,092.9	0.8	2.4	172.95	-5,051.6	625.2	5,139.5	5,136.5	3.05	1,682.735	
492.1	492.1	1,116.0	1,111.2	1.0	2.5	172.97	-5,049.4	622.7	5,127.3	5,124.0	3.31	1,548.804	
500.0	500.0	1,151.3	1,145.9	1.0	2.6	173.02	-5,045.3	617.8	5,126.1	5,122.7	3.41	1,501.678	
590.5	590.5	1,194.3	1,188.2	1.2	2.7	173.09	-5,040.7	611.3	5,114.8	5,111.1	3.72	1,375.057	
600.0	600.0	1,198.8	1,192.6	1.2	2.7	173.09	-5,040.3	610.5	5,113.7	5,109.9	3.75	1,363.084	
689.0	689.0	1,244.0	1,237.0	1.4	2.9	173.17	-5,036.0	603.0	5,103.4	5,099.4	4.06	1,257.763	
700.0	700.0	1,244.0	1,237.0	1.4	2.9	173.17	-5,036.0	603.0	5,102.2	5,098.1	4.08	1,249.832	
787.4	787.4	1,284.6	1,276.8	1.6	3.0	173.25	-5,032.7	595.9	5,093.1	5,088.8	4.36	1,167.092	
800.0	800.0	1,290.1	1,282.2	1.7	3.1	173.26	-5,032.2	594.9	5,091.9	5,087.5	4.40	1,156.232	
885.8	885.8	1,328.0	1,319.4	1.9	3.2	173.33	-5,029.5	588.1	5,083.9	5,079.2	4.68	1,087.401	
900.0	900.0	1,334.2	1,325.5	1.9	3.2	173.34	-5,029.1	586.9	5,082.6	5,077.9	4.72	1,076.828	
984.2	984.2	1,373.0	1,363.5	2.1	3.3	173.42	-5,026.8	579.7	5,075.7	5,070.7	4.99	1,017.407	
1,000.0	1,000.0	1,373.0	1,363.5	2.1	3.3	173.42	-5,026.8	579.7	5,074.4	5,069.4	5.02	1,009.998	
1,082.7	1,082.7	1,419.3	1,408.9	2.3	3.5	173.52	-5,024.5	570.9	5,068.5	5,063.2	5.30	956.318	
1,100.0	1,100.0	1,427.8	1,417.2	2.3	3.5	173.54	-5,024.1	569.2	5,067.3	5,062.0	5.36	946.223	
1,181.1	1,181.1	1,467.2	1,455.8	2.5	3.7	111.15	-5,022.6	561.4	5,062.7	5,056.9	5.78	876.353	
1,200.0	1,200.0	1,501.0	1,488.9	2.6	3.8	111.25	-5,021.5	554.5	5,062.0	5,056.0	5.94	852.645	
1,279.5	1,279.4	1,501.0	1,488.9	2.7	3.8	111.30	-5,021.5	554.5	5,059.2	5,053.1	6.11	828.093	
1,300.0	1,299.8	1,501.0	1,488.9	2.8	3.8	111.31	-5,021.5	554.5	5,058.8	5,052.7	6.15	822.081	
1,377.9	1,377.5	1,560.2	1,546.8	3.0	4.0	111.51	-5,020.3	542.2	5,057.9	5,051.3	6.56	771.199	
1,383.9	1,383.4	1,562.9	1,549.5	3.0	4.0	111.52	-5,020.3	541.6	5,057.9	5,051.3	6.58	768.392	
1,400.0	1,399.5	1,570.4	1,556.7	3.0	4.0	111.54	-5,020.2	540.1	5,057.9	5,051.2	6.65	760.870	
1,476.4	1,475.3	1,629.0	1,614.0	3.2	4.3	111.74	-5,019.9	527.7	5,059.0	5,051.9	7.06	716.680	
1,500.0	1,498.7	1,629.0	1,614.0	3.2	4.3	111.73	-5,019.9	527.7	5,059.5	5,052.4	7.12	711.037	
1,574.8	1,572.6	1,629.0	1,614.0	3.5	4.3	111.68	-5,019.9	527.7	5,062.3	5,055.0	7.31	692.290	
1,600.0	1,597.5	1,629.0	1,614.0	3.5	4.3	111.65	-5,019.9	527.7	5,063.7	5,056.3	7.38	686.264	
1,673.2	1,669.4	1,687.7	1,671.4	3.7	4.5	111.81	-5,020.3	515.5	5,068.0	5,060.2	7.82	648.370	
1,700.0	1,695.7	1,698.4	1,681.9	3.8	4.5	111.82	-5,020.5	513.3	5,070.0	5,062.1	7.94	638.860	
1,771.6	1,765.7	1,758.0	1,740.4	4.1	4.7	112.08	-5,022.0	501.7	5,076.2	5,067.8	8.40	604.433	
1,800.0	1,793.4	1,758.0	1,740.4	4.2	4.7	112.08	-5,022.0	501.7	5,078.5	5,070.0	8.49	598.051	
1,870.1	1,862.0	1,797.3	1,778.9	4.4	4.8	112.25	-5,023.1	494.1	5,085.0	5,076.1	8.88	572.360	
1,900.0	1,891.3	1,851.7	1,832.2	4.5	5.0	112.48	-5,024.5	483.4	5,087.8	5,078.6	9.19	553.429	
1,968.5	1,958.3	1,918.6	1,897.7	4.8	5.3	112.78	-5,026.0	469.8	5,093.8	5,084.1	9.69	525.489	
2,000.0	1,989.1	1,939.4	1,918.0	4.9	5.3	112.87	-5,026.5	465.6	5,096.7	5,086.8	9.89	515.530	
2,066.9	2,054.5	1,983.6	1,961.4	5.2	5.5	113.06	-5,027.6	456.9	5,103.1	5,092.8	10.30	495.306	
2,100.0	2,086.9	2,015.0	1,992.2	5.3	5.6	113.19	-5,028.5	450.9	5,106.4	5,095.8	10.54	484.248	
2,165.3	2,150.8	2,055.2	2,031.7	5.6	5.7	113.36	-5,029.7	443.3	5,113.1	5,102.1	10.94	467.428	
2,200.0	2,184.7	2,082.5	2,058.5	5.7	5.8	113.48	-5,030.6	438.2	5,116.7	5,105.5	11.17	458.110	
2,263.8	2,247.1	2,133.0	2,108.0	5.9	6.0	113.68	-5,032.2	429.0	5,123.6	5,112.0	11.60	441.777	
2,300.0	2,282.5	2,215.3	2,188.9	6.1	6.3	114.03	-5,034.6	413.8	5,127.4	5,115.4	12.04	425.755	
2,362.2	2,343.4	2,310.1	2,281.9	6.4	6.6	114.43	-5,036.4	395.4	5,133.4	5,120.8	12.65	405.965	
2,400.0	2,380.3	2,343.7	2,314.9	6.5	6.7	114.57	-5,036.9	388.9	5,137.1	5,124.2	12.92	397.531	
2,460.6	2,439.6	2,397.6	2,367.7	6.8	6.9	114.80	-5,037.8	378.5	5,143.1	5,129.7	13.37	384.671	
2,500.0	2,478.1	2,424.3	2,394.0	6.9	7.1	114.91	-5,038.3	373.3	5,147.0	5,133.4	13.63	377.575	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
2,559.0	2,535.9	2,463.6	2,432.5	7.2	7.2	115.07	-5,039.1	365.7	5,153.2	5,139.2	14.02	367.481	
2,600.0	2,576.0	2,490.7	2,459.1	7.4	7.3	115.19	-5,039.8	360.4	5,157.6	5,143.3	14.29	360.825	
2,657.5	2,632.2	2,529.6	2,497.3	7.6	7.5	115.35	-5,040.8	352.9	5,164.1	5,149.4	14.68	351.800	
2,700.0	2,673.8	2,585.6	2,552.1	7.8	7.7	115.59	-5,042.2	342.0	5,168.8	5,153.8	15.07	342.997	
2,755.9	2,728.4	2,657.0	2,622.2	8.0	7.9	115.88	-5,043.7	328.1	5,175.0	5,159.5	15.58	332.248	
2,800.0	2,771.6	2,692.5	2,656.9	8.2	8.1	116.03	-5,044.4	321.0	5,179.9	5,164.0	15.90	325.761	
2,854.3	2,824.7	2,734.4	2,697.9	8.4	8.3	116.21	-5,045.3	312.3	5,186.1	5,169.8	16.29	318.270	
2,900.0	2,869.4	2,769.3	2,732.0	8.6	8.4	116.37	-5,046.1	304.8	5,191.4	5,174.8	16.62	312.283	
2,952.7	2,921.0	2,830.5	2,791.5	8.9	8.7	116.64	-5,047.5	291.0	5,197.6	5,180.5	17.11	303.719	
3,000.0	2,967.2	2,896.8	2,856.0	9.1	9.0	116.95	-5,048.8	275.2	5,203.0	5,185.4	17.61	295.446	
3,051.2	3,017.3	2,913.0	2,871.7	9.3	9.1	117.02	-5,049.0	271.3	5,209.0	5,191.1	17.89	291.101	
3,100.0	3,065.0	2,950.6	2,908.1	9.5	9.2	117.20	-5,049.8	262.1	5,214.8	5,196.6	18.28	285.351	
3,149.6	3,113.5	2,971.6	2,928.4	9.7	9.3	117.29	-5,050.3	256.9	5,221.1	5,202.5	18.58	281.011	
3,200.0	3,162.8	2,992.9	2,949.0	9.9	9.4	117.39	-5,051.0	251.6	5,227.8	5,208.9	18.89	276.768	
3,248.0	3,209.8	3,042.0	2,996.6	10.2	9.7	117.62	-5,052.8	239.3	5,234.6	5,215.3	19.32	270.908	
3,300.0	3,260.7	3,042.0	2,996.6	10.4	9.7	117.62	-5,052.8	239.3	5,241.9	5,222.4	19.54	268.327	
3,346.4	3,306.1	3,170.0	3,120.6	10.6	10.3	118.21	-5,057.0	208.0	5,248.4	5,228.1	20.31	258.373	
3,400.0	3,358.5	3,212.9	3,162.3	10.8	10.5	118.41	-5,058.0	197.8	5,255.5	5,234.8	20.72	253.644	
3,444.9	3,402.4	3,241.9	3,190.5	11.0	10.6	118.54	-5,058.8	191.0	5,261.7	5,240.6	21.03	250.187	
3,500.0	3,456.3	3,277.6	3,225.2	11.3	10.8	118.70	-5,059.8	182.7	5,269.4	5,248.0	21.41	246.093	
3,543.3	3,498.6	3,299.0	3,246.0	11.5	10.9	118.79	-5,060.5	177.7	5,275.6	5,254.0	21.68	243.305	
3,600.0	3,554.1	3,334.6	3,280.6	11.7	11.0	118.95	-5,061.7	169.5	5,284.1	5,262.0	22.07	239.383	
3,641.7	3,594.9	3,356.8	3,302.2	11.9	11.1	119.05	-5,062.6	164.4	5,290.4	5,268.1	22.34	236.781	
3,700.0	3,651.9	3,387.8	3,332.3	12.2	11.3	119.18	-5,063.9	157.3	5,299.6	5,276.9	22.72	233.266	
3,740.1	3,691.2	3,427.0	3,370.5	12.3	11.4	119.35	-5,065.7	148.4	5,306.2	5,283.2	23.06	230.133	
3,800.0	3,749.7	3,475.2	3,417.3	12.6	11.7	119.56	-5,067.9	137.4	5,316.1	5,292.6	23.52	226.067	
3,838.6	3,787.5	3,545.9	3,486.1	12.8	12.0	119.87	-5,070.8	120.9	5,322.3	5,298.3	23.98	221.903	
3,900.0	3,847.5	3,636.5	3,574.0	13.0	12.4	120.27	-5,073.9	99.6	5,332.0	5,307.3	24.62	216.527	
3,937.0	3,883.7	3,688.1	3,624.2	13.2	12.6	120.50	-5,075.4	87.6	5,337.7	5,312.7	25.00	213.527	
4,000.0	3,945.4	3,749.3	3,683.7	13.5	12.9	120.76	-5,077.1	73.3	5,347.3	5,321.8	25.53	209.490	
4,035.4	3,980.0	3,783.6	3,716.9	13.7	13.1	120.92	-5,078.0	65.0	5,352.8	5,327.0	25.82	207.305	
4,068.9	4,012.7	3,812.0	3,744.5	13.8	13.2	121.04	-5,078.7	58.0	5,358.0	5,331.9	26.08	205.425	
4,100.0	4,043.2	3,812.0	3,744.5	13.9	13.2	121.13	-5,078.7	58.0	5,362.8	5,336.7	26.20	204.726	
4,133.8	4,076.4	3,812.0	3,744.5	14.0	13.2	121.22	-5,078.7	58.0	5,368.1	5,341.8	26.29	204.157	
4,200.0	4,141.6	3,866.7	3,797.5	14.2	13.5	121.62	-5,080.4	44.4	5,377.9	5,351.1	26.75	201.072	
4,232.3	4,173.4	3,879.9	3,810.2	14.3	13.6	121.76	-5,080.9	41.0	5,382.6	5,355.7	26.89	200.156	
4,300.0	4,240.5	3,941.0	3,869.2	14.5	13.9	122.16	-5,083.7	25.5	5,392.5	5,365.1	27.36	197.129	
4,330.7	4,271.0	3,941.0	3,869.2	14.6	13.9	122.23	-5,083.7	25.5	5,396.6	5,369.2	27.42	196.790	
4,400.0	4,339.9	3,958.2	3,885.8	14.8	14.0	122.44	-5,084.7	21.1	5,405.9	5,378.2	27.65	195.492	
4,429.1	4,368.9	3,983.7	3,910.4	14.8	14.1	122.59	-5,086.0	14.7	5,409.6	5,381.8	27.82	194.430	
4,500.0	4,439.6	4,046.5	3,971.2	15.0	14.4	122.94	-5,089.6	-0.7	5,418.2	5,390.0	28.24	191.867	
4,527.5	4,467.1	4,074.5	3,998.4	15.0	14.5	123.07	-5,091.2	-7.4	5,421.3	5,392.9	28.40	190.858	
4,600.0	4,539.5	4,262.5	4,182.7	15.1	15.2	123.61	-5,101.0	-42.7	5,428.1	5,398.9	29.18	186.019	
4,626.0	4,565.4	4,335.6	4,255.0	15.2	15.5	123.75	-5,104.2	-52.7	5,429.9	5,400.5	29.43	184.483	
4,668.9	4,608.4	4,777.7	4,695.0	15.2	16.5	-173.22	-5,106.3	-92.9	5,429.9	5,399.3	30.53	177.849	
4,700.0	4,639.5	4,795.9	4,713.1	15.3	16.6	-173.21	-5,105.9	-93.2	5,429.3	5,398.7	30.60	177.417	
4,724.4	4,663.9	4,810.2	4,727.4	15.3	16.6	-173.21	-5,105.7	-93.3	5,428.9	5,398.3	30.66	177.059	
4,800.0	4,739.5	4,858.0	4,775.2	15.4	16.6	-173.21	-5,105.1	-93.0	5,428.0	5,397.2	30.84	175.981	
4,822.8	4,762.3	4,874.4	4,791.6	15.4	16.7	-173.22	-5,105.0	-92.9	5,427.8	5,396.9	30.90	175.666	
4,900.0	4,839.5	4,929.9	4,847.1	15.6	16.7	-173.22	-5,104.7	-92.3	5,427.3	5,396.2	31.08	174.616	
4,921.2	4,860.7	4,945.2	4,862.4	15.6	16.7	-173.22	-5,104.6	-92.2	5,427.2	5,396.1	31.13	174.328	
5,000.0	4,939.5	5,016.1	4,933.3	15.7	16.8	-173.23	-5,104.6	-91.5	5,427.0	5,395.7	31.34	173.176	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
5,019.7	4,959.1	5,036.3	4,953.5	15.7	16.8	-173.23	-5,104.6	-91.3	5,427.0	5,395.6	31.39	172.872		
5,100.0	5,039.5	5,121.9	5,039.2	15.9	16.9	-173.24	-5,104.4	-90.6	5,426.8	5,395.2	31.62	171.625		
5,118.1	5,057.6	5,143.3	5,060.5	15.9	17.0	-173.24	-5,104.4	-90.4	5,426.7	5,395.1	31.67	171.334		
5,200.0	5,139.5	5,238.0	5,155.2	16.0	17.1	-173.26	-5,104.1	-88.9	5,426.3	5,394.4	31.91	170.030		
5,216.5	5,156.0	5,255.2	5,172.4	16.0	17.1	-173.26	-5,104.0	-88.7	5,426.2	5,394.2	31.96	169.777		
5,300.0	5,239.5	5,341.8	5,259.0	16.2	17.2	-173.27	-5,103.5	-87.7	5,425.7	5,393.5	32.20	168.510		
5,314.9	5,254.4	5,353.0	5,270.2	16.2	17.2	-173.27	-5,103.5	-87.6	5,425.6	5,393.3	32.24	168.310		
5,400.0	5,339.5	5,425.2	5,342.4	16.3	17.3	-173.27	-5,103.1	-87.3	5,425.1	5,392.6	32.47	167.070		
5,413.4	5,352.8	5,436.1	5,353.3	16.3	17.3	-173.27	-5,103.1	-87.3	5,425.1	5,392.6	32.51	166.880		
5,500.0	5,439.5	5,509.5	5,426.7	16.5	17.4	-173.27	-5,102.9	-87.5	5,424.9	5,392.1	32.75	165.631		
5,511.8	5,451.3	5,520.3	5,437.5	16.5	17.4	-173.27	-5,102.9	-87.5	5,424.9	5,392.1	32.79	165.453		
5,556.0	5,495.4	5,560.8	5,477.9	16.6	17.5	-173.27	-5,102.9	-87.7	5,424.9	5,392.0	32.92	164.793		
5,600.0	5,539.5	5,601.1	5,518.2	16.6	17.5	-173.27	-5,102.9	-87.9	5,424.9	5,391.8	33.05	164.140		
5,610.2	5,549.7	5,610.0	5,527.2	16.6	17.5	-173.26	-5,102.9	-87.9	5,424.9	5,391.8	33.08	163.991		
5,700.0	5,639.5	5,667.3	5,584.5	16.8	17.6	-173.26	-5,103.0	-88.3	5,425.2	5,391.9	33.32	162.829		
5,708.6	5,648.1	5,672.8	5,590.0	16.8	17.6	-173.26	-5,103.1	-88.4	5,425.3	5,392.0	33.34	162.718		
5,800.0	5,739.5	5,917.3	5,834.5	17.0	18.0	-173.25	-5,102.2	-89.4	5,425.6	5,391.8	33.85	160.295		
5,807.1	5,746.5	5,924.5	5,841.6	17.0	18.0	-173.25	-5,102.1	-89.4	5,425.5	5,391.6	33.87	160.187		
5,900.0	5,839.5	6,013.0	5,930.2	17.1	18.1	-173.25	-5,100.3	-89.0	5,423.5	5,389.4	34.15	158.813		
5,905.5	5,845.0	6,017.3	5,934.5	17.1	18.1	-173.25	-5,100.2	-89.0	5,423.4	5,389.2	34.17	158.739		
6,000.0	5,939.5	6,090.6	6,007.8	17.3	18.2	-173.26	-5,098.9	-88.4	5,421.7	5,387.3	34.43	157.483		
6,003.9	5,943.4	6,093.7	6,010.8	17.3	18.2	-173.26	-5,098.9	-88.3	5,421.7	5,387.2	34.44	157.431		
6,100.0	6,039.5	6,198.9	6,116.0	17.4	18.3	-173.27	-5,097.4	-86.9	5,420.2	5,385.5	34.74	156.000		
6,102.3	6,041.8	6,201.9	6,119.0	17.4	18.3	-173.27	-5,097.4	-86.9	5,420.2	5,385.4	34.75	155.962		
6,200.0	6,139.5	6,298.0	6,215.0	17.6	18.5	-173.28	-5,095.7	-85.9	5,418.3	5,383.3	35.05	154.581		
6,200.8	6,140.2	6,298.6	6,215.6	17.6	18.5	-173.28	-5,095.7	-85.9	5,418.3	5,383.3	35.05	154.571		
6,299.2	6,238.7	6,380.0	6,297.1	17.8	18.6	-173.29	-5,094.6	-84.9	5,416.9	5,381.5	35.34	153.289		
6,300.0	6,239.5	6,380.0	6,297.1	17.8	18.6	-173.29	-5,094.6	-84.9	5,416.8	5,381.5	35.34	153.282		
6,360.9	6,300.4	6,434.1	6,351.2	17.9	18.6	-173.29	-5,094.0	-84.2	5,416.1	5,380.5	35.52	152.488		
6,397.6	6,337.1	6,470.1	6,387.2	17.9	18.7	6.51	-5,093.6	-83.6	5,414.7	5,379.1	35.54	152.363		
6,400.0	6,339.5	6,472.4	6,389.5	17.9	18.7	6.51	-5,093.6	-83.6	5,414.5	5,379.0	35.54	152.361		
6,450.0	6,389.2	6,531.6	6,448.6	18.0	18.8	6.55	-5,092.9	-82.6	5,409.5	5,374.0	35.45	152.594		
6,496.0	6,434.7	6,613.8	6,530.9	18.0	18.9	6.63	-5,091.6	-81.1	5,401.5	5,366.2	35.27	153.141		
6,500.0	6,438.6	6,620.8	6,537.9	18.0	18.9	6.63	-5,091.5	-81.0	5,400.7	5,365.4	35.25	153.210		
6,550.0	6,487.3	6,669.1	6,586.1	18.0	18.9	6.76	-5,090.5	-80.0	5,388.3	5,353.5	34.85	154.596		
6,594.5	6,529.8	6,703.6	6,620.6	18.0	19.0	6.90	-5,089.9	-79.3	5,374.6	5,340.2	34.37	156.362		
6,600.0	6,535.1	6,707.8	6,624.8	18.1	19.0	6.92	-5,089.8	-79.3	5,372.7	5,338.4	34.31	156.615		
6,650.0	6,581.7	6,745.5	6,662.5	18.0	19.0	7.13	-5,089.2	-78.7	5,353.9	5,320.3	33.62	159.249		
6,692.9	6,620.6	6,765.0	6,682.0	18.0	19.1	7.35	-5,088.8	-78.4	5,335.3	5,302.4	32.91	162.100		
6,700.0	6,626.9	6,781.0	6,698.0	18.0	19.1	7.40	-5,088.6	-78.2	5,332.0	5,299.2	32.80	162.539		
6,750.0	6,670.6	6,814.1	6,731.1	18.0	19.1	7.72	-5,088.1	-77.7	5,307.2	5,275.3	31.87	166.527		
6,791.3	6,705.4	6,840.5	6,757.4	18.0	19.2	8.04	-5,087.8	-77.2	5,284.5	5,253.5	31.02	170.373		
6,800.0	6,712.5	6,845.9	6,762.8	18.0	19.2	8.11	-5,087.7	-77.1	5,279.5	5,248.6	30.83	171.249		
6,850.0	6,752.3	6,875.8	6,792.7	18.0	19.2	8.59	-5,087.5	-76.5	5,249.0	5,219.3	29.70	176.754		
6,889.7	6,782.5	6,900.6	6,817.5	18.0	19.2	9.04	-5,087.3	-76.0	5,223.0	5,194.2	28.75	181.690		
6,900.0	6,790.0	6,908.1	6,825.1	18.0	19.3	9.17	-5,087.2	-75.8	5,216.0	5,187.5	28.50	183.040		
6,950.0	6,825.3	6,943.6	6,860.6	18.0	19.3	9.89	-5,086.9	-75.1	5,180.4	5,153.2	27.25	190.078		
6,988.2	6,850.5	6,969.0	6,885.9	17.9	19.3	10.56	-5,086.7	-74.6	5,151.7	5,125.4	26.29	195.941		
7,000.0	6,858.0	6,976.5	6,893.4	17.9	19.3	10.79	-5,086.7	-74.5	5,142.6	5,116.6	25.99	197.853		
7,050.0	6,888.0	7,006.6	6,923.5	18.0	19.4	11.92	-5,086.4	-73.9	5,102.5	5,077.8	24.75	206.186		
7,086.6	6,908.1	7,022.0	6,938.9	18.0	19.4	12.93	-5,086.3	-73.7	5,072.0	5,048.1	23.86	212.553		
7,100.0	6,915.1	7,032.7	6,949.6	18.0	19.4	13.37	-5,086.2	-73.5	5,060.6	5,037.0	23.57	214.691		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						
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
7,150.0	6,939.2	7,054.7	6,971.6	18.0	19.4	15.25	-5,086.0	-73.1	5,016.9	4,994.3	22.54	222.611	
7,185.0	6,954.3	7,068.4	6,985.3	18.1	19.5	16.94	-5,085.9	-72.9	4,985.3	4,963.4	21.95	227.100	
7,200.0	6,960.3	7,073.8	6,990.7	18.1	19.5	17.79	-5,085.9	-72.8	4,971.6	4,949.9	21.75	228.554	
7,250.0	6,978.1	7,090.0	7,006.9	18.3	19.5	21.35	-5,085.8	-72.5	4,925.1	4,903.7	21.39	230.227	
7,283.4	6,988.2	7,099.1	7,016.0	18.4	19.5	24.62	-5,085.7	-72.3	4,893.4	4,871.8	21.53	227.313	
7,300.0	6,992.6	7,103.1	7,020.0	18.4	19.5	26.62	-5,085.7	-72.2	4,877.5	4,855.8	21.75	224.273	
7,350.0	7,003.7	7,113.1	7,030.0	18.7	19.5	34.91	-5,085.6	-72.1	4,829.1	4,805.7	23.32	207.064	
7,381.9	7,009.1	7,117.9	7,034.8	18.9	19.5	42.90	-5,085.6	-72.0	4,797.8	4,772.5	25.29	189.749	
7,400.0	7,011.4	7,120.0	7,036.9	19.0	19.5	48.84	-5,085.5	-71.9	4,780.0	4,753.2	26.79	178.455	
7,450.0	7,015.7	7,123.6	7,040.5	19.3	19.5	72.18	-5,085.5	-71.9	4,730.5	4,699.0	31.57	149.842	
7,480.3	7,016.6	7,124.3	7,041.1	19.6	19.5	90.52	-5,085.5	-71.9	4,700.5	4,667.4	33.07	142.124	
7,488.2	7,016.6	7,124.2	7,041.1	19.6	19.5	95.39	-5,085.5	-71.9	4,692.7	4,659.6	33.07	141.893	
7,500.0	7,016.6	7,124.1	7,041.0	19.7	19.5	95.38	-5,085.5	-71.9	4,681.0	4,647.8	33.19	141.044	
7,578.7	7,016.3	7,123.4	7,040.3	20.5	19.5	95.31	-5,085.5	-71.9	4,602.9	4,568.9	34.02	135.310	
7,600.0	7,016.2	7,123.2	7,040.1	20.7	19.5	95.29	-5,085.5	-71.9	4,581.8	4,547.6	34.24	133.808	
7,677.1	7,016.0	7,122.5	7,039.4	21.6	19.5	95.23	-5,085.5	-71.9	4,505.3	4,470.2	35.15	128.157	
7,700.0	7,015.9	7,122.3	7,039.2	21.8	19.5	95.21	-5,085.5	-71.9	4,482.7	4,447.3	35.43	126.540	
7,775.6	7,015.7	7,121.6	7,038.5	22.7	19.5	95.14	-5,085.5	-71.9	4,407.8	4,371.4	36.41	121.072	
7,800.0	7,015.6	7,121.3	7,038.2	23.0	19.5	95.12	-5,085.5	-71.9	4,383.6	4,346.9	36.72	119.367	
7,874.0	7,015.4	7,120.7	7,037.6	24.0	19.5	95.05	-5,085.5	-71.9	4,310.3	4,272.6	37.76	114.163	
7,900.0	7,015.3	7,120.4	7,037.3	24.4	19.5	95.03	-5,085.5	-71.9	4,284.6	4,246.5	38.12	112.402	
7,972.4	7,015.1	7,119.7	7,036.6	25.4	19.5	94.97	-5,085.5	-71.9	4,212.9	4,173.7	39.19	107.509	
8,000.0	7,015.0	7,119.5	7,036.4	25.8	19.5	94.95	-5,085.6	-72.0	4,185.6	4,146.0	39.59	105.716	
8,070.8	7,014.8	7,118.8	7,035.7	26.8	19.5	94.88	-5,085.6	-72.0	4,115.5	4,074.8	40.68	101.156	
8,100.0	7,014.7	7,118.6	7,035.4	27.3	19.5	94.86	-5,085.6	-72.0	4,086.7	4,045.5	41.13	99.351	
8,169.3	7,014.4	7,117.9	7,034.8	28.3	19.5	94.80	-5,085.6	-72.0	4,018.2	3,975.9	42.24	95.128	
8,200.0	7,014.4	7,117.6	7,034.5	28.8	19.5	94.77	-5,085.6	-72.0	3,987.8	3,945.1	42.73	93.326	
8,267.7	7,014.1	7,117.0	7,033.9	29.9	19.5	94.71	-5,085.6	-72.0	3,920.9	3,877.1	43.84	89.433	
8,300.0	7,014.0	7,116.7	7,033.6	30.4	19.5	94.68	-5,085.6	-72.0	3,889.0	3,844.6	44.37	87.644	
8,366.1	7,013.8	7,116.0	7,032.9	31.5	19.5	94.62	-5,085.6	-72.0	3,823.7	3,778.2	45.48	84.065	
8,400.0	7,013.7	7,115.7	7,032.6	32.0	19.5	94.59	-5,085.6	-72.0	3,790.2	3,744.2	46.05	82.299	
8,464.5	7,013.5	7,115.1	7,032.0	33.1	19.5	94.54	-5,085.6	-72.0	3,726.5	3,679.3	47.16	79.017	
8,500.0	7,013.4	7,114.8	7,031.7	33.7	19.5	94.50	-5,085.6	-72.0	3,691.5	3,643.8	47.77	77.279	
8,563.0	7,013.2	7,114.2	7,031.1	34.8	19.5	94.45	-5,085.6	-72.0	3,629.4	3,580.5	48.87	74.272	
8,600.0	7,013.1	7,113.8	7,030.7	35.4	19.5	94.41	-5,085.6	-72.1	3,592.9	3,543.4	49.51	72.567	
8,661.4	7,012.9	7,113.2	7,030.1	36.5	19.5	94.36	-5,085.6	-72.1	3,532.4	3,481.8	50.60	69.814	
8,700.0	7,012.8	7,112.9	7,029.8	37.1	19.5	94.33	-5,085.6	-72.1	3,494.4	3,443.1	51.28	68.144	
8,759.8	7,012.6	7,112.3	7,029.2	38.2	19.5	94.27	-5,085.6	-72.1	3,435.4	3,383.1	52.35	65.626	
8,800.0	7,012.4	7,111.9	7,028.8	38.9	19.5	94.24	-5,085.6	-72.1	3,395.9	3,342.8	53.07	63.992	
8,858.2	7,012.3	7,111.4	7,028.3	39.9	19.5	94.18	-5,085.6	-72.1	3,338.6	3,284.5	54.12	61.689	
8,900.0	7,012.1	7,111.0	7,027.9	40.7	19.5	94.14	-5,085.6	-72.1	3,297.5	3,242.7	54.87	60.093	
8,956.7	7,011.9	7,110.4	7,027.3	41.7	19.5	94.09	-5,085.6	-72.1	3,241.8	3,185.9	55.91	57.987	
9,000.0	7,011.8	7,110.0	7,026.9	42.4	19.5	94.05	-5,085.6	-72.1	3,199.3	3,142.6	56.70	56.429	
9,055.1	7,011.6	7,109.5	7,026.4	43.4	19.5	94.00	-5,085.6	-72.1	3,145.2	3,087.5	57.71	54.502	
9,100.0	7,011.5	7,109.0	7,025.9	44.2	19.5	93.96	-5,085.6	-72.1	3,101.1	3,042.6	58.53	52.982	
9,153.5	7,011.3	7,108.5	7,025.4	45.2	19.5	93.91	-5,085.6	-72.1	3,048.6	2,989.1	59.52	51.220	
9,200.0	7,011.2	7,108.1	7,025.0	46.1	19.5	93.87	-5,085.6	-72.2	3,003.1	2,942.7	60.38	49.737	
9,251.9	7,011.0	7,107.6	7,024.4	47.0	19.5	93.82	-5,085.6	-72.2	2,952.2	2,890.9	61.35	48.125	
9,300.0	7,010.9	7,107.1	7,024.0	47.9	19.5	93.78	-5,085.6	-72.2	2,905.2	2,842.9	62.24	46.678	
9,350.4	7,010.7	7,106.6	7,023.5	48.8	19.5	93.73	-5,085.6	-72.2	2,855.9	2,792.7	63.18	45.203	
9,400.0	7,010.5	7,106.1	7,023.0	49.7	19.5	93.69	-5,085.6	-72.2	2,807.4	2,743.3	64.11	43.793	
9,448.8	7,010.4	7,105.6	7,022.5	50.6	19.5	93.64	-5,085.6	-72.2	2,759.8	2,694.8	65.02	42.444	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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									
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
9,500.0	7,010.2	7,105.1	7,022.0	51.6	19.5	93.59	-5,085.6	-72.2	2,709.8	2,643.9	65.98	41.068	
9,547.2	7,010.1	7,104.7	7,021.6	52.5	19.5	93.55	-5,085.7	-72.2	2,663.8	2,596.9	66.87	39.834	
9,600.0	7,009.9	7,104.1	7,021.0	53.5	19.5	93.50	-5,085.7	-72.2	2,612.4	2,544.6	67.87	38.493	
9,645.6	7,009.8	7,103.7	7,020.6	54.3	19.5	93.46	-5,085.7	-72.2	2,568.0	2,499.3	68.73	37.363	
9,700.0	7,009.6	7,103.1	7,020.0	55.3	19.5	93.41	-5,085.7	-72.2	2,515.2	2,445.5	69.76	36.056	
9,744.1	7,009.4	7,102.7	7,019.6	56.2	19.5	93.37	-5,085.7	-72.3	2,472.5	2,401.9	70.60	35.023	
9,800.0	7,009.3	7,102.2	7,019.1	57.2	19.5	93.31	-5,085.7	-72.3	2,418.3	2,346.6	71.66	33.748	
9,842.5	7,009.1	7,101.7	7,018.6	58.0	19.5	93.27	-5,085.7	-72.3	2,377.1	2,304.7	72.47	32.803	
9,900.0	7,008.9	7,101.2	7,018.1	59.1	19.5	93.22	-5,085.7	-72.3	2,321.5	2,248.0	73.56	31.560	
9,940.9	7,008.8	7,100.8	7,017.7	59.9	19.5	93.18	-5,085.7	-72.3	2,282.0	2,207.7	74.34	30.697	
10,000.0	7,008.6	7,100.2	7,017.1	61.0	19.5	93.13	-5,085.7	-72.3	2,225.1	2,149.6	75.47	29.484	
10,039.3	7,008.5	7,099.8	7,016.7	61.7	19.5	93.09	-5,085.7	-72.3	2,187.3	2,111.0	76.22	28.696	
10,100.0	7,008.3	7,099.2	7,016.1	62.9	19.5	93.03	-5,085.7	-72.3	2,129.0	2,051.6	77.38	27.513	
10,137.8	7,008.2	7,098.8	7,015.7	63.6	19.5	93.00	-5,085.7	-72.3	2,092.8	2,014.7	78.11	26.794	
10,200.0	7,008.0	7,098.2	7,015.1	64.8	19.5	92.94	-5,085.7	-72.3	2,033.3	1,954.0	79.30	25.641	
10,236.2	7,007.9	7,097.8	7,014.7	65.5	19.5	92.90	-5,085.7	-72.3	1,998.7	1,918.7	79.99	24.986	
10,300.0	7,007.6	7,097.1	7,014.0	66.7	19.5	92.84	-5,085.7	-72.4	1,938.0	1,856.8	81.22	23.861	
10,334.6	7,007.5	7,096.8	7,013.7	67.3	19.5	92.81	-5,085.7	-72.4	1,905.1	1,823.2	81.89	23.265	
10,400.0	7,007.3	7,096.1	7,013.0	68.6	19.5	92.74	-5,085.7	-72.4	1,843.2	1,760.1	83.14	22.169	
10,433.0	7,007.2	7,095.8	7,012.7	69.2	19.5	92.71	-5,085.7	-72.4	1,812.0	1,728.2	83.78	21.628	
10,500.0	7,007.0	7,095.1	7,012.0	70.5	19.5	92.65	-5,085.7	-72.4	1,749.0	1,663.9	85.07	20.559	
10,531.5	7,006.9	7,094.8	7,011.7	71.1	19.5	92.62	-5,085.7	-72.4	1,719.5	1,633.8	85.68	20.069	
10,600.0	7,006.7	7,094.1	7,011.0	72.4	19.5	92.55	-5,085.7	-72.4	1,655.4	1,568.4	87.00	19.028	
10,629.9	7,006.6	7,093.8	7,010.7	73.0	19.5	92.52	-5,085.7	-72.4	1,627.6	1,540.1	87.58	18.584	
10,700.0	7,006.4	7,093.1	7,010.0	74.3	19.5	92.45	-5,085.7	-72.4	1,562.7	1,473.8	88.94	17.571	
10,728.3	7,006.3	7,092.8	7,009.7	74.9	19.5	92.43	-5,085.7	-72.4	1,536.6	1,447.1	89.48	17.172	
10,800.0	7,006.0	7,092.0	7,008.9	76.3	19.5	92.36	-5,085.7	-72.4	1,470.9	1,380.1	90.87	16.187	
10,826.7	7,005.9	7,091.8	7,008.7	76.8	19.5	92.33	-5,085.7	-72.4	1,446.6	1,355.2	91.39	15.828	
10,900.0	7,005.7	7,091.0	7,007.9	78.2	19.5	92.26	-5,085.7	-72.5	1,380.3	1,287.5	92.81	14.872	
10,925.2	7,005.6	7,090.7	7,007.6	78.7	19.5	92.23	-5,085.8	-72.5	1,357.7	1,264.4	93.30	14.552	
11,000.0	7,005.4	7,090.0	7,006.9	80.1	19.5	92.16	-5,085.8	-72.5	1,291.0	1,196.3	94.75	13.626	
11,023.6	7,005.3	7,089.7	7,006.6	80.6	19.5	92.14	-5,085.8	-72.5	1,270.2	1,175.0	95.21	13.341	
11,100.0	7,005.1	7,088.9	7,005.8	82.0	19.5	92.06	-5,085.8	-72.5	1,203.4	1,106.8	96.69	12.446	
11,122.0	7,005.0	7,088.7	7,005.6	82.5	19.5	92.04	-5,085.8	-72.5	1,184.4	1,087.3	97.12	12.195	
11,200.0	7,004.7	7,087.9	7,004.8	84.0	19.5	91.96	-5,085.8	-72.5	1,118.0	1,019.3	98.64	11.334	
11,220.4	7,004.7	7,087.7	7,004.6	84.4	19.5	91.94	-5,085.8	-72.5	1,100.8	1,001.7	99.03	11.115	
11,300.0	7,004.4	7,086.8	7,003.7	85.9	19.5	91.86	-5,085.8	-72.5	1,035.1	934.5	100.58	10.291	
11,318.9	7,004.4	7,086.6	7,003.5	86.3	19.5	91.84	-5,085.8	-72.5	1,019.8	918.8	100.95	10.102	
11,400.0	7,004.1	7,085.8	7,002.7	87.8	19.5	91.76	-5,085.8	-72.6	955.5	852.9	102.53	9.319	
11,417.3	7,004.0	7,085.6	7,002.5	88.2	19.5	91.75	-5,085.8	-72.6	942.1	839.2	102.87	9.159	
11,500.0	7,003.8	7,084.7	7,001.6	89.8	19.5	91.66	-5,085.8	-72.6	880.0	775.6	104.48	8.423	
11,515.7	7,003.7	7,084.6	7,001.5	90.1	19.5	91.65	-5,085.8	-72.6	868.6	763.8	104.78	8.290	
11,600.0	7,003.4	7,083.7	7,000.6	91.7	19.5	91.56	-5,085.8	-72.6	809.9	703.5	106.43	7.610	
11,614.1	7,003.4	7,083.5	7,000.4	92.0	19.5	91.55	-5,085.8	-72.6	800.5	693.8	106.70	7.502	
11,700.0	7,003.1	7,082.6	6,999.5	93.7	19.5	91.46	-5,085.8	-72.6	746.7	638.3	108.38	6.890	
11,712.6	7,003.1	7,082.5	6,999.4	93.9	19.5	91.45	-5,085.8	-72.6	739.3	630.7	108.62	6.806	
11,800.0	7,002.8	7,081.6	6,998.5	95.6	19.5	91.36	-5,085.8	-72.6	692.2	581.8	110.33	6.274	
11,811.0	7,002.7	7,081.4	6,998.3	95.8	19.5	91.35	-5,085.8	-72.6	686.8	576.2	110.54	6.213	
11,900.0	7,002.5	7,080.5	6,997.4	97.6	19.5	91.26	-5,085.8	-72.6	648.5	536.3	112.28	5.776	
11,909.4	7,002.4	7,080.4	6,997.3	97.7	19.5	91.25	-5,085.8	-72.6	645.1	532.6	112.47	5.736	
12,000.0	7,002.1	7,079.4	6,996.3	99.5	19.5	91.16	-5,085.8	-72.7	618.2	503.9	114.24	5.411	
12,007.8	7,002.1	7,079.3	6,996.2	99.7	19.5	91.15	-5,085.8	-72.7	616.4	502.0	114.39	5.389	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						
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	7,001.8	7,078.3	6,995.2	101.5	19.5	91.05	-5,085.8	-72.7	603.1	486.9	116.19	5.190	
12,106.3	7,001.8	7,078.3	6,995.2	101.6	19.5	91.05	-5,085.8	-72.7	602.6	486.3	116.31	5.181	
12,142.4	7,001.7	7,077.9	6,994.8	102.3	19.5	91.01	-5,085.8	-72.7	601.6	484.5	117.02	5.141 CC, ES	
12,200.0	7,001.5	7,077.2	6,994.2	103.4	19.5	90.95	-5,085.9	-72.7	604.3	486.2	118.15	5.115	
12,204.7	7,001.5	7,077.2	6,994.1	103.5	19.5	90.95	-5,085.9	-72.7	604.8	486.5	118.24	5.115 SF	
12,300.0	7,001.2	7,076.2	6,993.1	105.3	19.5	90.85	-5,085.9	-72.7	621.9	501.8	120.10	5.178	
12,303.1	7,001.1	7,076.1	6,993.0	105.4	19.5	90.84	-5,085.9	-72.7	622.7	502.5	120.16	5.182	
12,400.0	7,000.8	7,075.1	6,992.0	107.3	19.5	90.74	-5,085.9	-72.7	654.4	532.4	122.06	5.361	
12,401.5	7,000.8	7,075.1	6,992.0	107.3	19.5	90.74	-5,085.9	-72.7	655.0	532.9	122.09	5.365	
12,500.0	7,000.5	7,074.0	6,990.9	109.3	19.5	90.64	-5,085.9	-72.8	699.8	575.8	124.02	5.643	
12,598.4	7,000.2	7,072.9	6,989.8	111.2	19.5	90.54	-5,085.9	-72.8	754.9	628.9	125.94	5.994	
12,600.0	7,000.2	7,072.9	6,989.8	111.2	19.5	90.53	-5,085.9	-72.8	755.8	629.9	125.98	6.000	
12,696.8	6,999.8	7,071.8	6,988.7	113.1	19.5	90.43	-5,085.9	-72.8	818.1	690.2	127.87	6.398	
12,700.0	6,999.8	7,071.8	6,988.7	113.2	19.5	90.43	-5,085.9	-72.8	820.3	692.3	127.93	6.412	
12,795.2	6,999.5	7,070.7	6,987.6	115.0	19.5	90.33	-5,085.9	-72.8	887.8	758.0	129.80	6.839	
12,800.0	6,999.5	7,070.7	6,987.6	115.1	19.5	90.32	-5,085.9	-72.8	891.2	761.4	129.89	6.861	
12,893.7	6,999.2	7,069.6	6,986.5	116.9	19.5	90.23	-5,085.9	-72.8	962.4	830.7	131.73	7.306	
12,900.0	6,999.2	7,069.6	6,986.5	117.1	19.5	90.22	-5,085.9	-72.8	967.4	835.5	131.85	7.337	
12,992.1	6,998.9	7,068.5	6,985.4	118.9	19.5	90.12	-5,085.9	-72.9	1,041.1	907.4	133.66	7.789	
13,000.0	6,998.8	7,068.4	6,985.4	119.0	19.5	90.11	-5,085.9	-72.9	1,047.5	913.7	133.81	7.829	
13,090.5	6,998.6	7,067.4	6,984.3	120.8	19.5	90.02	-5,085.9	-72.9	1,122.9	987.3	135.58	8.282	
13,100.0	6,998.5	7,067.3	6,984.2	121.0	19.5	90.01	-5,085.9	-72.9	1,130.9	995.1	135.77	8.329	
13,188.9	6,998.2	7,066.3	6,983.2	122.7	19.5	89.91	-5,085.9	-72.9	1,207.1	1,069.6	137.51	8.778	
13,200.0	6,998.2	7,066.2	6,983.1	122.9	19.5	89.90	-5,085.9	-72.9	1,216.7	1,079.0	137.73	8.834	
13,287.4	6,997.9	7,065.2	6,982.1	124.6	19.5	89.80	-5,085.9	-72.9	1,293.4	1,153.9	139.44	9.275	
13,300.0	6,997.9	7,065.1	6,982.0	124.9	19.5	89.79	-5,085.9	-72.9	1,304.6	1,164.9	139.69	9.339	
13,385.8	6,997.6	7,064.1	6,981.0	126.6	19.5	89.70	-5,085.9	-72.9	1,381.3	1,239.9	141.37	9.770	
13,400.0	6,997.5	7,064.0	6,980.9	126.9	19.5	89.68	-5,086.0	-72.9	1,394.0	1,252.4	141.65	9.842	
13,484.2	6,997.3	7,063.0	6,979.9	128.5	19.5	89.59	-5,086.0	-73.0	1,470.5	1,327.2	143.30	10.261	
13,500.0	6,997.2	7,062.8	6,979.7	128.8	19.5	89.57	-5,086.0	-73.0	1,484.9	1,341.3	143.61	10.340	
13,582.6	6,996.9	7,061.9	6,978.8	130.4	19.5	89.48	-5,086.0	-73.0	1,560.8	1,415.6	145.23	10.747	
13,600.0	6,996.9	7,061.7	6,978.6	130.8	19.5	89.47	-5,086.0	-73.0	1,576.8	1,431.3	145.57	10.832	
13,681.1	6,996.6	7,060.7	6,977.7	132.4	19.5	89.38	-5,086.0	-73.0	1,652.0	1,504.9	147.16	11.226	
13,700.0	6,996.5	7,060.5	6,977.4	132.7	19.5	89.36	-5,086.0	-73.0	1,669.7	1,522.2	147.53	11.318	
13,779.5	6,996.3	7,059.6	6,976.5	134.3	19.5	89.27	-5,086.0	-73.0	1,744.1	1,595.0	149.09	11.698	
13,800.0	6,996.2	7,059.4	6,976.3	134.7	19.5	89.25	-5,086.0	-73.0	1,763.3	1,613.8	149.49	11.796	
13,877.9	6,995.9	7,058.5	6,975.4	136.2	19.5	89.16	-5,086.0	-73.0	1,836.8	1,685.8	151.02	12.163	
13,900.0	6,995.9	7,058.2	6,975.1	136.7	19.5	89.14	-5,086.0	-73.0	1,857.6	1,706.2	151.45	12.266	
13,976.3	6,995.6	7,057.3	6,974.3	138.2	19.4	89.05	-5,086.0	-73.1	1,930.0	1,777.1	152.94	12.619	
14,000.0	6,995.5	7,057.1	6,974.0	138.6	19.4	89.03	-5,086.0	-73.1	1,952.5	1,799.1	153.41	12.728	
14,074.8	6,995.3	7,056.2	6,973.1	140.1	19.4	88.94	-5,086.0	-73.1	2,023.8	1,868.9	154.87	13.067	
14,100.0	6,995.2	7,055.9	6,972.8	140.6	19.4	88.91	-5,086.0	-73.1	2,047.9	1,892.5	155.37	13.181	
14,162.0	6,995.0	7,055.2	6,972.1	141.8	19.4	88.85	-5,086.0	-73.1	2,107.2	1,950.7	156.54	13.461	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
0.0	0.0	0.0	0.0	0.0	0.0	173.04	-5,118.5	624.7	5,156.5				
98.4	98.4	82.7	82.7	0.1	0.1	173.04	-5,118.5	624.7	5,156.5	5,156.3	0.17	N/A	
100.0	100.0	84.3	84.3	0.1	0.1	173.04	-5,118.5	624.7	5,156.5	5,156.3	0.18	N/A	
196.8	196.8	182.1	182.1	0.3	0.2	173.04	-5,118.5	624.6	5,156.4	5,156.0	0.49	N/A	
200.0	200.0	185.2	185.2	0.3	0.2	173.04	-5,118.5	624.6	5,156.4	5,155.9	0.50	N/A	
295.3	295.3	281.4	281.4	0.5	0.3	173.04	-5,118.4	624.5	5,156.4	5,155.6	0.80	6,446.060	
300.0	300.0	286.2	286.2	0.5	0.3	173.04	-5,118.4	624.5	5,156.4	5,155.6	0.82	6,326.698	
393.7	393.7	380.9	380.9	0.8	0.5	173.04	-5,118.4	624.5	5,156.3	5,155.1	1.21	4,246.726	
400.0	400.0	387.2	387.2	0.8	0.5	173.04	-5,118.4	624.5	5,156.3	5,155.1	1.24	4,153.711	
492.1	492.1	480.8	480.8	1.0	0.7	173.06	-5,118.5	623.2	5,156.3	5,154.6	1.64	3,140.661	
500.0	500.0	504.6	504.6	1.0	0.7	173.06	-5,118.5	622.6	5,156.2	5,154.5	1.71	3,009.534	
590.5	590.5	635.0	634.8	1.2	1.0	173.13	-5,117.7	616.7	5,155.1	5,152.9	2.21	2,329.144	
600.0	600.0	635.0	634.8	1.2	1.0	173.13	-5,117.7	616.7	5,155.0	5,152.8	2.23	2,306.959	
689.0	689.0	792.0	791.4	1.4	1.4	173.26	-5,116.3	604.7	5,153.3	5,150.5	2.79	1,846.797	
700.0	700.0	805.8	805.1	1.4	1.4	173.27	-5,116.1	603.4	5,153.0	5,150.1	2.85	1,810.113	
787.4	787.4	882.1	880.9	1.6	1.6	173.37	-5,115.4	595.0	5,151.0	5,147.8	3.23	1,595.333	
800.0	800.0	892.9	891.6	1.7	1.7	173.38	-5,115.3	593.6	5,150.8	5,147.5	3.28	1,568.721	
885.8	885.8	1,016.4	1,013.8	1.9	2.1	173.58	-5,114.6	575.4	5,148.9	5,145.1	3.79	1,360.261	
900.0	900.0	1,050.0	1,047.0	1.9	2.2	173.64	-5,114.2	569.9	5,148.5	5,144.6	3.90	1,319.216	
984.2	984.2	1,110.9	1,106.9	2.1	2.4	173.76	-5,113.5	559.2	5,145.9	5,141.7	4.25	1,209.854	
1,000.0	1,000.0	1,119.9	1,115.7	2.1	2.4	173.78	-5,113.5	557.6	5,145.5	5,141.2	4.31	1,193.077	
1,082.7	1,082.7	1,166.6	1,161.4	2.3	2.6	173.88	-5,113.5	548.2	5,143.7	5,139.0	4.62	1,112.257	
1,100.0	1,100.0	1,195.0	1,189.2	2.3	2.7	173.95	-5,113.7	542.1	5,143.4	5,138.7	4.74	1,085.035	
1,181.1	1,181.1	1,259.8	1,252.3	2.5	3.0	111.58	-5,114.3	527.1	5,142.5	5,137.0	5.55	926.917	
1,200.0	1,200.0	1,285.3	1,277.0	2.6	3.1	111.66	-5,114.4	520.9	5,142.4	5,136.7	5.71	901.168	
1,266.9	1,266.8	1,373.6	1,362.3	2.7	3.6	111.95	-5,115.0	498.0	5,142.2	5,135.9	6.30	816.778	
1,279.5	1,279.4	1,390.0	1,378.0	2.7	3.7	112.01	-5,115.1	493.6	5,142.2	5,135.8	6.41	802.138	
1,300.0	1,299.8	1,416.3	1,403.3	2.8	3.8	112.11	-5,115.2	486.1	5,142.3	5,135.7	6.60	779.571	
1,377.9	1,377.5	1,485.2	1,469.0	3.0	4.2	112.38	-5,115.5	465.7	5,142.9	5,135.8	7.17	717.523	
1,400.0	1,399.5	1,499.7	1,482.8	3.0	4.3	112.44	-5,115.6	461.2	5,143.3	5,136.0	7.31	703.966	
1,476.4	1,475.3	1,549.1	1,529.7	3.2	4.6	112.63	-5,116.2	445.6	5,145.5	5,137.7	7.79	660.237	
1,500.0	1,498.7	1,580.0	1,558.9	3.2	4.8	112.76	-5,116.7	435.4	5,146.5	5,138.4	8.04	640.101	
1,574.8	1,572.6	1,618.0	1,594.7	3.5	5.1	112.89	-5,117.3	422.8	5,150.2	5,141.7	8.49	606.625	
1,600.0	1,597.5	1,637.1	1,612.7	3.5	5.2	112.97	-5,117.7	416.4	5,151.7	5,143.0	8.68	593.279	
1,673.2	1,669.4	1,691.9	1,664.3	3.7	5.6	113.17	-5,118.8	397.9	5,156.8	5,147.5	9.26	556.654	
1,700.0	1,695.7	1,773.4	1,740.7	3.8	6.1	113.61	-5,120.1	369.7	5,158.9	5,149.0	9.91	520.435	
1,771.6	1,765.7	1,868.0	1,828.7	4.1	6.8	114.17	-5,120.6	334.7	5,163.7	5,152.9	10.84	476.341	
1,800.0	1,793.4	1,880.9	1,840.5	4.2	6.9	114.25	-5,120.7	329.7	5,165.8	5,154.8	11.03	468.190	
1,870.1	1,862.0	1,912.3	1,869.5	4.4	7.2	114.45	-5,121.0	317.5	5,171.3	5,159.8	11.52	448.848	
1,900.0	1,891.3	1,925.6	1,881.7	4.5	7.3	114.53	-5,121.2	312.2	5,173.9	5,162.1	11.73	441.157	
1,968.5	1,958.3	1,966.0	1,918.7	4.8	7.6	114.79	-5,122.0	296.0	5,180.1	5,167.8	12.29	421.566	
2,000.0	1,989.1	2,176.7	2,109.6	4.9	9.4	116.15	-5,122.5	207.0	5,182.8	5,168.6	14.18	365.378	
2,066.9	2,054.5	2,253.2	2,177.6	5.2	10.1	116.67	-5,121.0	172.0	5,187.1	5,172.0	15.13	342.850	
2,100.0	2,086.9	2,270.4	2,192.8	5.3	10.3	116.79	-5,120.7	164.0	5,189.4	5,174.0	15.42	336.640	
2,165.3	2,150.8	2,304.3	2,222.8	5.6	10.6	117.03	-5,120.2	148.2	5,194.3	5,178.3	15.98	324.971	
2,200.0	2,184.7	2,322.2	2,238.6	5.7	10.8	117.15	-5,119.9	139.8	5,197.1	5,180.8	16.28	319.145	
2,263.8	2,247.1	2,367.1	2,278.3	5.9	11.2	117.46	-5,119.4	118.7	5,202.6	5,185.7	16.95	306.949	
2,300.0	2,282.5	2,442.5	2,344.8	6.1	11.9	117.98	-5,118.2	83.4	5,205.8	5,188.0	17.77	292.870	
2,362.2	2,343.4	2,479.0	2,377.1	6.4	12.2	118.23	-5,117.3	66.4	5,211.1	5,192.7	18.35	284.027	
2,400.0	2,380.3	2,479.0	2,377.1	6.5	12.2	118.23	-5,117.3	66.4	5,214.6	5,196.1	18.49	281.986	
2,460.6	2,439.6	2,534.9	2,426.7	6.8	12.7	118.61	-5,116.2	40.5	5,220.3	5,201.1	19.20	271.837	
2,500.0	2,478.1	2,550.4	2,440.5	6.9	12.9	118.71	-5,116.0	33.4	5,224.3	5,204.8	19.49	268.078	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	2,573.7	2,461.2	7.2	13.1	118.87	-5,115.8	22.8	5,230.8	5,210.9	19.92	262.627		
2,600.0	2,576.0	2,608.0	2,491.8	7.4	13.4	119.10	-5,115.7	7.3	5,235.6	5,215.2	20.37	257.055		
2,657.5	2,632.2	2,736.0	2,605.4	7.6	14.6	119.96	-5,114.0	-51.6	5,242.2	5,220.5	21.75	241.073		
2,700.0	2,673.8	2,771.5	2,636.6	7.8	14.9	120.21	-5,113.1	-68.4	5,246.8	5,224.5	22.27	235.626		
2,755.9	2,728.4	2,801.7	2,663.2	8.0	15.2	120.42	-5,112.4	-82.9	5,253.2	5,230.4	22.79	230.497		
2,800.0	2,771.6	2,825.4	2,683.9	8.2	15.5	120.58	-5,111.8	-94.4	5,258.4	5,235.2	23.20	226.650		
2,854.3	2,824.7	2,864.0	2,717.6	8.4	15.9	120.85	-5,111.1	-113.2	5,265.1	5,241.3	23.80	221.225		
2,900.0	2,869.4	2,864.0	2,717.6	8.6	15.9	120.85	-5,111.1	-113.2	5,271.1	5,247.1	23.98	219.804		
2,952.7	2,921.0	2,864.0	2,717.6	8.9	15.9	120.85	-5,111.1	-113.2	5,278.4	5,254.2	24.19	218.200		
3,000.0	2,967.2	2,907.4	2,755.3	9.1	16.3	121.16	-5,110.5	-134.7	5,285.0	5,260.2	24.83	212.820		
3,051.2	3,017.3	2,924.6	2,770.2	9.3	16.5	121.28	-5,110.4	-143.3	5,292.7	5,267.5	25.22	209.883		
3,100.0	3,065.0	2,940.9	2,784.3	9.5	16.7	121.39	-5,110.3	-151.5	5,300.4	5,274.8	25.58	207.190		
3,149.6	3,113.5	2,993.0	2,829.1	9.7	17.3	121.77	-5,110.6	-178.1	5,308.8	5,282.5	26.32	201.684		
3,200.0	3,162.8	2,993.0	2,829.1	9.9	17.3	121.77	-5,110.6	-178.1	5,317.2	5,290.6	26.52	200.471		
3,248.0	3,209.8	2,993.0	2,829.1	10.2	17.3	121.77	-5,110.6	-178.1	5,325.6	5,298.9	26.72	199.343		
3,300.0	3,260.7	2,993.0	2,829.1	10.4	17.3	121.77	-5,110.6	-178.1	5,335.2	5,308.3	26.92	198.159		
3,346.4	3,306.1	3,031.4	2,862.0	10.6	17.7	122.04	-5,111.0	-197.9	5,344.0	5,316.4	27.52	194.158		
3,400.0	3,358.5	3,054.6	2,881.7	10.8	18.0	122.21	-5,111.4	-210.0	5,354.4	5,326.5	27.99	191.322		
3,444.9	3,402.4	3,073.9	2,898.2	11.0	18.2	122.35	-5,111.8	-220.1	5,363.5	5,335.1	28.37	189.036		
3,500.0	3,456.3	3,121.0	2,938.3	11.3	18.7	122.69	-5,112.8	-244.8	5,375.0	5,345.9	29.10	184.736		
3,543.3	3,498.6	3,121.0	2,938.3	11.5	18.7	122.69	-5,112.8	-244.8	5,384.2	5,354.9	29.27	183.952		
3,600.0	3,554.1	3,378.0	3,159.3	11.7	21.4	124.49	-5,114.5	-375.9	5,395.7	5,363.7	31.99	168.693		
3,641.7	3,594.9	3,378.0	3,159.3	11.9	21.4	124.49	-5,114.5	-375.9	5,403.8	5,371.6	32.15	168.073		
3,700.0	3,651.9	3,427.9	3,202.7	12.2	21.9	124.83	-5,114.0	-400.5	5,415.2	5,382.4	32.83	164.965		
3,740.1	3,691.2	3,445.4	3,218.0	12.3	22.0	124.95	-5,114.0	-408.9	5,423.3	5,390.2	33.14	163.647		
3,800.0	3,749.7	3,471.7	3,241.2	12.6	22.3	125.12	-5,114.0	-421.4	5,435.8	5,402.2	33.61	161.726		
3,838.6	3,787.5	3,506.0	3,271.6	12.8	22.6	125.35	-5,114.3	-437.3	5,444.1	5,410.1	34.07	159.805		
3,900.0	3,847.5	3,523.1	3,286.8	13.0	22.8	125.46	-5,114.6	-445.1	5,457.6	5,423.1	34.45	158.424		
3,937.0	3,883.7	3,550.0	3,310.7	13.2	23.0	125.63	-5,114.9	-457.4	5,465.8	5,431.0	34.81	157.008		
4,000.0	3,945.4	3,596.0	3,351.7	13.5	23.4	125.92	-5,115.6	-478.2	5,480.1	5,444.7	35.43	154.670		
4,035.4	3,980.0	3,621.9	3,374.9	13.7	23.7	126.08	-5,116.0	-489.9	5,488.3	5,452.5	35.78	153.395		
4,068.9	4,012.7	3,670.7	3,418.4	13.8	24.1	126.39	-5,116.7	-511.7	5,496.0	5,459.7	36.30	151.415		
4,100.0	4,043.2	3,742.6	3,482.9	13.9	24.7	126.94	-5,117.4	-543.7	5,503.0	5,466.1	36.97	148.837		
4,133.8	4,076.4	3,779.5	3,516.0	14.0	25.1	127.29	-5,117.5	-559.9	5,510.3	5,472.9	37.36	147.503		
4,200.0	4,141.6	3,823.5	3,555.6	14.2	25.5	127.77	-5,117.8	-579.1	5,524.1	5,486.2	37.88	145.823		
4,232.3	4,173.4	3,845.2	3,575.2	14.3	25.6	127.99	-5,117.9	-588.6	5,530.6	5,492.4	38.13	145.044		
4,300.0	4,240.5	3,892.0	3,617.3	14.5	26.1	128.46	-5,118.4	-608.9	5,543.7	5,505.1	38.66	143.408		
4,330.7	4,271.0	3,920.0	3,642.5	14.6	26.3	128.70	-5,118.6	-621.0	5,549.4	5,510.5	38.95	142.470		
4,400.0	4,339.9	3,984.5	3,700.3	14.8	26.9	129.24	-5,119.0	-649.7	5,561.8	5,522.1	39.62	140.364		
4,429.1	4,368.9	4,011.6	3,724.5	14.8	27.2	129.46	-5,119.1	-661.9	5,566.7	5,526.8	39.90	139.530		
4,500.0	4,439.6	4,087.6	3,791.7	15.0	27.9	130.03	-5,118.9	-697.4	5,577.9	5,537.2	40.71	137.019		
4,527.5	4,467.1	4,117.5	3,817.9	15.0	28.2	130.25	-5,118.7	-711.8	5,582.0	5,540.9	41.02	136.076		
4,600.0	4,539.5	4,148.0	3,844.5	15.1	28.6	130.57	-5,118.3	-726.7	5,592.1	5,550.7	41.40	135.082		
4,626.0	4,565.4	4,179.4	3,871.7	15.2	28.9	130.78	-5,117.9	-742.3	5,595.4	5,553.7	41.72	134.107		
4,668.9	4,608.4	4,198.8	3,888.6	15.2	29.1	-166.47	-5,117.8	-751.9	5,601.0	5,559.0	41.99	133.390		
4,700.0	4,639.5	4,212.9	3,900.8	15.3	29.2	-166.40	-5,117.7	-758.9	5,604.9	5,562.7	42.17	132.914		
4,724.4	4,663.9	4,224.0	3,910.4	15.3	29.4	-166.34	-5,117.6	-764.4	5,608.1	5,565.8	42.31	132.533		
4,800.0	4,739.5	4,277.0	3,956.4	15.4	29.9	-166.08	-5,117.7	-790.8	5,618.4	5,575.4	42.94	130.835		
4,822.8	4,762.3	4,277.0	3,956.4	15.4	29.9	-166.08	-5,117.7	-790.8	5,621.5	5,578.6	42.98	130.795		
4,900.0	4,839.5	4,341.0	4,011.8	15.6	30.6	-165.76	-5,118.0	-822.8	5,632.6	5,588.9	43.72	128.845		
4,921.2	4,860.7	4,364.1	4,031.9	15.6	30.9	-165.64	-5,118.1	-834.5	5,635.7	5,591.7	43.97	128.166		
5,000.0	4,939.5	4,484.6	4,136.4	15.7	32.1	-165.05	-5,118.0	-894.2	5,646.9	5,601.7	45.20	124.929		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	4,959.1	4,523.4	4,170.6	15.7	32.5	-164.87	-5,118.0	-912.7	5,649.6	5,604.1	45.58	123.945	
5,100.0	5,039.5	4,583.8	4,224.0	15.9	33.1	-164.59	-5,118.1	-940.7	5,660.8	5,614.5	46.21	122.491	
5,118.1	5,057.6	4,595.8	4,234.8	15.9	33.2	-164.54	-5,118.1	-946.3	5,663.3	5,617.0	46.34	122.207	
5,200.0	5,139.5	4,963.1	4,563.5	16.0	36.5	-162.92	-5,111.5	-1,109.8	5,672.7	5,623.3	49.41	114.802	
5,216.5	5,156.0	4,975.3	4,574.4	16.0	36.6	-162.87	-5,111.0	-1,115.0	5,674.4	5,624.8	49.54	114.550	
5,300.0	5,239.5	5,208.4	4,786.5	16.2	38.6	-161.91	-5,101.1	-1,211.2	5,682.6	5,631.2	51.37	110.615	
5,314.9	5,254.4	5,222.0	4,799.0	16.2	38.7	-161.86	-5,100.4	-1,216.4	5,683.7	5,632.2	51.49	110.390	
5,400.0	5,339.5	5,300.3	4,871.7	16.3	39.3	-161.57	-5,096.8	-1,245.5	5,690.4	5,638.2	52.15	109.106	
5,413.4	5,352.8	5,304.0	4,875.1	16.3	39.3	-161.55	-5,096.6	-1,246.8	5,691.4	5,639.2	52.20	109.026	
5,500.0	5,439.5	5,374.1	4,940.9	16.5	39.8	-161.31	-5,094.2	-1,271.0	5,698.6	5,645.8	52.75	108.032	
5,511.8	5,451.3	5,382.8	4,949.1	16.5	39.8	-161.28	-5,094.0	-1,273.9	5,699.6	5,646.8	52.82	107.908	
5,600.0	5,539.5	5,450.3	5,013.1	16.6	40.3	-161.08	-5,092.7	-1,295.1	5,707.3	5,653.9	53.35	106.980	
5,610.2	5,549.7	5,458.7	5,021.1	16.6	40.3	-161.05	-5,092.5	-1,297.6	5,708.2	5,654.8	53.41	106.874	
5,700.0	5,639.5	5,532.4	5,091.3	16.8	40.8	-160.83	-5,091.5	-1,320.3	5,716.4	5,662.4	53.95	105.960	
5,708.6	5,648.1	5,539.5	5,098.0	16.8	40.8	-160.81	-5,091.5	-1,322.5	5,717.2	5,663.2	54.00	105.873	
5,800.0	5,739.5	5,702.6	5,254.2	17.0	41.7	-160.36	-5,089.6	-1,369.7	5,725.4	5,670.4	54.94	104.209	
5,807.1	5,746.5	5,715.5	5,266.5	17.0	41.8	-160.33	-5,089.4	-1,373.1	5,726.0	5,671.0	55.01	104.097	
5,900.0	5,839.5	5,859.0	5,406.0	17.1	42.5	-160.00	-5,088.4	-1,407.1	5,733.0	5,677.3	55.73	102.879	
5,905.5	5,845.0	5,865.2	5,412.0	17.1	42.5	-159.99	-5,088.4	-1,408.4	5,733.4	5,677.6	55.76	102.830	
6,000.0	5,939.5	6,037.3	5,581.2	17.3	43.1	-159.70	-5,089.5	-1,439.3	5,740.0	5,683.6	56.43	101.722	
6,003.9	5,943.4	6,053.3	5,597.1	17.3	43.1	-159.68	-5,089.7	-1,441.5	5,740.3	5,683.8	56.48	101.639	
6,100.0	6,039.5	6,377.7	5,920.1	17.4	43.8	-159.42	-5,090.6	-1,469.9	5,742.5	5,685.3	57.19	100.405	
6,102.3	6,041.8	6,379.3	5,921.7	17.4	43.8	-159.42	-5,090.6	-1,470.0	5,742.6	5,685.4	57.20	100.395	
6,200.0	6,139.5	6,460.0	6,002.4	17.6	43.9	-159.40	-5,091.3	-1,472.9	5,744.6	5,687.1	57.47	99.965	
6,200.8	6,140.2	6,460.0	6,002.4	17.6	43.9	-159.40	-5,091.3	-1,472.9	5,744.6	5,687.2	57.47	99.963	
6,299.2	6,238.7	6,580.6	6,123.0	17.8	44.0	-159.38	-5,093.3	-1,474.9	5,746.7	5,689.0	57.74	99.527	
6,300.0	6,239.5	6,581.8	6,124.2	17.8	44.0	-159.38	-5,093.3	-1,474.9	5,746.7	5,689.0	57.74	99.523	
6,360.9	6,300.4	6,794.5	6,336.8	17.9	44.1	-159.39	-5,093.9	-1,474.6	5,746.6	5,688.6	57.99	99.089	
6,397.6	6,337.1	6,852.4	6,394.7	17.9	44.1	20.45	-5,092.9	-1,475.3	5,745.3	5,687.3	57.96	99.117	
6,400.0	6,339.5	6,854.8	6,397.2	17.9	44.1	20.46	-5,092.9	-1,475.3	5,745.1	5,687.2	57.96	99.122	
6,450.0	6,389.2	6,905.5	6,447.8	18.0	44.2	20.62	-5,091.9	-1,476.0	5,740.3	5,682.6	57.72	99.443	
6,496.0	6,434.7	6,951.7	6,494.0	18.0	44.2	20.86	-5,091.1	-1,476.5	5,733.0	5,675.7	57.27	100.108	
6,500.0	6,438.6	6,955.7	6,498.0	18.0	44.2	20.89	-5,091.0	-1,476.5	5,732.2	5,675.0	57.22	100.182	
6,550.0	6,487.3	7,038.2	6,580.4	18.0	44.3	21.31	-5,089.4	-1,477.2	5,720.8	5,664.4	56.47	101.308	
6,594.5	6,529.8	7,102.0	6,644.3	18.0	44.3	21.79	-5,087.6	-1,478.1	5,707.8	5,652.2	55.58	102.692	
6,600.0	6,535.1	7,102.0	6,644.3	18.1	44.3	21.85	-5,087.6	-1,478.1	5,706.0	5,650.5	55.45	102.898	
6,650.0	6,581.7	7,137.3	6,679.5	18.0	44.4	22.49	-5,086.5	-1,478.7	5,688.1	5,633.9	54.18	104.976	
6,692.9	6,620.6	7,159.0	6,701.2	18.0	44.4	23.13	-5,085.9	-1,479.1	5,670.5	5,617.6	52.92	107.160	
6,700.0	6,626.9	7,162.5	6,704.7	18.0	44.4	23.25	-5,085.8	-1,479.2	5,667.4	5,614.7	52.69	107.560	
6,750.0	6,670.6	7,186.9	6,729.1	18.0	44.4	24.16	-5,085.2	-1,479.7	5,644.0	5,593.0	51.00	110.667	
6,791.3	6,705.4	7,230.0	6,772.2	18.0	44.5	25.13	-5,084.4	-1,480.6	5,622.8	5,573.3	49.49	113.626	
6,800.0	6,712.5	7,230.0	6,772.2	18.0	44.5	25.32	-5,084.4	-1,480.6	5,618.1	5,568.9	49.15	114.307	
6,850.0	6,752.3	7,234.4	6,776.6	18.0	44.5	26.56	-5,084.3	-1,480.7	5,589.5	5,542.4	47.15	118.550	
6,889.7	6,782.5	7,262.3	6,804.4	18.0	44.5	27.80	-5,083.8	-1,481.4	5,565.1	5,519.6	45.51	122.288	
6,900.0	6,790.0	7,269.2	6,811.4	18.0	44.5	28.15	-5,083.7	-1,481.6	5,558.6	5,513.5	45.08	123.313	
6,950.0	6,825.3	7,301.7	6,843.9	18.0	44.5	30.05	-5,083.1	-1,482.4	5,525.3	5,482.4	42.98	128.562	
6,988.2	6,850.5	7,325.0	6,867.1	17.9	44.6	31.74	-5,082.7	-1,483.0	5,498.5	5,457.1	41.41	132.785	
7,000.0	6,858.0	7,331.9	6,874.0	17.9	44.6	32.32	-5,082.6	-1,483.2	5,489.9	5,449.0	40.93	134.133	
7,050.0	6,888.0	7,359.5	6,901.6	18.0	44.6	35.01	-5,082.2	-1,483.9	5,452.6	5,413.6	39.03	139.713	
7,086.6	6,908.1	7,379.2	6,921.3	18.0	44.6	37.33	-5,081.8	-1,484.5	5,424.1	5,386.3	37.78	143.559	
7,100.0	6,915.1	7,386.0	6,928.1	18.0	44.6	38.26	-5,081.7	-1,484.7	5,413.4	5,376.0	37.39	144.775	
7,150.0	6,939.2	7,409.4	6,951.5	18.0	44.7	42.14	-5,081.3	-1,485.4	5,372.7	5,336.6	36.15	148.624	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	
7,185.0	6,954.3	7,423.9	6,966.0	18.1	44.7	45.31	-5,081.0	-1,485.8	5,343.3	5,307.7	35.58	150.177		
7,200.0	6,960.3	7,429.6	6,971.7	18.1	44.7	46.79	-5,080.9	-1,486.0	5,330.6	5,295.2	35.42	150.493		
7,250.0	6,978.1	7,446.5	6,988.5	18.3	44.7	52.33	-5,080.6	-1,486.6	5,287.3	5,252.0	35.28	149.878		
7,283.4	6,988.2	7,455.9	6,997.9	18.4	44.7	56.59	-5,080.4	-1,486.9	5,257.7	5,222.2	35.50	148.108		
7,300.0	6,992.6	7,460.0	7,002.0	18.4	44.7	58.87	-5,080.3	-1,487.1	5,243.0	5,207.3	35.68	146.936		
7,350.0	7,003.7	7,470.1	7,012.1	18.7	44.7	66.43	-5,080.1	-1,487.4	5,198.0	5,161.6	36.44	142.636		
7,381.9	7,009.1	7,474.7	7,016.7	18.9	44.7	71.74	-5,080.0	-1,487.6	5,169.0	5,132.1	36.96	139.839		
7,400.0	7,011.4	7,476.7	7,018.7	19.0	44.7	74.90	-5,080.0	-1,487.7	5,152.5	5,115.3	37.22	138.445		
7,450.0	7,015.7	7,479.9	7,021.9	19.3	44.7	83.98	-5,079.9	-1,487.8	5,106.7	5,069.0	37.63	135.716		
7,480.3	7,016.6	7,480.1	7,022.2	19.6	44.7	89.59	-5,079.9	-1,487.8	5,078.8	5,041.2	37.59	135.103		
7,488.2	7,016.6	7,480.0	7,022.0	19.6	44.7	91.04	-5,079.9	-1,487.8	5,071.6	5,034.1	37.54	135.087		
7,500.0	7,016.6	7,479.7	7,021.7	19.7	44.7	91.03	-5,079.9	-1,487.8	5,060.8	5,023.1	37.66	134.384		
7,578.7	7,016.3	7,477.8	7,019.9	20.5	44.7	90.98	-5,079.9	-1,487.7	4,988.7	4,950.2	38.49	129.611		
7,600.0	7,016.2	7,477.3	7,019.4	20.7	44.7	90.96	-5,080.0	-1,487.7	4,969.2	4,930.5	38.71	128.358		
7,677.1	7,016.0	7,475.5	7,017.5	21.6	44.7	90.91	-5,080.0	-1,487.6	4,898.8	4,859.2	39.63	123.618		
7,700.0	7,015.9	7,475.0	7,017.0	21.8	44.7	90.90	-5,080.0	-1,487.6	4,878.0	4,838.1	39.90	122.257		
7,775.6	7,015.7	7,473.2	7,015.2	22.7	44.7	90.85	-5,080.0	-1,487.5	4,809.3	4,768.4	40.88	117.633		
7,800.0	7,015.6	7,472.6	7,014.7	23.0	44.7	90.83	-5,080.0	-1,487.5	4,787.1	4,745.9	41.20	116.187		
7,874.0	7,015.4	7,470.9	7,012.9	24.0	44.7	90.78	-5,080.1	-1,487.5	4,720.1	4,677.9	42.24	111.752		
7,900.0	7,015.3	7,470.3	7,012.3	24.4	44.7	90.76	-5,080.1	-1,487.4	4,696.6	4,654.0	42.60	110.247		
7,972.4	7,015.1	7,468.6	7,010.7	25.4	44.7	90.72	-5,080.1	-1,487.4	4,631.3	4,587.6	43.67	106.046		
8,000.0	7,015.0	7,468.0	7,010.0	25.8	44.7	90.70	-5,080.1	-1,487.4	4,606.5	4,562.4	44.08	104.502		
8,070.8	7,014.8	7,466.4	7,008.4	26.8	44.7	90.65	-5,080.2	-1,487.3	4,542.9	4,497.7	45.18	100.560		
8,100.0	7,014.7	7,465.7	7,007.7	27.3	44.7	90.63	-5,080.2	-1,487.3	4,516.8	4,471.2	45.63	98.995		
8,169.3	7,014.4	7,464.1	7,006.2	28.3	44.7	90.59	-5,080.2	-1,487.2	4,454.9	4,408.2	46.74	95.320		
8,200.0	7,014.4	7,463.4	7,005.5	28.8	44.7	90.57	-5,080.2	-1,487.2	4,427.5	4,380.3	47.23	93.747		
8,267.7	7,014.1	7,461.9	7,003.9	29.9	44.7	90.53	-5,080.3	-1,487.1	4,367.4	4,319.0	48.34	90.339		
8,300.0	7,014.0	7,461.1	7,003.2	30.4	44.7	90.51	-5,080.3	-1,487.1	4,338.7	4,289.8	48.88	88.770		
8,366.1	7,013.8	7,459.7	7,001.7	31.5	44.7	90.46	-5,080.3	-1,487.1	4,280.3	4,230.3	49.99	85.620		
8,400.0	7,013.7	7,458.9	7,001.0	32.0	44.7	90.44	-5,080.3	-1,487.0	4,250.4	4,199.9	50.56	84.062		
8,464.5	7,013.5	7,457.5	6,999.5	33.1	44.7	90.40	-5,080.4	-1,487.0	4,193.7	4,142.0	51.67	81.158		
8,500.0	7,013.4	7,456.7	6,998.7	33.7	44.7	90.38	-5,080.4	-1,486.9	4,162.7	4,110.4	52.28	79.617		
8,563.0	7,013.2	7,455.3	6,997.3	34.8	44.7	90.34	-5,080.4	-1,486.9	4,107.7	4,054.3	53.38	76.946		
8,600.0	7,013.1	7,454.5	6,996.5	35.4	44.7	90.32	-5,080.4	-1,486.9	4,075.4	4,021.4	54.03	75.428		
8,661.4	7,012.9	7,453.1	6,995.2	36.5	44.7	90.28	-5,080.4	-1,486.8	4,022.2	3,967.1	55.12	72.973		
8,700.0	7,012.8	7,452.3	6,994.3	37.1	44.7	90.26	-5,080.5	-1,486.8	3,988.8	3,933.0	55.80	71.481		
8,759.8	7,012.6	7,450.9	6,993.0	38.2	44.7	90.22	-5,080.5	-1,486.7	3,937.3	3,880.5	56.88	69.227		
8,800.0	7,012.4	7,450.1	6,992.1	38.9	44.7	90.19	-5,080.5	-1,486.7	3,902.9	3,845.3	57.60	67.763		
8,858.2	7,012.3	7,448.8	6,990.9	39.9	44.7	90.16	-5,080.5	-1,486.7	3,853.1	3,794.5	58.65	65.696		
8,900.0	7,012.1	7,447.9	6,990.0	40.7	44.7	90.13	-5,080.6	-1,486.6	3,817.6	3,758.2	59.41	64.263		
8,956.7	7,011.9	7,446.7	6,988.7	41.7	44.7	90.10	-5,080.6	-1,486.6	3,769.6	3,709.1	60.44	62.368		
9,000.0	7,011.8	7,445.7	6,987.8	42.4	44.7	90.07	-5,080.6	-1,486.6	3,733.0	3,671.8	61.23	60.965		
9,055.1	7,011.6	7,444.6	6,986.6	43.4	44.7	90.04	-5,080.6	-1,486.5	3,686.8	3,624.5	62.25	59.230		
9,100.0	7,011.5	7,443.6	6,985.7	44.2	44.7	90.01	-5,080.6	-1,486.5	3,649.3	3,586.2	63.07	57.859		
9,153.5	7,011.3	7,442.5	6,984.5	45.2	44.7	89.98	-5,080.7	-1,486.5	3,604.7	3,540.7	64.06	56.270		
9,200.0	7,011.2	7,441.5	6,983.5	46.1	44.7	89.95	-5,080.7	-1,486.4	3,566.3	3,501.4	64.92	54.932		
9,251.9	7,011.0	7,440.4	6,982.4	47.0	44.7	89.92	-5,080.7	-1,486.4	3,523.6	3,457.7	65.89	53.477		
9,300.0	7,010.9	7,439.3	6,981.4	47.9	44.7	89.89	-5,080.7	-1,486.3	3,484.3	3,417.5	66.78	52.172		
9,350.4	7,010.7	7,438.3	6,980.4	48.8	44.7	89.86	-5,080.7	-1,486.3	3,443.3	3,375.6	67.73	50.841		
9,400.0	7,010.5	7,437.2	6,979.3	49.7	44.7	89.83	-5,080.8	-1,486.3	3,403.2	3,334.5	68.66	49.569		
9,448.8	7,010.4	7,436.2	6,978.3	50.6	44.7	89.80	-5,080.8	-1,486.2	3,364.0	3,294.4	69.57	48.352		
9,500.0	7,010.2	7,435.2	6,977.2	51.6	44.7	89.77	-5,080.8	-1,486.2	3,323.1	3,252.6	70.53	47.113		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
9,547.2	7,010.1	7,434.2	6,976.3	52.5	44.7	89.74	-5,080.8	-1,486.2	3,285.7	3,214.3	71.43	46.002		
9,600.0	7,009.9	7,433.1	6,975.2	53.5	44.7	89.71	-5,080.8	-1,486.1	3,244.2	3,171.7	72.42	44.796		
9,645.6	7,009.8	7,432.1	6,974.2	54.3	44.7	89.69	-5,080.9	-1,486.1	3,208.5	3,135.2	73.28	43.781		
9,700.0	7,009.6	7,431.0	6,973.1	55.3	44.7	89.65	-5,080.9	-1,486.1	3,166.4	3,092.1	74.31	42.608		
9,744.1	7,009.4	7,430.1	6,972.2	56.2	44.7	89.63	-5,080.9	-1,486.0	3,132.5	3,057.4	75.15	41.683		
9,800.0	7,009.3	7,429.0	6,971.1	57.2	44.7	89.60	-5,080.9	-1,486.0	3,089.9	3,013.7	76.21	40.543		
9,842.5	7,009.1	7,428.1	6,970.2	58.0	44.7	89.57	-5,080.9	-1,486.0	3,057.8	2,980.8	77.02	39.700		
9,900.0	7,008.9	7,426.9	6,969.0	59.1	44.7	89.54	-5,081.0	-1,485.9	3,014.8	2,936.7	78.12	38.593		
9,940.9	7,008.8	7,426.1	6,968.2	59.9	44.7	89.52	-5,081.0	-1,485.9	2,984.5	2,905.6	78.90	37.827		
10,000.0	7,008.6	7,424.9	6,967.0	61.0	44.7	89.48	-5,081.0	-1,485.9	2,941.2	2,861.1	80.03	36.753		
10,039.3	7,008.5	7,424.1	6,966.2	61.7	44.7	89.46	-5,081.0	-1,485.8	2,912.6	2,831.8	80.78	36.057		
10,100.0	7,008.3	7,422.9	6,965.0	62.9	44.7	89.42	-5,081.0	-1,485.8	2,869.1	2,787.2	81.94	35.015		
10,137.8	7,008.2	7,422.2	6,964.2	63.6	44.7	89.40	-5,081.1	-1,485.8	2,842.4	2,759.7	82.66	34.385		
10,200.0	7,008.0	7,420.9	6,963.0	64.8	44.7	89.37	-5,081.1	-1,485.7	2,798.8	2,714.9	83.86	33.376		
10,236.2	7,007.9	7,420.2	6,962.3	65.5	44.7	89.35	-5,081.1	-1,485.7	2,773.8	2,689.2	84.55	32.806		
10,300.0	7,007.6	7,418.9	6,961.0	66.7	44.7	89.31	-5,081.1	-1,485.7	2,730.3	2,644.6	85.78	31.830		
10,334.6	7,007.5	7,418.3	6,960.3	67.3	44.7	89.29	-5,081.1	-1,485.7	2,707.1	2,620.6	86.44	31.316		
10,400.0	7,007.3	7,417.0	6,959.1	68.6	44.7	89.26	-5,081.2	-1,485.6	2,663.9	2,576.2	87.70	30.374		
10,433.0	7,007.2	7,416.3	6,958.4	69.2	44.7	89.24	-5,081.2	-1,485.6	2,642.4	2,554.0	88.34	29.912		
10,500.0	7,007.0	7,415.0	6,957.1	70.5	44.7	89.20	-5,081.2	-1,485.6	2,599.5	2,509.9	89.63	29.003		
10,531.5	7,006.9	7,414.4	6,956.5	71.1	44.7	89.18	-5,081.2	-1,485.5	2,579.8	2,489.5	90.24	28.589		
10,600.0	7,006.7	7,413.1	6,955.2	72.4	44.7	89.15	-5,081.2	-1,485.5	2,537.5	2,446.0	91.56	27.715		
10,629.9	7,006.6	7,412.5	6,954.6	73.0	44.7	89.13	-5,081.2	-1,485.5	2,519.4	2,427.3	92.14	27.345		
10,700.0	7,006.4	7,411.1	6,953.2	74.3	44.7	89.09	-5,081.3	-1,485.4	2,478.0	2,384.5	93.49	26.505		
10,728.3	7,006.3	7,410.6	6,952.7	74.9	44.7	89.08	-5,081.3	-1,485.4	2,461.6	2,367.6	94.04	26.176		
10,800.0	7,006.0	7,409.2	6,951.3	76.3	44.7	89.04	-5,081.3	-1,485.4	2,421.1	2,325.7	95.43	25.372		
10,826.7	7,005.9	7,408.7	6,950.8	76.8	44.7	89.02	-5,081.3	-1,485.4	2,406.4	2,310.4	95.94	25.081		
10,900.0	7,005.7	7,407.3	6,949.4	78.2	44.7	88.98	-5,081.3	-1,485.3	2,367.1	2,269.7	97.36	24.312		
10,925.2	7,005.6	7,406.8	6,948.9	78.7	44.7	88.97	-5,081.3	-1,485.3	2,354.0	2,256.1	97.85	24.057		
11,000.0	7,005.4	7,405.4	6,947.5	80.1	44.7	88.93	-5,081.4	-1,485.3	2,316.1	2,216.8	99.30	23.324		
11,023.6	7,005.3	7,405.0	6,947.1	80.6	44.7	88.92	-5,081.4	-1,485.2	2,304.6	2,204.8	99.76	23.101		
11,100.0	7,005.1	7,403.5	6,945.6	82.0	44.7	88.87	-5,081.4	-1,485.2	2,268.5	2,167.2	101.24	22.406		
11,122.0	7,005.0	7,403.1	6,945.2	82.5	44.7	88.86	-5,081.4	-1,485.2	2,258.4	2,156.7	101.67	22.213		
11,200.0	7,004.7	7,401.7	6,943.8	84.0	44.6	88.82	-5,081.4	-1,485.1	2,224.2	2,121.1	103.18	21.556		
11,220.4	7,004.7	7,401.3	6,943.4	84.4	44.6	88.81	-5,081.4	-1,485.1	2,215.6	2,112.1	103.58	21.390		
11,300.0	7,004.4	7,399.8	6,941.9	85.9	44.6	88.77	-5,081.5	-1,485.1	2,183.7	2,078.6	105.13	20.772		
11,318.9	7,004.4	7,399.4	6,941.5	86.3	44.6	88.76	-5,081.5	-1,485.1	2,176.5	2,071.0	105.50	20.631		
11,400.0	7,004.1	7,397.9	6,940.0	87.8	44.6	88.72	-5,081.5	-1,485.0	2,147.1	2,040.0	107.07	20.052		
11,417.3	7,004.0	7,397.6	6,939.7	88.2	44.6	88.71	-5,081.5	-1,485.0	2,141.1	2,033.7	107.41	19.934		
11,500.0	7,003.8	7,396.1	6,938.2	89.8	44.6	88.66	-5,081.5	-1,485.0	2,114.5	2,005.5	109.02	19.396		
11,515.7	7,003.7	7,395.8	6,937.9	90.1	44.6	88.66	-5,081.5	-1,485.0	2,109.8	2,000.5	109.33	19.298		
11,600.0	7,003.4	7,394.3	6,936.4	91.7	44.6	88.61	-5,081.6	-1,484.9	2,086.3	1,975.3	110.97	18.801		
11,614.1	7,003.4	7,394.0	6,936.1	92.0	44.6	88.60	-5,081.6	-1,484.9	2,082.7	1,971.4	111.24	18.722		
11,700.0	7,003.1	7,392.5	6,934.6	93.7	44.6	88.56	-5,081.6	-1,484.9	2,062.5	1,949.6	112.92	18.266		
11,712.6	7,003.1	7,392.2	6,934.3	93.9	44.6	88.55	-5,081.6	-1,484.9	2,059.8	1,946.7	113.16	18.203		
11,800.0	7,002.8	7,390.7	6,932.8	95.6	44.6	88.51	-5,081.6	-1,484.8	2,043.3	1,928.5	114.87	17.789		
11,811.0	7,002.7	7,390.5	6,932.6	95.8	44.6	88.50	-5,081.6	-1,484.8	2,041.5	1,926.4	115.08	17.740		
11,900.0	7,002.5	7,388.9	6,931.0	97.6	44.6	88.46	-5,081.7	-1,484.8	2,028.9	1,912.1	116.82	17.368		
11,909.4	7,002.4	7,388.7	6,930.8	97.7	44.6	88.45	-5,081.7	-1,484.7	2,027.8	1,910.8	117.00	17.332		
12,000.0	7,002.1	7,387.1	6,929.2	99.5	44.6	88.41	-5,081.7	-1,484.7	2,019.4	1,900.6	118.77	17.003		
12,007.8	7,002.1	7,386.9	6,929.0	99.7	44.6	88.40	-5,081.7	-1,484.7	2,018.8	1,899.9	118.92	16.976		
12,100.0	7,001.8	7,385.3	6,927.4	101.5	44.6	88.36	-5,081.7	-1,484.6	2,014.7	1,894.0	120.72	16.689		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,106.3	7,001.8	7,385.2	6,927.3	101.6	44.6	88.35	-5,081.7	-1,484.6	2,014.6	1,893.8	120.84	16.671	
12,143.6	7,001.7	7,384.5	6,926.6	102.3	44.6	88.34	-5,081.7	-1,484.6	2,014.3	1,892.7	121.57	16.568	CC
12,200.0	7,001.5	7,383.5	6,925.6	103.4	44.6	88.31	-5,081.8	-1,484.6	2,015.1	1,892.4	122.68	16.426	ES
12,204.7	7,001.5	7,383.5	6,925.6	103.5	44.6	88.30	-5,081.8	-1,484.6	2,015.2	1,892.4	122.77	16.415	
12,300.0	7,001.2	7,381.8	6,923.9	105.3	44.6	88.26	-5,081.8	-1,484.5	2,020.3	1,895.7	124.63	16.211	
12,303.1	7,001.1	7,381.7	6,923.8	105.4	44.6	88.26	-5,081.8	-1,484.5	2,020.6	1,895.9	124.69	16.205	
12,400.0	7,000.8	7,380.0	6,922.2	107.3	44.6	88.21	-5,081.8	-1,484.5	2,030.5	1,903.9	126.58	16.041	
12,401.5	7,000.8	7,380.0	6,922.1	107.3	44.6	88.21	-5,081.8	-1,484.5	2,030.7	1,904.1	126.61	16.039	
12,500.0	7,000.5	7,378.3	6,920.4	109.3	44.6	88.16	-5,081.9	-1,484.4	2,045.5	1,917.0	128.54	15.914	
12,598.4	7,000.2	7,376.6	6,918.7	111.2	44.6	88.11	-5,081.9	-1,484.4	2,065.0	1,934.5	130.46	15.828	
12,600.0	7,000.2	7,376.6	6,918.7	111.2	44.6	88.11	-5,081.9	-1,484.4	2,065.3	1,934.8	130.50	15.827	
12,696.8	6,999.8	7,374.9	6,917.1	113.1	44.6	88.06	-5,081.9	-1,484.4	2,088.8	1,956.5	132.39	15.778	
12,700.0	6,999.8	7,374.9	6,917.0	113.2	44.6	88.06	-5,081.9	-1,484.4	2,089.7	1,957.2	132.45	15.777	
12,795.2	6,999.5	7,373.3	6,915.4	115.0	44.6	88.01	-5,081.9	-1,484.3	2,117.0	1,982.7	134.32	15.762	SF
12,800.0	6,999.5	7,373.2	6,915.3	115.1	44.6	88.01	-5,081.9	-1,484.3	2,118.5	1,984.1	134.41	15.762	
12,893.7	6,999.2	7,371.6	6,913.7	116.9	44.6	87.97	-5,082.0	-1,484.3	2,149.4	2,013.1	136.24	15.776	
12,900.0	6,999.2	7,371.5	6,913.6	117.1	44.6	87.96	-5,082.0	-1,484.3	2,151.6	2,015.2	136.37	15.778	
12,992.1	6,998.9	7,369.9	6,912.1	118.9	44.6	87.92	-5,082.0	-1,484.2	2,185.6	2,047.5	138.17	15.818	
13,000.0	6,998.8	7,369.8	6,911.9	119.0	44.6	87.92	-5,082.0	-1,484.2	2,188.7	2,050.4	138.33	15.823	
13,090.5	6,998.6	7,358.0	6,900.1	120.8	44.6	87.58	-5,082.2	-1,483.9	2,225.7	2,085.6	140.08	15.889	
13,100.0	6,998.5	7,358.0	6,900.1	121.0	44.6	87.58	-5,082.2	-1,483.9	2,229.8	2,089.5	140.27	15.896	
13,188.9	6,998.2	7,358.0	6,900.1	122.7	44.6	87.58	-5,082.2	-1,483.9	2,269.3	2,127.3	142.01	15.980	
13,200.0	6,998.2	7,358.0	6,900.1	122.9	44.6	87.58	-5,082.2	-1,483.9	2,274.4	2,132.2	142.23	15.991	
13,287.4	6,997.9	7,358.0	6,900.1	124.6	44.6	87.58	-5,082.2	-1,483.9	2,316.3	2,172.4	143.94	16.092	
13,300.0	6,997.9	7,358.0	6,900.1	124.9	44.6	87.58	-5,082.2	-1,483.9	2,322.6	2,178.4	144.19	16.108	
13,385.8	6,997.6	7,358.0	6,900.1	126.6	44.6	87.58	-5,082.2	-1,483.9	2,366.4	2,220.6	145.87	16.222	
13,400.0	6,997.5	7,358.0	6,900.1	126.9	44.6	87.58	-5,082.2	-1,483.9	2,373.9	2,227.8	146.15	16.243	
13,484.2	6,997.3	7,358.0	6,900.1	128.5	44.6	87.58	-5,082.2	-1,483.9	2,419.5	2,271.7	147.81	16.370	
13,500.0	6,997.2	7,358.0	6,900.1	128.8	44.6	87.58	-5,082.2	-1,483.9	2,428.3	2,280.2	148.11	16.395	
13,582.6	6,996.9	7,358.0	6,900.1	130.4	44.6	87.58	-5,082.2	-1,483.9	2,475.4	2,325.7	149.74	16.532	
13,600.0	6,996.9	7,358.0	6,900.1	130.8	44.6	87.58	-5,082.2	-1,483.9	2,485.5	2,335.4	150.08	16.562	
13,681.1	6,996.6	7,358.0	6,900.1	132.4	44.6	87.58	-5,082.2	-1,483.9	2,533.9	2,382.2	151.67	16.706	
13,700.0	6,996.5	7,358.0	6,900.1	132.7	44.6	87.58	-5,082.2	-1,483.9	2,545.4	2,393.3	152.04	16.741	
13,779.5	6,996.3	7,358.0	6,900.1	134.3	44.6	87.58	-5,082.2	-1,483.9	2,594.7	2,441.1	153.60	16.893	
13,800.0	6,996.2	7,358.0	6,900.1	134.7	44.6	87.58	-5,082.2	-1,483.9	2,607.7	2,453.7	154.00	16.933	
13,877.9	6,995.9	7,354.9	6,897.1	136.2	44.6	87.49	-5,082.2	-1,483.8	2,657.9	2,502.4	155.53	17.089	
13,900.0	6,995.9	7,354.5	6,896.6	136.7	44.6	87.48	-5,082.3	-1,483.8	2,672.3	2,516.4	155.96	17.134	
13,976.3	6,995.6	7,353.0	6,895.2	138.2	44.6	87.44	-5,082.3	-1,483.8	2,723.1	2,565.7	157.46	17.294	
14,000.0	6,995.5	7,352.6	6,894.7	138.6	44.6	87.43	-5,082.3	-1,483.7	2,739.1	2,581.2	157.92	17.344	
14,074.8	6,995.3	7,351.1	6,893.3	140.1	44.6	87.38	-5,082.3	-1,483.7	2,790.3	2,630.9	159.39	17.506	
14,100.0	6,995.2	7,350.7	6,892.8	140.6	44.6	87.37	-5,082.3	-1,483.7	2,807.8	2,647.9	159.88	17.562	
14,162.0	6,995.0	7,349.5	6,891.6	141.8	44.6	87.34	-5,082.3	-1,483.7	2,851.3	2,690.3	161.06	17.704	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
0.0	0.0	0.0	0.0	0.0	0.0	172.52	-5,118.5	672.1	5,162.5				
98.4	98.4	83.1	83.1	0.1	0.1	172.52	-5,118.5	672.0	5,162.4	5,162.2	0.18	N/A	
100.0	100.0	84.8	84.8	0.1	0.1	172.52	-5,118.5	672.0	5,162.4	5,162.2	0.18	N/A	
196.8	196.8	184.3	184.3	0.3	0.2	172.52	-5,118.5	671.7	5,162.3	5,161.9	0.49	N/A	
200.0	200.0	187.5	187.5	0.3	0.2	172.52	-5,118.5	671.7	5,162.3	5,161.8	0.50	N/A	
295.3	295.3	285.4	285.4	0.5	0.3	172.53	-5,118.4	671.1	5,162.2	5,161.4	0.81	6,336.575	
300.0	300.0	290.2	290.2	0.5	0.3	172.53	-5,118.4	671.1	5,162.2	5,161.4	0.83	6,219.320	
368.6	368.6	351.0	351.0	0.7	0.3	172.54	-5,118.4	670.6	5,162.1	5,161.1	1.04	4,946.777	
393.7	393.7	351.0	351.0	0.8	0.3	172.54	-5,118.4	670.6	5,162.2	5,161.1	1.10	4,693.076	
400.0	400.0	351.0	351.0	0.8	0.3	172.54	-5,118.4	670.6	5,162.2	5,161.1	1.11	4,633.459	
492.1	492.1	428.1	428.1	1.0	0.5	172.55	-5,118.8	669.5	5,162.6	5,161.1	1.49	3,457.361	
500.0	500.0	432.7	432.7	1.0	0.5	172.55	-5,118.9	669.4	5,162.7	5,161.2	1.52	3,394.025	
590.5	590.5	479.0	479.0	1.2	0.6	172.56	-5,119.6	668.2	5,163.9	5,162.1	1.83	2,824.963	
600.0	600.0	479.0	479.0	1.2	0.6	172.56	-5,119.6	668.2	5,164.1	5,162.2	1.85	2,792.613	
689.0	689.0	534.3	534.2	1.4	0.8	172.59	-5,121.1	666.2	5,166.0	5,163.9	2.18	2,369.439	
700.0	700.0	539.9	539.8	1.4	0.8	172.59	-5,121.3	665.9	5,166.3	5,164.1	2.22	2,328.949	
787.4	787.4	607.0	606.7	1.6	0.9	172.64	-5,124.0	662.0	5,169.2	5,166.6	2.57	2,008.003	
800.0	800.0	607.0	606.7	1.7	0.9	172.64	-5,124.0	662.0	5,169.6	5,167.0	2.60	1,986.311	
885.8	885.8	625.9	625.6	1.9	1.0	172.65	-5,125.0	660.7	5,173.2	5,170.3	2.84	1,819.454	
900.0	900.0	631.0	630.6	1.9	1.0	172.66	-5,125.3	660.4	5,173.8	5,171.0	2.89	1,791.579	
984.2	984.2	649.0	648.6	2.1	1.0	172.67	-5,126.4	659.1	5,178.4	5,175.3	3.12	1,658.282	
1,000.0	1,000.0	649.0	648.6	2.1	1.0	172.67	-5,126.4	659.1	5,179.4	5,176.3	3.16	1,640.008	
1,082.7	1,082.7	704.4	703.6	2.3	1.2	172.72	-5,130.4	655.0	5,184.7	5,181.2	3.49	1,486.408	
1,100.0	1,100.0	731.0	730.1	2.3	1.3	172.75	-5,132.7	652.8	5,186.0	5,182.4	3.60	1,441.705	
1,181.1	1,181.1	731.0	730.1	2.5	1.3	110.06	-5,132.7	652.8	5,192.5	5,188.8	3.78	1,372.893	
1,200.0	1,200.0	731.0	730.1	2.6	1.3	110.03	-5,132.7	652.8	5,194.4	5,190.5	3.82	1,358.361	
1,279.5	1,279.4	793.5	792.0	2.7	1.5	109.97	-5,138.6	647.3	5,202.4	5,198.2	4.18	1,245.198	
1,300.0	1,299.8	803.0	801.5	2.8	1.5	109.94	-5,139.6	646.4	5,204.8	5,200.5	4.25	1,224.574	
1,377.9	1,377.5	859.0	856.8	3.0	1.7	109.88	-5,145.8	640.8	5,214.6	5,210.0	4.59	1,135.886	
1,400.0	1,399.5	859.0	856.8	3.0	1.7	109.82	-5,145.8	640.8	5,217.5	5,212.9	4.64	1,124.160	
1,476.4	1,475.3	859.0	856.8	3.2	1.7	109.61	-5,145.8	640.8	5,228.8	5,224.0	4.83	1,082.810	
1,500.0	1,498.7	859.0	856.8	3.2	1.7	109.53	-5,145.8	640.8	5,232.7	5,227.8	4.89	1,070.690	
1,574.8	1,572.6	920.5	917.5	3.5	1.9	109.47	-5,153.6	633.8	5,245.1	5,239.8	5.29	991.008	
1,600.0	1,597.5	930.5	927.2	3.5	1.9	109.42	-5,154.9	632.6	5,249.7	5,244.3	5.39	973.243	
1,673.2	1,669.4	987.0	982.6	3.7	2.2	109.35	-5,163.2	625.1	5,264.0	5,258.1	5.80	906.901	
1,700.0	1,695.7	987.0	982.6	3.8	2.2	109.25	-5,163.2	625.1	5,269.3	5,263.4	5.89	895.160	
1,771.6	1,765.7	987.0	982.6	4.1	2.2	109.25	-5,163.2	625.1	5,284.3	5,278.2	6.12	862.831	
1,800.0	1,793.4	987.0	982.6	4.2	2.2	109.25	-5,163.2	625.1	5,290.6	5,284.3	6.22	850.717	
1,870.1	1,862.0	1,044.8	1,039.0	4.4	2.4	109.47	-5,172.5	616.7	5,305.9	5,299.2	6.68	794.056	
1,900.0	1,891.3	1,058.6	1,052.5	4.5	2.5	109.53	-5,174.8	614.6	5,312.7	5,305.8	6.84	776.827	
1,968.5	1,958.3	1,116.0	1,108.3	4.8	2.7	109.76	-5,184.8	605.4	5,328.6	5,321.3	7.30	729.527	
2,000.0	1,989.1	1,116.0	1,108.3	4.9	2.7	109.76	-5,184.8	605.4	5,335.9	5,328.5	7.42	719.163	
2,066.9	2,054.5	1,116.0	1,108.3	5.2	2.7	109.76	-5,184.8	605.4	5,352.1	5,344.4	7.67	697.637	
2,100.0	2,086.9	1,116.0	1,108.3	5.3	2.7	109.76	-5,184.8	605.4	5,360.3	5,352.5	7.80	687.533	
2,165.3	2,150.8	1,173.7	1,164.1	5.6	3.0	110.00	-5,195.5	595.5	5,376.5	5,368.2	8.29	648.654	
2,200.0	2,184.7	1,187.8	1,177.7	5.7	3.1	110.06	-5,198.3	593.0	5,385.4	5,376.9	8.48	634.985	
2,263.8	2,247.1	1,244.0	1,231.8	5.9	3.4	110.30	-5,209.6	582.7	5,402.3	5,393.3	8.96	602.617	
2,300.0	2,282.5	1,244.0	1,231.8	6.1	3.4	110.30	-5,209.6	582.7	5,411.8	5,402.7	9.11	594.246	
2,362.2	2,343.4	1,259.8	1,247.0	6.4	3.5	110.37	-5,212.9	579.7	5,428.7	5,419.3	9.43	575.963	
2,400.0	2,380.3	1,285.9	1,271.9	6.5	3.6	110.49	-5,218.4	574.7	5,439.1	5,429.4	9.69	561.209	
2,460.6	2,439.6	1,327.5	1,311.8	6.8	3.9	110.67	-5,227.2	566.6	5,456.0	5,445.9	10.12	539.102	
2,500.0	2,478.1	1,354.3	1,337.5	6.9	4.0	110.79	-5,233.0	561.3	5,467.1	5,456.7	10.40	525.776	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
2,559.0	2,535.9	1,373.0	1,355.3	7.2	4.1	110.87	-5,237.0	557.5	5,483.9	5,473.2	10.72	511.523	
2,600.0	2,576.0	1,373.0	1,355.3	7.4	4.1	110.87	-5,237.0	557.5	5,495.9	5,485.0	10.89	504.792	
2,657.5	2,632.2	1,422.4	1,402.3	7.6	4.5	111.09	-5,247.9	547.1	5,512.7	5,501.3	11.36	485.084	
2,700.0	2,673.8	1,438.3	1,417.4	7.8	4.6	111.17	-5,251.6	543.6	5,525.4	5,513.8	11.62	475.650	
2,755.9	2,728.4	1,459.0	1,437.0	8.0	4.7	111.26	-5,256.4	538.9	5,542.5	5,530.5	11.95	463.852	
2,800.0	2,771.6	1,501.0	1,476.5	8.2	5.0	111.46	-5,266.5	528.8	5,556.3	5,544.0	12.34	450.411	
2,854.3	2,824.7	1,501.0	1,476.5	8.4	5.0	111.46	-5,266.5	528.8	5,573.4	5,560.8	12.56	443.685	
2,900.0	2,869.4	1,501.0	1,476.5	8.6	5.0	111.46	-5,266.5	528.8	5,588.0	5,575.3	12.75	438.241	
2,952.7	2,921.0	1,501.0	1,476.5	8.9	5.0	111.46	-5,266.5	528.8	5,605.4	5,592.4	12.97	432.148	
3,000.0	2,967.2	1,501.0	1,476.5	9.1	5.0	111.46	-5,266.5	528.8	5,621.4	5,608.2	13.17	426.890	
3,051.2	3,017.3	1,554.3	1,526.4	9.3	5.3	111.72	-5,280.0	515.7	5,638.3	5,624.6	13.66	412.641	
3,100.0	3,065.0	1,568.6	1,539.7	9.5	5.4	111.79	-5,283.8	512.2	5,655.1	5,641.1	13.94	405.577	
3,149.6	3,113.5	1,583.1	1,553.2	9.7	5.5	111.86	-5,287.7	508.6	5,672.4	5,658.2	14.23	398.699	
3,200.0	3,162.8	1,629.0	1,595.7	9.9	5.8	112.08	-5,300.5	497.2	5,690.5	5,675.9	14.68	387.705	
3,248.0	3,209.8	1,629.0	1,595.7	10.2	5.8	112.08	-5,300.5	497.2	5,707.7	5,692.8	14.88	383.589	
3,300.0	3,260.7	1,629.0	1,595.7	10.4	5.8	112.08	-5,300.5	497.2	5,726.6	5,711.5	15.10	379.285	
3,346.4	3,306.1	1,661.8	1,626.1	10.6	6.1	112.23	-5,309.9	489.0	5,743.8	5,728.4	15.46	371.623	
3,400.0	3,358.5	1,708.1	1,668.9	10.8	6.4	112.46	-5,323.1	477.4	5,763.7	5,747.8	15.91	362.311	
3,444.9	3,402.4	1,746.9	1,704.8	11.0	6.6	112.64	-5,334.2	467.7	5,780.4	5,764.1	16.29	354.931	
3,500.0	3,456.3	1,758.0	1,715.1	11.3	6.7	112.69	-5,337.3	464.9	5,801.1	5,784.5	16.57	350.049	
3,543.3	3,498.6	1,758.0	1,715.1	11.5	6.7	112.69	-5,337.3	464.9	5,817.7	5,800.9	16.76	347.210	
3,600.0	3,554.1	1,804.7	1,758.1	11.7	7.1	112.92	-5,350.9	452.9	5,839.3	5,822.1	17.25	338.598	
3,641.7	3,594.9	1,818.2	1,770.5	11.9	7.2	112.98	-5,354.9	449.3	5,855.6	5,838.1	17.49	334.721	
3,700.0	3,651.9	1,836.8	1,787.5	12.2	7.3	113.07	-5,360.5	444.2	5,878.6	5,860.8	17.84	329.530	
3,740.1	3,691.2	1,886.0	1,832.1	12.3	7.7	113.32	-5,375.7	430.2	5,894.9	5,876.7	18.27	322.683	
3,800.0	3,749.7	1,886.0	1,832.1	12.6	7.7	113.32	-5,375.7	430.2	5,918.9	5,900.4	18.52	319.561	
3,838.6	3,787.5	1,886.0	1,832.1	12.8	7.7	113.32	-5,375.7	430.2	5,934.7	5,916.0	18.69	317.604	
3,900.0	3,847.5	1,886.0	1,832.1	13.0	7.7	113.32	-5,375.7	430.2	5,960.2	5,941.2	18.95	314.579	
3,937.0	3,883.7	1,886.0	1,832.1	13.2	7.7	113.32	-5,375.7	430.2	5,975.8	5,956.6	19.10	312.806	
4,000.0	3,945.4	1,940.5	1,881.3	13.5	8.2	113.60	-5,393.0	414.1	6,002.2	5,982.5	19.70	304.708	
4,035.4	3,980.0	1,953.9	1,893.3	13.7	8.3	113.66	-5,397.3	410.2	6,017.4	5,997.4	19.93	301.941	
4,068.9	4,012.7	1,966.6	1,904.7	13.8	8.4	113.73	-5,401.5	406.4	6,031.8	6,011.6	20.15	299.398	
4,100.0	4,043.2	1,978.3	1,915.2	13.9	8.5	114.06	-5,405.3	402.9	6,045.2	6,024.9	20.30	297.760	
4,133.8	4,076.4	2,015.0	1,948.0	14.0	8.8	114.53	-5,417.5	392.0	6,059.8	6,039.2	20.59	294.354	
4,200.0	4,141.6	2,015.0	1,948.0	14.2	8.8	115.09	-5,417.5	392.0	6,087.9	6,067.2	20.72	293.829	
4,232.3	4,173.4	2,015.0	1,948.0	14.3	8.8	115.37	-5,417.5	392.0	6,101.7	6,080.9	20.77	293.729	
4,300.0	4,240.5	2,065.3	1,992.8	14.5	9.3	116.16	-5,434.4	376.6	6,130.2	6,109.0	21.19	289.249	
4,330.7	4,271.0	2,080.2	2,006.0	14.6	9.4	116.47	-5,439.5	371.9	6,143.0	6,121.7	21.32	288.085	
4,400.0	4,339.9	2,113.9	2,035.8	14.8	9.7	117.18	-5,451.0	361.1	6,171.7	6,150.0	21.61	285.530	
4,429.1	4,368.9	2,143.0	2,061.4	14.8	10.0	117.53	-5,460.9	351.5	6,183.6	6,161.8	21.82	283.450	
4,500.0	4,439.6	2,173.2	2,087.9	15.0	10.3	118.20	-5,471.3	341.4	6,212.4	6,190.3	22.07	281.472	
4,527.5	4,467.1	2,193.9	2,106.1	15.0	10.5	118.49	-5,478.5	334.5	6,223.4	6,201.2	22.22	280.114	
4,600.0	4,539.5	2,248.8	2,154.2	15.1	11.0	119.22	-5,497.4	316.2	6,252.0	6,229.4	22.60	276.610	
4,626.0	4,565.4	2,271.0	2,173.7	15.2	11.2	119.49	-5,505.1	308.7	6,262.0	6,239.3	22.75	275.285	
4,668.9	4,608.4	2,312.4	2,209.9	15.2	11.6	-177.50	-5,519.3	294.7	6,278.5	6,255.4	23.06	272.319	
4,700.0	4,639.5	3,064.0	2,861.0	15.3	18.7	-174.64	-5,725.9	-15.2	6,288.4	6,260.1	28.30	222.175	
4,724.4	4,663.9	3,941.0	3,624.2	15.3	26.6	-170.97	-5,848.5	-426.4	6,293.6	6,258.6	35.07	179.446	
4,800.0	4,739.5	4,002.5	3,680.0	15.4	27.1	-170.75	-5,853.5	-451.7	6,305.7	6,270.1	35.62	177.035	
4,822.8	4,762.3	4,011.4	3,688.0	15.4	27.2	-170.71	-5,854.2	-455.4	6,309.5	6,273.8	35.72	176.655	
4,900.0	4,839.5	4,069.0	3,739.9	15.6	27.7	-170.50	-5,859.5	-480.0	6,322.8	6,286.6	36.24	174.493	
4,921.2	4,860.7	4,069.0	3,739.9	15.6	27.7	-170.50	-5,859.5	-480.0	6,326.5	6,290.2	36.27	174.428	
5,000.0	4,939.5	4,069.0	3,739.9	15.7	27.7	-170.50	-5,859.5	-480.0	6,340.7	6,304.3	36.40	174.206	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,019.7	4,959.1	4,069.0	3,739.9	15.7	27.7	-170.50	-5,859.5	-480.0	6,344.4	6,308.0	36.43	174.154	
5,100.0	5,039.5	4,127.1	3,791.7	15.9	28.2	-170.28	-5,865.2	-505.6	6,359.6	6,322.6	37.01	171.823	
5,118.1	5,057.6	4,135.2	3,798.9	15.9	28.3	-170.24	-5,866.0	-509.3	6,363.1	6,326.0	37.10	171.490	
5,200.0	5,139.5	4,197.0	3,853.4	16.0	28.8	-170.00	-5,872.4	-537.7	6,379.5	6,341.8	37.71	169.155	
5,216.5	5,156.0	4,197.0	3,853.4	16.0	28.8	-170.00	-5,872.4	-537.7	6,382.8	6,345.0	37.74	169.119	
5,300.0	5,239.5	4,240.8	3,891.7	16.2	29.3	-169.82	-5,877.0	-558.4	6,400.0	6,361.7	38.24	167.356	
5,314.9	5,254.4	4,256.4	3,905.3	16.2	29.4	-169.75	-5,878.6	-565.8	6,403.1	6,364.7	38.39	166.770	
5,400.0	5,339.5	4,326.0	3,966.0	16.3	30.1	-169.47	-5,885.6	-599.2	6,420.8	6,381.7	39.11	164.188	
5,413.4	5,352.8	4,326.0	3,966.0	16.3	30.1	-169.47	-5,885.6	-599.2	6,423.7	6,384.5	39.13	164.164	
5,500.0	5,439.5	4,395.2	4,026.4	16.5	30.8	-169.18	-5,892.8	-632.2	6,442.1	6,402.3	39.81	161.818	
5,511.8	5,451.3	4,402.1	4,032.5	16.5	30.8	-169.15	-5,893.5	-635.5	6,444.7	6,404.8	39.89	161.582	
5,600.0	5,539.5	4,454.0	4,078.0	16.6	31.3	-168.95	-5,899.3	-659.7	6,464.1	6,423.7	40.44	159.856	
5,610.2	5,549.7	4,454.0	4,078.0	16.6	31.3	-168.95	-5,899.3	-659.7	6,466.4	6,426.0	40.45	159.843	
5,700.0	5,639.5	4,506.3	4,124.0	16.8	31.8	-168.74	-5,905.5	-683.8	6,486.9	6,445.9	40.98	158.292	
5,708.6	5,648.1	4,510.9	4,128.0	16.8	31.8	-168.73	-5,906.1	-685.9	6,488.9	6,447.8	41.03	158.160	
5,800.0	5,739.5	4,583.0	4,191.6	17.0	32.5	-168.45	-5,915.3	-718.6	6,510.4	6,468.7	41.70	156.140	
5,807.1	5,746.5	4,583.0	4,191.6	17.0	32.5	-168.45	-5,915.3	-718.6	6,512.1	6,470.4	41.71	156.133	
5,900.0	5,839.5	4,630.8	4,233.7	17.1	32.9	-168.27	-5,921.5	-740.3	6,534.5	6,492.2	42.23	154.743	
5,905.5	5,845.0	4,635.7	4,238.0	17.1	33.0	-168.25	-5,922.2	-742.6	6,535.8	6,493.5	42.27	154.606	
6,000.0	5,939.5	4,711.0	4,304.0	17.3	33.7	-167.96	-5,931.8	-777.5	6,558.9	6,515.9	43.00	152.543	
6,003.9	5,943.4	4,711.0	4,304.0	17.3	33.7	-167.96	-5,931.8	-777.5	6,559.9	6,516.9	43.00	152.541	
6,100.0	6,039.5	4,767.4	4,353.2	17.4	34.3	-167.74	-5,939.0	-804.2	6,583.9	6,540.2	43.62	150.921	
6,102.3	6,041.8	4,768.6	4,354.2	17.4	34.3	-167.73	-5,939.2	-804.7	6,584.5	6,540.8	43.64	150.887	
6,200.0	6,139.5	4,839.0	4,415.3	17.6	35.0	-167.46	-5,948.5	-838.6	6,609.6	6,565.3	44.37	148.964	
6,200.8	6,140.2	4,839.0	4,415.3	17.6	35.0	-167.46	-5,948.5	-838.6	6,609.8	6,565.5	44.37	148.964	
6,299.2	6,238.7	4,883.5	4,453.7	17.8	35.5	-167.28	-5,954.4	-860.3	6,635.8	6,590.9	44.91	147.741	
6,300.0	6,239.5	4,884.1	4,454.2	17.8	35.5	-167.28	-5,954.5	-860.6	6,636.0	6,591.1	44.92	147.725	
6,360.9	6,300.4	4,930.3	4,494.0	17.9	36.0	-167.09	-5,960.7	-883.2	6,652.3	6,606.9	45.41	146.502	
6,397.6	6,337.1	4,958.0	4,517.8	17.9	36.3	12.65	-5,964.4	-896.9	6,661.3	6,615.6	45.68	145.817	
6,400.0	6,339.5	4,959.8	4,519.4	17.9	36.3	12.65	-5,964.6	-897.8	6,661.8	6,616.1	45.70	145.769	
6,450.0	6,389.2	5,072.6	4,616.5	18.0	37.5	12.94	-5,979.3	-953.2	6,671.0	6,624.4	46.53	143.358	
6,496.0	6,434.7	5,139.4	4,674.5	18.0	38.1	13.12	-5,987.7	-985.2	6,676.1	6,629.4	46.76	142.776	
6,500.0	6,438.6	5,144.0	4,678.6	18.0	38.2	13.13	-5,988.3	-987.4	6,676.4	6,629.7	46.76	142.782	
6,550.0	6,487.3	5,202.8	4,730.1	18.0	38.7	13.33	-5,995.8	-1,014.7	6,678.5	6,631.8	46.63	143.210	
6,594.5	6,529.8	5,254.5	4,775.6	18.0	39.2	13.56	-6,002.6	-1,038.1	6,677.4	6,631.1	46.30	144.225	
6,600.0	6,535.1	5,260.8	4,781.2	18.1	39.3	13.59	-6,003.4	-1,040.9	6,677.1	6,630.9	46.24	144.397	
6,650.0	6,581.7	5,317.7	4,831.6	18.0	39.8	13.92	-6,010.9	-1,066.3	6,672.4	6,626.8	45.59	146.361	
6,692.9	6,620.6	7,248.7	6,686.4	18.0	48.4	19.53	-6,138.6	-1,478.9	6,663.9	6,614.3	49.56	134.459	
6,700.0	6,626.9	7,257.5	6,695.2	18.0	48.4	19.64	-6,138.5	-1,478.9	6,660.8	6,611.4	49.33	135.015	
6,750.0	6,670.6	7,279.0	6,716.7	18.0	48.4	20.41	-6,138.2	-1,478.9	6,637.0	6,589.4	47.61	139.405	
6,791.3	6,705.4	7,316.4	6,754.1	18.0	48.5	21.21	-6,137.7	-1,478.7	6,615.3	6,569.2	46.04	143.691	
6,800.0	6,712.5	7,320.7	6,758.4	18.0	48.5	21.39	-6,137.7	-1,478.7	6,610.5	6,564.8	45.69	144.673	
6,850.0	6,752.3	7,344.5	6,782.2	18.0	48.5	22.51	-6,137.5	-1,478.6	6,581.4	6,537.8	43.63	150.862	
6,889.7	6,782.5	7,369.3	6,807.0	18.0	48.5	23.58	-6,137.4	-1,478.4	6,556.5	6,514.6	41.91	156.440	
6,900.0	6,790.0	7,369.3	6,807.0	18.0	48.5	23.87	-6,137.4	-1,478.4	6,549.9	6,508.4	41.46	157.976	
6,950.0	6,825.3	7,388.4	6,826.1	18.0	48.5	25.47	-6,137.4	-1,478.3	6,516.0	6,476.7	39.28	165.905	
6,988.2	6,850.5	7,407.0	6,844.7	17.9	48.5	26.93	-6,137.4	-1,478.1	6,488.7	6,451.1	37.66	172.294	
7,000.0	6,858.0	7,407.0	6,844.7	17.9	48.5	27.40	-6,137.4	-1,478.1	6,480.0	6,442.8	37.17	174.316	
7,050.0	6,888.0	7,407.0	6,844.7	18.0	48.5	29.63	-6,137.4	-1,478.1	6,442.0	6,406.7	35.30	182.517	
7,086.6	6,908.1	7,441.4	6,879.1	18.0	48.5	31.77	-6,137.6	-1,477.7	6,413.0	6,378.8	34.18	187.601	
7,100.0	6,915.1	7,446.1	6,883.8	18.0	48.5	32.59	-6,137.6	-1,477.7	6,402.1	6,368.3	33.87	189.027	
7,150.0	6,939.2	7,462.2	6,899.9	18.0	48.5	36.07	-6,137.7	-1,477.5	6,360.6	6,327.5	33.12	192.077	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
7,185.0	6,954.3	7,472.3	6,910.0	18.1	48.5	38.98	-6,137.8	-1,477.4	6,330.7	6,297.6	33.13	191.065	
7,200.0	6,960.3	7,476.3	6,914.0	18.1	48.5	40.36	-6,137.8	-1,477.4	6,317.7	6,284.4	33.30	189.715	
7,250.0	6,978.1	7,488.4	6,926.1	18.3	48.5	45.67	-6,137.9	-1,477.2	6,273.5	6,238.9	34.60	181.317	
7,283.4	6,988.2	7,495.3	6,933.0	18.4	48.6	49.90	-6,138.0	-1,477.2	6,243.3	6,207.2	36.09	173.007	
7,300.0	6,992.6	7,498.4	6,936.1	18.4	48.6	52.22	-6,138.0	-1,477.1	6,228.3	6,191.3	36.98	168.444	
7,350.0	7,003.7	7,506.2	6,943.9	18.7	48.6	60.23	-6,138.1	-1,477.0	6,182.2	6,142.1	40.08	154.245	
7,381.9	7,009.1	7,510.0	6,947.7	18.9	48.6	66.13	-6,138.1	-1,477.0	6,152.5	6,110.4	42.14	146.013	
7,400.0	7,011.4	7,511.7	6,949.4	19.0	48.6	69.75	-6,138.2	-1,477.0	6,135.6	6,092.3	43.21	141.982	
7,450.0	7,015.7	7,536.0	6,973.7	19.3	48.6	81.12	-6,138.5	-1,476.7	6,088.6	6,043.1	45.48	133.880	
7,480.3	7,016.6	7,536.0	6,973.7	19.6	48.6	87.99	-6,138.5	-1,476.7	6,060.0	6,014.1	45.93	131.925	
7,488.2	7,016.6	7,536.0	6,973.7	19.6	48.6	89.79	-6,138.5	-1,476.7	6,052.6	6,006.6	45.93	131.779	
7,500.0	7,016.6	7,536.0	6,973.7	19.7	48.6	89.79	-6,138.5	-1,476.7	6,041.4	5,995.4	46.05	131.206	
7,578.7	7,016.3	7,536.0	6,973.7	20.5	48.6	89.79	-6,138.5	-1,476.7	5,967.2	5,920.3	46.87	127.306	
7,600.0	7,016.2	7,536.0	6,973.7	20.7	48.6	89.79	-6,138.5	-1,476.7	5,947.1	5,900.0	47.10	126.276	
7,677.1	7,016.0	7,536.0	6,973.7	21.6	48.6	89.79	-6,138.5	-1,476.7	5,874.5	5,826.5	48.01	122.363	
7,700.0	7,015.9	7,536.0	6,973.7	21.8	48.6	89.79	-6,138.5	-1,476.7	5,853.1	5,804.8	48.28	121.234	
7,775.6	7,015.7	7,536.0	6,973.7	22.7	48.6	89.79	-6,138.5	-1,476.7	5,782.1	5,732.8	49.26	117.375	
7,800.0	7,015.6	7,536.0	6,973.7	23.0	48.6	89.79	-6,138.5	-1,476.7	5,759.2	5,709.6	49.58	116.162	
7,874.0	7,015.4	7,536.0	6,973.7	24.0	48.6	89.79	-6,138.5	-1,476.7	5,689.9	5,639.3	50.61	112.419	
7,900.0	7,015.3	7,536.0	6,973.7	24.4	48.6	89.79	-6,138.5	-1,476.7	5,665.5	5,614.6	50.98	111.141	
7,972.4	7,015.1	7,536.0	6,973.7	25.4	48.6	89.79	-6,138.5	-1,476.7	5,597.8	5,545.8	52.05	107.555	
8,000.0	7,015.0	7,536.0	6,973.7	25.8	48.6	89.79	-6,138.5	-1,476.7	5,572.1	5,519.6	52.45	106.229	
8,070.8	7,014.8	7,536.0	6,973.7	26.8	48.6	89.79	-6,138.5	-1,476.7	5,506.0	5,452.5	53.55	102.824	
8,100.0	7,014.7	7,536.0	6,973.7	27.3	48.6	89.79	-6,138.5	-1,476.7	5,478.9	5,424.9	54.00	101.464	
8,169.3	7,014.4	7,536.0	6,973.7	28.3	48.6	89.79	-6,138.5	-1,476.7	5,414.5	5,359.4	55.11	98.255	
8,200.0	7,014.4	7,536.0	6,973.7	28.8	48.6	89.79	-6,138.5	-1,476.7	5,385.9	5,330.3	55.60	96.873	
8,267.7	7,014.1	7,536.0	6,973.7	29.9	48.6	89.79	-6,138.5	-1,476.7	5,323.1	5,266.4	56.71	93.862	
8,300.0	7,014.0	7,536.0	6,973.7	30.4	48.6	89.79	-6,138.5	-1,476.7	5,293.2	5,236.0	57.24	92.467	
8,366.1	7,013.8	7,536.0	6,973.7	31.5	48.6	89.79	-6,138.5	-1,476.7	5,232.1	5,173.7	58.36	89.653	
8,400.0	7,013.7	7,536.0	6,973.7	32.0	48.6	89.79	-6,138.5	-1,476.7	5,200.8	5,141.9	58.93	88.254	
8,464.5	7,013.5	7,536.0	6,973.7	33.1	48.6	89.79	-6,138.5	-1,476.7	5,141.3	5,081.2	60.04	85.632	
8,500.0	7,013.4	7,536.0	6,973.7	33.7	48.6	89.79	-6,138.5	-1,476.7	5,108.6	5,048.0	60.65	84.234	
8,563.0	7,013.2	7,536.0	6,973.7	34.8	48.6	89.79	-6,138.5	-1,476.7	5,050.7	4,989.0	61.75	81.796	
8,600.0	7,013.1	7,536.0	6,973.7	35.4	48.6	89.79	-6,138.5	-1,476.7	5,016.8	4,954.4	62.39	80.404	
8,661.4	7,012.9	7,536.0	6,973.7	36.5	48.6	89.79	-6,138.5	-1,476.7	4,960.5	4,897.1	63.48	78.142	
8,700.0	7,012.8	7,536.0	6,973.7	37.1	48.6	89.79	-6,138.5	-1,476.7	4,925.2	4,861.1	64.16	76.759	
8,759.8	7,012.6	7,536.0	6,973.7	38.2	48.6	89.79	-6,138.5	-1,476.7	4,870.6	4,805.4	65.24	74.662	
8,800.0	7,012.4	7,536.0	6,973.7	38.9	48.6	89.79	-6,138.5	-1,476.7	4,834.0	4,768.1	65.96	73.292	
8,858.2	7,012.3	7,536.0	6,973.7	39.9	48.6	89.79	-6,138.5	-1,476.7	4,781.1	4,714.1	67.01	71.349	
8,900.0	7,012.1	7,536.0	6,973.7	40.7	48.6	89.79	-6,138.5	-1,476.7	4,743.2	4,675.4	67.76	69.995	
8,956.7	7,011.9	7,536.0	6,973.7	41.7	48.6	89.79	-6,138.5	-1,476.7	4,691.9	4,623.1	68.80	68.197	
9,000.0	7,011.8	7,536.0	6,973.7	42.4	48.6	89.79	-6,138.5	-1,476.7	4,652.7	4,583.1	69.59	66.860	
9,055.1	7,011.6	7,536.0	6,973.7	43.4	48.6	89.79	-6,138.5	-1,476.7	4,603.0	4,532.4	70.60	65.198	
9,100.0	7,011.5	7,536.0	6,973.7	44.2	48.6	89.79	-6,138.5	-1,476.7	4,562.7	4,491.2	71.43	63.879	
9,153.5	7,011.3	7,536.0	6,973.7	45.2	48.6	89.79	-6,138.5	-1,476.7	4,514.6	4,442.2	72.42	62.342	
9,200.0	7,011.2	7,536.0	6,973.7	46.1	48.6	89.79	-6,138.5	-1,476.7	4,473.0	4,399.7	73.28	61.043	
9,251.9	7,011.0	7,536.0	6,973.7	47.0	48.6	89.79	-6,138.5	-1,476.7	4,426.6	4,352.4	74.24	59.623	
9,300.0	7,010.9	7,536.0	6,973.7	47.9	48.6	89.79	-6,138.5	-1,476.7	4,383.8	4,308.7	75.14	58.344	
9,350.4	7,010.7	7,536.0	6,973.7	48.8	48.6	89.79	-6,138.5	-1,476.7	4,339.1	4,263.0	76.08	57.034	
9,400.0	7,010.5	7,536.0	6,973.7	49.7	48.6	89.79	-6,138.5	-1,476.7	4,295.1	4,218.1	77.01	55.776	
9,448.8	7,010.4	7,536.0	6,973.7	50.6	48.6	89.79	-6,138.5	-1,476.7	4,252.0	4,174.0	77.92	54.566	
9,500.0	7,010.2	7,536.0	6,973.7	51.6	48.6	89.79	-6,138.5	-1,476.7	4,206.9	4,128.0	78.88	53.330	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
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
9,547.2	7,010.1	7,536.0	6,973.7	52.5	48.6	89.79	-6,138.5	-1,476.7	4,165.4	4,085.6	79.77	52.215	
9,600.0	7,009.9	7,536.0	6,973.7	53.5	48.6	89.79	-6,138.5	-1,476.7	4,119.2	4,038.4	80.77	50.999	
9,645.6	7,009.8	7,536.0	6,973.7	54.3	48.6	89.79	-6,138.5	-1,476.7	4,079.3	3,997.7	81.63	49.972	
9,700.0	7,009.6	7,536.0	6,973.7	55.3	48.6	89.79	-6,138.5	-1,476.7	4,032.1	3,949.4	82.66	48.778	
9,744.1	7,009.4	7,536.0	6,973.7	56.2	48.6	89.79	-6,138.5	-1,476.7	3,993.9	3,910.4	83.50	47.832	
9,800.0	7,009.3	7,536.0	6,973.7	57.2	48.6	89.79	-6,138.5	-1,476.7	3,945.6	3,861.0	84.56	46.661	
9,842.5	7,009.1	7,536.0	6,973.7	58.0	48.6	89.79	-6,138.5	-1,476.7	3,909.0	3,823.6	85.37	45.790	
9,900.0	7,008.9	7,536.0	6,973.7	59.1	48.6	89.80	-6,138.5	-1,476.7	3,859.7	3,773.3	86.46	44.641	
9,940.9	7,008.8	7,536.0	6,973.7	59.9	48.6	89.80	-6,138.5	-1,476.7	3,824.8	3,737.6	87.24	43.841	
10,000.0	7,008.6	7,536.0	6,973.7	61.0	48.6	89.80	-6,138.5	-1,476.7	3,774.6	3,686.2	88.37	42.713	
10,039.3	7,008.5	7,536.0	6,973.7	61.7	48.6	89.80	-6,138.5	-1,476.7	3,741.3	3,652.2	89.12	41.979	
10,100.0	7,008.3	7,536.0	6,973.7	62.9	48.6	89.80	-6,138.5	-1,476.7	3,690.2	3,599.9	90.28	40.874	
10,137.8	7,008.2	7,536.0	6,973.7	63.6	48.6	89.80	-6,138.5	-1,476.7	3,658.5	3,567.5	91.01	40.200	
10,200.0	7,008.0	7,536.0	6,973.7	64.8	48.6	89.80	-6,138.5	-1,476.7	3,606.6	3,514.4	92.20	39.117	
10,236.2	7,007.9	7,536.0	6,973.7	65.5	48.6	89.80	-6,138.5	-1,476.7	3,576.5	3,483.6	92.89	38.501	
10,300.0	7,007.6	7,536.0	6,973.7	66.7	48.6	89.80	-6,138.5	-1,476.7	3,523.8	3,429.7	94.12	37.440	
10,334.6	7,007.5	7,536.0	6,973.7	67.3	48.6	89.80	-6,138.5	-1,476.7	3,495.4	3,400.6	94.79	36.877	
10,400.0	7,007.3	7,536.3	6,974.0	68.6	48.6	89.80	-6,138.5	-1,476.7	3,442.0	3,346.0	96.04	35.838	
10,433.0	7,007.2	7,536.7	6,974.4	69.2	48.6	89.82	-6,138.5	-1,476.7	3,415.2	3,318.5	96.68	35.325	
10,500.0	7,007.0	7,537.5	6,975.1	70.5	48.6	89.84	-6,138.5	-1,476.7	3,361.2	3,263.2	97.97	34.308	
10,531.5	7,006.9	7,537.8	6,975.5	71.1	48.6	89.85	-6,138.5	-1,476.7	3,335.9	3,237.4	98.58	33.841	
10,600.0	7,006.7	7,538.6	6,976.3	72.4	48.6	89.87	-6,138.5	-1,476.7	3,281.4	3,181.5	99.90	32.847	
10,629.9	7,006.6	7,539.0	6,976.7	73.0	48.6	89.88	-6,138.5	-1,476.7	3,257.7	3,157.3	100.48	32.423	
10,700.0	7,006.4	7,539.8	6,977.5	74.3	48.6	89.91	-6,138.5	-1,476.7	3,202.7	3,100.9	101.83	31.452	
10,728.3	7,006.3	7,540.1	6,977.8	74.9	48.6	89.91	-6,138.5	-1,476.7	3,180.6	3,078.3	102.38	31.068	
10,800.0	7,006.0	7,540.9	6,978.6	76.3	48.6	89.94	-6,138.5	-1,476.7	3,125.3	3,021.5	103.76	30.119	
10,826.7	7,005.9	7,541.2	6,978.9	76.8	48.6	89.95	-6,138.5	-1,476.7	3,104.8	3,000.5	104.28	29.773	
10,900.0	7,005.7	7,542.1	6,979.8	78.2	48.6	89.97	-6,138.6	-1,476.6	3,049.1	2,943.4	105.70	28.847	
10,925.2	7,005.6	7,542.4	6,980.1	78.7	48.6	89.98	-6,138.6	-1,476.6	3,030.2	2,924.0	106.19	28.536	
11,000.0	7,005.4	7,543.2	6,980.9	80.1	48.6	90.00	-6,138.6	-1,476.6	2,974.4	2,866.8	107.64	27.634	
11,023.6	7,005.3	7,543.5	6,981.2	80.6	48.6	90.01	-6,138.6	-1,476.6	2,957.0	2,848.9	108.10	27.356	
11,100.0	7,005.1	7,544.4	6,982.1	82.0	48.6	90.04	-6,138.6	-1,476.6	2,901.2	2,791.7	109.58	26.477	
11,122.0	7,005.0	7,544.6	6,982.3	82.5	48.6	90.04	-6,138.6	-1,476.6	2,885.3	2,775.3	110.01	26.229	
11,200.0	7,004.7	7,545.5	6,983.2	84.0	48.6	90.07	-6,138.6	-1,476.6	2,829.7	2,718.2	111.52	25.374	
11,220.4	7,004.7	7,545.7	6,983.4	84.4	48.6	90.08	-6,138.6	-1,476.6	2,815.3	2,703.4	111.92	25.155	
11,300.0	7,004.4	7,546.6	6,984.3	85.9	48.6	90.10	-6,138.6	-1,476.6	2,759.9	2,646.5	113.46	24.324	
11,318.9	7,004.4	7,546.8	6,984.5	86.3	48.6	90.11	-6,138.6	-1,476.6	2,747.0	2,633.1	113.83	24.132	
11,400.0	7,004.1	7,547.8	6,985.4	87.8	48.6	90.13	-6,138.6	-1,476.6	2,692.0	2,576.6	115.41	23.326	
11,417.3	7,004.0	7,548.0	6,985.6	88.2	48.6	90.14	-6,138.6	-1,476.6	2,680.5	2,564.8	115.74	23.159	
11,500.0	7,003.8	7,548.9	6,986.6	89.8	48.6	90.17	-6,138.6	-1,476.6	2,626.2	2,508.9	117.35	22.379	
11,515.7	7,003.7	7,549.1	6,986.7	90.1	48.6	90.17	-6,138.6	-1,476.6	2,616.1	2,498.4	117.66	22.234	
11,600.0	7,003.4	7,550.0	6,987.7	91.7	48.6	90.20	-6,138.7	-1,476.6	2,562.6	2,443.3	119.30	21.480	
11,614.1	7,003.4	7,550.2	6,987.8	92.0	48.6	90.20	-6,138.7	-1,476.6	2,553.8	2,434.2	119.58	21.357	
11,700.0	7,003.1	7,551.1	6,988.8	93.7	48.6	90.23	-6,138.7	-1,476.5	2,501.4	2,380.1	121.25	20.630	
11,712.6	7,003.1	7,551.2	6,988.9	93.9	48.6	90.23	-6,138.7	-1,476.5	2,493.9	2,372.4	121.50	20.526	
11,800.0	7,002.8	7,552.2	6,989.9	95.6	48.6	90.26	-6,138.7	-1,476.5	2,442.7	2,319.5	123.20	19.827	
11,811.0	7,002.7	7,552.3	6,990.0	95.8	48.6	90.27	-6,138.7	-1,476.5	2,436.4	2,313.0	123.42	19.742	
11,900.0	7,002.5	7,553.3	6,991.0	97.6	48.6	90.29	-6,138.7	-1,476.5	2,386.8	2,261.7	125.15	19.071	
11,909.4	7,002.4	7,553.4	6,991.1	97.7	48.6	90.30	-6,138.7	-1,476.5	2,381.7	2,256.3	125.34	19.002	
12,000.0	7,002.1	7,554.4	6,992.1	99.5	48.6	90.33	-6,138.7	-1,476.5	2,333.8	2,206.7	127.10	18.362	
12,007.8	7,002.1	7,554.5	6,992.2	99.7	48.6	90.33	-6,138.7	-1,476.5	2,329.8	2,202.5	127.26	18.308	
12,100.0	7,001.8	7,555.5	6,993.2	101.5	48.6	90.36	-6,138.7	-1,476.5	2,284.0	2,155.0	129.06	17.698	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,106.3	7,001.8	7,555.6	6,993.3	101.6	48.6	90.36	-6,138.7	-1,476.5	2,281.0	2,151.8	129.18	17.658	
12,200.0	7,001.5	7,556.6	6,994.3	103.4	48.6	90.39	-6,138.7	-1,476.5	2,237.6	2,106.5	131.01	17.079	
12,204.7	7,001.5	7,556.6	6,994.3	103.5	48.6	90.39	-6,138.7	-1,476.5	2,235.5	2,104.4	131.10	17.051	
12,300.0	7,001.2	7,557.7	6,995.4	105.3	48.6	90.42	-6,138.8	-1,476.5	2,194.7	2,061.7	132.97	16.506	
12,303.1	7,001.1	7,557.7	6,995.4	105.4	48.6	90.42	-6,138.8	-1,476.5	2,193.4	2,060.4	133.03	16.488	
12,400.0	7,000.8	7,558.8	6,996.4	107.3	48.6	90.45	-6,138.8	-1,476.5	2,155.6	2,020.7	134.92	15.977	
12,401.5	7,000.8	7,558.8	6,996.5	107.3	48.6	90.45	-6,138.8	-1,476.5	2,155.0	2,020.1	134.95	15.969	
12,500.0	7,000.5	7,559.8	6,997.5	109.3	48.6	90.48	-6,138.8	-1,476.4	2,120.5	1,983.6	136.88	15.492	
12,598.4	7,000.2	7,560.9	6,998.6	111.2	48.6	90.51	-6,138.8	-1,476.4	2,090.1	1,951.3	138.80	15.058	
12,600.0	7,000.2	7,560.9	6,998.6	111.2	48.6	90.51	-6,138.8	-1,476.4	2,089.6	1,950.8	138.84	15.051	
12,696.8	6,999.8	7,561.9	6,999.6	113.1	48.6	90.54	-6,138.8	-1,476.4	2,063.9	1,923.1	140.73	14.665	
12,700.0	6,999.8	7,562.0	6,999.7	113.2	48.6	90.54	-6,138.8	-1,476.4	2,063.1	1,922.3	140.79	14.653	
12,795.2	6,999.5	7,563.0	7,000.7	115.0	48.6	90.57	-6,138.8	-1,476.4	2,042.1	1,899.4	142.66	14.314	
12,800.0	6,999.5	7,563.0	7,000.7	115.1	48.6	90.57	-6,138.8	-1,476.4	2,041.1	1,898.4	142.75	14.299	
12,893.7	6,999.2	7,564.0	7,001.7	116.9	48.6	90.60	-6,138.8	-1,476.4	2,024.9	1,880.3	144.59	14.004	
12,900.0	6,999.2	7,564.1	7,001.8	117.1	48.6	90.60	-6,138.8	-1,476.4	2,023.9	1,879.2	144.71	13.986	
12,992.1	6,998.9	7,565.1	7,002.7	118.9	48.6	90.63	-6,138.9	-1,476.4	2,012.3	1,865.8	146.52	13.734	
13,000.0	6,998.8	7,565.1	7,002.8	119.0	48.6	90.63	-6,138.9	-1,476.4	2,011.5	1,864.8	146.67	13.714	
13,090.5	6,998.6	7,566.1	7,003.8	120.8	48.6	90.66	-6,138.9	-1,476.4	2,004.5	1,856.1	148.45	13.503	
13,100.0	6,998.5	7,566.2	7,003.9	121.0	48.6	90.66	-6,138.9	-1,476.4	2,004.0	1,855.4	148.63	13.483	
13,188.9	6,998.2	7,567.1	7,004.8	122.7	48.6	90.69	-6,138.9	-1,476.4	2,001.5	1,851.2	150.37	13.310	
13,200.0	6,998.2	7,567.2	7,004.9	122.9	48.6	90.69	-6,138.9	-1,476.4	2,001.5	1,850.9	150.59	13.291	
13,200.4	6,998.2	7,567.2	7,004.9	122.9	48.6	90.69	-6,138.9	-1,476.4	2,001.5	1,850.9	150.60	13.290 CC, ES	
13,287.4	6,997.9	7,568.2	7,005.8	124.6	48.6	90.72	-6,138.9	-1,476.3	2,003.4	1,851.1	152.30	13.154	
13,300.0	6,997.9	7,568.3	7,006.0	124.9	48.6	90.72	-6,138.9	-1,476.3	2,004.0	1,851.4	152.55	13.136	
13,385.8	6,997.6	7,569.2	7,006.9	126.6	48.6	90.75	-6,138.9	-1,476.3	2,010.1	1,855.8	154.24	13.032	
13,400.0	6,997.5	7,569.3	7,007.0	126.9	48.6	90.75	-6,138.9	-1,476.3	2,011.4	1,856.9	154.51	13.018	
13,484.2	6,997.3	7,570.2	7,007.9	128.5	48.6	90.78	-6,138.9	-1,476.3	2,021.5	1,865.4	156.17	12.945	
13,500.0	6,997.2	7,570.4	7,008.0	128.8	48.6	90.78	-6,138.9	-1,476.3	2,023.8	1,867.3	156.48	12.934	
13,582.6	6,996.9	7,571.2	7,008.9	130.4	48.6	90.81	-6,138.9	-1,476.3	2,037.7	1,879.6	158.10	12.889	
13,600.0	6,996.9	7,571.4	7,009.1	130.8	48.6	90.81	-6,138.9	-1,476.3	2,041.0	1,882.6	158.44	12.882	
13,681.1	6,996.6	7,572.2	7,009.9	132.4	48.6	90.84	-6,138.9	-1,476.3	2,058.4	1,898.4	160.03	12.863	
13,700.0	6,996.5	7,572.4	7,010.1	132.7	48.6	90.84	-6,139.0	-1,476.3	2,062.9	1,902.5	160.40	12.861 SF	
13,779.5	6,996.3	7,573.2	7,010.9	134.3	48.6	90.86	-6,139.0	-1,476.3	2,083.6	1,921.6	161.96	12.865	
13,800.0	6,996.2	7,573.4	7,011.1	134.7	48.6	90.87	-6,139.0	-1,476.3	2,089.4	1,927.0	162.36	12.868	
13,877.9	6,995.9	7,574.2	7,011.9	136.2	48.6	90.89	-6,139.0	-1,476.3	2,113.1	1,949.2	163.89	12.893	
13,900.0	6,995.9	7,574.4	7,012.1	136.7	48.6	90.90	-6,139.0	-1,476.3	2,120.3	1,955.9	164.33	12.903	
13,976.3	6,995.6	7,575.2	7,012.9	138.2	48.6	90.92	-6,139.0	-1,476.3	2,146.7	1,980.8	165.83	12.945	
14,000.0	6,995.5	7,575.5	7,013.1	138.6	48.6	90.93	-6,139.0	-1,476.3	2,155.3	1,989.0	166.29	12.961	
14,074.8	6,995.3	7,576.2	7,013.9	140.1	48.6	90.95	-6,139.0	-1,476.2	2,184.2	2,016.4	167.76	13.019	
14,100.0	6,995.2	7,576.5	7,014.1	140.6	48.6	90.96	-6,139.0	-1,476.2	2,194.4	2,026.1	168.26	13.042	
14,162.0	6,995.0	7,577.1	7,014.8	141.8	48.6	90.98	-6,139.0	-1,476.2	2,220.5	2,051.1	169.43	13.105	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-172.17	-5,661.3	-778.1	5,714.7				
98.4	98.4	55.9	55.9	0.1	0.6	-172.17	-5,661.3	-778.1	5,714.5	5,713.9	0.68	8,450.945	
100.0	100.0	57.5	57.5	0.1	0.6	-172.17	-5,661.3	-778.1	5,714.5	5,713.8	0.69	8,230.329	
196.8	196.8	154.3	154.3	0.3	2.3	-172.17	-5,661.3	-778.1	5,714.5	5,711.9	2.62	2,182.962	
200.0	200.0	157.5	157.5	0.3	2.4	-172.17	-5,661.3	-778.1	5,714.5	5,711.8	2.70	2,117.943	
295.3	295.3	252.8	252.8	0.5	4.5	-172.17	-5,661.3	-778.1	5,714.5	5,709.5	5.00	1,143.106	
300.0	300.0	257.5	257.5	0.5	4.6	-172.17	-5,661.3	-778.1	5,714.5	5,709.4	5.11	1,118.728	
393.7	393.7	351.2	351.2	0.8	6.5	-172.17	-5,661.3	-778.1	5,714.5	5,707.3	7.25	788.340	
400.0	400.0	357.5	357.5	0.8	6.6	-172.17	-5,661.3	-778.1	5,714.5	5,707.1	7.39	773.105	
492.1	492.1	449.6	449.6	1.0	8.5	-172.17	-5,661.3	-778.1	5,714.5	5,705.1	9.47	603.191	
500.0	500.0	457.5	457.5	1.0	8.7	-172.17	-5,661.3	-778.1	5,714.5	5,704.9	9.65	592.098	
590.5	590.5	548.0	548.0	1.2	10.5	-172.17	-5,661.3	-778.1	5,714.5	5,702.8	11.69	488.872	
600.0	600.0	557.5	557.5	1.2	10.7	-172.17	-5,661.3	-778.1	5,714.5	5,702.6	11.90	480.148	
689.0	689.0	646.5	646.5	1.4	12.5	-172.17	-5,661.3	-778.1	5,714.5	5,700.6	13.90	411.126	
700.0	700.0	657.5	657.5	1.4	12.7	-172.17	-5,661.3	-778.1	5,714.5	5,700.4	14.15	403.936	
787.4	787.4	744.9	744.9	1.6	14.5	-172.17	-5,661.3	-778.1	5,714.5	5,698.4	16.11	354.776	
800.0	800.0	757.5	757.5	1.7	14.7	-172.17	-5,661.3	-778.1	5,714.5	5,698.1	16.39	348.661	
885.8	885.8	843.3	843.3	1.9	16.4	-172.17	-5,661.3	-778.1	5,714.5	5,696.2	18.31	312.041	
900.0	900.0	857.5	857.5	1.9	16.7	-172.17	-5,661.3	-778.1	5,714.5	5,695.9	18.63	306.722	
984.2	984.2	941.7	941.7	2.1	18.4	-172.17	-5,661.3	-778.1	5,714.5	5,694.0	20.52	278.511	
1,000.0	1,000.0	957.5	957.5	2.1	18.8	-172.17	-5,661.3	-778.1	5,714.5	5,693.7	20.87	273.804	
1,082.7	1,082.7	1,040.2	1,040.2	2.3	20.4	-172.17	-5,661.3	-778.1	5,714.5	5,691.8	22.72	251.497	
1,100.0	1,100.0	1,057.5	1,057.5	2.3	20.8	-172.17	-5,661.3	-778.1	5,714.5	5,691.4	23.11	247.276	
1,181.1	1,181.1	1,138.6	1,138.6	2.5	22.4	125.26	-5,661.3	-778.1	5,715.2	5,690.3	24.92	229.372	
1,200.0	1,200.0	1,157.5	1,157.5	2.6	22.8	125.26	-5,661.3	-778.1	5,715.5	5,690.2	25.34	225.585	
1,279.5	1,279.4	1,236.9	1,236.9	2.7	24.4	125.25	-5,661.3	-778.1	5,717.8	5,690.7	27.09	211.027	
1,300.0	1,299.8	1,257.3	1,257.3	2.8	24.8	125.25	-5,661.3	-778.1	5,718.6	5,691.0	27.55	207.602	
1,377.9	1,377.5	1,335.0	1,335.0	3.0	26.4	125.24	-5,661.3	-778.1	5,722.3	5,693.1	29.26	195.556	
1,400.0	1,399.5	1,357.0	1,357.0	3.0	26.8	125.24	-5,661.3	-778.1	5,723.6	5,693.9	29.74	192.425	
1,476.4	1,475.3	1,432.8	1,432.8	3.2	28.3	125.23	-5,661.3	-778.1	5,728.8	5,697.4	31.42	182.337	
1,500.0	1,498.7	1,456.2	1,456.2	3.2	28.8	125.22	-5,661.3	-778.1	5,730.7	5,698.7	31.93	179.457	
1,574.8	1,572.6	1,530.1	1,530.1	3.5	30.3	125.20	-5,661.3	-778.1	5,737.3	5,703.7	33.57	170.917	
1,600.0	1,597.5	1,555.0	1,555.0	3.5	30.8	125.20	-5,661.3	-778.1	5,739.8	5,705.6	34.11	168.253	
1,673.2	1,669.4	1,626.9	1,626.9	3.7	32.2	125.18	-5,661.3	-778.1	5,747.7	5,712.0	35.71	160.953	
1,700.0	1,695.7	1,653.2	1,653.2	3.8	32.8	125.17	-5,661.3	-778.1	5,750.9	5,714.6	36.29	158.471	
1,771.6	1,765.7	1,723.2	1,723.2	4.1	34.2	125.29	-5,661.3	-778.1	5,759.6	5,721.7	37.91	151.926	
1,800.0	1,793.4	1,750.9	1,750.9	4.2	34.7	125.34	-5,661.3	-778.1	5,763.1	5,724.5	38.55	149.489	
1,870.1	1,862.0	1,819.5	1,819.5	4.4	36.1	125.45	-5,661.3	-778.1	5,771.6	5,731.5	40.15	143.757	
1,900.0	1,891.3	1,848.8	1,848.8	4.5	36.7	125.50	-5,661.3	-778.1	5,775.3	5,734.5	40.83	141.451	
1,968.5	1,958.3	1,915.8	1,915.8	4.8	38.0	125.61	-5,661.3	-778.1	5,783.7	5,741.3	42.40	136.420	
2,000.0	1,989.1	1,946.6	1,946.6	4.9	38.7	125.67	-5,661.3	-778.1	5,787.6	5,744.5	43.12	134.229	
2,066.9	2,054.5	2,012.0	2,012.0	5.2	40.0	125.78	-5,661.3	-778.1	5,795.8	5,751.2	44.65	129.792	
2,100.0	2,086.9	2,044.4	2,044.4	5.3	40.6	125.83	-5,661.3	-778.1	5,799.9	5,754.5	45.41	127.711	
2,165.3	2,150.8	2,108.3	2,108.3	5.6	41.9	125.94	-5,661.3	-778.1	5,808.0	5,761.1	46.92	123.784	
2,200.0	2,184.7	2,142.2	2,142.2	5.7	42.6	125.99	-5,661.3	-778.1	5,812.3	5,764.6	47.72	121.804	
2,263.8	2,247.1	2,204.6	2,204.6	5.9	43.8	126.10	-5,661.3	-778.1	5,820.2	5,771.0	49.19	118.317	
2,300.0	2,282.5	2,240.0	2,240.0	6.1	44.6	126.16	-5,661.3	-778.1	5,824.7	5,774.7	50.03	116.429	
2,362.2	2,343.4	2,300.9	2,300.9	6.4	45.8	126.26	-5,661.3	-778.1	5,832.4	5,781.0	51.47	113.324	
2,400.0	2,380.3	2,337.8	2,337.8	6.5	46.5	126.32	-5,661.3	-778.1	5,837.2	5,784.8	52.34	111.521	
2,460.6	2,439.6	2,397.1	2,397.1	6.8	47.7	126.42	-5,661.3	-778.1	5,844.7	5,791.0	53.75	108.747	
2,500.0	2,478.1	2,435.6	2,435.6	6.9	48.5	126.48	-5,661.3	-778.1	5,849.7	5,795.0	54.66	107.023	
2,559.0	2,535.9	2,493.4	2,493.4	7.2	49.7	126.58	-5,661.3	-778.1	5,857.1	5,801.1	56.03	104.538	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,533.5	2,533.5	7.4	50.5	126.64	-5,661.3	-778.1	5,862.2	5,805.3	56.98	102.886	
2,657.5	2,632.2	2,589.7	2,589.7	7.6	51.6	126.74	-5,661.3	-778.1	5,869.5	5,811.2	58.31	100.656	
2,700.0	2,673.8	2,631.3	2,631.3	7.8	52.4	126.80	-5,661.3	-778.1	5,874.8	5,815.5	59.30	99.071	
2,755.9	2,728.4	2,685.9	2,685.9	8.0	53.5	126.89	-5,661.3	-778.1	5,881.9	5,821.3	60.60	97.064	
2,800.0	2,771.6	2,729.1	2,729.1	8.2	54.4	126.96	-5,661.3	-778.1	5,887.5	5,825.9	61.62	95.542	
2,854.3	2,824.7	2,782.2	2,782.2	8.4	55.5	127.05	-5,661.3	-778.1	5,894.4	5,831.5	62.89	93.733	
2,900.0	2,869.4	2,826.9	2,826.9	8.6	56.4	127.12	-5,661.3	-778.1	5,900.2	5,836.3	63.95	92.268	
2,952.7	2,921.0	2,878.5	2,878.5	8.9	57.4	127.21	-5,661.3	-778.1	5,906.9	5,841.7	65.17	90.634	
3,000.0	2,967.2	2,924.7	2,924.7	9.1	58.3	127.28	-5,661.3	-778.1	5,913.0	5,846.7	66.27	89.223	
3,051.2	3,017.3	2,974.8	2,974.8	9.3	59.3	127.36	-5,661.3	-778.1	5,919.5	5,852.0	67.46	87.746	
3,100.0	3,065.0	3,022.5	3,022.5	9.5	60.3	127.44	-5,661.3	-778.1	5,925.7	5,857.1	68.60	86.384	
3,149.6	3,113.5	3,071.0	3,071.0	9.7	61.3	127.52	-5,661.3	-778.1	5,932.1	5,862.4	69.75	85.046	
3,200.0	3,162.8	3,120.3	3,120.3	9.9	62.3	127.60	-5,661.3	-778.1	5,938.6	5,867.7	70.92	83.732	
3,248.0	3,209.8	3,167.3	3,167.3	10.2	63.2	127.67	-5,661.3	-778.1	5,944.8	5,872.7	72.04	82.519	
3,300.0	3,260.7	3,218.2	3,218.2	10.4	64.2	127.75	-5,661.3	-778.1	5,951.5	5,878.2	73.25	81.249	
3,346.4	3,306.1	3,263.6	3,263.6	10.6	65.1	127.82	-5,661.3	-778.1	5,957.5	5,883.1	74.33	80.148	
3,400.0	3,358.5	3,316.0	3,316.0	10.8	66.2	127.91	-5,661.3	-778.1	5,964.4	5,888.8	75.58	78.919	
3,444.9	3,402.4	3,359.9	3,359.9	11.0	67.1	127.98	-5,661.3	-778.1	5,970.2	5,893.6	76.62	77.919	
3,500.0	3,456.3	3,413.8	3,413.8	11.3	68.2	128.06	-5,661.3	-778.1	5,977.4	5,899.5	77.90	76.729	
3,543.3	3,498.6	3,456.1	3,456.1	11.5	69.0	128.13	-5,661.3	-778.1	5,983.0	5,904.1	78.91	75.820	
3,600.0	3,554.1	3,511.6	3,511.6	11.7	70.1	128.22	-5,661.3	-778.1	5,990.4	5,910.2	80.23	74.666	
3,641.7	3,594.9	3,552.4	3,552.4	11.9	71.0	128.28	-5,661.3	-778.1	5,995.8	5,914.6	81.20	73.841	
3,700.0	3,651.9	3,609.4	3,609.4	12.2	72.1	128.37	-5,661.3	-778.1	6,003.4	5,920.9	82.55	72.721	
3,740.1	3,691.2	3,648.7	3,648.7	12.3	72.9	128.43	-5,661.3	-778.1	6,008.7	5,925.2	83.49	71.970	
3,800.0	3,749.7	3,707.2	3,707.2	12.6	74.1	128.52	-5,661.3	-778.1	6,016.5	5,931.7	84.88	70.883	
3,838.6	3,787.5	3,745.0	3,745.0	12.8	74.8	128.58	-5,661.3	-778.1	6,021.6	5,935.8	85.78	70.200	
3,900.0	3,847.5	3,805.0	3,805.0	13.0	76.0	128.68	-5,661.3	-778.1	6,029.7	5,942.5	87.21	69.143	
3,937.0	3,883.7	3,841.2	3,841.2	13.2	76.8	128.73	-5,661.3	-778.1	6,034.6	5,946.5	88.07	68.523	
4,000.0	3,945.4	3,902.9	3,902.9	13.5	78.0	128.83	-5,661.3	-778.1	6,042.9	5,953.4	89.53	67.495	
4,035.4	3,980.0	3,937.5	3,937.5	13.7	78.7	128.88	-5,661.3	-778.1	6,047.6	5,957.2	90.35	66.932	
4,068.9	4,012.7	3,970.2	3,970.2	13.8	79.4	128.93	-5,661.3	-778.1	6,052.0	5,960.9	91.13	66.409	
4,100.0	4,043.2	4,000.7	4,000.7	13.9	80.0	129.04	-5,661.3	-778.1	6,056.0	5,964.1	91.90	65.895	
4,133.8	4,076.4	4,033.9	4,033.9	14.0	80.6	129.15	-5,661.3	-778.1	6,060.1	5,967.4	92.72	65.359	
4,200.0	4,141.6	4,099.1	4,099.1	14.2	82.0	129.35	-5,661.3	-778.1	6,067.5	5,973.2	94.32	64.331	
4,232.3	4,173.4	4,130.9	4,130.9	14.3	82.6	129.44	-5,661.3	-778.1	6,070.8	5,975.7	95.08	63.846	
4,300.0	4,240.5	4,198.0	4,198.0	14.5	83.9	129.60	-5,661.3	-778.1	6,076.8	5,980.1	96.69	62.848	
4,330.7	4,271.0	4,228.5	4,228.5	14.6	84.6	129.67	-5,661.3	-778.1	6,079.3	5,981.8	97.41	62.411	
4,400.0	4,339.9	4,297.4	4,297.4	14.8	85.9	129.79	-5,661.3	-778.1	6,084.0	5,984.9	99.02	61.444	
4,429.1	4,368.9	4,326.4	4,326.4	14.8	86.5	129.84	-5,661.3	-778.1	6,085.6	5,985.9	99.68	61.051	
4,500.0	4,439.6	4,397.1	4,397.1	15.0	87.9	129.92	-5,661.3	-778.1	6,088.9	5,987.6	101.29	60.115	
4,527.5	4,467.1	4,424.6	4,424.6	15.0	88.5	129.95	-5,661.3	-778.1	6,089.8	5,987.9	101.90	59.763	
4,600.0	4,539.5	4,497.0	4,497.0	15.1	90.0	129.99	-5,661.3	-778.1	6,091.5	5,988.0	103.49	58.858	
4,626.0	4,565.4	4,522.9	4,522.9	15.2	90.5	130.00	-5,661.3	-778.1	6,091.8	5,987.8	104.06	58.544	
4,668.9	4,608.4	4,565.9	4,565.9	15.2	91.3	-167.42	-5,661.3	-778.1	6,092.1	5,987.1	104.99	58.024	
4,700.0	4,639.5	4,597.0	4,597.0	15.3	92.0	-167.42	-5,661.3	-778.1	6,092.1	5,986.4	105.66	57.656	
4,724.4	4,663.9	4,621.4	4,621.4	15.3	92.5	-167.42	-5,661.3	-778.1	6,092.1	5,985.9	106.19	57.368	
4,800.0	4,739.5	4,697.0	4,697.0	15.4	94.0	-167.42	-5,661.3	-778.1	6,092.1	5,984.2	107.83	56.494	
4,822.8	4,762.3	4,719.8	4,719.8	15.4	94.4	-167.42	-5,661.3	-778.1	6,092.1	5,983.7	108.33	56.236	
4,900.0	4,839.5	4,797.0	4,797.0	15.6	96.0	-167.42	-5,661.3	-778.1	6,092.1	5,982.0	110.01	55.378	
4,921.2	4,860.7	4,818.2	4,818.2	15.6	96.4	-167.42	-5,661.3	-778.1	6,092.1	5,981.6	110.47	55.146	
5,000.0	4,939.5	4,897.0	4,897.0	15.7	98.0	-167.42	-5,661.3	-778.1	6,092.1	5,979.9	112.18	54.304	
5,019.7	4,959.1	4,916.6	4,916.6	15.7	98.4	-167.42	-5,661.3	-778.1	6,092.1	5,979.4	112.61	54.097	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	4,997.0	4,997.0	15.9	100.0	-167.42	-5,661.3	-778.1	6,092.1	5,977.7	114.36	53.270	
5,118.1	5,057.6	5,015.1	5,015.1	15.9	100.4	-167.42	-5,661.3	-778.1	6,092.1	5,977.3	114.76	53.087	
5,200.0	5,139.5	5,097.0	5,097.0	16.0	102.0	-167.42	-5,661.3	-778.1	6,092.1	5,975.5	116.54	52.274	
5,216.5	5,156.0	5,113.5	5,113.5	16.0	102.4	-167.42	-5,661.3	-778.1	6,092.1	5,975.2	116.90	52.113	
5,300.0	5,239.5	5,197.0	5,197.0	16.2	104.0	-167.42	-5,661.3	-778.1	6,092.1	5,973.3	118.72	51.314	
5,314.9	5,254.4	5,211.9	5,211.9	16.2	104.3	-167.42	-5,661.3	-778.1	6,092.1	5,973.0	119.05	51.174	
5,400.0	5,339.5	5,297.0	5,297.0	16.3	106.0	-167.42	-5,661.3	-778.1	6,092.1	5,971.2	120.90	50.388	
5,413.4	5,352.8	5,310.3	5,310.3	16.3	106.3	-167.42	-5,661.3	-778.1	6,092.1	5,970.9	121.19	50.267	
5,500.0	5,439.5	5,397.0	5,397.0	16.5	108.1	-167.42	-5,661.3	-778.1	6,092.1	5,969.0	123.09	49.495	
5,511.8	5,451.3	5,408.8	5,408.8	16.5	108.3	-167.42	-5,661.3	-778.1	6,092.1	5,968.7	123.34	49.391	
5,600.0	5,539.5	5,497.0	5,497.0	16.6	110.1	-167.42	-5,661.3	-778.1	6,092.1	5,966.8	125.27	48.631	
5,610.2	5,549.7	5,507.2	5,507.2	16.6	110.3	-167.42	-5,661.3	-778.1	6,092.1	5,966.6	125.49	48.545	
5,700.0	5,639.5	5,597.0	5,597.0	16.8	112.1	-167.42	-5,661.3	-778.1	6,092.1	5,964.6	127.46	47.797	
5,708.6	5,648.1	5,605.6	5,605.6	16.8	112.3	-167.42	-5,661.3	-778.1	6,092.1	5,964.4	127.64	47.727	
5,800.0	5,739.5	5,697.0	5,697.0	17.0	114.1	-167.42	-5,661.3	-778.1	6,092.1	5,962.4	129.64	46.991	
5,807.1	5,746.5	5,704.0	5,704.0	17.0	114.2	-167.42	-5,661.3	-778.1	6,092.1	5,962.3	129.80	46.935	
5,900.0	5,839.5	5,797.0	5,797.0	17.1	116.1	-167.42	-5,661.3	-778.1	6,092.1	5,960.2	131.83	46.211	
5,905.5	5,845.0	5,802.5	5,802.5	17.1	116.2	-167.42	-5,661.3	-778.1	6,092.1	5,960.1	131.95	46.169	
6,000.0	5,939.5	5,897.0	5,897.0	17.3	118.1	-167.42	-5,661.3	-778.1	6,092.1	5,958.0	134.02	45.456	
6,003.9	5,943.4	5,900.9	5,900.9	17.3	118.2	-167.42	-5,661.3	-778.1	6,092.1	5,957.9	134.11	45.427	
6,100.0	6,039.5	5,997.0	5,997.0	17.4	120.1	-167.42	-5,661.3	-778.1	6,092.1	5,955.8	136.21	44.725	
6,102.3	6,041.8	5,999.3	5,999.3	17.4	120.2	-167.42	-5,661.3	-778.1	6,092.1	5,955.8	136.26	44.708	
6,200.0	6,139.5	6,097.0	6,097.0	17.6	122.1	-167.42	-5,661.3	-778.1	6,092.1	5,953.7	138.40	44.017	
6,200.8	6,140.2	6,097.7	6,097.7	17.6	122.1	-167.42	-5,661.3	-778.1	6,092.1	5,953.6	138.42	44.011	
6,299.2	6,238.7	6,196.2	6,196.2	17.8	124.1	-167.42	-5,661.3	-778.1	6,092.1	5,951.5	140.58	43.336	
6,300.0	6,239.5	6,197.0	6,197.0	17.8	124.1	-167.42	-5,661.3	-778.1	6,092.1	5,951.5	140.60	43.330	
6,360.9	6,300.4	6,257.9	6,257.9	17.9	125.4	-167.42	-5,661.3	-778.1	6,092.1	5,950.1	141.93	42.922	
6,397.6	6,337.1	6,294.6	6,294.6	17.9	126.1	12.38	-5,661.3	-778.1	6,091.1	5,948.6	142.50	42.744	
6,400.0	6,339.5	6,297.0	6,297.0	17.9	126.2	12.39	-5,661.3	-778.1	6,091.0	5,948.5	142.53	42.735	
6,450.0	6,389.2	6,346.7	6,346.7	18.0	127.2	12.47	-5,661.3	-778.1	6,086.7	5,943.9	142.71	42.652	
6,496.0	6,434.7	6,392.2	6,392.2	18.0	128.1	12.61	-5,661.3	-778.1	6,079.6	5,937.4	142.27	42.733	
6,500.0	6,438.6	6,396.1	6,396.1	18.0	128.1	12.62	-5,661.3	-778.1	6,078.9	5,936.7	142.21	42.747	
6,550.0	6,487.3	6,444.8	6,444.8	18.0	129.1	12.85	-5,661.3	-778.1	6,067.8	5,926.8	141.03	43.026	
6,594.5	6,529.8	6,487.3	6,487.3	18.0	130.0	13.11	-5,661.3	-778.1	6,055.2	5,915.8	139.41	43.434	
6,600.0	6,535.1	6,492.6	6,492.6	18.1	130.1	13.15	-5,661.3	-778.1	6,053.4	5,914.3	139.17	43.495	
6,650.0	6,581.7	6,539.2	6,539.2	18.0	131.0	13.53	-5,661.3	-778.1	6,035.9	5,899.2	136.66	44.167	
6,692.9	6,620.6	6,578.1	6,578.1	18.0	131.8	13.94	-5,661.3	-778.1	6,018.3	5,884.3	133.99	44.914	
6,700.0	6,626.9	6,584.4	6,584.4	18.0	131.9	14.02	-5,661.3	-778.1	6,015.1	5,881.6	133.51	45.054	
6,750.0	6,670.6	6,628.1	6,628.1	18.0	132.8	14.61	-5,661.3	-778.1	5,991.4	5,861.6	129.77	46.171	
6,791.3	6,705.4	6,662.9	6,662.9	18.0	133.5	15.19	-5,661.3	-778.1	5,969.5	5,843.3	126.27	47.278	
6,800.0	6,712.5	6,670.0	6,670.0	18.0	133.7	15.33	-5,661.3	-778.1	5,964.7	5,839.2	125.49	47.532	
6,850.0	6,752.3	6,709.8	6,709.8	18.0	134.5	16.20	-5,661.3	-778.1	5,935.3	5,814.5	120.77	49.147	
6,889.7	6,782.5	6,740.0	6,740.0	18.0	135.1	17.02	-5,661.3	-778.1	5,910.0	5,793.2	116.78	50.609	
6,900.0	6,790.0	6,747.5	6,747.5	18.0	135.2	17.25	-5,661.3	-778.1	5,903.2	5,787.5	115.72	51.011	
6,950.0	6,825.3	6,782.8	6,782.8	18.0	135.9	18.53	-5,661.3	-778.1	5,868.7	5,758.1	110.55	53.088	
6,988.2	6,850.5	6,808.0	6,808.0	17.9	136.4	19.69	-5,661.3	-778.1	5,840.7	5,734.1	106.66	54.758	
7,000.0	6,858.0	6,815.5	6,815.5	17.9	136.6	20.09	-5,661.3	-778.1	5,831.8	5,726.3	105.50	55.280	
7,050.0	6,888.0	6,845.5	6,845.5	18.0	137.2	22.01	-5,661.3	-778.1	5,792.8	5,691.9	100.95	57.381	
7,086.6	6,908.1	6,865.6	6,865.6	18.0	137.6	23.71	-5,661.3	-778.1	5,763.1	5,664.8	98.25	58.657	
7,100.0	6,915.1	6,872.6	6,872.6	18.0	137.7	24.41	-5,661.3	-778.1	5,752.0	5,654.5	97.47	59.011	
7,150.0	6,939.2	6,896.7	6,896.7	18.0	138.2	27.44	-5,661.3	-778.1	5,709.3	5,613.5	95.81	59.592	
7,185.0	6,954.3	6,911.8	6,911.8	18.1	138.5	30.06	-5,661.3	-778.1	5,678.5	5,582.3	96.23	59.011	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 #18-12 - 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	6,960.3	6,917.8	6,917.8	18.1	138.6	31.33	-5,661.3	-778.1	5,665.2	5,568.3	96.91	58.457					
7,250.0	6,978.1	6,935.6	6,935.6	18.3	139.0	36.42	-5,661.3	-778.1	5,619.7	5,517.9	101.80	55.204					
7,283.4	6,988.2	6,945.7	6,945.7	18.4	139.2	40.71	-5,661.3	-778.1	5,588.7	5,481.1	107.58	51.948					
7,300.0	6,992.6	6,950.1	6,950.1	18.4	139.3	43.17	-5,661.3	-778.1	5,573.2	5,462.0	111.22	50.111					
7,350.0	7,003.7	6,961.2	6,961.2	18.7	139.5	52.17	-5,661.3	-778.1	5,525.9	5,400.8	125.01	44.205					
7,381.9	7,009.1	6,966.6	6,966.6	18.9	139.6	59.36	-5,661.3	-778.1	5,495.3	5,360.1	135.22	40.641					
7,400.0	7,011.4	6,968.9	6,968.9	19.0	139.7	63.98	-5,661.3	-778.1	5,477.9	5,336.9	141.00	38.849					
7,450.0	7,015.7	6,973.2	6,973.2	19.3	139.8	78.55	-5,661.3	-778.1	5,429.5	5,275.5	153.96	35.266					
7,480.3	7,016.6	6,974.1	6,974.1	19.6	139.8	88.19	-5,661.3	-778.1	5,400.1	5,242.6	157.50	34.288					
7,488.2	7,016.6	6,974.1	6,974.1	19.6	139.8	90.72	-5,661.3	-778.1	5,392.5	5,234.8	157.72	34.191					
7,500.0	7,016.6	6,974.1	6,974.1	19.7	139.8	90.72	-5,661.3	-778.1	5,381.0	5,223.2	157.83	34.094					
7,578.7	7,016.3	6,973.8	6,973.8	20.5	139.8	90.71	-5,661.3	-778.1	5,304.7	5,146.0	158.65	33.435					
7,600.0	7,016.2	6,973.7	6,973.7	20.7	139.8	90.71	-5,661.3	-778.1	5,284.0	5,125.2	158.88	33.259					
7,677.1	7,016.0	6,973.5	6,973.5	21.6	139.8	90.70	-5,661.3	-778.1	5,209.3	5,049.5	159.78	32.602					
7,700.0	7,015.9	6,973.4	6,973.4	21.8	139.8	90.69	-5,661.3	-778.1	5,187.2	5,027.1	160.05	32.409					
7,775.6	7,015.7	6,973.2	6,973.2	22.7	139.8	90.68	-5,661.3	-778.1	5,114.1	4,953.1	161.03	31.758					
7,800.0	7,015.6	6,973.1	6,973.1	23.0	139.8	90.68	-5,661.3	-778.1	5,090.5	4,929.1	161.35	31.550					
7,874.0	7,015.4	6,972.9	6,972.9	24.0	139.7	90.67	-5,661.3	-778.1	5,019.0	4,856.6	162.38	30.909					
7,900.0	7,015.3	6,972.8	6,972.8	24.4	139.7	90.67	-5,661.3	-778.1	4,993.9	4,831.1	162.74	30.687					
7,972.4	7,015.1	6,972.6	6,972.6	25.4	139.7	90.66	-5,661.3	-778.1	4,924.0	4,760.2	163.80	30.060					
8,000.0	7,015.0	6,972.5	6,972.5	25.8	139.7	90.65	-5,661.3	-778.1	4,897.4	4,733.2	164.21	29.824					
8,070.8	7,014.8	6,972.3	6,972.3	26.8	139.7	90.64	-5,661.3	-778.1	4,829.2	4,663.9	165.30	29.215					
8,100.0	7,014.7	6,972.2	6,972.2	27.3	139.7	90.64	-5,661.3	-778.1	4,801.1	4,635.4	165.75	28.966					
8,169.3	7,014.4	6,971.9	6,971.9	28.3	139.7	90.63	-5,661.3	-778.1	4,734.5	4,567.6	166.85	28.375					
8,200.0	7,014.4	6,971.9	6,971.9	28.8	139.7	90.63	-5,661.3	-778.1	4,704.9	4,537.6	167.34	28.116					
8,267.7	7,014.1	6,971.6	6,971.6	29.9	139.7	90.62	-5,661.3	-778.1	4,639.9	4,471.5	168.45	27.545					
8,300.0	7,014.0	6,971.5	6,971.5	30.4	139.7	90.61	-5,661.3	-778.1	4,609.0	4,440.0	168.98	27.275					
8,366.1	7,013.8	6,971.3	6,971.3	31.5	139.7	90.61	-5,661.3	-778.1	4,545.6	4,375.5	170.09	26.724					
8,400.0	7,013.7	6,971.2	6,971.2	32.0	139.7	90.60	-5,661.3	-778.1	4,513.1	4,342.5	170.66	26.445					
8,464.5	7,013.5	6,971.0	6,971.0	33.1	139.7	90.59	-5,661.3	-778.1	4,451.4	4,279.6	171.76	25.916					
8,500.0	7,013.4	6,970.9	6,970.9	33.7	139.7	90.59	-5,661.3	-778.1	4,417.5	4,245.1	172.37	25.628					
8,563.0	7,013.2	6,970.7	6,970.7	34.8	139.7	90.58	-5,661.3	-778.1	4,357.4	4,183.9	173.47	25.119					
8,600.0	7,013.1	6,970.6	6,970.6	35.4	139.7	90.57	-5,661.3	-778.1	4,322.1	4,148.0	174.11	24.824					
8,661.4	7,012.9	6,970.4	6,970.4	36.5	139.7	90.57	-5,661.3	-778.1	4,263.6	4,088.4	175.19	24.336					
8,700.0	7,012.8	6,970.3	6,970.3	37.1	139.7	90.56	-5,661.3	-778.1	4,226.8	4,051.0	175.87	24.033					
8,759.8	7,012.6	6,970.1	6,970.1	38.2	139.7	90.55	-5,661.3	-778.1	4,170.0	3,993.0	176.94	23.567					
8,800.0	7,012.4	6,969.9	6,969.9	38.9	139.7	90.55	-5,661.3	-778.1	4,131.8	3,954.2	177.66	23.257					
8,858.2	7,012.3	6,969.8	6,969.8	39.9	139.7	90.54	-5,661.3	-778.1	4,076.6	3,897.9	178.71	22.811					
8,900.0	7,012.1	6,969.6	6,969.6	40.7	139.7	90.53	-5,661.3	-778.1	4,037.1	3,857.6	179.46	22.496					
8,956.7	7,011.9	6,969.4	6,969.4	41.7	139.7	90.53	-5,661.3	-778.1	3,983.5	3,803.0	180.49	22.070					
9,000.0	7,011.8	6,969.3	6,969.3	42.4	139.7	90.52	-5,661.3	-778.1	3,942.6	3,761.3	181.28	21.749					
9,055.1	7,011.6	6,969.1	6,969.1	43.4	139.7	90.51	-5,661.3	-778.1	3,890.6	3,708.3	182.29	21.343					
9,100.0	7,011.5	6,969.0	6,969.0	44.2	139.7	90.51	-5,661.3	-778.1	3,848.4	3,665.2	183.11	21.017					
9,153.5	7,011.3	6,968.8	6,968.8	45.2	139.7	90.50	-5,661.3	-778.1	3,798.0	3,613.9	184.10	20.631					
9,200.0	7,011.2	6,968.7	6,968.7	46.1	139.7	90.49	-5,661.3	-778.1	3,754.4	3,569.5	184.95	20.299					
9,251.9	7,011.0	6,968.5	6,968.5	47.0	139.7	90.49	-5,661.3	-778.1	3,705.8	3,519.8	185.92	19.932					
9,300.0	7,010.9	6,968.4	6,968.4	47.9	139.7	90.48	-5,661.3	-778.1	3,660.8	3,474.0	186.81	19.597					
9,350.4	7,010.7	6,968.2	6,968.2	48.8	139.7	90.47	-5,661.3	-778.1	3,613.8	3,426.1	187.75	19.248					
9,400.0	7,010.5	6,968.0	6,968.0	49.7	139.6	90.47	-5,661.3	-778.1	3,567.6	3,378.9	188.67	18.909					
9,448.8	7,010.4	6,967.9	6,967.9	50.6	139.6	90.46	-5,661.3	-778.1	3,522.2	3,332.6	189.58	18.579					
9,500.0	7,010.2	6,967.7	6,967.7	51.6	139.6	90.45	-5,661.3	-778.1	3,474.7	3,284.1	190.54	18.236					
9,547.2	7,010.1	6,967.6	6,967.6	52.5	139.6	90.45	-5,661.3	-778.1	3,431.0	3,239.5	191.43	17.923					

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 #18-12 - 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					
9,600.0	7,009.9	6,967.4	6,967.4	53.5	139.6	90.44	-5,661.3	-778.1	3,382.2	3,189.8	192.42	17.577					
9,645.6	7,009.8	6,967.3	6,967.3	54.3	139.6	90.43	-5,661.3	-778.1	3,340.1	3,146.9	193.28	17.281					
9,700.0	7,009.6	6,967.1	6,967.1	55.3	139.6	90.42	-5,661.3	-778.1	3,290.2	3,095.9	194.31	16.933					
9,744.1	7,009.4	6,966.9	6,966.9	56.2	139.6	90.42	-5,661.3	-778.1	3,249.8	3,054.6	195.14	16.654					
9,800.0	7,009.3	6,966.8	6,966.8	57.2	139.6	90.41	-5,661.3	-778.1	3,198.6	3,002.4	196.20	16.303					
9,842.5	7,009.1	6,966.6	6,966.6	58.0	139.6	90.41	-5,661.3	-778.1	3,159.9	2,962.9	197.00	16.040					
9,900.0	7,008.9	6,966.4	6,966.4	59.1	139.6	90.40	-5,661.3	-778.1	3,107.6	2,909.5	198.09	15.688					
9,940.9	7,008.8	6,966.3	6,966.3	59.9	139.6	90.39	-5,661.3	-778.1	3,070.5	2,871.6	198.87	15.440					
10,000.0	7,008.6	6,966.1	6,966.1	61.0	139.6	90.38	-5,661.3	-778.1	3,017.1	2,817.1	199.99	15.086					
10,039.3	7,008.5	6,966.0	6,966.0	61.7	139.6	90.38	-5,661.3	-778.1	2,981.7	2,781.0	200.74	14.853					
10,100.0	7,008.3	6,965.8	6,965.8	62.9	139.6	90.37	-5,661.3	-778.1	2,927.3	2,725.4	201.90	14.499					
10,137.8	7,008.2	6,965.7	6,965.7	63.6	139.6	90.36	-5,661.3	-778.1	2,893.5	2,690.9	202.62	14.280					
10,200.0	7,008.0	6,965.5	6,965.5	64.8	139.6	90.36	-5,661.3	-778.1	2,838.1	2,634.3	203.81	13.925					
10,236.2	7,007.9	6,965.4	6,965.4	65.5	139.6	90.35	-5,661.3	-778.1	2,806.0	2,601.5	204.50	13.721					
10,300.0	7,007.6	6,965.1	6,965.1	66.7	139.6	90.34	-5,661.3	-778.1	2,749.7	2,544.0	205.72	13.366					
10,334.6	7,007.5	6,965.0	6,965.0	67.3	139.6	90.34	-5,661.3	-778.1	2,719.3	2,512.9	206.39	13.176					
10,400.0	7,007.3	6,964.8	6,964.8	68.6	139.6	90.33	-5,661.3	-778.1	2,662.1	2,454.5	207.64	12.821					
10,433.0	7,007.2	6,964.7	6,964.7	69.2	139.6	90.32	-5,661.3	-778.1	2,633.3	2,425.1	208.28	12.644					
10,500.0	7,007.0	6,964.5	6,964.5	70.5	139.6	90.31	-5,661.3	-778.1	2,575.4	2,365.8	209.56	12.289					
10,531.5	7,006.9	6,964.4	6,964.4	71.1	139.6	90.31	-5,661.3	-778.1	2,548.3	2,338.1	210.17	12.125					
10,600.0	7,006.7	6,964.2	6,964.2	72.4	139.6	90.30	-5,661.3	-778.1	2,489.7	2,278.2	211.48	11.773					
10,629.9	7,006.6	6,964.1	6,964.1	73.0	139.6	90.30	-5,661.3	-778.1	2,464.3	2,252.2	212.06	11.621					
10,700.0	7,006.4	6,963.9	6,963.9	74.3	139.6	90.29	-5,661.3	-778.1	2,405.1	2,191.7	213.41	11.270					
10,728.3	7,006.3	6,963.8	6,963.8	74.9	139.6	90.28	-5,661.3	-778.1	2,381.4	2,167.4	213.96	11.130					
10,800.0	7,006.0	6,963.5	6,963.5	76.3	139.6	90.27	-5,661.3	-778.1	2,321.7	2,106.4	215.34	10.782					
10,826.7	7,005.9	6,963.4	6,963.4	76.8	139.6	90.27	-5,661.3	-778.1	2,299.7	2,083.8	215.85	10.654					
10,900.0	7,005.7	6,963.2	6,963.2	78.2	139.6	90.26	-5,661.3	-778.1	2,239.7	2,022.5	217.27	10.309					
10,925.2	7,005.6	6,963.1	6,963.1	78.7	139.6	90.26	-5,661.3	-778.1	2,219.3	2,001.6	217.75	10.192					
11,000.0	7,005.4	6,962.9	6,962.9	80.1	139.5	90.24	-5,661.3	-778.1	2,159.2	1,940.0	219.20	9.851					
11,023.6	7,005.3	6,962.8	6,962.8	80.6	139.5	90.24	-5,661.3	-778.1	2,140.5	1,920.8	219.66	9.745					
11,100.0	7,005.1	6,962.6	6,962.6	82.0	139.5	90.23	-5,661.3	-778.1	2,080.4	1,859.3	221.13	9.408					
11,122.0	7,005.0	6,962.5	6,962.5	82.5	139.5	90.23	-5,661.3	-778.1	2,063.3	1,841.8	221.56	9.313					
11,200.0	7,004.7	6,962.2	6,962.2	84.0	139.5	90.22	-5,661.3	-778.1	2,003.5	1,780.5	223.07	8.982					
11,220.4	7,004.7	6,962.2	6,962.2	84.4	139.5	90.21	-5,661.3	-778.1	1,988.1	1,764.6	223.47	8.896					
11,300.0	7,004.4	6,961.9	6,961.9	85.9	139.5	90.20	-5,661.3	-778.1	1,928.7	1,703.7	225.01	8.572					
11,318.9	7,004.4	6,961.9	6,961.9	86.3	139.5	90.20	-5,661.3	-778.1	1,914.9	1,689.5	225.37	8.496					
11,400.0	7,004.1	6,961.6	6,961.6	87.8	139.5	90.19	-5,661.3	-778.1	1,856.3	1,629.4	226.95	8.180					
11,417.3	7,004.0	6,961.5	6,961.5	88.2	139.5	90.19	-5,661.3	-778.1	1,844.1	1,616.8	227.28	8.114					
11,500.0	7,003.8	6,961.3	6,961.3	89.8	139.5	90.17	-5,661.3	-778.1	1,786.6	1,557.7	228.89	7.806					
11,515.7	7,003.7	6,961.2	6,961.2	90.1	139.5	90.17	-5,661.3	-778.1	1,775.9	1,546.7	229.19	7.748					
11,600.0	7,003.4	6,960.9	6,960.9	91.7	139.5	90.16	-5,661.3	-778.1	1,719.8	1,489.0	230.83	7.451					
11,614.1	7,003.4	6,960.9	6,960.9	92.0	139.5	90.16	-5,661.3	-778.1	1,710.6	1,479.5	231.10	7.402					
11,700.0	7,003.1	6,960.6	6,960.6	93.7	139.5	90.15	-5,661.3	-778.1	1,656.4	1,423.6	232.77	7.116					
11,712.6	7,003.1	6,960.6	6,960.6	93.9	139.5	90.14	-5,661.3	-778.1	1,648.7	1,415.7	233.02	7.075					
11,800.0	7,002.8	6,960.3	6,960.3	95.6	139.5	90.13	-5,661.3	-778.1	1,596.8	1,362.0	234.72	6.803					
11,811.0	7,002.7	6,960.2	6,960.2	95.8	139.5	90.13	-5,661.3	-778.1	1,590.4	1,355.5	234.93	6.770					
11,900.0	7,002.5	6,960.0	6,960.0	97.6	139.5	90.12	-5,661.3	-778.1	1,541.3	1,304.6	236.66	6.513					
11,909.4	7,002.4	6,959.9	6,959.9	97.7	139.5	90.12	-5,661.3	-778.1	1,536.3	1,299.4	236.84	6.486					
12,000.0	7,002.1	6,959.6	6,959.6	99.5	139.5	90.10	-5,661.3	-778.1	1,490.5	1,251.9	238.61	6.247					
12,007.8	7,002.1	6,959.6	6,959.6	99.7	139.5	90.10	-5,661.3	-778.1	1,486.7	1,247.9	238.76	6.227					
12,100.0	7,001.8	6,959.3	6,959.3	101.5	139.5	90.09	-5,661.3	-778.1	1,444.8	1,204.2	240.56	6.006					
12,106.3	7,001.8	6,959.3	6,959.3	101.6	139.5	90.09	-5,661.3	-778.1	1,442.1	1,201.4	240.68	5.992					

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 #18-12 - 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
12,200.0	7,001.5	6,959.0	6,959.0	103.4	139.5	90.07	-5,661.3	-778.1	1,404.8	1,162.3	242.50	5.793	
12,204.7	7,001.5	6,959.0	6,959.0	103.5	139.5	90.07	-5,661.3	-778.1	1,403.0	1,160.4	242.60	5.783	
12,300.0	7,001.2	6,958.7	6,958.7	105.3	139.5	90.06	-5,661.3	-778.1	1,370.9	1,126.4	244.45	5.608	
12,303.1	7,001.1	6,958.6	6,958.6	105.4	139.5	90.06	-5,661.3	-778.1	1,369.9	1,125.4	244.51	5.603	
12,400.0	7,000.8	6,958.3	6,958.3	107.3	139.5	90.05	-5,661.3	-778.1	1,343.6	1,097.2	246.40	5.453	
12,401.5	7,000.8	6,958.3	6,958.3	107.3	139.5	90.05	-5,661.3	-778.1	1,343.2	1,096.8	246.43	5.451	
12,500.0	7,000.5	6,958.0	6,958.0	109.3	139.4	90.03	-5,661.3	-778.1	1,323.3	1,074.9	248.35	5.328	
12,598.4	7,000.2	6,957.7	6,957.7	111.2	139.4	90.02	-5,661.3	-778.1	1,310.5	1,060.2	250.27	5.236	
12,600.0	7,000.2	6,957.7	6,957.7	111.2	139.4	90.02	-5,661.3	-778.1	1,310.4	1,060.1	250.31	5.235	
12,696.8	6,999.8	6,957.3	6,957.3	113.1	139.4	90.00	-5,661.3	-778.1	1,305.0	1,052.8	252.20	5.175	
12,700.0	6,999.8	6,957.3	6,957.3	113.2	139.4	90.00	-5,661.3	-778.1	1,305.0	1,052.7	252.26	5.173	
12,720.4	6,999.8	6,957.3	6,957.3	113.6	139.4	90.00	-5,661.3	-778.1	1,304.8	1,052.2	252.66	5.164 CC, ES	
12,795.2	6,999.5	6,957.0	6,957.0	115.0	139.4	89.99	-5,661.3	-778.1	1,307.0	1,052.8	254.12	5.143	
12,800.0	6,999.5	6,957.0	6,957.0	115.1	139.4	89.99	-5,661.3	-778.1	1,307.2	1,053.0	254.21	5.142	
12,893.7	6,999.2	6,956.7	6,956.7	116.9	139.4	89.97	-5,661.3	-778.1	1,316.3	1,060.2	256.04	5.141 SF	
12,900.0	6,999.2	6,956.7	6,956.7	117.1	139.4	89.97	-5,661.3	-778.1	1,317.1	1,061.0	256.16	5.142	
12,992.1	6,998.9	6,956.4	6,956.4	118.9	139.4	89.96	-5,661.3	-778.1	1,332.8	1,074.8	257.96	5.167	
13,000.0	6,998.8	6,956.3	6,956.3	119.0	139.4	89.96	-5,661.3	-778.1	1,334.4	1,076.3	258.12	5.170	
13,090.5	6,998.6	6,956.1	6,956.1	120.8	139.4	89.95	-5,661.3	-778.1	1,356.3	1,096.4	259.89	5.219	
13,100.0	6,998.5	6,956.0	6,956.0	121.0	139.4	89.94	-5,661.3	-778.1	1,358.9	1,098.8	260.07	5.225	
13,188.9	6,998.2	6,955.7	6,955.7	122.7	139.4	89.93	-5,661.3	-778.1	1,386.4	1,124.6	261.81	5.295	
13,200.0	6,998.2	6,955.7	6,955.7	122.9	139.4	89.93	-5,661.3	-778.1	1,390.2	1,128.1	262.03	5.305	
13,287.4	6,997.9	6,955.4	6,955.4	124.6	139.4	89.92	-5,661.3	-778.1	1,422.7	1,158.9	263.74	5.394	
13,300.0	6,997.9	6,955.4	6,955.4	124.9	139.4	89.92	-5,661.3	-778.1	1,427.8	1,163.8	263.98	5.409	
13,385.8	6,997.6	6,955.1	6,955.1	126.6	139.4	89.90	-5,661.3	-778.1	1,464.7	1,199.0	265.66	5.513	
13,400.0	6,997.5	6,955.0	6,955.0	126.9	139.4	89.90	-5,661.3	-778.1	1,471.2	1,205.3	265.94	5.532	
13,484.2	6,997.3	6,954.8	6,954.8	128.5	139.4	89.89	-5,661.3	-778.1	1,512.0	1,244.4	267.59	5.650	
13,500.0	6,997.2	6,954.7	6,954.7	128.8	139.4	89.89	-5,661.3	-778.1	1,520.0	1,252.1	267.90	5.674	
13,582.6	6,996.9	6,954.4	6,954.4	130.4	139.4	89.87	-5,661.3	-778.1	1,564.0	1,294.5	269.52	5.803	
13,600.0	6,996.9	6,954.4	6,954.4	130.8	139.4	89.87	-5,661.3	-778.1	1,573.6	1,303.8	269.85	5.831	
13,681.1	6,996.6	6,954.1	6,954.1	132.4	139.4	89.86	-5,661.3	-778.1	1,620.3	1,348.9	271.44	5.969	
13,700.0	6,996.5	6,954.0	6,954.0	132.7	139.4	89.86	-5,661.3	-778.1	1,631.6	1,359.8	271.81	6.003	
13,779.5	6,996.3	6,953.8	6,953.8	134.3	139.4	89.85	-5,661.3	-778.1	1,680.6	1,407.2	273.37	6.148	
13,800.0	6,996.2	6,953.7	6,953.7	134.7	139.4	89.84	-5,661.3	-778.1	1,693.6	1,419.8	273.77	6.186	
13,877.9	6,995.9	6,953.4	6,953.4	136.2	139.4	89.83	-5,661.3	-778.1	1,744.3	1,469.0	275.30	6.336	
13,900.0	6,995.9	6,953.4	6,953.4	136.7	139.4	89.83	-5,661.3	-778.1	1,759.0	1,483.3	275.73	6.379	
13,976.3	6,995.6	6,953.1	6,953.1	138.2	139.3	89.82	-5,661.3	-778.1	1,811.1	1,533.9	277.22	6.533	
14,000.0	6,995.5	6,953.0	6,953.0	138.6	139.3	89.81	-5,661.3	-778.1	1,827.6	1,549.9	277.69	6.581	
14,074.8	6,995.3	6,952.8	6,952.8	140.1	139.3	89.80	-5,661.3	-778.1	1,880.7	1,601.5	279.15	6.737	
14,100.0	6,995.2	6,952.7	6,952.7	140.6	139.3	89.80	-5,661.3	-778.1	1,898.9	1,619.3	279.65	6.790	
14,162.0	6,995.0	6,952.5	6,952.5	141.8	139.3	89.79	-5,661.3	-778.1	1,944.4	1,663.6	280.82	6.924	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	176.19	-7,165.9	476.9	7,181.8				
98.4	98.4	80.9	80.9	0.1	0.6	176.19	-7,165.9	476.9	7,181.7	7,181.1	0.67	N/A	
100.0	100.0	82.5	82.5	0.1	0.6	176.19	-7,165.9	476.9	7,181.7	7,181.1	0.68	N/A	
196.8	196.8	179.3	179.3	0.3	2.6	176.19	-7,165.9	476.9	7,181.7	7,178.8	2.94	2,446.166	
200.0	200.0	182.5	182.5	0.3	2.7	176.19	-7,165.9	476.9	7,181.7	7,178.7	3.02	2,378.821	
295.3	295.3	277.8	277.8	0.5	4.7	176.19	-7,165.9	476.9	7,181.7	7,176.5	5.27	1,361.561	
300.0	300.0	282.5	282.5	0.5	4.8	176.19	-7,165.9	476.9	7,181.7	7,176.4	5.38	1,333.999	
393.7	393.7	376.2	376.2	0.8	6.8	176.19	-7,165.9	476.9	7,181.7	7,174.2	7.51	955.733	
400.0	400.0	382.5	382.5	0.8	6.9	176.19	-7,165.9	476.9	7,181.7	7,174.1	7.66	937.910	
492.1	492.1	474.6	474.6	1.0	8.8	176.19	-7,165.9	476.9	7,181.7	7,172.0	9.74	737.709	
500.0	500.0	482.5	482.5	1.0	8.9	176.19	-7,165.9	476.9	7,181.7	7,171.8	9.91	724.504	
590.5	590.5	573.0	573.0	1.2	10.7	176.19	-7,165.9	476.9	7,181.7	7,169.8	11.95	601.070	
600.0	600.0	582.5	582.5	1.2	10.9	176.19	-7,165.9	476.9	7,181.7	7,169.6	12.16	590.575	
689.0	689.0	671.5	671.5	1.4	12.7	176.19	-7,165.9	476.9	7,181.7	7,167.6	14.16	507.281	
700.0	700.0	682.5	682.5	1.4	13.0	176.19	-7,165.9	476.9	7,181.7	7,167.3	14.40	498.570	
787.4	787.4	769.9	769.9	1.6	14.7	176.19	-7,165.9	476.9	7,181.7	7,165.4	16.36	438.873	
800.0	800.0	782.5	782.5	1.7	15.0	176.19	-7,165.9	476.9	7,181.7	7,165.1	16.65	431.427	
885.8	885.8	868.3	868.3	1.9	16.7	176.19	-7,165.9	476.9	7,181.7	7,163.2	18.57	386.754	
900.0	900.0	882.5	882.5	1.9	17.0	176.19	-7,165.9	476.9	7,181.7	7,162.9	18.89	380.251	
984.2	984.2	966.7	966.7	2.1	18.7	176.19	-7,165.9	476.9	7,181.7	7,161.0	20.77	345.716	
1,000.0	1,000.0	982.5	982.5	2.1	19.0	176.19	-7,165.9	476.9	7,181.7	7,160.6	21.13	339.945	
1,082.7	1,082.7	1,065.2	1,065.2	2.3	20.7	176.19	-7,165.9	476.9	7,181.7	7,158.8	22.98	312.562	
1,100.0	1,100.0	1,082.5	1,082.5	2.3	21.0	176.19	-7,165.9	476.9	7,181.7	7,158.4	23.36	307.374	
1,181.1	1,181.1	1,163.6	1,163.6	2.5	22.7	113.62	-7,165.9	476.9	7,182.2	7,157.0	25.17	285.316	
1,200.0	1,200.0	1,182.5	1,182.5	2.6	23.0	113.62	-7,165.9	476.9	7,182.4	7,156.9	25.59	280.636	
1,279.5	1,279.4	1,261.9	1,261.9	2.7	24.6	113.62	-7,165.9	476.9	7,184.0	7,156.6	27.36	262.592	
1,300.0	1,299.8	1,282.3	1,282.3	2.8	25.0	113.62	-7,165.9	476.9	7,184.5	7,156.7	27.81	258.332	
1,377.9	1,377.5	1,360.0	1,360.0	3.0	26.6	113.62	-7,165.9	476.9	7,187.2	7,157.6	29.54	243.306	
1,400.0	1,399.5	1,382.0	1,382.0	3.0	27.0	113.62	-7,165.9	476.9	7,188.1	7,158.0	30.03	239.387	
1,476.4	1,475.3	1,457.8	1,457.8	3.2	28.6	113.62	-7,165.9	476.9	7,191.7	7,160.0	31.72	226.715	
1,500.0	1,498.7	1,481.2	1,481.2	3.2	29.0	113.62	-7,165.9	476.9	7,193.0	7,160.7	32.24	223.084	
1,574.8	1,572.6	1,555.1	1,555.1	3.5	30.5	113.62	-7,165.9	476.9	7,197.6	7,163.7	33.91	212.275	
1,600.0	1,597.5	1,580.0	1,580.0	3.5	31.0	113.62	-7,165.9	476.9	7,199.3	7,164.8	34.46	208.889	
1,673.2	1,669.4	1,651.9	1,651.9	3.7	32.5	113.61	-7,165.9	476.9	7,204.8	7,168.7	36.10	199.575	
1,700.0	1,695.7	1,678.2	1,678.2	3.8	33.0	113.61	-7,165.9	476.9	7,207.1	7,170.4	36.70	196.394	
1,771.6	1,765.7	1,748.2	1,748.2	4.1	34.4	113.72	-7,165.9	476.9	7,213.2	7,174.8	38.33	188.161	
1,800.0	1,793.4	1,775.9	1,775.9	4.2	35.0	113.76	-7,165.9	476.9	7,215.6	7,176.6	38.98	185.094	
1,870.1	1,862.0	1,844.5	1,844.5	4.4	36.4	113.86	-7,165.9	476.9	7,221.6	7,181.0	40.60	177.877	
1,900.0	1,891.3	1,873.8	1,873.8	4.5	36.9	113.91	-7,165.9	476.9	7,224.1	7,182.8	41.29	174.970	
1,968.5	1,958.3	1,940.8	1,940.8	4.8	38.3	114.01	-7,165.9	476.9	7,230.0	7,187.1	42.88	168.629	
2,000.0	1,989.1	1,971.6	1,971.6	4.9	38.9	114.06	-7,165.9	476.9	7,232.7	7,189.1	43.61	165.867	
2,066.9	2,054.5	2,037.0	2,037.0	5.2	40.2	114.16	-7,165.9	476.9	7,238.5	7,193.4	45.16	160.273	
2,100.0	2,086.9	2,069.4	2,069.4	5.3	40.9	114.20	-7,165.9	476.9	7,241.4	7,195.5	45.93	157.648	
2,165.3	2,150.8	2,133.3	2,133.3	5.6	42.2	114.30	-7,165.9	476.9	7,247.1	7,199.6	47.46	152.696	
2,200.0	2,184.7	2,167.2	2,167.2	5.7	42.8	114.35	-7,165.9	476.9	7,250.1	7,201.8	48.27	150.198	
2,263.8	2,247.1	2,229.6	2,229.6	5.9	44.1	114.44	-7,165.9	476.9	7,255.7	7,205.9	49.76	145.800	
2,300.0	2,282.5	2,265.0	2,265.0	6.1	44.8	114.50	-7,165.9	476.9	7,258.9	7,208.2	50.61	143.418	
2,362.2	2,343.4	2,325.9	2,325.9	6.4	46.0	114.59	-7,165.9	476.9	7,264.3	7,212.3	52.07	139.501	
2,400.0	2,380.3	2,362.8	2,362.8	6.5	46.8	114.64	-7,165.9	476.9	7,267.7	7,214.7	52.96	137.226	
2,460.6	2,439.6	2,422.1	2,422.1	6.8	48.0	114.73	-7,165.9	476.9	7,273.0	7,218.6	54.39	133.726	
2,500.0	2,478.1	2,460.6	2,460.6	6.9	48.7	114.79	-7,165.9	476.9	7,276.5	7,221.2	55.31	131.551	
2,559.0	2,535.9	2,518.4	2,518.4	7.2	49.9	114.88	-7,165.9	476.9	7,281.8	7,225.1	56.70	128.416	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,558.5	2,558.5	7.4	50.7	114.94	-7,165.9	476.9	7,285.4	7,227.8	57.67	126.332	
2,657.5	2,632.2	2,614.7	2,614.7	7.6	51.8	115.02	-7,165.9	476.9	7,290.6	7,231.5	59.02	123.518	
2,700.0	2,673.8	2,656.3	2,656.3	7.8	52.7	115.08	-7,165.9	476.9	7,294.4	7,234.3	60.03	121.518	
2,755.9	2,728.4	2,710.9	2,710.9	8.0	53.8	115.16	-7,165.9	476.9	7,299.4	7,238.0	61.35	118.987	
2,800.0	2,771.6	2,754.1	2,754.1	8.2	54.7	115.23	-7,165.9	476.9	7,303.4	7,241.0	62.39	117.065	
2,854.3	2,824.7	2,807.2	2,807.2	8.4	55.7	115.31	-7,165.9	476.9	7,308.3	7,244.6	63.67	114.783	
2,900.0	2,869.4	2,851.9	2,851.9	8.6	56.6	115.37	-7,165.9	476.9	7,312.4	7,247.7	64.75	112.935	
2,952.7	2,921.0	2,903.5	2,903.5	8.9	57.7	115.45	-7,165.9	476.9	7,317.2	7,251.2	66.00	110.874	
3,000.0	2,967.2	2,949.7	2,949.7	9.1	58.6	115.52	-7,165.9	476.9	7,321.5	7,254.4	67.11	109.093	
3,051.2	3,017.3	2,999.8	2,999.8	9.3	59.6	115.59	-7,165.9	476.9	7,326.2	7,257.9	68.32	107.230	
3,100.0	3,065.0	3,047.5	3,047.5	9.5	60.6	115.66	-7,165.9	476.9	7,330.7	7,261.2	69.48	105.513	
3,149.6	3,113.5	3,096.0	3,096.0	9.7	61.5	115.73	-7,165.9	476.9	7,335.2	7,264.6	70.65	103.825	
3,200.0	3,162.8	3,145.3	3,145.3	9.9	62.5	115.80	-7,165.9	476.9	7,339.8	7,268.0	71.84	102.167	
3,248.0	3,209.8	3,192.3	3,192.3	10.2	63.5	115.87	-7,165.9	476.9	7,344.3	7,271.3	72.98	100.637	
3,300.0	3,260.7	3,243.2	3,243.2	10.4	64.5	115.95	-7,165.9	476.9	7,349.1	7,274.9	74.21	99.034	
3,346.4	3,306.1	3,288.6	3,288.6	10.6	65.4	116.01	-7,165.9	476.9	7,353.4	7,278.1	75.31	97.646	
3,400.0	3,358.5	3,341.0	3,341.0	10.8	66.5	116.09	-7,165.9	476.9	7,358.4	7,281.8	76.57	96.096	
3,444.9	3,402.4	3,384.9	3,384.9	11.0	67.3	116.15	-7,165.9	476.9	7,362.5	7,284.9	77.64	94.835	
3,500.0	3,456.3	3,438.8	3,438.8	11.3	68.4	116.23	-7,165.9	476.9	7,367.7	7,288.8	78.94	93.333	
3,543.3	3,498.6	3,481.1	3,481.1	11.5	69.3	116.29	-7,165.9	476.9	7,371.8	7,291.8	79.96	92.188	
3,600.0	3,554.1	3,536.6	3,536.6	11.7	70.4	116.38	-7,165.9	476.9	7,377.1	7,295.8	81.31	90.732	
3,641.7	3,594.9	3,577.4	3,577.4	11.9	71.2	116.43	-7,165.9	476.9	7,381.0	7,298.7	82.29	89.691	
3,700.0	3,651.9	3,634.4	3,634.4	12.2	72.4	116.52	-7,165.9	476.9	7,386.5	7,302.8	83.67	88.278	
3,740.1	3,691.2	3,673.7	3,673.7	12.3	73.1	116.57	-7,165.9	476.9	7,390.3	7,305.7	84.62	87.332	
3,800.0	3,749.7	3,732.2	3,732.2	12.6	74.3	116.66	-7,165.9	476.9	7,396.0	7,309.9	86.04	85.960	
3,838.6	3,787.5	3,770.0	3,770.0	12.8	75.1	116.71	-7,165.9	476.9	7,399.6	7,312.7	86.95	85.100	
3,900.0	3,847.5	3,830.0	3,830.0	13.0	76.3	116.80	-7,165.9	476.9	7,405.5	7,317.1	88.41	83.767	
3,937.0	3,883.7	3,866.2	3,866.2	13.2	77.0	116.85	-7,165.9	476.9	7,409.0	7,319.7	89.28	82.985	
4,000.0	3,945.4	3,927.9	3,927.9	13.5	78.3	116.94	-7,165.9	476.9	7,415.1	7,324.3	90.77	81.688	
4,035.4	3,980.0	3,962.5	3,962.5	13.7	79.0	116.99	-7,165.9	476.9	7,418.5	7,326.8	91.61	80.978	
4,068.9	4,012.7	3,995.2	3,995.2	13.8	79.6	117.04	-7,165.9	476.9	7,421.7	7,329.3	92.40	80.319	
4,100.0	4,043.2	4,025.7	4,025.7	13.9	80.2	117.13	-7,165.9	476.9	7,424.6	7,331.4	93.16	79.701	
4,133.8	4,076.4	4,058.9	4,058.9	14.0	80.9	117.23	-7,165.9	476.9	7,427.6	7,333.6	93.95	79.058	
4,200.0	4,141.6	4,124.1	4,124.1	14.2	82.2	117.40	-7,165.9	476.9	7,432.9	7,337.4	95.51	77.826	
4,232.3	4,173.4	4,155.9	4,155.9	14.3	82.8	117.48	-7,165.9	476.9	7,435.3	7,339.1	96.26	77.245	
4,300.0	4,240.5	4,223.0	4,223.0	14.5	84.2	117.62	-7,165.9	476.9	7,439.7	7,341.9	97.83	76.050	
4,330.7	4,271.0	4,253.5	4,253.5	14.6	84.8	117.68	-7,165.9	476.9	7,441.5	7,343.0	98.53	75.526	
4,400.0	4,339.9	4,322.4	4,322.4	14.8	86.2	117.79	-7,165.9	476.9	7,444.9	7,344.8	100.11	74.367	
4,429.1	4,368.9	4,351.4	4,351.4	14.8	86.8	117.83	-7,165.9	476.9	7,446.1	7,345.4	100.76	73.897	
4,500.0	4,439.6	4,422.1	4,422.1	15.0	88.2	117.91	-7,165.9	476.9	7,448.5	7,346.2	102.35	72.775	
4,527.5	4,467.1	4,449.6	4,449.6	15.0	88.8	117.93	-7,165.9	476.9	7,449.2	7,346.2	102.95	72.354	
4,600.0	4,539.5	4,522.0	4,522.0	15.1	90.2	117.97	-7,165.9	476.9	7,450.4	7,345.9	104.54	71.269	
4,626.0	4,565.4	4,547.9	4,547.9	15.2	90.7	117.98	-7,165.9	476.9	7,450.7	7,345.6	105.10	70.892	
4,668.9	4,608.4	4,590.9	4,590.9	15.2	91.6	-179.45	-7,165.9	476.9	7,450.8	7,344.8	106.03	70.270	
4,700.0	4,639.5	4,622.0	4,622.0	15.3	92.2	-179.45	-7,165.9	476.9	7,450.8	7,344.1	106.70	69.830	
4,724.4	4,663.9	4,646.4	4,646.4	15.3	92.7	-179.45	-7,165.9	476.9	7,450.8	7,343.6	107.23	69.486	
4,800.0	4,739.5	4,722.0	4,722.0	15.4	94.2	-179.45	-7,165.9	476.9	7,450.8	7,342.0	108.86	68.442	
4,822.8	4,762.3	4,744.8	4,744.8	15.4	94.7	-179.45	-7,165.9	476.9	7,450.8	7,341.5	109.36	68.133	
4,900.0	4,839.5	4,822.0	4,822.0	15.6	96.2	-179.45	-7,165.9	476.9	7,450.8	7,339.8	111.03	67.107	
4,921.2	4,860.7	4,843.2	4,843.2	15.6	96.7	-179.45	-7,165.9	476.9	7,450.8	7,339.3	111.49	66.830	
5,000.0	4,939.5	4,922.0	4,922.0	15.7	98.3	-179.45	-7,165.9	476.9	7,450.8	7,337.6	113.20	65.822	
5,019.7	4,959.1	4,941.6	4,941.6	15.7	98.6	-179.45	-7,165.9	476.9	7,450.8	7,337.2	113.62	65.575	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	5,022.0	5,022.0	15.9	100.3	-179.45	-7,165.9	476.9	7,450.8	7,335.5	115.37	64.585	
5,118.1	5,057.6	5,040.1	5,040.1	15.9	100.6	-179.45	-7,165.9	476.9	7,450.8	7,335.1	115.76	64.365	
5,200.0	5,139.5	5,122.0	5,122.0	16.0	102.3	-179.45	-7,165.9	476.9	7,450.8	7,333.3	117.54	63.392	
5,216.5	5,156.0	5,138.5	5,138.5	16.0	102.6	-179.45	-7,165.9	476.9	7,450.8	7,332.9	117.90	63.199	
5,300.0	5,239.5	5,222.0	5,222.0	16.2	104.3	-179.45	-7,165.9	476.9	7,450.8	7,331.1	119.71	62.241	
5,314.9	5,254.4	5,236.9	5,236.9	16.2	104.6	-179.45	-7,165.9	476.9	7,450.8	7,330.8	120.03	62.073	
5,400.0	5,339.5	5,322.0	5,322.0	16.3	106.3	-179.45	-7,165.9	476.9	7,450.8	7,329.0	121.88	61.131	
5,413.4	5,352.8	5,335.3	5,335.3	16.3	106.6	-179.45	-7,165.9	476.9	7,450.8	7,328.7	122.17	60.985	
5,500.0	5,439.5	5,422.0	5,422.0	16.5	108.3	-179.45	-7,165.9	476.9	7,450.8	7,326.8	124.06	60.059	
5,511.8	5,451.3	5,433.8	5,433.8	16.5	108.5	-179.45	-7,165.9	476.9	7,450.8	7,326.5	124.32	59.935	
5,600.0	5,539.5	5,522.0	5,522.0	16.6	110.3	-179.45	-7,165.9	476.9	7,450.8	7,324.6	126.24	59.023	
5,610.2	5,549.7	5,532.2	5,532.2	16.6	110.5	-179.45	-7,165.9	476.9	7,450.8	7,324.4	126.46	58.919	
5,700.0	5,639.5	5,622.0	5,622.0	16.8	112.3	-179.45	-7,165.9	476.9	7,450.8	7,322.4	128.41	58.022	
5,708.6	5,648.1	5,630.6	5,630.6	16.8	112.5	-179.45	-7,165.9	476.9	7,450.8	7,322.2	128.60	57.937	
5,800.0	5,739.5	5,722.0	5,722.0	17.0	114.3	-179.45	-7,165.9	476.9	7,450.8	7,320.2	130.59	57.053	
5,807.1	5,746.5	5,729.0	5,729.0	17.0	114.5	-179.45	-7,165.9	476.9	7,450.8	7,320.1	130.75	56.986	
5,900.0	5,839.5	5,822.0	5,822.0	17.1	116.4	-179.45	-7,165.9	476.9	7,450.8	7,318.1	132.78	56.116	
5,905.5	5,845.0	5,827.5	5,827.5	17.1	116.5	-179.45	-7,165.9	476.9	7,450.8	7,317.9	132.90	56.065	
6,000.0	5,939.5	5,922.0	5,922.0	17.3	118.4	-179.45	-7,165.9	476.9	7,450.8	7,315.9	134.96	55.209	
6,003.9	5,943.4	5,925.9	5,925.9	17.3	118.4	-179.45	-7,165.9	476.9	7,450.8	7,315.8	135.04	55.174	
6,100.0	6,039.5	6,022.0	6,022.0	17.4	120.4	-179.45	-7,165.9	476.9	7,450.8	7,313.7	137.14	54.330	
6,102.3	6,041.8	6,024.3	6,024.3	17.4	120.4	-179.45	-7,165.9	476.9	7,450.8	7,313.6	137.19	54.309	
6,200.0	6,139.5	6,122.0	6,122.0	17.6	122.4	-179.45	-7,165.9	476.9	7,450.8	7,311.5	139.33	53.478	
6,200.8	6,140.2	6,122.7	6,122.7	17.6	122.4	-179.45	-7,165.9	476.9	7,450.8	7,311.5	139.34	53.471	
6,299.2	6,238.7	6,221.2	6,221.2	17.8	124.4	-179.45	-7,165.9	476.9	7,450.8	7,309.3	141.50	52.658	
6,300.0	6,239.5	6,222.0	6,222.0	17.8	124.4	-179.45	-7,165.9	476.9	7,450.8	7,309.3	141.51	52.651	
6,360.9	6,300.4	6,282.9	6,282.9	17.9	125.6	-179.45	-7,165.9	476.9	7,450.8	7,308.0	142.85	52.160	
6,397.6	6,337.1	6,319.6	6,319.6	17.9	126.4	0.34	-7,165.9	476.9	7,449.9	7,306.5	143.42	51.946	
6,400.0	6,339.5	6,322.0	6,322.0	17.9	126.4	0.34	-7,165.9	476.9	7,449.8	7,306.3	143.44	51.936	
6,450.0	6,389.2	6,371.7	6,371.7	18.0	127.4	0.34	-7,165.9	476.9	7,445.3	7,301.7	143.59	51.853	
6,496.0	6,434.7	6,417.2	6,417.2	18.0	128.3	0.35	-7,165.9	476.9	7,438.1	7,295.0	143.09	51.984	
6,500.0	6,438.6	6,421.1	6,421.1	18.0	128.4	0.35	-7,165.9	476.9	7,437.4	7,294.4	143.01	52.004	
6,550.0	6,487.3	6,469.8	6,469.8	18.0	129.4	0.35	-7,165.9	476.9	7,426.0	7,284.3	141.72	52.399	
6,594.5	6,529.8	6,512.3	6,512.3	18.0	130.2	0.36	-7,165.9	476.9	7,413.1	7,273.1	139.96	52.967	
6,600.0	6,535.1	6,517.6	6,517.6	18.1	130.3	0.36	-7,165.9	476.9	7,411.3	7,271.6	139.70	53.053	
6,650.0	6,581.7	6,564.2	6,564.2	18.0	131.3	0.37	-7,165.9	476.9	7,393.3	7,256.3	136.94	53.988	
6,692.9	6,620.6	6,603.1	6,603.1	18.0	132.1	0.38	-7,165.9	476.9	7,375.3	7,241.3	134.00	55.038	
6,700.0	6,626.9	6,609.4	6,609.4	18.0	132.2	0.38	-7,165.9	476.9	7,372.1	7,238.6	133.47	55.235	
6,750.0	6,670.6	6,653.1	6,653.1	18.0	133.1	0.40	-7,165.9	476.9	7,347.7	7,218.5	129.28	56.838	
6,791.3	6,705.4	6,687.9	6,687.9	18.0	133.8	0.42	-7,165.9	476.9	7,325.4	7,200.1	125.29	58.469	
6,800.0	6,712.5	6,695.0	6,695.0	18.0	133.9	0.42	-7,165.9	476.9	7,320.4	7,196.0	124.39	58.851	
6,850.0	6,752.3	6,734.8	6,734.8	18.0	134.7	0.45	-7,165.9	476.9	7,290.2	7,171.4	118.83	61.351	
6,889.7	6,782.5	6,765.0	6,765.0	18.0	135.3	0.47	-7,165.9	476.9	7,264.3	7,150.4	113.95	63.751	
6,900.0	6,790.0	6,772.5	6,772.5	18.0	135.5	0.48	-7,165.9	476.9	7,257.4	7,144.7	112.62	64.439	
6,950.0	6,825.3	6,807.8	6,807.8	18.0	136.2	0.51	-7,165.9	476.9	7,221.9	7,116.1	105.81	68.252	
6,988.2	6,850.5	6,833.0	6,833.0	17.9	136.7	0.55	-7,165.9	476.9	7,193.3	7,093.1	100.23	71.769	
7,000.0	6,858.0	6,840.5	6,840.5	17.9	136.8	0.56	-7,165.9	476.9	7,184.1	7,085.7	98.44	72.984	
7,050.0	6,888.0	6,870.5	6,870.5	18.0	137.4	0.62	-7,165.9	476.9	7,144.1	7,053.6	90.54	78.903	
7,086.6	6,908.1	6,890.6	6,890.6	18.0	137.8	0.67	-7,165.9	476.9	7,113.6	7,029.1	84.48	84.209	
7,100.0	6,915.1	6,897.6	6,897.6	18.0	138.0	0.69	-7,165.9	476.9	7,102.2	7,020.0	82.20	86.404	
7,150.0	6,939.2	6,921.7	6,921.7	18.0	138.5	0.79	-7,165.9	476.9	7,058.4	6,984.9	73.46	96.081	
7,185.0	6,954.3	6,936.8	6,936.8	18.1	138.8	0.88	-7,165.9	476.9	7,026.8	6,959.6	67.16	104.633	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,960.3	6,942.8	6,942.8	18.1	138.9	0.93	-7,165.9	476.9	7,013.0	6,948.6	64.42	108.865	
7,250.0	6,978.1	6,960.6	6,960.6	18.3	139.2	1.12	-7,165.9	476.9	6,966.3	6,911.2	55.16	126.286	
7,283.4	6,988.2	6,970.7	6,970.7	18.4	139.5	1.30	-7,165.9	476.9	6,934.4	6,885.5	48.91	141.766	
7,300.0	6,992.6	6,975.1	6,975.1	18.4	139.5	1.42	-7,165.9	476.9	6,918.5	6,872.7	45.82	150.979	
7,350.0	7,003.7	6,986.2	6,986.2	18.7	139.8	1.95	-7,165.9	476.9	6,869.8	6,833.1	36.65	187.438	
7,381.9	7,009.1	6,991.6	6,991.6	18.9	139.9	2.55	-7,165.9	476.9	6,838.3	6,807.1	31.22	219.053	
7,400.0	7,011.4	6,993.9	6,993.9	19.0	139.9	3.09	-7,165.9	476.9	6,820.4	6,791.8	28.56	238.845	
7,450.0	7,015.7	6,998.2	6,998.2	19.3	140.0	7.39	-7,165.9	476.9	6,770.6	6,741.2	29.41	230.210	
7,480.3	7,016.6	6,999.1	6,999.1	19.6	140.0	39.76	-7,165.9	476.9	6,740.3	6,638.5	101.81	66.202	
7,488.2	7,016.6	6,999.1	6,999.1	19.6	140.0	115.64	-7,165.9	476.9	6,732.4	6,588.7	143.68	46.855	
7,500.0	7,016.6	6,999.1	6,999.1	19.7	140.0	115.60	-7,165.9	476.9	6,720.6	6,576.7	143.84	46.723	
7,578.7	7,016.3	6,998.8	6,998.8	20.5	140.0	115.34	-7,165.9	476.9	6,641.9	6,497.0	144.91	45.836	
7,600.0	7,016.2	6,998.7	6,998.7	20.7	140.0	115.29	-7,165.9	476.9	6,620.6	6,475.4	145.18	45.604	
7,677.1	7,016.0	6,998.5	6,998.5	21.6	140.0	115.03	-7,165.9	476.9	6,543.4	6,397.1	146.31	44.722	
7,700.0	7,015.9	6,998.4	6,998.4	21.8	140.0	114.97	-7,165.9	476.9	6,520.6	6,374.0	146.63	44.469	
7,775.6	7,015.7	6,998.2	6,998.2	22.7	140.0	114.71	-7,165.9	476.9	6,445.0	6,297.2	147.82	43.599	
7,800.0	7,015.6	6,998.1	6,998.1	23.0	140.0	114.64	-7,165.9	476.9	6,420.6	6,272.4	148.19	43.326	
7,874.0	7,015.4	6,997.9	6,997.9	24.0	140.0	114.39	-7,165.9	476.9	6,346.6	6,197.2	149.42	42.474	
7,900.0	7,015.3	6,997.8	6,997.8	24.4	140.0	114.32	-7,165.9	476.9	6,320.6	6,170.8	149.84	42.182	
7,972.4	7,015.1	6,997.6	6,997.6	25.4	140.0	114.07	-7,165.9	476.9	6,248.2	6,097.1	151.10	41.352	
8,000.0	7,015.0	6,997.5	6,997.5	25.8	140.0	113.99	-7,165.9	476.9	6,220.6	6,069.0	151.56	41.044	
8,070.8	7,014.8	6,997.3	6,997.3	26.8	140.0	113.75	-7,165.9	476.9	6,149.7	5,996.9	152.83	40.238	
8,100.0	7,014.7	6,997.2	6,997.2	27.3	140.0	113.66	-7,165.9	476.9	6,120.6	5,967.3	153.34	39.914	
8,169.3	7,014.4	6,996.9	6,996.9	28.3	140.0	113.42	-7,165.9	476.9	6,051.3	5,896.7	154.63	39.135	
8,200.0	7,014.4	6,996.9	6,996.9	28.8	140.0	113.33	-7,165.9	476.9	6,020.6	5,865.4	155.18	38.798	
8,267.7	7,014.1	6,996.6	6,996.6	29.9	140.0	113.10	-7,165.9	476.9	5,952.9	5,796.4	156.46	38.046	
8,300.0	7,014.0	6,996.5	6,996.5	30.4	140.0	113.00	-7,165.9	476.9	5,920.6	5,763.5	157.06	37.696	
8,366.1	7,013.8	6,996.3	6,996.3	31.5	140.0	112.77	-7,165.9	476.9	5,854.5	5,696.1	158.34	36.973	
8,400.0	7,013.7	6,996.2	6,996.2	32.0	140.0	112.66	-7,165.9	476.9	5,820.6	5,661.6	158.98	36.611	
8,464.5	7,013.5	6,996.0	6,996.0	33.1	140.0	112.44	-7,165.9	476.9	5,756.1	5,595.8	160.26	35.918	
8,500.0	7,013.4	6,995.9	6,995.9	33.7	140.0	112.33	-7,165.9	476.9	5,720.6	5,559.7	160.94	35.545	
8,563.0	7,013.2	6,995.7	6,995.7	34.8	140.0	112.10	-7,165.9	476.9	5,657.6	5,495.4	162.20	34.881	
8,600.0	7,013.1	6,995.6	6,995.6	35.4	140.0	111.99	-7,165.9	476.9	5,620.6	5,457.7	162.93	34.498	
8,661.4	7,012.9	6,995.4	6,995.4	36.5	139.9	111.77	-7,165.9	476.9	5,559.2	5,395.0	164.17	33.863	
8,700.0	7,012.8	6,995.3	6,995.3	37.1	139.9	111.65	-7,165.9	476.9	5,520.6	5,355.7	164.94	33.471	
8,759.8	7,012.6	6,995.1	6,995.1	38.2	139.9	111.43	-7,165.9	476.9	5,460.8	5,294.6	166.16	32.864	
8,800.0	7,012.4	6,994.9	6,994.9	38.9	139.9	111.30	-7,165.9	476.9	5,420.6	5,253.6	166.97	32.464	
8,858.2	7,012.3	6,994.8	6,994.8	39.9	139.9	111.09	-7,165.9	476.9	5,362.4	5,194.2	168.18	31.885	
8,900.0	7,012.1	6,994.6	6,994.6	40.7	139.9	110.96	-7,165.9	476.9	5,320.6	5,151.6	169.03	31.478	
8,956.7	7,011.9	6,994.4	6,994.4	41.7	139.9	110.75	-7,165.9	476.9	5,264.0	5,093.7	170.21	30.927	
9,000.0	7,011.8	6,994.3	6,994.3	42.4	139.9	110.61	-7,165.9	476.9	5,220.6	5,049.5	171.10	30.512	
9,055.1	7,011.6	6,994.1	6,994.1	43.4	139.9	110.41	-7,165.9	476.9	5,165.5	4,993.3	172.26	29.988	
9,100.0	7,011.5	6,994.0	6,994.0	44.2	139.9	110.26	-7,165.9	476.9	5,120.6	4,947.4	173.19	29.567	
9,153.5	7,011.3	6,993.8	6,993.8	45.2	139.9	110.07	-7,165.9	476.9	5,067.1	4,892.8	174.32	29.068	
9,200.0	7,011.2	6,993.7	6,993.7	46.1	139.9	109.91	-7,165.9	476.9	5,020.6	4,845.3	175.29	28.642	
9,251.9	7,011.0	6,993.5	6,993.5	47.0	139.9	109.72	-7,165.9	476.9	4,968.7	4,792.3	176.39	28.168	
9,300.0	7,010.9	6,993.4	6,993.4	47.9	139.9	109.55	-7,165.9	476.9	4,920.6	4,743.2	177.40	27.737	
9,350.4	7,010.7	6,993.2	6,993.2	48.8	139.9	109.37	-7,165.9	476.9	4,870.3	4,691.8	178.48	27.287	
9,400.0	7,010.5	6,993.0	6,993.0	49.7	139.9	109.20	-7,165.9	476.9	4,820.6	4,641.1	179.53	26.851	
9,448.8	7,010.4	6,992.9	6,992.9	50.6	139.9	109.02	-7,165.9	476.9	4,771.8	4,591.3	180.58	26.425	
9,500.0	7,010.2	6,992.7	6,992.7	51.6	139.9	108.84	-7,165.9	476.9	4,720.7	4,539.0	181.67	25.985	
9,547.2	7,010.1	6,992.6	6,992.6	52.5	139.9	108.67	-7,165.9	476.9	4,673.4	4,490.7	182.69	25.582	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,600.0	7,009.9	6,992.4	6,992.4	53.5	139.9	108.48	-7,165.9	476.9	4,620.7	4,436.8	183.81	25.138	
9,645.6	7,009.8	6,992.3	6,992.3	54.3	139.9	108.31	-7,165.9	476.9	4,575.0	4,390.2	184.80	24.756	
9,700.0	7,009.6	6,992.1	6,992.1	55.3	139.9	108.12	-7,165.9	476.9	4,520.7	4,334.7	185.97	24.309	
9,744.1	7,009.4	6,991.9	6,991.9	56.2	139.9	107.96	-7,165.9	476.9	4,476.6	4,289.7	186.92	23.949	
9,800.0	7,009.3	6,991.8	6,991.8	57.2	139.9	107.76	-7,165.9	476.9	4,420.7	4,232.5	188.13	23.498	
9,842.5	7,009.1	6,991.6	6,991.6	58.0	139.9	107.60	-7,165.9	476.9	4,378.2	4,189.1	189.05	23.158	
9,900.0	7,008.9	6,991.4	6,991.4	59.1	139.9	107.39	-7,165.9	476.9	4,320.7	4,130.4	190.29	22.705	
9,940.9	7,008.8	6,991.3	6,991.3	59.9	139.9	107.24	-7,165.9	476.9	4,279.8	4,088.6	191.19	22.385	
10,000.0	7,008.6	6,991.1	6,991.1	61.0	139.9	107.02	-7,165.9	476.9	4,220.7	4,028.2	192.47	21.929	
10,039.3	7,008.5	6,991.0	6,991.0	61.7	139.9	106.87	-7,165.9	476.9	4,181.3	3,988.0	193.33	21.628	
10,100.0	7,008.3	6,990.8	6,990.8	62.9	139.9	106.66	-7,165.9	476.9	4,120.7	3,926.0	194.65	21.170	
10,137.8	7,008.2	6,990.7	6,990.7	63.6	139.9	106.51	-7,165.9	476.9	4,082.9	3,887.4	195.47	20.887	
10,200.0	7,008.0	6,990.5	6,990.5	64.8	139.8	106.28	-7,165.9	476.9	4,020.7	3,823.9	196.83	20.427	
10,236.2	7,007.9	6,990.4	6,990.4	65.5	139.8	106.15	-7,165.9	476.9	3,984.5	3,786.9	197.62	20.162	
10,300.0	7,007.6	6,990.1	6,990.1	66.7	139.8	105.91	-7,165.9	476.9	3,920.7	3,721.7	199.01	19.701	
10,334.6	7,007.5	6,990.0	6,990.0	67.3	139.8	105.78	-7,165.9	476.9	3,886.1	3,686.3	199.77	19.452	
10,400.0	7,007.3	6,989.8	6,989.8	68.6	139.8	105.54	-7,165.9	476.9	3,820.7	3,619.5	201.20	18.989	
10,433.0	7,007.2	6,989.7	6,989.7	69.2	139.8	105.41	-7,165.9	476.9	3,787.7	3,585.7	201.93	18.757	
10,500.0	7,007.0	6,989.5	6,989.5	70.5	139.8	105.16	-7,165.9	476.9	3,720.7	3,517.3	203.39	18.293	
10,531.5	7,006.9	6,989.4	6,989.4	71.1	139.8	105.04	-7,165.9	476.9	3,689.2	3,485.2	204.09	18.077	
10,600.0	7,006.7	6,989.2	6,989.2	72.4	139.8	104.78	-7,165.9	476.9	3,620.7	3,415.1	205.59	17.612	
10,629.9	7,006.6	6,989.1	6,989.1	73.0	139.8	104.66	-7,165.9	476.9	3,590.8	3,384.6	206.25	17.410	
10,700.0	7,006.4	6,988.9	6,988.9	74.3	139.8	104.40	-7,165.9	476.9	3,520.7	3,312.9	207.78	16.944	
10,728.3	7,006.3	6,988.8	6,988.8	74.9	139.8	104.29	-7,165.9	476.9	3,492.4	3,284.0	208.41	16.758	
10,800.0	7,006.0	6,988.5	6,988.5	76.3	139.8	104.02	-7,165.9	476.9	3,420.7	3,210.8	209.98	16.291	
10,826.7	7,005.9	6,988.4	6,988.4	76.8	139.8	103.91	-7,165.9	476.9	3,394.0	3,183.4	210.57	16.118	
10,900.0	7,005.7	6,988.2	6,988.2	78.2	139.8	103.63	-7,165.9	476.9	3,320.7	3,108.6	212.17	15.651	
10,925.2	7,005.6	6,988.1	6,988.1	78.7	139.8	103.53	-7,165.9	476.9	3,295.6	3,082.8	212.73	15.492	
11,000.0	7,005.4	6,987.9	6,987.9	80.1	139.8	103.25	-7,165.9	476.9	3,220.8	3,006.4	214.37	15.024	
11,023.6	7,005.3	6,987.8	6,987.8	80.6	139.8	103.15	-7,165.9	476.9	3,197.2	2,982.3	214.89	14.878	
11,100.0	7,005.1	6,987.6	6,987.6	82.0	139.8	102.86	-7,165.9	476.9	3,120.8	2,904.2	216.56	14.410	
11,122.0	7,005.0	6,987.5	6,987.5	82.5	139.8	102.77	-7,165.9	476.9	3,098.7	2,881.7	217.05	14.277	
11,200.0	7,004.7	6,987.2	6,987.2	84.0	139.8	102.47	-7,165.9	476.9	3,020.8	2,802.0	218.76	13.809	
11,220.4	7,004.7	6,987.2	6,987.2	84.4	139.8	102.39	-7,165.9	476.9	3,000.3	2,781.1	219.21	13.687	
11,300.0	7,004.4	6,986.9	6,986.9	85.9	139.8	102.08	-7,165.9	476.9	2,920.8	2,699.8	220.95	13.219	
11,318.9	7,004.4	6,986.9	6,986.9	86.3	139.8	102.00	-7,165.9	476.9	2,901.9	2,680.5	221.37	13.109	
11,400.0	7,004.1	6,986.6	6,986.6	87.8	139.8	101.68	-7,165.9	476.9	2,820.8	2,597.7	223.14	12.641	
11,417.3	7,004.0	6,986.5	6,986.5	88.2	139.8	101.61	-7,165.9	476.9	2,803.5	2,580.0	223.52	12.542	
11,500.0	7,003.8	6,986.3	6,986.3	89.8	139.8	101.29	-7,165.9	476.9	2,720.8	2,495.5	225.33	12.075	
11,515.7	7,003.7	6,986.2	6,986.2	90.1	139.8	101.22	-7,165.9	476.9	2,705.1	2,479.4	225.68	11.987	
11,600.0	7,003.4	6,985.9	6,985.9	91.7	139.8	100.89	-7,165.9	476.9	2,620.8	2,393.3	227.52	11.519	
11,614.1	7,003.4	6,985.9	6,985.9	92.0	139.8	100.83	-7,165.9	476.9	2,606.7	2,378.9	227.83	11.442	
11,700.0	7,003.1	6,985.6	6,985.6	93.7	139.8	100.49	-7,165.9	476.9	2,520.8	2,291.1	229.70	10.975	
11,712.6	7,003.1	6,985.6	6,985.6	93.9	139.8	100.44	-7,165.9	476.9	2,508.3	2,278.3	229.97	10.907	
11,800.0	7,002.8	6,985.3	6,985.3	95.6	139.7	100.09	-7,165.9	476.9	2,420.9	2,189.0	231.88	10.440	
11,811.0	7,002.7	6,985.2	6,985.2	95.8	139.7	100.05	-7,165.9	476.9	2,409.9	2,177.7	232.12	10.382	
11,900.0	7,002.5	6,985.0	6,985.0	97.6	139.7	99.69	-7,165.9	476.9	2,320.9	2,086.8	234.05	9.916	
11,909.4	7,002.4	6,984.9	6,984.9	97.7	139.7	99.65	-7,165.9	476.9	2,311.5	2,077.2	234.25	9.867	
12,000.0	7,002.1	6,984.6	6,984.6	99.5	139.7	99.29	-7,165.9	476.9	2,220.9	1,984.7	236.22	9.402	
12,007.8	7,002.1	6,984.6	6,984.6	99.7	139.7	99.26	-7,165.9	476.9	2,213.1	1,976.7	236.39	9.362	
12,100.0	7,001.8	6,984.3	6,984.3	101.5	139.7	98.88	-7,165.9	476.9	2,120.9	1,882.5	238.38	8.897	
12,106.3	7,001.8	6,984.3	6,984.3	101.6	139.7	98.86	-7,165.9	476.9	2,114.6	1,876.1	238.52	8.866	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,200.0	7,001.5	6,984.0	6,984.0	103.4	139.7	98.48	-7,165.9	476.9	2,020.9	1,780.4	240.54	8.402	
12,204.7	7,001.5	6,984.0	6,984.0	103.5	139.7	98.46	-7,165.9	476.9	2,016.2	1,775.6	240.64	8.379	
12,300.0	7,001.2	6,983.7	6,983.7	105.3	139.7	98.07	-7,165.9	476.9	1,921.0	1,678.3	242.69	7.915	
12,303.1	7,001.1	6,983.6	6,983.6	105.4	139.7	98.06	-7,165.9	476.9	1,917.8	1,675.1	242.76	7.900	
12,400.0	7,000.8	6,983.3	6,983.3	107.3	139.7	97.66	-7,165.9	476.9	1,821.0	1,576.2	244.84	7.438	
12,401.5	7,000.8	6,983.3	6,983.3	107.3	139.7	97.65	-7,165.9	476.9	1,819.4	1,574.6	244.87	7.430	
12,500.0	7,000.5	6,983.0	6,983.0	109.3	139.7	97.25	-7,165.9	476.9	1,721.0	1,474.1	246.98	6.968	
12,598.4	7,000.2	6,982.7	6,982.7	111.2	139.7	96.84	-7,165.9	476.9	1,622.7	1,373.6	249.08	6.515	
12,600.0	7,000.2	6,982.7	6,982.7	111.2	139.7	96.84	-7,165.9	476.9	1,621.1	1,372.0	249.11	6.507	
12,696.8	6,999.8	6,982.3	6,982.3	113.1	139.7	96.43	-7,165.9	476.9	1,524.3	1,273.1	251.17	6.069	
12,700.0	6,999.8	6,982.3	6,982.3	113.2	139.7	96.43	-7,165.9	476.9	1,521.1	1,269.9	251.23	6.055	
12,795.2	6,999.5	6,982.0	6,982.0	115.0	139.7	96.03	-7,165.9	476.9	1,425.9	1,172.7	253.25	5.630	
12,800.0	6,999.5	6,982.0	6,982.0	115.1	139.7	96.01	-7,165.9	476.9	1,421.2	1,167.8	253.35	5.610	
12,893.7	6,999.2	6,981.7	6,981.7	116.9	139.7	95.62	-7,165.9	476.9	1,327.5	1,072.2	255.32	5.199	
12,900.0	6,999.2	6,981.7	6,981.7	117.1	139.7	95.59	-7,165.9	476.9	1,321.2	1,065.8	255.45	5.172	
12,992.1	6,998.9	6,981.4	6,981.4	118.9	139.7	95.21	-7,165.9	476.9	1,229.2	971.8	257.39	4.776	
13,000.0	6,998.8	6,981.3	6,981.3	119.0	139.7	95.18	-7,165.9	476.9	1,221.3	963.7	257.55	4.742	
13,090.5	6,998.6	6,981.1	6,981.1	120.8	139.7	94.80	-7,165.9	476.9	1,130.8	871.4	259.44	4.359	
13,100.0	6,998.5	6,981.0	6,981.0	121.0	139.7	94.76	-7,165.9	476.9	1,121.3	861.7	259.64	4.319	
13,188.9	6,998.2	6,980.7	6,980.7	122.7	139.7	94.38	-7,165.9	476.9	1,032.5	771.0	261.49	3.948	
13,200.0	6,998.2	6,980.7	6,980.7	122.9	139.7	94.34	-7,165.9	476.9	1,021.4	759.7	261.72	3.903	
13,287.4	6,997.9	6,980.4	6,980.4	124.6	139.6	93.97	-7,165.9	476.9	934.1	670.6	263.53	3.545	
13,300.0	6,997.9	6,980.4	6,980.4	124.9	139.6	93.92	-7,165.9	476.9	921.5	657.7	263.79	3.493	
13,385.8	6,997.6	6,980.1	6,980.1	126.6	139.6	93.55	-7,165.9	476.9	835.8	570.3	265.55	3.148	
13,400.0	6,997.5	6,980.0	6,980.0	126.9	139.6	93.50	-7,165.9	476.9	821.7	555.8	265.84	3.091	
13,484.2	6,997.3	6,979.8	6,979.8	128.5	139.6	93.14	-7,165.9	476.9	737.6	470.0	267.57	2.757	
13,500.0	6,997.2	6,979.7	6,979.7	128.8	139.6	93.07	-7,165.9	476.9	721.8	453.9	267.89	2.695	
13,582.6	6,996.9	6,979.4	6,979.4	130.4	139.6	92.72	-7,165.9	476.9	639.4	369.8	269.57	2.372	
13,600.0	6,996.9	6,979.4	6,979.4	130.8	139.6	92.65	-7,165.9	476.9	622.1	352.1	269.92	2.305	
13,681.1	6,996.6	6,979.1	6,979.1	132.4	139.6	92.30	-7,165.9	476.9	541.2	269.6	271.57	1.993	
13,700.0	6,996.5	6,979.0	6,979.0	132.7	139.6	92.23	-7,165.9	476.9	522.4	250.4	271.95	1.921	
13,779.5	6,996.3	6,978.8	6,978.8	134.3	139.6	91.89	-7,165.9	476.9	443.2	169.6	273.55	1.620	
13,800.0	6,996.2	6,978.7	6,978.7	134.7	139.6	91.80	-7,165.9	476.9	422.8	148.8	273.96	1.543	
13,877.9	6,995.9	6,978.4	6,978.4	136.2	139.6	91.47	-7,165.9	476.9	345.4	69.9	275.52	1.254 Level 3	
13,900.0	6,995.9	6,978.4	6,978.4	136.7	139.6	91.37	-7,165.9	476.9	323.5	47.6	275.96	1.172 Level 2	
13,976.3	6,995.6	6,978.1	6,978.1	138.2	139.6	91.05	-7,165.9	476.9	248.1	-29.3	277.47	0.894 Level 1	
14,000.0	6,995.5	6,978.0	6,978.0	138.6	139.6	90.95	-7,165.9	476.9	224.9	-53.0	277.94	0.809 Level 1	
14,074.8	6,995.3	6,977.8	6,977.8	140.1	139.6	90.62	-7,165.9	476.9	152.3	-127.1	279.42	0.545 Level 1	
14,100.0	6,995.2	6,977.7	6,977.7	140.6	139.6	90.52	-7,165.9	476.9	128.4	-151.5	279.91	0.459 Level 1	
14,162.0	6,995.0	6,977.5	6,977.5	141.8	139.6	90.25	-7,165.9	476.9	73.4	-207.7	281.09	0.261 Level 1, CC, ES, SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	175.42	-5,573.9	446.2	5,591.8				
98.4	98.4	70.9	70.9	0.1	0.6	175.42	-5,573.9	446.2	5,591.7	5,591.0	0.69	8,100.070	
100.0	100.0	72.5	72.5	0.1	0.6	175.42	-5,573.9	446.2	5,591.7	5,591.0	0.71	7,928.028	
196.8	196.8	169.3	169.3	0.3	2.5	175.42	-5,573.9	446.2	5,591.7	5,588.9	2.80	1,995.534	
200.0	200.0	172.5	172.5	0.3	2.6	175.42	-5,573.9	446.2	5,591.7	5,588.8	2.88	1,938.827	
295.3	295.3	267.8	267.8	0.5	4.6	175.42	-5,573.9	446.2	5,591.7	5,586.5	5.16	1,083.039	
300.0	300.0	272.5	272.5	0.5	4.7	175.42	-5,573.9	446.2	5,591.7	5,586.4	5.27	1,060.648	
393.7	393.7	366.2	366.2	0.8	6.6	175.42	-5,573.9	446.2	5,591.7	5,584.3	7.41	754.895	
400.0	400.0	372.5	372.5	0.8	6.8	175.42	-5,573.9	446.2	5,591.7	5,584.2	7.55	740.614	
492.1	492.1	464.6	464.6	1.0	8.7	175.42	-5,573.9	446.2	5,591.7	5,582.1	9.63	580.656	
500.0	500.0	472.5	472.5	1.0	8.8	175.42	-5,573.9	446.2	5,591.7	5,581.9	9.81	570.148	
590.5	590.5	563.0	563.0	1.2	10.6	175.42	-5,573.9	446.2	5,591.7	5,579.9	11.84	472.109	
600.0	600.0	572.5	572.5	1.2	10.8	175.42	-5,573.9	446.2	5,591.7	5,579.7	12.06	463.793	
689.0	689.0	661.5	661.5	1.4	12.6	175.42	-5,573.9	446.2	5,591.7	5,577.7	14.05	397.878	
700.0	700.0	672.5	672.5	1.4	12.9	175.42	-5,573.9	446.2	5,591.7	5,577.4	14.30	390.995	
787.4	787.4	759.9	759.9	1.6	14.6	175.42	-5,573.9	446.2	5,591.7	5,575.5	16.26	343.872	
800.0	800.0	772.5	772.5	1.7	14.9	175.42	-5,573.9	446.2	5,591.7	5,575.2	16.54	338.001	
885.8	885.8	858.3	858.3	1.9	16.6	175.42	-5,573.9	446.2	5,591.7	5,573.2	18.47	302.801	
900.0	900.0	872.5	872.5	1.9	16.9	175.42	-5,573.9	446.2	5,591.7	5,572.9	18.78	297.682	
984.2	984.2	956.7	956.7	2.1	18.6	175.42	-5,573.9	446.2	5,591.7	5,571.0	20.67	270.509	
1,000.0	1,000.0	972.5	972.5	2.1	18.9	175.42	-5,573.9	446.2	5,591.7	5,570.7	21.02	265.971	
1,082.7	1,082.7	1,055.2	1,055.2	2.3	20.6	175.42	-5,573.9	446.2	5,591.7	5,568.8	22.87	244.449	
1,100.0	1,100.0	1,072.5	1,072.5	2.3	20.9	175.42	-5,573.9	446.2	5,591.7	5,568.5	23.26	240.373	
1,181.1	1,181.1	1,153.6	1,153.6	2.5	22.6	112.86	-5,573.9	446.2	5,592.2	5,567.1	25.07	223.054	
1,200.0	1,200.0	1,172.5	1,172.5	2.6	22.9	112.86	-5,573.9	446.2	5,592.4	5,566.9	25.49	219.382	
1,279.5	1,279.4	1,251.9	1,251.9	2.7	24.5	112.87	-5,573.9	446.2	5,593.9	5,566.6	27.26	205.231	
1,300.0	1,299.8	1,272.3	1,272.3	2.8	24.9	112.87	-5,573.9	446.2	5,594.4	5,566.7	27.71	201.892	
1,377.9	1,377.5	1,350.0	1,350.0	3.0	26.5	112.89	-5,573.9	446.2	5,597.0	5,567.5	29.44	190.120	
1,400.0	1,399.5	1,372.0	1,372.0	3.0	26.9	112.89	-5,573.9	446.2	5,597.8	5,567.9	29.93	187.051	
1,476.4	1,475.3	1,447.8	1,447.8	3.2	28.5	112.91	-5,573.9	446.2	5,601.3	5,569.7	31.62	177.134	
1,500.0	1,498.7	1,471.2	1,471.2	3.2	28.9	112.92	-5,573.9	446.2	5,602.6	5,570.5	32.14	174.294	
1,574.8	1,572.6	1,545.1	1,545.1	3.5	30.4	112.94	-5,573.9	446.2	5,607.1	5,573.3	33.81	165.843	
1,600.0	1,597.5	1,570.0	1,570.0	3.5	30.9	112.95	-5,573.9	446.2	5,608.8	5,574.4	34.37	163.197	
1,673.2	1,669.4	1,641.9	1,641.9	3.7	32.4	112.97	-5,573.9	446.2	5,614.2	5,578.2	36.01	155.922	
1,700.0	1,695.7	1,668.2	1,668.2	3.8	32.9	112.98	-5,573.9	446.2	5,616.3	5,579.7	36.60	153.440	
1,771.6	1,765.7	1,738.2	1,738.2	4.1	34.3	113.12	-5,573.9	446.2	5,622.3	5,584.0	38.24	147.021	
1,800.0	1,793.4	1,765.9	1,765.9	4.2	34.9	113.18	-5,573.9	446.2	5,624.6	5,585.7	38.89	144.630	
1,870.1	1,862.0	1,834.5	1,834.5	4.4	36.3	113.31	-5,573.9	446.2	5,630.5	5,590.0	40.51	139.005	
1,900.0	1,891.3	1,863.8	1,863.8	4.5	36.8	113.37	-5,573.9	446.2	5,633.0	5,591.8	41.19	136.740	
1,968.5	1,958.3	1,930.8	1,930.8	4.8	38.2	113.50	-5,573.9	446.2	5,638.8	5,596.0	42.78	131.800	
2,000.0	1,989.1	1,961.6	1,961.6	4.9	38.8	113.56	-5,573.9	446.2	5,641.4	5,597.9	43.51	129.649	
2,066.9	2,054.5	2,027.0	2,027.0	5.2	40.1	113.68	-5,573.9	446.2	5,647.1	5,602.0	45.07	125.292	
2,100.0	2,086.9	2,059.4	2,059.4	5.3	40.8	113.75	-5,573.9	446.2	5,649.9	5,604.1	45.84	123.249	
2,165.3	2,150.8	2,123.3	2,123.3	5.6	42.1	113.87	-5,573.9	446.2	5,655.5	5,608.1	47.37	119.393	
2,200.0	2,184.7	2,157.2	2,157.2	5.7	42.7	113.94	-5,573.9	446.2	5,658.5	5,610.3	48.18	117.449	
2,263.8	2,247.1	2,219.6	2,219.6	5.9	44.0	114.06	-5,573.9	446.2	5,664.0	5,614.3	49.67	114.026	
2,300.0	2,282.5	2,255.0	2,255.0	6.1	44.7	114.12	-5,573.9	446.2	5,667.1	5,616.6	50.52	112.173	
2,362.2	2,343.4	2,315.9	2,315.9	6.4	45.9	114.24	-5,573.9	446.2	5,672.5	5,620.5	51.98	109.125	
2,400.0	2,380.3	2,352.8	2,352.8	6.5	46.7	114.31	-5,573.9	446.2	5,675.8	5,622.9	52.87	107.355	
2,460.6	2,439.6	2,412.1	2,412.1	6.8	47.9	114.43	-5,573.9	446.2	5,681.1	5,626.8	54.30	104.634	
2,500.0	2,478.1	2,450.6	2,450.6	6.9	48.6	114.50	-5,573.9	446.2	5,684.5	5,629.3	55.22	102.942	
2,559.0	2,535.9	2,508.4	2,508.4	7.2	49.8	114.61	-5,573.9	446.2	5,689.7	5,633.1	56.61	100.505	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,548.5	2,548.5	7.4	50.6	114.69	-5,573.9	446.2	5,693.4	5,635.8	57.58	98.884	
2,657.5	2,632.2	2,604.7	2,604.7	7.6	51.7	114.79	-5,573.9	446.2	5,698.5	5,639.5	58.93	96.697	
2,700.0	2,673.8	2,646.3	2,646.3	7.8	52.6	114.87	-5,573.9	446.2	5,702.2	5,642.3	59.93	95.143	
2,755.9	2,728.4	2,700.9	2,700.9	8.0	53.7	114.98	-5,573.9	446.2	5,707.2	5,646.0	61.25	93.176	
2,800.0	2,771.6	2,744.1	2,744.1	8.2	54.6	115.06	-5,573.9	446.2	5,711.2	5,648.9	62.29	91.683	
2,854.3	2,824.7	2,797.2	2,797.2	8.4	55.6	115.16	-5,573.9	446.2	5,716.1	5,652.5	63.58	89.910	
2,900.0	2,869.4	2,841.9	2,841.9	8.6	56.5	115.25	-5,573.9	446.2	5,720.2	5,655.5	64.65	88.474	
2,952.7	2,921.0	2,893.5	2,893.5	8.9	57.6	115.34	-5,573.9	446.2	5,724.9	5,659.0	65.90	86.874	
3,000.0	2,967.2	2,939.7	2,939.7	9.1	58.5	115.43	-5,573.9	446.2	5,729.2	5,662.2	67.02	85.491	
3,051.2	3,017.3	2,989.8	2,989.8	9.3	59.5	115.52	-5,573.9	446.2	5,733.9	5,665.7	68.22	84.044	
3,100.0	3,065.0	3,037.5	3,037.5	9.5	60.5	115.61	-5,573.9	446.2	5,738.4	5,669.0	69.38	82.711	
3,149.6	3,113.5	3,086.0	3,086.0	9.7	61.4	115.71	-5,573.9	446.2	5,742.9	5,672.3	70.55	81.401	
3,200.0	3,162.8	3,135.3	3,135.3	9.9	62.4	115.80	-5,573.9	446.2	5,747.5	5,675.8	71.74	80.115	
3,248.0	3,209.8	3,182.3	3,182.3	10.2	63.4	115.89	-5,573.9	446.2	5,752.0	5,679.1	72.88	78.928	
3,300.0	3,260.7	3,233.2	3,233.2	10.4	64.4	115.98	-5,573.9	446.2	5,756.8	5,682.7	74.10	77.684	
3,346.4	3,306.1	3,278.6	3,278.6	10.6	65.3	116.07	-5,573.9	446.2	5,761.1	5,685.9	75.20	76.607	
3,400.0	3,358.5	3,331.0	3,331.0	10.8	66.4	116.16	-5,573.9	446.2	5,766.1	5,689.6	76.47	75.404	
3,444.9	3,402.4	3,374.9	3,374.9	11.0	67.2	116.24	-5,573.9	446.2	5,770.3	5,692.7	77.53	74.426	
3,500.0	3,456.3	3,428.8	3,428.8	11.3	68.3	116.34	-5,573.9	446.2	5,775.4	5,696.6	78.83	73.262	
3,543.3	3,498.6	3,471.1	3,471.1	11.5	69.2	116.42	-5,573.9	446.2	5,779.5	5,699.7	79.86	72.374	
3,600.0	3,554.1	3,526.6	3,526.6	11.7	70.3	116.53	-5,573.9	446.2	5,784.9	5,703.7	81.20	71.245	
3,641.7	3,594.9	3,567.4	3,567.4	11.9	71.1	116.60	-5,573.9	446.2	5,788.8	5,706.6	82.18	70.438	
3,700.0	3,651.9	3,624.4	3,624.4	12.2	72.3	116.71	-5,573.9	446.2	5,794.3	5,710.8	83.56	69.343	
3,740.1	3,691.2	3,663.7	3,663.7	12.3	73.0	116.78	-5,573.9	446.2	5,798.2	5,713.7	84.51	68.610	
3,800.0	3,749.7	3,722.2	3,722.2	12.6	74.2	116.89	-5,573.9	446.2	5,803.9	5,718.0	85.92	67.547	
3,838.6	3,787.5	3,760.0	3,760.0	12.8	75.0	116.96	-5,573.9	446.2	5,807.6	5,720.7	86.84	66.880	
3,900.0	3,847.5	3,820.0	3,820.0	13.0	76.2	117.07	-5,573.9	446.2	5,813.5	5,725.2	88.29	65.847	
3,937.0	3,883.7	3,856.2	3,856.2	13.2	76.9	117.13	-5,573.9	446.2	5,817.0	5,727.9	89.16	65.242	
4,000.0	3,945.4	3,917.9	3,917.9	13.5	78.2	117.25	-5,573.9	446.2	5,823.1	5,732.5	90.65	64.238	
4,035.4	3,980.0	3,952.5	3,952.5	13.7	78.9	117.31	-5,573.9	446.2	5,826.6	5,735.1	91.49	63.687	
4,068.9	4,012.7	3,985.2	3,985.2	13.8	79.5	117.37	-5,573.9	446.2	5,829.8	5,737.5	92.28	63.177	
4,100.0	4,043.2	4,015.7	4,015.7	13.9	80.1	117.48	-5,573.9	446.2	5,832.8	5,739.7	93.03	62.698	
4,133.8	4,076.4	4,048.9	4,048.9	14.0	80.8	117.59	-5,573.9	446.2	5,835.8	5,742.0	93.82	62.199	
4,200.0	4,141.6	4,114.1	4,114.1	14.2	82.1	117.78	-5,573.9	446.2	5,841.2	5,745.9	95.38	61.242	
4,232.3	4,173.4	4,145.9	4,145.9	14.3	82.7	117.87	-5,573.9	446.2	5,843.6	5,747.5	96.13	60.789	
4,300.0	4,240.5	4,213.0	4,213.0	14.5	84.1	118.03	-5,573.9	446.2	5,848.1	5,750.4	97.70	59.858	
4,330.7	4,271.0	4,243.5	4,243.5	14.6	84.7	118.09	-5,573.9	446.2	5,849.9	5,751.5	98.40	59.449	
4,400.0	4,339.9	4,312.4	4,312.4	14.8	86.1	118.22	-5,573.9	446.2	5,853.4	5,753.4	99.98	58.544	
4,429.1	4,368.9	4,341.4	4,341.4	14.8	86.7	118.26	-5,573.9	446.2	5,854.6	5,754.0	100.64	58.176	
4,500.0	4,439.6	4,412.1	4,412.1	15.0	88.1	118.35	-5,573.9	446.2	5,857.0	5,754.8	102.22	57.297	
4,527.5	4,467.1	4,439.6	4,439.6	15.0	88.7	118.37	-5,573.9	446.2	5,857.7	5,754.9	102.83	56.966	
4,600.0	4,539.5	4,512.0	4,512.0	15.1	90.1	118.42	-5,573.9	446.2	5,859.0	5,754.6	104.41	56.113	
4,626.0	4,565.4	4,537.9	4,537.9	15.2	90.6	118.42	-5,573.9	446.2	5,859.2	5,754.2	104.97	55.817	
4,668.9	4,608.4	4,580.9	4,580.9	15.2	91.5	-179.00	-5,573.9	446.2	5,859.4	5,753.5	105.90	55.327	
4,700.0	4,639.5	4,612.0	4,612.0	15.3	92.1	-179.00	-5,573.9	446.2	5,859.4	5,752.8	106.57	54.980	
4,724.4	4,663.9	4,636.4	4,636.4	15.3	92.6	-179.00	-5,573.9	446.2	5,859.4	5,752.3	107.10	54.709	
4,800.0	4,739.5	4,712.0	4,712.0	15.4	94.1	-179.00	-5,573.9	446.2	5,859.4	5,750.6	108.74	53.886	
4,822.8	4,762.3	4,734.8	4,734.8	15.4	94.6	-179.00	-5,573.9	446.2	5,859.4	5,750.1	109.23	53.642	
4,900.0	4,839.5	4,812.0	4,812.0	15.6	96.1	-179.00	-5,573.9	446.2	5,859.4	5,748.5	110.90	52.833	
4,921.2	4,860.7	4,833.2	4,833.2	15.6	96.6	-179.00	-5,573.9	446.2	5,859.4	5,748.0	111.36	52.615	
5,000.0	4,939.5	4,912.0	4,912.0	15.7	98.2	-179.00	-5,573.9	446.2	5,859.4	5,746.3	113.07	51.820	
5,019.7	4,959.1	4,931.6	4,931.6	15.7	98.5	-179.00	-5,573.9	446.2	5,859.4	5,745.9	113.50	51.626	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	5,012.0	5,012.0	15.9	100.2	-179.00	-5,573.9	446.2	5,859.4	5,744.1	115.24	50.845	
5,118.1	5,057.6	5,030.1	5,030.1	15.9	100.5	-179.00	-5,573.9	446.2	5,859.4	5,743.7	115.63	50.672	
5,200.0	5,139.5	5,112.0	5,112.0	16.0	102.2	-179.00	-5,573.9	446.2	5,859.4	5,742.0	117.41	49.905	
5,216.5	5,156.0	5,128.5	5,128.5	16.0	102.5	-179.00	-5,573.9	446.2	5,859.4	5,741.6	117.77	49.752	
5,300.0	5,239.5	5,212.0	5,212.0	16.2	104.2	-179.00	-5,573.9	446.2	5,859.4	5,739.8	119.58	48.998	
5,314.9	5,254.4	5,226.9	5,226.9	16.2	104.5	-179.00	-5,573.9	446.2	5,859.4	5,739.5	119.91	48.865	
5,400.0	5,339.5	5,312.0	5,312.0	16.3	106.2	-179.00	-5,573.9	446.2	5,859.4	5,737.6	121.76	48.123	
5,413.4	5,352.8	5,325.3	5,325.3	16.3	106.5	-179.00	-5,573.9	446.2	5,859.4	5,737.3	122.05	48.008	
5,500.0	5,439.5	5,412.0	5,412.0	16.5	108.2	-179.00	-5,573.9	446.2	5,859.4	5,735.4	123.93	47.278	
5,511.8	5,451.3	5,423.8	5,423.8	16.5	108.4	-179.00	-5,573.9	446.2	5,859.4	5,735.2	124.19	47.180	
5,600.0	5,539.5	5,512.0	5,512.0	16.6	110.2	-179.00	-5,573.9	446.2	5,859.4	5,733.3	126.11	46.462	
5,610.2	5,549.7	5,522.2	5,522.2	16.6	110.4	-179.00	-5,573.9	446.2	5,859.4	5,733.0	126.33	46.380	
5,700.0	5,639.5	5,612.0	5,612.0	16.8	112.2	-179.00	-5,573.9	446.2	5,859.4	5,731.1	128.29	45.673	
5,708.6	5,648.1	5,620.6	5,620.6	16.8	112.4	-179.00	-5,573.9	446.2	5,859.4	5,730.9	128.48	45.606	
5,800.0	5,739.5	5,712.0	5,712.0	17.0	114.2	-179.00	-5,573.9	446.2	5,859.4	5,728.9	130.47	44.910	
5,807.1	5,746.5	5,719.0	5,719.0	17.0	114.4	-179.00	-5,573.9	446.2	5,859.4	5,728.7	130.62	44.856	
5,900.0	5,839.5	5,812.0	5,812.0	17.1	116.2	-179.00	-5,573.9	446.2	5,859.4	5,726.7	132.65	44.171	
5,905.5	5,845.0	5,817.5	5,817.5	17.1	116.4	-179.00	-5,573.9	446.2	5,859.4	5,726.6	132.77	44.131	
6,000.0	5,939.5	5,912.0	5,912.0	17.3	118.3	-179.00	-5,573.9	446.2	5,859.4	5,724.5	134.83	43.456	
6,003.9	5,943.4	5,915.9	5,915.9	17.3	118.3	-179.00	-5,573.9	446.2	5,859.4	5,724.4	134.92	43.428	
6,100.0	6,039.5	6,012.0	6,012.0	17.4	120.3	-179.00	-5,573.9	446.2	5,859.4	5,722.4	137.02	42.763	
6,102.3	6,041.8	6,014.3	6,014.3	17.4	120.3	-179.00	-5,573.9	446.2	5,859.4	5,722.3	137.07	42.747	
6,200.0	6,139.5	6,112.0	6,112.0	17.6	122.3	-179.00	-5,573.9	446.2	5,859.4	5,720.2	139.20	42.092	
6,200.8	6,140.2	6,112.7	6,112.7	17.6	122.3	-179.00	-5,573.9	446.2	5,859.4	5,720.1	139.22	42.087	
6,299.2	6,238.7	6,211.2	6,211.2	17.8	124.3	-179.00	-5,573.9	446.2	5,859.4	5,718.0	141.37	41.446	
6,300.0	6,239.5	6,212.0	6,212.0	17.8	124.3	-179.00	-5,573.9	446.2	5,859.4	5,718.0	141.39	41.441	
6,360.9	6,300.4	6,272.9	6,272.9	17.9	125.5	-179.00	-5,573.9	446.2	5,859.4	5,716.6	142.72	41.054	
6,397.6	6,337.1	6,309.6	6,309.6	17.9	126.3	0.79	-5,573.9	446.2	5,858.4	5,715.1	143.29	40.884	
6,400.0	6,339.5	6,312.0	6,312.0	17.9	126.3	0.79	-5,573.9	446.2	5,858.3	5,715.0	143.32	40.876	
6,450.0	6,389.2	6,361.7	6,361.7	18.0	127.3	0.80	-5,573.9	446.2	5,853.8	5,710.4	143.46	40.804	
6,496.0	6,434.7	6,407.2	6,407.2	18.0	128.2	0.80	-5,573.9	446.2	5,846.7	5,703.7	142.96	40.896	
6,500.0	6,438.6	6,411.1	6,411.1	18.0	128.3	0.81	-5,573.9	446.2	5,845.9	5,703.0	142.89	40.911	
6,550.0	6,487.3	6,459.8	6,459.8	18.0	129.3	0.82	-5,573.9	446.2	5,834.6	5,693.0	141.60	41.204	
6,594.5	6,529.8	6,502.3	6,502.3	18.0	130.1	0.84	-5,573.9	446.2	5,821.6	5,681.8	139.84	41.631	
6,600.0	6,535.1	6,507.6	6,507.6	18.1	130.2	0.84	-5,573.9	446.2	5,819.8	5,680.3	139.58	41.696	
6,650.0	6,581.7	6,554.2	6,554.2	18.0	131.2	0.87	-5,573.9	446.2	5,801.8	5,665.0	136.83	42.402	
6,692.9	6,620.6	6,593.1	6,593.1	18.0	132.0	0.89	-5,573.9	446.2	5,783.8	5,649.9	133.89	43.197	
6,700.0	6,626.9	6,599.4	6,599.4	18.0	132.1	0.90	-5,573.9	446.2	5,780.6	5,647.2	133.36	43.347	
6,750.0	6,670.6	6,643.1	6,643.1	18.0	133.0	0.94	-5,573.9	446.2	5,756.3	5,627.1	129.17	44.563	
6,791.3	6,705.4	6,677.9	6,677.9	18.0	133.7	0.98	-5,573.9	446.2	5,733.9	5,608.7	125.19	45.803	
6,800.0	6,712.5	6,685.0	6,685.0	18.0	133.8	0.99	-5,573.9	446.2	5,729.0	5,604.7	124.29	46.093	
6,850.0	6,752.3	6,724.8	6,724.8	18.0	134.6	1.04	-5,573.9	446.2	5,698.8	5,580.0	118.74	47.995	
6,889.7	6,782.5	6,755.0	6,755.0	18.0	135.2	1.10	-5,573.9	446.2	5,672.9	5,559.0	113.86	49.822	
6,900.0	6,790.0	6,762.5	6,762.5	18.0	135.4	1.12	-5,573.9	446.2	5,665.9	5,553.4	112.54	50.345	
6,950.0	6,825.3	6,797.8	6,797.8	18.0	136.1	1.21	-5,573.9	446.2	5,630.5	5,524.7	105.74	53.248	
6,988.2	6,850.5	6,823.0	6,823.0	17.9	136.6	1.29	-5,573.9	446.2	5,601.8	5,501.7	100.17	55.925	
7,000.0	6,858.0	6,830.5	6,830.5	17.9	136.7	1.32	-5,573.9	446.2	5,592.7	5,494.3	98.38	56.850	
7,050.0	6,888.0	6,860.5	6,860.5	18.0	137.3	1.45	-5,573.9	446.2	5,552.7	5,462.2	90.50	61.353	
7,086.6	6,908.1	6,880.6	6,880.6	18.0	137.3	1.58	-5,573.9	446.2	5,522.2	5,437.7	84.45	65.386	
7,100.0	6,915.1	6,887.6	6,887.6	18.0	137.9	1.63	-5,573.9	446.2	5,510.7	5,428.5	82.19	67.052	
7,150.0	6,939.2	6,911.7	6,911.7	18.0	138.4	1.87	-5,573.9	446.2	5,467.0	5,393.5	73.50	74.385	
7,185.0	6,954.3	6,926.8	6,926.8	18.1	138.7	2.08	-5,573.9	446.2	5,435.3	5,368.1	67.24	80.839	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,960.3	6,932.8	6,932.8	18.1	138.8	2.19	-5,573.9	446.2	5,421.6	5,357.1	64.53	84.018	
7,250.0	6,978.1	6,950.6	6,950.6	18.3	139.1	2.65	-5,573.9	446.2	5,374.9	5,319.5	55.43	96.975	
7,283.4	6,988.2	6,960.7	6,960.7	18.4	139.4	3.10	-5,573.9	446.2	5,343.0	5,293.6	49.38	108.203	
7,300.0	6,992.6	6,965.1	6,965.1	18.4	139.4	3.37	-5,573.9	446.2	5,327.1	5,280.6	46.45	114.690	
7,350.0	7,003.7	6,976.2	6,976.2	18.7	139.7	4.63	-5,573.9	446.2	5,278.3	5,240.0	38.32	137.727	
7,381.9	7,009.1	6,981.6	6,981.6	18.9	139.8	6.06	-5,573.9	446.2	5,246.9	5,212.2	34.74	151.038	
7,400.0	7,011.4	6,983.9	6,983.9	19.0	139.8	7.34	-5,573.9	446.2	5,229.0	5,194.8	34.17	153.037	
7,450.0	7,015.7	6,988.2	6,988.2	19.3	139.9	17.25	-5,573.9	446.2	5,179.2	5,127.5	51.69	100.199	
7,480.3	7,016.6	6,989.1	6,989.1	19.6	139.9	63.35	-5,573.9	446.2	5,148.9	5,008.1	140.74	36.584	
7,488.2	7,016.6	6,989.1	6,989.1	19.6	139.9	101.33	-5,573.9	446.2	5,141.0	4,985.8	155.24	33.116	
7,500.0	7,016.6	6,989.1	6,989.1	19.7	139.9	101.30	-5,573.9	446.2	5,129.2	4,973.8	155.37	33.013	
7,578.7	7,016.3	6,988.8	6,988.8	20.5	139.9	101.13	-5,573.9	446.2	5,050.5	4,894.2	156.27	32.319	
7,600.0	7,016.2	6,988.7	6,988.7	20.7	139.9	101.10	-5,573.9	446.2	5,029.2	4,872.7	156.51	32.134	
7,677.1	7,016.0	6,988.5	6,988.5	21.6	139.9	100.93	-5,573.9	446.2	4,952.1	4,794.6	157.49	31.444	
7,700.0	7,015.9	6,988.4	6,988.4	21.8	139.9	100.89	-5,573.9	446.2	4,929.2	4,771.4	157.77	31.242	
7,775.6	7,015.7	6,988.2	6,988.2	22.7	139.9	100.73	-5,573.9	446.2	4,853.6	4,694.8	158.82	30.561	
7,800.0	7,015.6	6,988.1	6,988.1	23.0	139.9	100.68	-5,573.9	446.2	4,829.2	4,670.1	159.15	30.344	
7,874.0	7,015.4	6,987.9	6,987.9	24.0	139.9	100.52	-5,573.9	446.2	4,755.2	4,595.0	160.24	29.675	
7,900.0	7,015.3	6,987.8	6,987.8	24.4	139.9	100.48	-5,573.9	446.2	4,729.2	4,568.6	160.62	29.443	
7,972.4	7,015.1	6,987.6	6,987.6	25.4	139.9	100.32	-5,573.9	446.2	4,656.8	4,495.1	161.74	28.791	
8,000.0	7,015.0	6,987.5	6,987.5	25.8	139.9	100.27	-5,573.9	446.2	4,629.2	4,467.1	162.17	28.546	
8,070.8	7,014.8	6,987.3	6,987.3	26.8	139.9	100.11	-5,573.9	446.2	4,558.4	4,395.1	163.31	27.912	
8,100.0	7,014.7	6,987.2	6,987.2	27.3	139.9	100.06	-5,573.9	446.2	4,529.3	4,365.5	163.78	27.654	
8,169.3	7,014.4	6,986.9	6,986.9	28.3	139.9	99.91	-5,573.9	446.2	4,460.0	4,295.1	164.94	27.041	
8,200.0	7,014.4	6,986.9	6,986.9	28.8	139.9	99.85	-5,573.9	446.2	4,429.3	4,263.8	165.45	26.772	
8,267.7	7,014.1	6,986.6	6,986.6	29.9	139.9	99.70	-5,573.9	446.2	4,361.6	4,195.0	166.61	26.179	
8,300.0	7,014.0	6,986.5	6,986.5	30.4	139.9	99.64	-5,573.9	446.2	4,329.3	4,162.1	167.16	25.899	
8,366.1	7,013.8	6,986.3	6,986.3	31.5	139.9	99.49	-5,573.9	446.2	4,263.2	4,094.9	168.32	25.328	
8,400.0	7,013.7	6,986.2	6,986.2	32.0	139.9	99.43	-5,573.9	446.2	4,229.3	4,060.4	168.91	25.039	
8,464.5	7,013.5	6,986.0	6,986.0	33.1	139.9	99.28	-5,573.9	446.2	4,164.8	3,994.7	170.06	24.490	
8,500.0	7,013.4	6,985.9	6,985.9	33.7	139.9	99.21	-5,573.9	446.2	4,129.3	3,958.6	170.69	24.192	
8,563.0	7,013.2	6,985.7	6,985.7	34.8	139.9	99.08	-5,573.9	446.2	4,066.4	3,894.5	171.83	23.665	
8,600.0	7,013.1	6,985.6	6,985.6	35.4	139.9	99.00	-5,573.9	446.2	4,029.4	3,856.9	172.50	23.359	
8,661.4	7,012.9	6,985.4	6,985.4	36.5	139.8	98.87	-5,573.9	446.2	3,968.0	3,794.3	173.63	22.853	
8,700.0	7,012.8	6,985.3	6,985.3	37.1	139.8	98.79	-5,573.9	446.2	3,929.4	3,755.0	174.33	22.539	
8,759.8	7,012.6	6,985.1	6,985.1	38.2	139.8	98.66	-5,573.9	446.2	3,869.6	3,694.1	175.44	22.056	
8,800.0	7,012.4	6,984.9	6,984.9	38.9	139.8	98.58	-5,573.9	446.2	3,829.4	3,653.2	176.19	21.735	
8,858.2	7,012.3	6,984.8	6,984.8	39.9	139.8	98.45	-5,573.9	446.2	3,771.2	3,593.9	177.28	21.273	
8,900.0	7,012.1	6,984.6	6,984.6	40.7	139.8	98.36	-5,573.9	446.2	3,729.4	3,551.4	178.06	20.945	
8,956.7	7,011.9	6,984.4	6,984.4	41.7	139.8	98.24	-5,573.9	446.2	3,672.8	3,493.6	179.13	20.504	
9,000.0	7,011.8	6,984.3	6,984.3	42.4	139.8	98.15	-5,573.9	446.2	3,629.4	3,449.5	179.94	20.170	
9,055.1	7,011.6	6,984.1	6,984.1	43.4	139.8	98.02	-5,573.9	446.2	3,574.4	3,393.4	180.99	19.749	
9,100.0	7,011.5	6,984.0	6,984.0	44.2	139.8	97.93	-5,573.9	446.2	3,529.5	3,347.6	181.84	19.410	
9,153.5	7,011.3	6,983.8	6,983.8	45.2	139.8	97.81	-5,573.9	446.2	3,476.0	3,293.1	182.87	19.008	
9,200.0	7,011.2	6,983.7	6,983.7	46.1	139.8	97.72	-5,573.9	446.2	3,429.5	3,245.7	183.75	18.664	
9,251.9	7,011.0	6,983.5	6,983.5	47.0	139.8	97.60	-5,573.9	446.2	3,377.6	3,192.8	184.75	18.282	
9,300.0	7,010.9	6,983.4	6,983.4	47.9	139.8	97.50	-5,573.9	446.2	3,329.5	3,143.9	185.67	17.932	
9,350.4	7,010.7	6,983.2	6,983.2	48.8	139.8	97.39	-5,573.9	446.2	3,279.2	3,092.5	186.65	17.569	
9,400.0	7,010.5	6,983.0	6,983.0	49.7	139.8	97.28	-5,573.9	446.2	3,229.6	3,042.0	187.60	17.215	
9,448.8	7,010.4	6,982.9	6,982.9	50.6	139.8	97.17	-5,573.9	446.2	3,180.8	2,992.2	188.55	16.870	
9,500.0	7,010.2	6,982.7	6,982.7	51.6	139.8	97.06	-5,573.9	446.2	3,129.6	2,940.1	189.54	16.512	
9,547.2	7,010.1	6,982.6	6,982.6	52.5	139.8	96.96	-5,573.9	446.2	3,082.4	2,891.9	190.46	16.184	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
9,600.0	7,009.9	6,982.4	6,982.4	53.5	139.8	96.85	-5,573.9	446.2	3,029.6	2,838.1	191.48	15.822		
9,645.6	7,009.8	6,982.3	6,982.3	54.3	139.8	96.74	-5,573.9	446.2	2,984.0	2,791.6	192.37	15.512		
9,700.0	7,009.6	6,982.1	6,982.1	55.3	139.8	96.63	-5,573.9	446.2	2,929.7	2,736.2	193.43	15.146		
9,744.1	7,009.4	6,981.9	6,981.9	56.2	139.8	96.53	-5,573.9	446.2	2,885.6	2,691.3	194.29	14.852		
9,800.0	7,009.3	6,981.8	6,981.8	57.2	139.8	96.41	-5,573.9	446.2	2,829.7	2,634.3	195.38	14.483		
9,842.5	7,009.1	6,981.6	6,981.6	58.0	139.8	96.31	-5,573.9	446.2	2,787.2	2,591.0	196.22	14.205		
9,900.0	7,008.9	6,981.4	6,981.4	59.1	139.8	96.19	-5,573.9	446.2	2,729.7	2,532.4	197.34	13.833		
9,940.9	7,008.8	6,981.3	6,981.3	59.9	139.8	96.10	-5,573.9	446.2	2,688.8	2,490.7	198.14	13.570		
10,000.0	7,008.6	6,981.1	6,981.1	61.0	139.8	95.97	-5,573.9	446.2	2,629.8	2,430.5	199.30	13.195		
10,039.3	7,008.5	6,981.0	6,981.0	61.7	139.8	95.88	-5,573.9	446.2	2,590.5	2,390.4	200.08	12.947		
10,100.0	7,008.3	6,980.8	6,980.8	62.9	139.8	95.75	-5,573.9	446.2	2,529.8	2,328.6	201.27	12.570		
10,137.8	7,008.2	6,980.7	6,980.7	63.6	139.8	95.66	-5,573.9	446.2	2,492.1	2,290.1	202.01	12.336		
10,200.0	7,008.0	6,980.5	6,980.5	64.8	139.7	95.53	-5,573.9	446.2	2,429.9	2,226.7	203.23	11.956		
10,236.2	7,007.9	6,980.4	6,980.4	65.5	139.7	95.44	-5,573.9	446.2	2,393.7	2,189.8	203.95	11.737		
10,300.0	7,007.6	6,980.1	6,980.1	66.7	139.7	95.30	-5,573.9	446.2	2,330.0	2,124.8	205.20	11.354		
10,334.6	7,007.5	6,980.0	6,980.0	67.3	139.7	95.23	-5,573.9	446.2	2,295.4	2,089.5	205.89	11.149		
10,400.0	7,007.3	6,979.8	6,979.8	68.6	139.7	95.08	-5,573.9	446.2	2,230.0	2,022.8	207.18	10.764		
10,433.0	7,007.2	6,979.7	6,979.7	69.2	139.7	95.01	-5,573.9	446.2	2,197.0	1,989.2	207.83	10.571		
10,500.0	7,007.0	6,979.5	6,979.5	70.5	139.7	94.86	-5,573.9	446.2	2,130.1	1,920.9	209.15	10.185		
10,531.5	7,006.9	6,979.4	6,979.4	71.1	139.7	94.79	-5,573.9	446.2	2,098.6	1,888.9	209.77	10.004		
10,600.0	7,006.7	6,979.2	6,979.2	72.4	139.7	94.64	-5,573.9	446.2	2,030.2	1,819.0	211.12	9.616		
10,629.9	7,006.6	6,979.1	6,979.1	73.0	139.7	94.57	-5,573.9	446.2	2,000.3	1,788.6	211.71	9.448		
10,700.0	7,006.4	6,978.9	6,978.9	74.3	139.7	94.41	-5,573.9	446.2	1,930.2	1,717.2	213.10	9.058		
10,728.3	7,006.3	6,978.8	6,978.8	74.9	139.7	94.35	-5,573.9	446.2	1,901.9	1,688.3	213.66	8.902		
10,800.0	7,006.0	6,978.5	6,978.5	76.3	139.7	94.19	-5,573.9	446.2	1,830.3	1,615.3	215.07	8.510		
10,826.7	7,005.9	6,978.4	6,978.4	76.8	139.7	94.13	-5,573.9	446.2	1,803.6	1,588.0	215.60	8.366		
10,900.0	7,005.7	6,978.2	6,978.2	78.2	139.7	93.96	-5,573.9	446.2	1,730.4	1,513.4	217.05	7.973		
10,925.2	7,005.6	6,978.1	6,978.1	78.7	139.7	93.91	-5,573.9	446.2	1,705.3	1,487.8	217.55	7.839		
11,000.0	7,005.4	6,977.9	6,977.9	80.1	139.7	93.74	-5,573.9	446.2	1,630.6	1,411.5	219.02	7.445		
11,023.6	7,005.3	6,977.8	6,977.8	80.6	139.7	93.68	-5,573.9	446.2	1,607.0	1,387.5	219.49	7.321		
11,100.0	7,005.1	6,977.6	6,977.6	82.0	139.7	93.51	-5,573.9	446.2	1,530.7	1,309.7	221.00	6.926		
11,122.0	7,005.0	6,977.5	6,977.5	82.5	139.7	93.46	-5,573.9	446.2	1,508.7	1,287.3	221.43	6.813		
11,200.0	7,004.7	6,977.2	6,977.2	84.0	139.7	93.28	-5,573.9	446.2	1,430.8	1,207.9	222.97	6.417		
11,220.4	7,004.7	6,977.2	6,977.2	84.4	139.7	93.24	-5,573.9	446.2	1,410.4	1,187.0	223.38	6.314		
11,300.0	7,004.4	6,976.9	6,976.9	85.9	139.7	93.06	-5,573.9	446.2	1,331.0	1,106.1	224.95	5.917		
11,318.9	7,004.4	6,976.9	6,976.9	86.3	139.7	93.01	-5,573.9	446.2	1,312.2	1,086.9	225.32	5.824		
11,400.0	7,004.1	6,976.6	6,976.6	87.8	139.7	92.83	-5,573.9	446.2	1,231.2	1,004.3	226.92	5.426		
11,417.3	7,004.0	6,976.5	6,976.5	88.2	139.7	92.79	-5,573.9	446.2	1,214.0	986.7	227.26	5.342		
11,500.0	7,003.8	6,976.3	6,976.3	89.8	139.7	92.60	-5,573.9	446.2	1,131.4	902.6	228.89	4.943		
11,515.7	7,003.7	6,976.2	6,976.2	90.1	139.7	92.57	-5,573.9	446.2	1,115.8	886.6	229.20	4.868		
11,600.0	7,003.4	6,975.9	6,975.9	91.7	139.7	92.37	-5,573.9	446.2	1,031.7	800.9	230.86	4.469		
11,614.1	7,003.4	6,975.9	6,975.9	92.0	139.7	92.34	-5,573.9	446.2	1,017.6	786.5	231.14	4.403		
11,700.0	7,003.1	6,975.6	6,975.6	93.7	139.7	92.15	-5,573.9	446.2	932.1	699.2	232.83	4.003		
11,712.6	7,003.1	6,975.6	6,975.6	93.9	139.6	92.12	-5,573.9	446.2	919.5	686.5	233.08	3.945		
11,800.0	7,002.8	6,975.3	6,975.3	95.6	139.6	91.92	-5,573.9	446.2	832.5	597.7	234.80	3.546		
11,811.0	7,002.7	6,975.2	6,975.2	95.8	139.6	91.89	-5,573.9	446.2	821.5	586.5	235.02	3.496		
11,900.0	7,002.5	6,975.0	6,975.0	97.6	139.6	91.69	-5,573.9	446.2	733.0	496.3	236.77	3.096		
11,909.4	7,002.4	6,974.9	6,974.9	97.7	139.6	91.66	-5,573.9	446.2	723.7	486.7	236.95	3.054		
12,000.0	7,002.1	6,974.6	6,974.6	99.5	139.6	91.46	-5,573.9	446.2	633.7	395.0	238.73	2.655		
12,007.8	7,002.1	6,974.6	6,974.6	99.7	139.6	91.44	-5,573.9	446.2	625.9	387.1	238.88	2.620		
12,100.0	7,001.8	6,974.3	6,974.3	101.5	139.6	91.23	-5,573.9	446.2	534.7	294.0	240.69	2.222		
12,106.3	7,001.8	6,974.3	6,974.3	101.6	139.6	91.21	-5,573.9	446.2	528.5	287.7	240.81	2.195		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
12,200.0	7,001.5	6,974.0	6,974.0	103.4	139.6	90.99	-5,573.9	446.2	436.1	193.5	242.65	1.797	
12,204.7	7,001.5	6,974.0	6,974.0	103.5	139.6	90.98	-5,573.9	446.2	431.5	188.8	242.74	1.778	
12,300.0	7,001.2	6,973.7	6,973.7	105.3	139.6	90.76	-5,573.9	446.2	338.4	93.7	244.61	1.383 Level 3	
12,303.1	7,001.1	6,973.6	6,973.6	105.4	139.6	90.76	-5,573.9	446.2	335.3	90.7	244.67	1.371 Level 3	
12,400.0	7,000.8	6,973.3	6,973.3	107.3	139.6	90.53	-5,573.9	446.2	242.4	-4.1	246.56	0.983 Level 1	
12,401.5	7,000.8	6,973.3	6,973.3	107.3	139.6	90.53	-5,573.9	446.2	241.0	-5.6	246.59	0.977 Level 1	
12,500.0	7,000.5	6,973.0	6,973.0	109.3	139.6	90.30	-5,573.9	446.2	151.9	-96.7	248.51	0.611 Level 1	
12,598.4	7,000.2	6,972.7	6,972.7	111.2	139.6	90.07	-5,573.9	446.2	86.3	-164.2	250.43	0.344 Level 1	
12,600.0	7,000.2	6,972.7	6,972.7	111.2	139.6	90.07	-5,573.9	446.2	85.7	-164.7	250.46	0.342 Level 1	
12,628.5	7,000.1	6,972.6	6,972.6	111.8	139.6	90.00	-5,573.9	446.2	80.8	-170.2	251.01	0.322 Level 1, CC, ES, SF	
12,696.8	6,999.8	6,972.3	6,972.3	113.1	139.6	89.84	-5,573.9	446.2	105.8	-146.6	252.34	0.419 Level 1	
12,700.0	6,999.8	6,972.3	6,972.3	113.2	139.6	89.83	-5,573.9	446.2	107.9	-144.5	252.40	0.427 Level 1	
12,795.2	6,999.5	6,972.0	6,972.0	115.0	139.6	89.61	-5,573.9	446.2	185.2	-69.0	254.25	0.729 Level 1	
12,800.0	6,999.5	6,972.0	6,972.0	115.1	139.6	89.60	-5,573.9	446.2	189.5	-64.8	254.34	0.745 Level 1	
12,893.7	6,999.2	6,971.7	6,971.7	116.9	139.6	89.38	-5,573.9	446.2	277.2	21.0	256.16	1.082 Level 2	
12,900.0	6,999.2	6,971.7	6,971.7	117.1	139.6	89.37	-5,573.9	446.2	283.2	26.9	256.28	1.105 Level 2	
12,992.1	6,998.9	6,971.4	6,971.4	118.9	139.6	89.15	-5,573.9	446.2	372.4	114.3	258.06	1.443 Level 3	
13,000.0	6,998.8	6,971.3	6,971.3	119.0	139.6	89.13	-5,573.9	446.2	380.1	121.9	258.22	1.472 Level 3	
13,090.5	6,998.6	6,971.1	6,971.1	120.8	139.6	88.92	-5,573.9	446.2	469.0	209.0	259.97	1.804	
13,100.0	6,998.5	6,971.0	6,971.0	121.0	139.6	88.90	-5,573.9	446.2	478.3	218.2	260.15	1.839	
13,188.9	6,998.2	6,970.7	6,970.7	122.7	139.6	88.69	-5,573.9	446.2	566.2	304.3	261.86	2.162	
13,200.0	6,998.2	6,970.7	6,970.7	122.9	139.6	88.66	-5,573.9	446.2	577.1	315.0	262.07	2.202	
13,287.4	6,997.9	6,970.4	6,970.4	124.6	139.5	88.46	-5,573.9	446.2	663.7	400.0	263.76	2.517	
13,300.0	6,997.9	6,970.4	6,970.4	124.9	139.5	88.43	-5,573.9	446.2	676.3	412.3	264.00	2.562	
13,385.8	6,997.6	6,970.1	6,970.1	126.6	139.5	88.23	-5,573.9	446.2	761.5	495.9	265.64	2.867	
13,400.0	6,997.5	6,970.0	6,970.0	126.9	139.5	88.19	-5,573.9	446.2	775.7	509.7	265.92	2.917	
13,484.2	6,997.3	6,969.8	6,969.8	128.5	139.5	87.99	-5,573.9	446.2	859.5	591.9	267.53	3.213	
13,500.0	6,997.2	6,969.7	6,969.7	128.8	139.5	87.96	-5,573.9	446.2	875.2	607.3	267.83	3.268	
13,582.6	6,996.9	6,969.4	6,969.4	130.4	139.5	87.76	-5,573.9	446.2	957.5	688.1	269.41	3.554	
13,600.0	6,996.9	6,969.4	6,969.4	130.8	139.5	87.72	-5,573.9	446.2	974.8	705.0	269.74	3.614	
13,681.1	6,996.6	6,969.1	6,969.1	132.4	139.5	87.53	-5,573.9	446.2	1,055.6	784.3	271.29	3.891	
13,700.0	6,996.5	6,969.0	6,969.0	132.7	139.5	87.48	-5,573.9	446.2	1,074.5	802.8	271.65	3.955	
13,779.5	6,996.3	6,968.8	6,968.8	134.3	139.5	87.30	-5,573.9	446.2	1,153.8	880.6	273.16	4.224	
13,800.0	6,996.2	6,968.7	6,968.7	134.7	139.5	87.24	-5,573.9	446.2	1,174.2	900.7	273.55	4.293	
13,877.9	6,995.9	6,968.4	6,968.4	136.2	139.5	87.06	-5,573.9	446.2	1,252.0	976.9	275.03	4.552	
13,900.0	6,995.9	6,968.4	6,968.4	136.7	139.5	87.01	-5,573.9	446.2	1,274.0	998.5	275.45	4.625	
13,976.3	6,995.6	6,968.1	6,968.1	138.2	139.5	86.83	-5,573.9	446.2	1,350.2	1,073.3	276.89	4.876	
14,000.0	6,995.5	6,968.0	6,968.0	138.6	139.5	86.77	-5,573.9	446.2	1,373.8	1,096.5	277.34	4.954	
14,074.8	6,995.3	6,967.8	6,967.8	140.1	139.5	86.59	-5,573.9	446.2	1,448.5	1,169.7	278.75	5.196	
14,100.0	6,995.2	6,967.7	6,967.7	140.6	139.5	86.53	-5,573.9	446.2	1,473.6	1,194.4	279.23	5.278	
14,162.0	6,995.0	6,967.5	6,967.5	141.8	139.5	86.38	-5,573.9	446.2	1,535.6	1,255.2	280.35	5.477	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-179.34	-6,284.3	-72.5	6,284.8				
98.4	98.4	67.9	67.9	0.1	0.6	-179.34	-6,284.3	-72.5	6,284.7	6,284.0	0.69	9,078.050	
100.0	100.0	69.5	69.5	0.1	0.6	-179.34	-6,284.3	-72.5	6,284.7	6,284.0	0.71	8,877.877	
196.8	196.8	166.3	166.3	0.3	2.4	-179.34	-6,284.3	-72.5	6,284.7	6,281.9	2.76	2,273.978	
200.0	200.0	169.5	169.5	0.3	2.5	-179.34	-6,284.3	-72.5	6,284.7	6,281.9	2.85	2,208.745	
295.3	295.3	264.8	264.8	0.5	4.6	-179.34	-6,284.3	-72.5	6,284.7	6,279.6	5.13	1,225.123	
300.0	300.0	269.5	269.5	0.5	4.7	-179.34	-6,284.3	-72.5	6,284.7	6,279.5	5.24	1,199.635	
393.7	393.7	363.2	363.2	0.8	6.6	-179.34	-6,284.3	-72.5	6,284.7	6,277.3	7.38	852.121	
400.0	400.0	369.5	369.5	0.8	6.7	-179.34	-6,284.3	-72.5	6,284.7	6,277.2	7.52	835.931	
492.1	492.1	461.6	461.6	1.0	8.6	-179.34	-6,284.3	-72.5	6,284.7	6,275.1	9.60	654.751	
500.0	500.0	469.5	469.5	1.0	8.8	-179.34	-6,284.3	-72.5	6,284.7	6,274.9	9.78	642.864	
590.5	590.5	560.0	560.0	1.2	10.6	-179.34	-6,284.3	-72.5	6,284.7	6,272.9	11.81	532.015	
600.0	600.0	569.5	569.5	1.2	10.8	-179.34	-6,284.3	-72.5	6,284.7	6,272.7	12.03	522.620	
689.0	689.0	658.5	658.5	1.4	12.6	-179.34	-6,284.3	-72.5	6,284.7	6,270.7	14.02	448.173	
700.0	700.0	669.5	669.5	1.4	12.8	-179.34	-6,284.3	-72.5	6,284.7	6,270.4	14.27	440.404	
787.4	787.4	756.9	756.9	1.6	14.6	-179.34	-6,284.3	-72.5	6,284.7	6,268.5	16.23	387.222	
800.0	800.0	769.5	769.5	1.7	14.8	-179.34	-6,284.3	-72.5	6,284.7	6,268.2	16.51	380.598	
885.8	885.8	855.3	855.3	1.9	16.6	-179.34	-6,284.3	-72.5	6,284.7	6,266.3	18.44	340.895	
900.0	900.0	869.5	869.5	1.9	16.9	-179.34	-6,284.3	-72.5	6,284.7	6,265.9	18.75	335.122	
984.2	984.2	953.7	953.7	2.1	18.6	-179.34	-6,284.3	-72.5	6,284.7	6,264.1	20.64	304.485	
1,000.0	1,000.0	969.5	969.5	2.1	18.9	-179.34	-6,284.3	-72.5	6,284.7	6,263.7	20.99	299.369	
1,082.7	1,082.7	1,052.2	1,052.2	2.3	20.5	-179.34	-6,284.3	-72.5	6,284.7	6,261.9	22.84	275.112	
1,100.0	1,100.0	1,069.5	1,069.5	2.3	20.9	-179.34	-6,284.3	-72.5	6,284.7	6,261.5	23.23	270.519	
1,181.1	1,181.1	1,150.6	1,150.6	2.5	22.5	118.09	-6,284.3	-72.5	6,285.2	6,260.2	25.04	251.012	
1,200.0	1,200.0	1,169.5	1,169.5	2.6	22.9	118.09	-6,284.3	-72.5	6,285.5	6,260.1	25.46	246.878	
1,279.5	1,279.4	1,248.9	1,248.9	2.7	24.5	118.09	-6,284.3	-72.5	6,287.3	6,260.1	27.22	230.961	
1,300.0	1,299.8	1,269.3	1,269.3	2.8	24.9	118.09	-6,284.3	-72.5	6,288.0	6,260.3	27.67	227.209	
1,377.9	1,377.5	1,347.0	1,347.0	3.0	26.5	118.09	-6,284.3	-72.5	6,291.1	6,261.7	29.40	213.989	
1,400.0	1,399.5	1,369.0	1,369.0	3.0	26.9	118.09	-6,284.3	-72.5	6,292.1	6,262.2	29.88	210.546	
1,476.4	1,475.3	1,444.8	1,444.8	3.2	28.4	118.08	-6,284.3	-72.5	6,296.4	6,264.8	31.57	199.429	
1,500.0	1,498.7	1,468.2	1,468.2	3.2	28.9	118.08	-6,284.3	-72.5	6,297.9	6,265.8	32.09	196.248	
1,574.8	1,572.6	1,542.1	1,542.1	3.5	30.4	118.08	-6,284.3	-72.5	6,303.3	6,269.5	33.74	186.794	
1,600.0	1,597.5	1,567.0	1,567.0	3.5	30.9	118.08	-6,284.3	-72.5	6,305.3	6,271.0	34.30	183.837	
1,673.2	1,669.4	1,638.9	1,638.9	3.7	32.3	118.07	-6,284.3	-72.5	6,311.8	6,275.9	35.92	175.715	
1,700.0	1,695.7	1,665.2	1,665.2	3.8	32.9	118.07	-6,284.3	-72.5	6,314.4	6,277.9	36.51	172.946	
1,771.6	1,765.7	1,735.2	1,735.2	4.1	34.3	118.18	-6,284.3	-72.5	6,321.6	6,283.4	38.14	165.734	
1,800.0	1,793.4	1,762.9	1,762.9	4.2	34.8	118.23	-6,284.3	-72.5	6,324.4	6,285.6	38.79	163.048	
1,870.1	1,862.0	1,831.5	1,831.5	4.4	36.2	118.34	-6,284.3	-72.5	6,331.4	6,291.0	40.40	156.729	
1,900.0	1,891.3	1,860.8	1,860.8	4.5	36.8	118.39	-6,284.3	-72.5	6,334.4	6,293.3	41.08	154.185	
1,968.5	1,958.3	1,927.8	1,927.8	4.8	38.2	118.50	-6,284.3	-72.5	6,341.3	6,298.7	42.66	148.636	
2,000.0	1,989.1	1,958.6	1,958.6	4.9	38.8	118.55	-6,284.3	-72.5	6,344.5	6,301.1	43.39	146.219	
2,066.9	2,054.5	2,024.0	2,024.0	5.2	40.1	118.66	-6,284.3	-72.5	6,351.3	6,306.3	44.94	141.324	
2,100.0	2,086.9	2,056.4	2,056.4	5.3	40.7	118.72	-6,284.3	-72.5	6,354.6	6,308.9	45.71	139.028	
2,165.3	2,150.8	2,120.3	2,120.3	5.6	42.0	118.82	-6,284.3	-72.5	6,361.3	6,314.1	47.23	134.696	
2,200.0	2,184.7	2,154.2	2,154.2	5.7	42.7	118.88	-6,284.3	-72.5	6,364.8	6,316.8	48.03	132.511	
2,263.8	2,247.1	2,216.6	2,216.6	5.9	44.0	118.98	-6,284.3	-72.5	6,371.4	6,321.8	49.52	128.665	
2,300.0	2,282.5	2,252.0	2,252.0	6.1	44.7	119.04	-6,284.3	-72.5	6,375.1	6,324.7	50.36	126.582	
2,362.2	2,343.4	2,312.9	2,312.9	6.4	45.9	119.14	-6,284.3	-72.5	6,381.5	6,329.6	51.82	123.156	
2,400.0	2,380.3	2,349.8	2,349.8	6.5	46.7	119.20	-6,284.3	-72.5	6,385.4	6,332.7	52.70	121.167	
2,460.6	2,439.6	2,409.1	2,409.1	6.8	47.8	119.30	-6,284.3	-72.5	6,391.6	6,337.5	54.12	118.108	
2,500.0	2,478.1	2,447.6	2,447.6	6.9	48.6	119.36	-6,284.3	-72.5	6,395.7	6,340.7	55.04	116.205	
2,559.0	2,535.9	2,505.4	2,505.4	7.2	49.8	119.45	-6,284.3	-72.5	6,401.8	6,345.4	56.42	113.465	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,545.5	2,545.5	7.4	50.6	119.52	-6,284.3	-72.5	6,406.1	6,348.7	57.38	111.643	
2,657.5	2,632.2	2,601.7	2,601.7	7.6	51.7	119.61	-6,284.3	-72.5	6,412.1	6,353.4	58.73	109.183	
2,700.0	2,673.8	2,643.3	2,643.3	7.8	52.6	119.68	-6,284.3	-72.5	6,416.5	6,356.8	59.72	107.435	
2,755.9	2,728.4	2,697.9	2,697.9	8.0	53.7	119.77	-6,284.3	-72.5	6,422.4	6,361.4	61.04	105.222	
2,800.0	2,771.6	2,741.1	2,741.1	8.2	54.5	119.84	-6,284.3	-72.5	6,427.0	6,365.0	62.07	103.543	
2,854.3	2,824.7	2,794.2	2,794.2	8.4	55.6	119.92	-6,284.3	-72.5	6,432.7	6,369.4	63.35	101.548	
2,900.0	2,869.4	2,838.9	2,838.9	8.6	56.5	119.99	-6,284.3	-72.5	6,437.6	6,373.1	64.42	99.933	
2,952.7	2,921.0	2,890.5	2,890.5	8.9	57.5	120.08	-6,284.3	-72.5	6,443.1	6,377.5	65.66	98.131	
3,000.0	2,967.2	2,936.7	2,936.7	9.1	58.5	120.15	-6,284.3	-72.5	6,448.2	6,381.4	66.77	96.575	
3,051.2	3,017.3	2,986.8	2,986.8	9.3	59.5	120.23	-6,284.3	-72.5	6,453.6	6,385.6	67.97	94.947	
3,100.0	3,065.0	3,034.5	3,034.5	9.5	60.4	120.31	-6,284.3	-72.5	6,458.8	6,389.7	69.12	93.446	
3,149.6	3,113.5	3,083.0	3,083.0	9.7	61.4	120.39	-6,284.3	-72.5	6,464.1	6,393.8	70.28	91.971	
3,200.0	3,162.8	3,132.3	3,132.3	9.9	62.4	120.46	-6,284.3	-72.5	6,469.5	6,398.0	71.47	90.522	
3,248.0	3,209.8	3,179.3	3,179.3	10.2	63.3	120.54	-6,284.3	-72.5	6,474.6	6,402.0	72.60	89.185	
3,300.0	3,260.7	3,230.2	3,230.2	10.4	64.4	120.62	-6,284.3	-72.5	6,480.2	6,406.4	73.82	87.785	
3,346.4	3,306.1	3,275.6	3,275.6	10.6	65.3	120.69	-6,284.3	-72.5	6,485.2	6,410.3	74.91	86.572	
3,400.0	3,358.5	3,328.0	3,328.0	10.8	66.3	120.78	-6,284.3	-72.5	6,491.0	6,414.8	76.17	85.217	
3,444.9	3,402.4	3,371.9	3,371.9	11.0	67.2	120.84	-6,284.3	-72.5	6,495.9	6,418.6	77.23	84.116	
3,500.0	3,456.3	3,425.8	3,425.8	11.3	68.3	120.93	-6,284.3	-72.5	6,501.9	6,423.3	78.52	82.804	
3,543.3	3,498.6	3,468.1	3,468.1	11.5	69.1	121.00	-6,284.3	-72.5	6,506.6	6,427.0	79.54	81.803	
3,600.0	3,554.1	3,523.6	3,523.6	11.7	70.3	121.08	-6,284.3	-72.5	6,512.7	6,431.9	80.87	80.531	
3,641.7	3,594.9	3,564.4	3,564.4	11.9	71.1	121.15	-6,284.3	-72.5	6,517.3	6,435.4	81.85	79.621	
3,700.0	3,651.9	3,621.4	3,621.4	12.2	72.2	121.24	-6,284.3	-72.5	6,523.7	6,440.4	83.22	78.387	
3,740.1	3,691.2	3,660.7	3,660.7	12.3	73.0	121.30	-6,284.3	-72.5	6,528.1	6,443.9	84.17	77.560	
3,800.0	3,749.7	3,719.2	3,719.2	12.6	74.2	121.39	-6,284.3	-72.5	6,534.7	6,449.1	85.57	76.362	
3,838.6	3,787.5	3,757.0	3,757.0	12.8	75.0	121.45	-6,284.3	-72.5	6,538.9	6,452.4	86.48	75.611	
3,900.0	3,847.5	3,817.0	3,817.0	13.0	76.2	121.54	-6,284.3	-72.5	6,545.7	6,457.8	87.93	74.446	
3,937.0	3,883.7	3,853.2	3,853.2	13.2	76.9	121.60	-6,284.3	-72.5	6,549.8	6,461.0	88.79	73.763	
4,000.0	3,945.4	3,914.9	3,914.9	13.5	78.1	121.70	-6,284.3	-72.5	6,556.8	6,466.5	90.28	72.631	
4,035.4	3,980.0	3,949.5	3,949.5	13.7	78.8	121.75	-6,284.3	-72.5	6,560.7	6,469.6	91.11	72.010	
4,068.9	4,012.7	3,982.2	3,982.2	13.8	79.5	121.80	-6,284.3	-72.5	6,564.4	6,472.5	91.89	71.435	
4,100.0	4,043.2	4,012.7	4,012.7	13.9	80.1	121.91	-6,284.3	-72.5	6,567.8	6,475.1	92.65	70.886	
4,133.8	4,076.4	4,045.9	4,045.9	14.0	80.8	122.01	-6,284.3	-72.5	6,571.3	6,477.8	93.46	70.313	
4,200.0	4,141.6	4,111.1	4,111.1	14.2	82.1	122.20	-6,284.3	-72.5	6,577.5	6,482.4	95.03	69.217	
4,232.3	4,173.4	4,142.9	4,142.9	14.3	82.7	122.29	-6,284.3	-72.5	6,580.2	6,484.4	95.78	68.699	
4,300.0	4,240.5	4,210.0	4,210.0	14.5	84.1	122.44	-6,284.3	-72.5	6,585.3	6,488.0	97.37	67.634	
4,330.7	4,271.0	4,240.5	4,240.5	14.6	84.7	122.50	-6,284.3	-72.5	6,587.4	6,489.3	98.07	67.167	
4,400.0	4,339.9	4,309.4	4,309.4	14.8	86.1	122.62	-6,284.3	-72.5	6,591.3	6,491.7	99.67	66.134	
4,429.1	4,368.9	4,338.4	4,338.4	14.8	86.6	122.67	-6,284.3	-72.5	6,592.7	6,492.4	100.32	65.715	
4,500.0	4,439.6	4,409.1	4,409.1	15.0	88.1	122.75	-6,284.3	-72.5	6,595.5	6,493.5	101.92	64.715	
4,527.5	4,467.1	4,436.6	4,436.6	15.0	88.6	122.77	-6,284.3	-72.5	6,596.3	6,493.7	102.52	64.339	
4,600.0	4,539.5	4,509.0	4,509.0	15.1	90.1	122.82	-6,284.3	-72.5	6,597.7	6,493.6	104.11	63.370	
4,626.0	4,565.4	4,534.9	4,534.9	15.2	90.6	122.83	-6,284.3	-72.5	6,598.0	6,493.3	104.67	63.034	
4,668.9	4,608.4	4,577.9	4,577.9	15.2	91.5	-174.60	-6,284.3	-72.5	6,598.2	6,492.5	105.61	62.478	
4,700.0	4,639.5	4,609.0	4,609.0	15.3	92.1	-174.60	-6,284.3	-72.5	6,598.2	6,491.9	106.28	62.085	
4,724.4	4,663.9	4,633.4	4,633.4	15.3	92.6	-174.60	-6,284.3	-72.5	6,598.2	6,491.3	106.80	61.778	
4,800.0	4,739.5	4,709.0	4,709.0	15.4	94.1	-174.60	-6,284.3	-72.5	6,598.2	6,489.7	108.44	60.845	
4,822.8	4,762.3	4,731.8	4,731.8	15.4	94.6	-174.60	-6,284.3	-72.5	6,598.2	6,489.2	108.94	60.568	
4,900.0	4,839.5	4,809.0	4,809.0	15.6	96.1	-174.60	-6,284.3	-72.5	6,598.2	6,487.5	110.61	59.652	
4,921.2	4,860.7	4,830.2	4,830.2	15.6	96.5	-174.60	-6,284.3	-72.5	6,598.2	6,487.1	111.07	59.404	
5,000.0	4,939.5	4,909.0	4,909.0	15.7	98.1	-174.60	-6,284.3	-72.5	6,598.2	6,485.4	112.78	58.504	
5,019.7	4,959.1	4,928.6	4,928.6	15.7	98.5	-174.60	-6,284.3	-72.5	6,598.2	6,484.9	113.21	58.283	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	5,009.0	5,009.0	15.9	100.1	-174.60	-6,284.3	-72.5	6,598.2	6,483.2	114.95	57.398	
5,118.1	5,057.6	5,027.1	5,027.1	15.9	100.5	-174.60	-6,284.3	-72.5	6,598.2	6,482.8	115.35	57.202	
5,200.0	5,139.5	5,109.0	5,109.0	16.0	102.1	-174.60	-6,284.3	-72.5	6,598.2	6,481.0	117.13	56.333	
5,216.5	5,156.0	5,125.5	5,125.5	16.0	102.5	-174.60	-6,284.3	-72.5	6,598.2	6,480.7	117.49	56.161	
5,300.0	5,239.5	5,209.0	5,209.0	16.2	104.2	-174.60	-6,284.3	-72.5	6,598.2	6,478.8	119.30	55.306	
5,314.9	5,254.4	5,223.9	5,223.9	16.2	104.5	-174.60	-6,284.3	-72.5	6,598.2	6,478.5	119.63	55.155	
5,400.0	5,339.5	5,309.0	5,309.0	16.3	106.2	-174.60	-6,284.3	-72.5	6,598.2	6,476.7	121.48	54.315	
5,413.4	5,352.8	5,322.3	5,322.3	16.3	106.4	-174.60	-6,284.3	-72.5	6,598.2	6,476.4	121.77	54.185	
5,500.0	5,439.5	5,409.0	5,409.0	16.5	108.2	-174.60	-6,284.3	-72.5	6,598.2	6,474.5	123.66	53.358	
5,511.8	5,451.3	5,420.8	5,420.8	16.5	108.4	-174.60	-6,284.3	-72.5	6,598.2	6,474.2	123.92	53.247	
5,600.0	5,539.5	5,509.0	5,509.0	16.6	110.2	-174.60	-6,284.3	-72.5	6,598.2	6,472.3	125.84	52.434	
5,610.2	5,549.7	5,519.2	5,519.2	16.6	110.4	-174.60	-6,284.3	-72.5	6,598.2	6,472.1	126.06	52.341	
5,700.0	5,639.5	5,609.0	5,609.0	16.8	112.2	-174.60	-6,284.3	-72.5	6,598.2	6,470.1	128.02	51.540	
5,708.6	5,648.1	5,617.6	5,617.6	16.8	112.4	-174.60	-6,284.3	-72.5	6,598.2	6,469.9	128.21	51.464	
5,800.0	5,739.5	5,709.0	5,709.0	17.0	114.2	-174.60	-6,284.3	-72.5	6,598.2	6,467.9	130.20	50.676	
5,807.1	5,746.5	5,716.0	5,716.0	17.0	114.4	-174.60	-6,284.3	-72.5	6,598.2	6,467.8	130.36	50.616	
5,900.0	5,839.5	5,809.0	5,809.0	17.1	116.2	-174.60	-6,284.3	-72.5	6,598.2	6,465.8	132.39	49.840	
5,905.5	5,845.0	5,814.5	5,814.5	17.1	116.3	-174.60	-6,284.3	-72.5	6,598.2	6,465.6	132.51	49.795	
6,000.0	5,939.5	5,909.0	5,909.0	17.3	118.2	-174.60	-6,284.3	-72.5	6,598.2	6,463.6	134.57	49.031	
6,003.9	5,943.4	5,912.9	5,912.9	17.3	118.3	-174.60	-6,284.3	-72.5	6,598.2	6,463.5	134.66	49.000	
6,100.0	6,039.5	6,009.0	6,009.0	17.4	120.2	-174.60	-6,284.3	-72.5	6,598.2	6,461.4	136.76	48.247	
6,102.3	6,041.8	6,011.3	6,011.3	17.4	120.3	-174.60	-6,284.3	-72.5	6,598.2	6,461.3	136.81	48.229	
6,200.0	6,139.5	6,109.0	6,109.0	17.6	122.3	-174.60	-6,284.3	-72.5	6,598.2	6,459.2	138.94	47.488	
6,200.8	6,140.2	6,109.7	6,109.7	17.6	122.3	-174.60	-6,284.3	-72.5	6,598.2	6,459.2	138.96	47.482	
6,299.2	6,238.7	6,208.2	6,208.2	17.8	124.2	-174.60	-6,284.3	-72.5	6,598.2	6,457.0	141.12	46.757	
6,300.0	6,239.5	6,209.0	6,209.0	17.8	124.3	-174.60	-6,284.3	-72.5	6,598.2	6,457.0	141.13	46.751	
6,360.9	6,300.4	6,269.9	6,269.9	17.9	125.5	-174.60	-6,284.3	-72.5	6,598.2	6,455.7	142.47	46.313	
6,397.6	6,337.1	6,306.6	6,306.6	17.9	126.2	5.20	-6,284.3	-72.5	6,597.2	6,454.2	143.04	46.123	
6,400.0	6,339.5	6,309.0	6,309.0	17.9	126.3	5.20	-6,284.3	-72.5	6,597.1	6,454.0	143.06	46.114	
6,450.0	6,389.2	6,358.7	6,358.7	18.0	127.3	5.23	-6,284.3	-72.5	6,592.6	6,449.4	143.21	46.035	
6,496.0	6,434.7	6,404.2	6,404.2	18.0	128.2	5.29	-6,284.3	-72.5	6,585.5	6,442.8	142.72	46.143	
6,500.0	6,438.6	6,408.1	6,408.1	18.0	128.3	5.30	-6,284.3	-72.5	6,584.7	6,442.1	142.65	46.160	
6,550.0	6,487.3	6,456.8	6,456.8	18.0	129.2	5.39	-6,284.3	-72.5	6,573.4	6,432.1	141.38	46.496	
6,594.5	6,529.8	6,499.3	6,499.3	18.0	130.1	5.51	-6,284.3	-72.5	6,560.6	6,420.9	139.64	46.982	
6,600.0	6,535.1	6,504.6	6,504.6	18.1	130.2	5.52	-6,284.3	-72.5	6,558.8	6,419.4	139.38	47.055	
6,650.0	6,581.7	6,551.2	6,551.2	18.0	131.1	5.69	-6,284.3	-72.5	6,540.8	6,404.2	136.68	47.857	
6,692.9	6,620.6	6,590.1	6,590.1	18.0	131.9	5.86	-6,284.3	-72.5	6,522.9	6,389.1	133.79	48.755	
6,700.0	6,626.9	6,596.4	6,596.4	18.0	132.1	5.90	-6,284.3	-72.5	6,519.7	6,386.4	133.26	48.925	
6,750.0	6,670.6	6,640.1	6,640.1	18.0	132.9	6.15	-6,284.3	-72.5	6,495.5	6,366.3	129.15	50.292	
6,791.3	6,705.4	6,674.9	6,674.9	18.0	133.6	6.40	-6,284.3	-72.5	6,473.2	6,347.9	125.26	51.679	
6,800.0	6,712.5	6,682.0	6,682.0	18.0	133.8	6.46	-6,284.3	-72.5	6,468.3	6,343.9	124.38	52.003	
6,850.0	6,752.3	6,721.8	6,721.8	18.0	134.6	6.84	-6,284.3	-72.5	6,438.2	6,319.2	118.98	54.111	
6,889.7	6,782.5	6,752.0	6,752.0	18.0	135.2	7.20	-6,284.3	-72.5	6,412.4	6,298.1	114.27	56.114	
6,900.0	6,790.0	6,759.5	6,759.5	18.0	135.3	7.31	-6,284.3	-72.5	6,405.5	6,292.5	113.00	56.684	
6,950.0	6,825.3	6,794.8	6,794.8	18.0	136.0	7.87	-6,284.3	-72.5	6,370.2	6,263.7	106.51	59.806	
6,988.2	6,850.5	6,820.0	6,820.0	17.9	136.6	8.40	-6,284.3	-72.5	6,341.7	6,240.4	101.28	62.617	
7,000.0	6,858.0	6,827.5	6,827.5	17.9	136.7	8.58	-6,284.3	-72.5	6,332.6	6,233.0	99.61	63.571	
7,050.0	6,888.0	6,857.5	6,857.5	18.0	137.3	9.46	-6,284.3	-72.5	6,292.8	6,200.3	92.45	68.067	
7,086.6	6,908.1	6,877.6	6,877.6	18.0	137.7	10.25	-6,284.3	-72.5	6,262.4	6,175.2	87.16	71.851	
7,100.0	6,915.1	6,884.6	6,884.6	18.0	137.9	10.59	-6,284.3	-72.5	6,251.0	6,165.7	85.25	73.326	
7,150.0	6,939.2	6,908.7	6,908.7	18.0	138.3	12.06	-6,284.3	-72.5	6,207.4	6,129.0	78.40	79.174	
7,185.0	6,954.3	6,923.8	6,923.8	18.1	138.6	13.39	-6,284.3	-72.5	6,175.9	6,101.8	74.17	83.268	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,960.3	6,929.8	6,929.8	18.1	138.8	14.05	-6,284.3	-72.5	6,162.3	6,089.7	72.60	84.875	
7,250.0	6,978.1	6,947.6	6,947.6	18.3	139.1	16.86	-6,284.3	-72.5	6,115.8	6,046.6	69.14	88.454	
7,283.4	6,988.2	6,957.7	6,957.7	18.4	139.3	19.46	-6,284.3	-72.5	6,084.0	6,014.8	69.21	87.903	
7,300.0	6,992.6	6,962.1	6,962.1	18.4	139.4	21.05	-6,284.3	-72.5	6,068.2	5,997.9	70.31	86.311	
7,350.0	7,003.7	6,973.2	6,973.2	18.7	139.6	27.84	-6,284.3	-72.5	6,019.7	5,939.9	79.80	75.432	
7,381.9	7,009.1	6,978.6	6,978.6	18.9	139.7	34.67	-6,284.3	-72.5	5,988.4	5,895.8	92.58	64.685	
7,400.0	7,011.4	6,980.9	6,980.9	19.0	139.8	40.01	-6,284.3	-72.5	5,970.5	5,867.7	102.87	58.040	
7,450.0	7,015.7	6,985.2	6,985.2	19.3	139.9	63.66	-6,284.3	-72.5	5,921.0	5,780.0	140.92	42.015	
7,480.3	7,016.6	6,986.1	6,986.1	19.6	139.9	85.59	-6,284.3	-72.5	5,890.8	5,733.7	157.15	37.484	
7,488.2	7,016.6	6,986.1	6,986.1	19.6	139.9	91.76	-6,284.3	-72.5	5,883.0	5,725.2	157.81	37.279	
7,500.0	7,016.6	6,986.1	6,986.1	19.7	139.9	91.76	-6,284.3	-72.5	5,871.2	5,713.3	157.93	37.177	
7,578.7	7,016.3	6,985.8	6,985.8	20.5	139.9	91.74	-6,284.3	-72.5	5,792.9	5,634.2	158.75	36.491	
7,600.0	7,016.2	6,985.7	6,985.7	20.7	139.9	91.73	-6,284.3	-72.5	5,771.8	5,612.8	158.97	36.306	
7,677.1	7,016.0	6,985.5	6,985.5	21.6	139.9	91.71	-6,284.3	-72.5	5,695.0	5,535.2	159.88	35.620	
7,700.0	7,015.9	6,985.4	6,985.4	21.8	139.9	91.70	-6,284.3	-72.5	5,672.3	5,512.2	160.15	35.418	
7,775.6	7,015.7	6,985.2	6,985.2	22.7	139.9	91.68	-6,284.3	-72.5	5,597.2	5,436.0	161.13	34.737	
7,800.0	7,015.6	6,985.1	6,985.1	23.0	139.9	91.68	-6,284.3	-72.5	5,572.9	5,411.4	161.45	34.518	
7,874.0	7,015.4	6,984.9	6,984.9	24.0	139.9	91.65	-6,284.3	-72.5	5,499.3	5,336.8	162.48	33.847	
7,900.0	7,015.3	6,984.8	6,984.8	24.4	139.9	91.65	-6,284.3	-72.5	5,473.5	5,310.6	162.84	33.613	
7,972.4	7,015.1	6,984.6	6,984.6	25.4	139.9	91.62	-6,284.3	-72.5	5,401.5	5,237.6	163.91	32.955	
8,000.0	7,015.0	6,984.5	6,984.5	25.8	139.9	91.62	-6,284.3	-72.5	5,374.1	5,209.8	164.31	32.707	
8,070.8	7,014.8	6,984.3	6,984.3	26.8	139.9	91.60	-6,284.3	-72.5	5,303.7	5,138.3	165.40	32.065	
8,100.0	7,014.7	6,984.2	6,984.2	27.3	139.9	91.59	-6,284.3	-72.5	5,274.7	5,108.9	165.85	31.804	
8,169.3	7,014.4	6,983.9	6,983.9	28.3	139.8	91.57	-6,284.3	-72.5	5,205.9	5,038.9	166.95	31.181	
8,200.0	7,014.4	6,983.9	6,983.9	28.8	139.8	91.56	-6,284.3	-72.5	5,175.4	5,007.9	167.44	30.908	
8,267.7	7,014.1	6,983.6	6,983.6	29.9	139.8	91.54	-6,284.3	-72.5	5,108.1	4,939.6	168.56	30.305	
8,300.0	7,014.0	6,983.5	6,983.5	30.4	139.8	91.53	-6,284.3	-72.5	5,076.0	4,907.0	169.08	30.021	
8,366.1	7,013.8	6,983.3	6,983.3	31.5	139.8	91.51	-6,284.3	-72.5	5,010.4	4,840.2	170.20	29.439	
8,400.0	7,013.7	6,983.2	6,983.2	32.0	139.8	91.50	-6,284.3	-72.5	4,976.8	4,806.0	170.76	29.144	
8,464.5	7,013.5	6,983.0	6,983.0	33.1	139.8	91.48	-6,284.3	-72.5	4,912.7	4,740.8	171.87	28.584	
8,500.0	7,013.4	6,982.9	6,982.9	33.7	139.8	91.47	-6,284.3	-72.5	4,877.5	4,705.0	172.48	28.279	
8,563.0	7,013.2	6,982.7	6,982.7	34.8	139.8	91.45	-6,284.3	-72.5	4,815.0	4,641.4	173.57	27.740	
8,600.0	7,013.1	6,982.6	6,982.6	35.4	139.8	91.44	-6,284.3	-72.5	4,778.3	4,604.0	174.22	27.427	
8,661.4	7,012.9	6,982.4	6,982.4	36.5	139.8	91.43	-6,284.3	-72.5	4,717.3	4,542.0	175.30	26.910	
8,700.0	7,012.8	6,982.3	6,982.3	37.1	139.8	91.41	-6,284.3	-72.5	4,679.1	4,503.1	175.98	26.588	
8,759.8	7,012.6	6,982.1	6,982.1	38.2	139.8	91.40	-6,284.3	-72.5	4,619.7	4,442.7	177.05	26.093	
8,800.0	7,012.4	6,981.9	6,981.9	38.9	139.8	91.39	-6,284.3	-72.5	4,579.9	4,402.1	177.77	25.764	
8,858.2	7,012.3	6,981.8	6,981.8	39.9	139.8	91.37	-6,284.3	-72.5	4,522.1	4,343.3	178.82	25.289	
8,900.0	7,012.1	6,981.6	6,981.6	40.7	139.8	91.36	-6,284.3	-72.5	4,480.8	4,301.2	179.57	24.953	
8,956.7	7,011.9	6,981.4	6,981.4	41.7	139.8	91.34	-6,284.3	-72.5	4,424.6	4,244.0	180.60	24.499	
9,000.0	7,011.8	6,981.3	6,981.3	42.4	139.8	91.33	-6,284.3	-72.5	4,381.7	4,200.3	181.39	24.156	
9,055.1	7,011.6	6,981.1	6,981.1	43.4	139.8	91.31	-6,284.3	-72.5	4,327.1	4,144.7	182.40	23.723	
9,100.0	7,011.5	6,981.0	6,981.0	44.2	139.8	91.30	-6,284.3	-72.5	4,282.6	4,099.4	183.22	23.374	
9,153.5	7,011.3	6,980.8	6,980.8	45.2	139.8	91.28	-6,284.3	-72.5	4,229.6	4,045.4	184.21	22.961	
9,200.0	7,011.2	6,980.7	6,980.7	46.1	139.8	91.27	-6,284.3	-72.5	4,183.6	3,998.6	185.06	22.606	
9,251.9	7,011.0	6,980.5	6,980.5	47.0	139.8	91.25	-6,284.3	-72.5	4,132.2	3,946.2	186.03	22.213	
9,300.0	7,010.9	6,980.4	6,980.4	47.9	139.8	91.24	-6,284.3	-72.5	4,084.7	3,897.8	186.92	21.853	
9,350.4	7,010.7	6,980.2	6,980.2	48.8	139.8	91.22	-6,284.3	-72.5	4,034.8	3,847.0	187.86	21.478	
9,400.0	7,010.5	6,980.0	6,980.0	49.7	139.8	91.21	-6,284.3	-72.5	3,985.8	3,797.0	188.78	21.113	
9,448.8	7,010.4	6,979.9	6,979.9	50.6	139.8	91.19	-6,284.3	-72.5	3,937.5	3,747.8	189.69	20.757	
9,500.0	7,010.2	6,979.7	6,979.7	51.6	139.8	91.18	-6,284.3	-72.5	3,886.9	3,696.3	190.65	20.387	
9,547.2	7,010.1	6,979.6	6,979.6	52.5	139.8	91.16	-6,284.3	-72.5	3,840.3	3,648.7	191.54	20.049	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,600.0	7,009.9	6,979.4	6,979.4	53.5	139.8	91.15	-6,284.3	-72.5	3,788.2	3,595.6	192.53	19.675	
9,645.6	7,009.8	6,979.3	6,979.3	54.3	139.8	91.14	-6,284.3	-72.5	3,743.1	3,549.7	193.39	19.355	
9,700.0	7,009.6	6,979.1	6,979.1	55.3	139.8	91.12	-6,284.3	-72.5	3,689.4	3,495.0	194.42	18.977	
9,744.1	7,009.4	6,978.9	6,978.9	56.2	139.7	91.11	-6,284.3	-72.5	3,645.9	3,450.7	195.25	18.673	
9,800.0	7,009.3	6,978.8	6,978.8	57.2	139.7	91.09	-6,284.3	-72.5	3,590.8	3,394.5	196.31	18.291	
9,842.5	7,009.1	6,978.6	6,978.6	58.0	139.7	91.08	-6,284.3	-72.5	3,548.9	3,351.8	197.12	18.004	
9,900.0	7,008.9	6,978.4	6,978.4	59.1	139.7	91.06	-6,284.3	-72.5	3,492.2	3,294.0	198.21	17.619	
9,940.9	7,008.8	6,978.3	6,978.3	59.9	139.7	91.05	-6,284.3	-72.5	3,451.9	3,252.9	198.99	17.347	
10,000.0	7,008.6	6,978.1	6,978.1	61.0	139.7	91.03	-6,284.3	-72.5	3,393.7	3,193.6	200.11	16.959	
10,039.3	7,008.5	6,978.0	6,978.0	61.7	139.7	91.02	-6,284.3	-72.5	3,355.0	3,154.1	200.86	16.703	
10,100.0	7,008.3	6,977.8	6,977.8	62.9	139.7	91.00	-6,284.3	-72.5	3,295.3	3,093.3	202.02	16.312	
10,137.8	7,008.2	6,977.7	6,977.7	63.6	139.7	90.99	-6,284.3	-72.5	3,258.2	3,055.5	202.74	16.071	
10,200.0	7,008.0	6,977.5	6,977.5	64.8	139.7	90.97	-6,284.3	-72.5	3,197.0	2,993.1	203.93	15.677	
10,236.2	7,007.9	6,977.4	6,977.4	65.5	139.7	90.96	-6,284.3	-72.5	3,161.5	2,956.9	204.62	15.451	
10,300.0	7,007.6	6,977.1	6,977.1	66.7	139.7	90.94	-6,284.3	-72.5	3,098.9	2,893.0	205.84	15.055	
10,334.6	7,007.5	6,977.0	6,977.0	67.3	139.7	90.93	-6,284.3	-72.5	3,064.9	2,858.4	206.51	14.842	
10,400.0	7,007.3	6,976.8	6,976.8	68.6	139.7	90.91	-6,284.3	-72.5	3,000.8	2,793.0	207.76	14.444	
10,433.0	7,007.2	6,976.7	6,976.7	69.2	139.7	90.90	-6,284.3	-72.5	2,968.4	2,760.0	208.39	14.244	
10,500.0	7,007.0	6,976.5	6,976.5	70.5	139.7	90.88	-6,284.3	-72.5	2,902.9	2,693.2	209.68	13.844	
10,531.5	7,006.9	6,976.4	6,976.4	71.1	139.7	90.87	-6,284.3	-72.5	2,872.1	2,661.8	210.28	13.658	
10,600.0	7,006.7	6,976.2	6,976.2	72.4	139.7	90.85	-6,284.3	-72.5	2,805.1	2,593.5	211.60	13.256	
10,629.9	7,006.6	6,976.1	6,976.1	73.0	139.7	90.84	-6,284.3	-72.5	2,775.9	2,563.7	212.18	13.083	
10,700.0	7,006.4	6,975.9	6,975.9	74.3	139.7	90.82	-6,284.3	-72.5	2,707.5	2,493.9	213.53	12.680	
10,728.3	7,006.3	6,975.8	6,975.8	74.9	139.7	90.81	-6,284.3	-72.5	2,679.8	2,465.8	214.08	12.518	
10,800.0	7,006.0	6,975.5	6,975.5	76.3	139.7	90.79	-6,284.3	-72.5	2,610.0	2,394.6	215.46	12.114	
10,826.7	7,005.9	6,975.4	6,975.4	76.8	139.7	90.78	-6,284.3	-72.5	2,584.0	2,368.0	215.97	11.964	
10,900.0	7,005.7	6,975.2	6,975.2	78.2	139.7	90.76	-6,284.3	-72.5	2,512.8	2,295.4	217.39	11.559	
10,925.2	7,005.6	6,975.1	6,975.1	78.7	139.7	90.75	-6,284.3	-72.5	2,488.3	2,270.4	217.87	11.421	
11,000.0	7,005.4	6,974.9	6,974.9	80.1	139.7	90.73	-6,284.3	-72.5	2,415.7	2,196.4	219.32	11.015	
11,023.6	7,005.3	6,974.8	6,974.8	80.6	139.7	90.72	-6,284.3	-72.5	2,392.9	2,173.1	219.78	10.888	
11,100.0	7,005.1	6,974.6	6,974.6	82.0	139.7	90.70	-6,284.3	-72.5	2,319.0	2,097.7	221.26	10.481	
11,122.0	7,005.0	6,974.5	6,974.5	82.5	139.7	90.69	-6,284.3	-72.5	2,297.7	2,076.0	221.68	10.365	
11,200.0	7,004.7	6,974.2	6,974.2	84.0	139.7	90.67	-6,284.3	-72.5	2,222.5	1,999.3	223.19	9.958	
11,220.4	7,004.7	6,974.2	6,974.2	84.4	139.7	90.66	-6,284.3	-72.5	2,202.8	1,979.2	223.59	9.852	
11,300.0	7,004.4	6,973.9	6,973.9	85.9	139.6	90.64	-6,284.3	-72.5	2,126.3	1,901.2	225.13	9.445	
11,318.9	7,004.4	6,973.9	6,973.9	86.3	139.6	90.63	-6,284.3	-72.5	2,108.2	1,882.7	225.50	9.349	
11,400.0	7,004.1	6,973.6	6,973.6	87.8	139.6	90.61	-6,284.3	-72.5	2,030.6	1,803.5	227.07	8.942	
11,417.3	7,004.0	6,973.5	6,973.5	88.2	139.6	90.60	-6,284.3	-72.5	2,014.0	1,786.6	227.41	8.857	
11,500.0	7,003.8	6,973.3	6,973.3	89.8	139.6	90.57	-6,284.3	-72.5	1,935.2	1,706.2	229.01	8.450	
11,515.7	7,003.7	6,973.2	6,973.2	90.1	139.6	90.57	-6,284.3	-72.5	1,920.3	1,690.9	229.32	8.374	
11,600.0	7,003.4	6,972.9	6,972.9	91.7	139.6	90.54	-6,284.3	-72.5	1,840.3	1,609.4	230.95	7.968	
11,614.1	7,003.4	6,972.9	6,972.9	92.0	139.6	90.54	-6,284.3	-72.5	1,827.0	1,595.7	231.23	7.901	
11,700.0	7,003.1	6,972.6	6,972.6	93.7	139.6	90.51	-6,284.3	-72.5	1,746.0	1,513.2	232.90	7.497	
11,712.6	7,003.1	6,972.6	6,972.6	93.9	139.6	90.51	-6,284.3	-72.5	1,734.2	1,501.1	233.14	7.439	
11,800.0	7,002.8	6,972.3	6,972.3	95.6	139.6	90.48	-6,284.3	-72.5	1,652.4	1,417.6	234.84	7.036	
11,811.0	7,002.7	6,972.2	6,972.2	95.8	139.6	90.48	-6,284.3	-72.5	1,642.2	1,407.1	235.05	6.986	
11,900.0	7,002.5	6,972.0	6,972.0	97.6	139.6	90.45	-6,284.3	-72.5	1,559.6	1,322.8	236.79	6.587	
11,909.4	7,002.4	6,971.9	6,971.9	97.7	139.6	90.45	-6,284.3	-72.5	1,550.9	1,313.9	236.97	6.545	
12,000.0	7,002.1	6,971.6	6,971.6	99.5	139.6	90.42	-6,284.3	-72.5	1,467.7	1,229.0	238.73	6.148	
12,007.8	7,002.1	6,971.6	6,971.6	99.7	139.6	90.42	-6,284.3	-72.5	1,460.6	1,221.7	238.89	6.114	
12,100.0	7,001.8	6,971.3	6,971.3	101.5	139.6	90.39	-6,284.3	-72.5	1,377.0	1,136.3	240.68	5.721	
12,106.3	7,001.8	6,971.3	6,971.3	101.6	139.6	90.39	-6,284.3	-72.5	1,371.3	1,130.5	240.80	5.695	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,200.0	7,001.5	6,971.0	6,971.0	103.4	139.6	90.36	-6,284.3	-72.5	1,287.6	1,045.0	242.63	5.307	
12,204.7	7,001.5	6,971.0	6,971.0	103.5	139.6	90.36	-6,284.3	-72.5	1,283.4	1,040.7	242.72	5.288	
12,300.0	7,001.2	6,970.7	6,970.7	105.3	139.6	90.33	-6,284.3	-72.5	1,199.9	955.3	244.58	4.906	
12,303.1	7,001.1	6,970.6	6,970.6	105.4	139.6	90.33	-6,284.3	-72.5	1,197.2	952.5	244.64	4.894	
12,400.0	7,000.8	6,970.3	6,970.3	107.3	139.6	90.30	-6,284.3	-72.5	1,114.2	867.7	246.53	4.820	
12,401.5	7,000.8	6,970.3	6,970.3	107.3	139.6	90.30	-6,284.3	-72.5	1,112.9	866.4	246.56	4.514	
12,500.0	7,000.5	6,970.0	6,970.0	109.3	139.6	90.26	-6,284.3	-72.5	1,031.2	782.7	248.48	4.150	
12,598.4	7,000.2	6,969.7	6,969.7	111.2	139.6	90.23	-6,284.3	-72.5	952.7	702.3	250.40	3.805	
12,600.0	7,000.2	6,969.7	6,969.7	111.2	139.6	90.23	-6,284.3	-72.5	951.4	701.0	250.43	3.799	
12,696.8	6,999.8	6,969.3	6,969.3	113.1	139.6	90.20	-6,284.3	-72.5	878.1	625.8	252.32	3.480	
12,700.0	6,999.8	6,969.3	6,969.3	113.2	139.6	90.20	-6,284.3	-72.5	875.8	623.4	252.38	3.470	
12,795.2	6,999.5	6,969.0	6,969.0	115.0	139.5	90.17	-6,284.3	-72.5	808.7	554.5	254.24	3.181	
12,800.0	6,999.5	6,969.0	6,969.0	115.1	139.5	90.17	-6,284.3	-72.5	805.5	551.2	254.34	3.167	
12,893.7	6,999.2	6,968.7	6,968.7	116.9	139.5	90.14	-6,284.3	-72.5	745.9	489.7	256.17	2.912	
12,900.0	6,999.2	6,968.7	6,968.7	117.1	139.5	90.14	-6,284.3	-72.5	742.1	485.8	256.29	2.896	
12,992.1	6,998.9	6,968.4	6,968.4	118.9	139.5	90.11	-6,284.3	-72.5	691.4	433.3	258.09	2.679	
13,000.0	6,998.8	6,968.3	6,968.3	119.0	139.5	90.11	-6,284.3	-72.5	687.4	429.2	258.24	2.662	
13,090.5	6,998.6	6,968.1	6,968.1	120.8	139.5	90.08	-6,284.3	-72.5	647.3	387.3	260.01	2.490	
13,100.0	6,998.5	6,968.0	6,968.0	121.0	139.5	90.08	-6,284.3	-72.5	643.7	383.5	260.20	2.474	
13,188.9	6,998.2	6,967.7	6,967.7	122.7	139.5	90.05	-6,284.3	-72.5	616.0	354.1	261.94	2.352	
13,200.0	6,998.2	6,967.7	6,967.7	122.9	139.5	90.04	-6,284.3	-72.5	613.4	351.2	262.15	2.340	
13,287.4	6,997.9	6,967.4	6,967.4	124.6	139.5	90.02	-6,284.3	-72.5	599.4	335.5	263.86	2.272	
13,300.0	6,997.9	6,967.4	6,967.4	124.9	139.5	90.01	-6,284.3	-72.5	598.4	334.3	264.11	2.266	
13,340.8	6,997.7	6,967.2	6,967.2	125.7	139.5	90.00	-6,284.3	-72.5	597.0	332.1	264.91	2.254 CC, ES	
13,385.8	6,997.6	6,967.1	6,967.1	126.6	139.5	89.99	-6,284.3	-72.5	598.7	332.9	265.79	2.253 SF	
13,400.0	6,997.5	6,967.0	6,967.0	126.9	139.5	89.98	-6,284.3	-72.5	599.9	333.9	266.06	2.255	
13,484.2	6,997.3	6,966.8	6,966.8	128.5	139.5	89.95	-6,284.3	-72.5	614.0	346.3	267.71	2.293	
13,500.0	6,997.2	6,966.7	6,966.7	128.8	139.5	89.95	-6,284.3	-72.5	617.9	349.8	268.02	2.305	
13,582.6	6,996.9	6,966.4	6,966.4	130.4	139.5	89.92	-6,284.3	-72.5	644.1	374.5	269.64	2.389	
13,600.0	6,996.9	6,966.4	6,966.4	130.8	139.5	89.92	-6,284.3	-72.5	650.8	380.9	269.98	2.411	
13,681.1	6,996.6	6,966.1	6,966.1	132.4	139.5	89.89	-6,284.3	-72.5	687.2	415.6	271.56	2.530	
13,700.0	6,996.5	6,966.0	6,966.0	132.7	139.5	89.89	-6,284.3	-72.5	696.7	424.8	271.93	2.562	
13,779.5	6,996.3	6,965.8	6,965.8	134.3	139.5	89.86	-6,284.3	-72.5	740.8	467.4	273.49	2.709	
13,800.0	6,996.2	6,965.7	6,965.7	134.7	139.5	89.85	-6,284.3	-72.5	753.2	479.3	273.89	2.750	
13,877.9	6,995.9	6,965.4	6,965.4	136.2	139.5	89.83	-6,284.3	-72.5	803.1	527.6	275.42	2.916	
13,900.0	6,995.9	6,965.4	6,965.4	136.7	139.5	89.82	-6,284.3	-72.5	818.0	542.1	275.85	2.965	
13,976.3	6,995.6	6,965.1	6,965.1	138.2	139.5	89.80	-6,284.3	-72.5	872.0	594.6	277.34	3.144	
14,000.0	6,995.5	6,965.0	6,965.0	138.6	139.5	89.79	-6,284.3	-72.5	889.3	611.5	277.81	3.201	
14,074.8	6,995.3	6,964.8	6,964.8	140.1	139.5	89.77	-6,284.3	-72.5	946.1	666.8	279.27	3.388	
14,100.0	6,995.2	6,964.7	6,964.7	140.6	139.5	89.76	-6,284.3	-72.5	965.8	686.0	279.77	3.452	
14,162.0	6,995.0	6,964.5	6,964.5	141.8	139.5	89.74	-6,284.3	-72.5	1,015.3	734.3	280.94	3.614	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
0.0	0.0	0.0	0.0	0.0	0.0	-169.56	-4,222.3	-778.1	4,293.8				
98.4	98.4	47.8	47.8	0.1	0.0	-169.56	-4,222.3	-778.0	4,293.3	4,293.2	0.14	N/A	
100.0	100.0	49.8	49.8	0.1	0.1	-169.56	-4,222.3	-778.0	4,293.3	4,293.2	0.15	N/A	
196.8	196.8	152.6	152.6	0.3	0.1	-169.57	-4,222.0	-777.5	4,293.0	4,292.5	0.45	9,504.746	
200.0	200.0	155.5	155.5	0.3	0.1	-169.57	-4,222.0	-777.5	4,293.0	4,292.5	0.46	9,316.179	
295.3	295.3	243.9	243.9	0.5	0.2	-169.56	-4,221.7	-777.5	4,292.7	4,292.0	0.75	5,718.772	
300.0	300.0	248.2	248.2	0.5	0.2	-169.56	-4,221.7	-777.5	4,292.7	4,291.9	0.77	5,606.957	
393.7	393.7	339.0	339.0	0.8	0.3	-169.56	-4,221.6	-777.7	4,292.6	4,291.5	1.06	4,060.826	
400.0	400.0	345.7	345.7	0.8	0.3	-169.56	-4,221.6	-777.7	4,292.6	4,291.5	1.08	3,988.349	
492.1	492.1	442.1	442.1	1.0	0.4	-169.56	-4,221.4	-777.8	4,292.4	4,291.1	1.34	3,206.940	
500.0	500.0	450.3	450.3	1.0	0.4	-169.56	-4,221.3	-777.8	4,292.4	4,291.1	1.36	3,159.107	
590.5	590.5	544.6	544.6	1.2	0.4	-169.56	-4,221.1	-777.7	4,292.2	4,290.6	1.60	2,685.175	
600.0	600.0	554.4	554.4	1.2	0.4	-169.56	-4,221.1	-777.7	4,292.1	4,290.5	1.62	2,642.473	
689.0	689.0	644.2	644.2	1.4	0.5	-169.56	-4,220.8	-777.7	4,291.8	4,290.0	1.87	2,298.114	
700.0	700.0	654.9	654.9	1.4	0.5	-169.56	-4,220.7	-777.7	4,291.8	4,289.9	1.90	2,261.578	
787.4	787.4	736.0	736.0	1.6	0.5	-169.56	-4,220.5	-777.6	4,291.5	4,289.4	2.12	2,020.514	
800.0	800.0	747.0	747.0	1.7	0.5	-169.56	-4,220.5	-777.6	4,291.5	4,289.4	2.15	1,991.505	
850.9	850.9	791.4	791.4	1.8	0.5	-169.56	-4,220.5	-777.5	4,291.5	4,289.2	2.28	1,883.022	
885.8	885.8	823.9	823.9	1.9	0.5	-169.56	-4,220.5	-777.5	4,291.5	4,289.1	2.36	1,818.753	
900.0	900.0	837.5	837.5	1.9	0.5	-169.56	-4,220.5	-777.5	4,291.5	4,289.1	2.39	1,794.290	
984.2	984.2	918.7	918.7	2.1	0.5	-169.56	-4,220.6	-777.6	4,291.6	4,289.0	2.59	1,659.736	
1,000.0	1,000.0	934.5	934.5	2.1	0.5	-169.56	-4,220.6	-777.7	4,291.6	4,289.0	2.62	1,635.704	
1,082.7	1,082.7	1,016.9	1,016.9	2.3	0.5	-169.56	-4,220.7	-777.7	4,291.7	4,288.9	2.82	1,520.297	
1,100.0	1,100.0	1,034.0	1,034.0	2.3	0.5	-169.56	-4,220.7	-777.7	4,291.8	4,288.9	2.86	1,498.133	
1,181.1	1,181.1	1,117.0	1,117.0	2.5	0.5	127.87	-4,220.8	-777.9	4,292.6	4,289.5	3.06	1,401.822	
1,200.0	1,200.0	1,139.5	1,139.5	2.6	0.5	127.88	-4,220.8	-777.9	4,293.0	4,289.9	3.10	1,382.674	
1,279.5	1,279.4	1,220.6	1,220.6	2.7	0.5	127.88	-4,220.7	-777.9	4,295.3	4,292.0	3.28	1,307.797	
1,300.0	1,299.8	1,235.3	1,235.3	2.8	0.5	127.88	-4,220.7	-777.9	4,296.1	4,292.8	3.33	1,289.793	
1,377.9	1,377.5	1,300.0	1,300.0	3.0	0.6	127.86	-4,221.0	-777.8	4,300.4	4,296.9	3.52	1,222.429	
1,400.0	1,399.5	1,308.7	1,308.7	3.0	0.6	127.85	-4,221.1	-777.8	4,301.9	4,298.4	3.57	1,204.213	
1,476.4	1,475.3	1,381.0	1,381.0	3.2	0.6	127.84	-4,221.7	-777.7	4,308.1	4,304.3	3.79	1,137.321	
1,500.0	1,498.7	1,403.6	1,403.6	3.2	0.6	127.84	-4,221.9	-777.7	4,310.2	4,306.4	3.85	1,118.261	
1,574.8	1,572.6	1,479.6	1,479.6	3.5	0.6	127.84	-4,222.5	-777.8	4,317.9	4,313.8	4.08	1,059.048	
1,600.0	1,597.5	1,504.8	1,504.7	3.5	0.6	127.84	-4,222.6	-777.9	4,320.7	4,316.5	4.15	1,040.638	
1,673.2	1,669.4	1,573.5	1,573.5	3.7	0.6	127.83	-4,223.2	-778.2	4,329.7	4,325.3	4.39	986.359	
1,700.0	1,695.7	1,600.0	1,600.0	3.8	0.6	127.83	-4,223.4	-778.2	4,333.4	4,328.9	4.48	968.004	
1,771.6	1,765.7	1,667.3	1,667.2	4.1	0.7	127.98	-4,224.0	-778.4	4,343.3	4,338.5	4.72	920.923	
1,800.0	1,793.4	1,694.4	1,694.4	4.2	0.7	128.04	-4,224.2	-778.5	4,347.2	4,342.4	4.81	903.681	
1,870.1	1,862.0	1,768.3	1,768.3	4.4	0.7	128.21	-4,224.7	-779.0	4,356.9	4,351.9	5.06	861.488	
1,900.0	1,891.3	1,800.0	1,800.0	4.5	0.7	128.28	-4,224.9	-779.3	4,361.0	4,355.9	5.16	844.951	
1,968.5	1,958.3	1,863.5	1,863.5	4.8	0.7	128.42	-4,225.3	-779.8	4,370.5	4,365.1	5.41	808.308	
2,000.0	1,989.1	1,892.7	1,892.7	4.9	0.7	128.48	-4,225.5	-780.0	4,374.9	4,369.4	5.52	792.527	
2,066.9	2,054.5	1,976.5	1,976.5	5.2	0.8	128.67	-4,225.9	-780.8	4,384.2	4,378.4	5.77	760.066	
2,100.0	2,086.9	2,020.4	2,020.3	5.3	0.8	128.77	-4,225.9	-781.3	4,388.6	4,382.7	5.89	745.173	
2,165.3	2,150.8	2,106.6	2,106.6	5.6	0.8	128.97	-4,225.6	-782.5	4,397.2	4,391.1	6.13	716.806	
2,200.0	2,184.7	2,140.3	2,140.2	5.7	0.8	129.05	-4,225.3	-783.1	4,401.7	4,395.4	6.26	702.901	
2,263.8	2,247.1	2,202.2	2,202.1	5.9	0.8	129.19	-4,225.0	-783.8	4,409.9	4,403.4	6.50	678.367	
2,300.0	2,282.5	2,236.0	2,236.0	6.1	0.8	129.27	-4,224.8	-784.2	4,414.6	4,408.0	6.64	665.195	
2,362.2	2,343.4	2,294.1	2,294.0	6.4	0.9	129.41	-4,224.4	-785.1	4,422.8	4,415.9	6.87	643.525	
2,400.0	2,380.3	2,325.5	2,325.4	6.5	0.9	129.48	-4,224.2	-785.7	4,427.8	4,420.8	7.02	631.149	
2,460.6	2,439.6	2,374.6	2,374.6	6.8	0.9	129.60	-4,224.0	-786.7	4,435.9	4,428.7	7.25	612.149	
2,500.0	2,478.1	2,400.0	2,399.9	6.9	0.9	129.66	-4,223.9	-787.4	4,441.3	4,433.9	7.39	600.599	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,559.0	2,535.9	2,456.1	2,456.0	7.2	0.9	129.79	-4,223.8	-788.9	4,449.4	4,441.8	7.62	583.620	
2,600.0	2,576.0	2,490.4	2,490.2	7.4	0.9	129.88	-4,223.7	-789.8	4,455.2	4,447.4	7.78	572.559	
2,657.5	2,632.2	2,545.7	2,545.6	7.6	0.9	130.01	-4,223.7	-791.4	4,463.3	4,455.3	8.00	557.618	
2,700.0	2,673.8	2,588.1	2,587.9	7.8	1.0	130.11	-4,223.7	-792.7	4,469.3	4,461.2	8.17	547.106	
2,755.9	2,728.4	2,641.0	2,640.8	8.0	1.0	130.24	-4,223.6	-794.3	4,477.3	4,468.9	8.39	533.916	
2,800.0	2,771.6	2,682.3	2,682.0	8.2	1.0	130.34	-4,223.5	-795.6	4,483.6	4,475.0	8.56	524.019	
2,854.3	2,824.7	2,737.4	2,737.2	8.4	1.0	130.48	-4,223.5	-797.3	4,491.3	4,482.6	8.77	512.275	
2,900.0	2,869.4	2,785.8	2,785.6	8.6	1.0	130.59	-4,223.5	-798.6	4,497.9	4,488.9	8.95	502.832	
2,952.7	2,921.0	2,837.9	2,837.6	8.9	1.0	130.71	-4,223.4	-800.0	4,505.4	4,496.2	9.15	492.389	
3,000.0	2,967.2	2,883.3	2,883.0	9.1	1.1	130.82	-4,223.4	-801.1	4,512.1	4,502.8	9.33	483.457	
3,051.2	3,017.3	2,941.8	2,941.5	9.3	1.1	130.96	-4,223.3	-802.6	4,519.4	4,509.9	9.53	474.101	
3,100.0	3,065.0	3,001.6	3,001.3	9.5	1.1	131.10	-4,223.1	-804.1	4,526.3	4,516.6	9.72	465.536	
3,149.6	3,113.5	3,049.3	3,049.0	9.7	1.1	131.21	-4,222.8	-805.3	4,533.2	4,523.3	9.91	457.223	
3,200.0	3,162.8	3,097.8	3,097.4	9.9	1.1	131.32	-4,222.6	-806.4	4,540.3	4,530.1	10.11	449.128	
3,248.0	3,209.8	3,163.7	3,163.3	10.2	1.1	131.47	-4,222.2	-807.7	4,546.9	4,536.6	10.30	441.605	
3,300.0	3,260.7	3,223.8	3,223.4	10.4	1.2	131.60	-4,221.6	-809.0	4,553.9	4,543.4	10.50	433.823	
3,346.4	3,306.1	3,266.3	3,265.9	10.6	1.2	131.70	-4,221.2	-809.9	4,560.2	4,549.5	10.68	427.151	
3,400.0	3,358.5	3,315.6	3,315.2	10.8	1.2	131.81	-4,220.6	-811.0	4,567.5	4,556.6	10.88	419.738	
3,444.9	3,402.4	3,357.1	3,356.7	11.0	1.2	131.91	-4,220.2	-812.0	4,573.7	4,562.6	11.06	413.705	
3,500.0	3,456.3	3,408.5	3,408.0	11.3	1.2	132.02	-4,219.8	-813.3	4,581.3	4,570.0	11.27	406.567	
3,543.3	3,498.6	3,449.9	3,449.4	11.5	1.2	132.12	-4,219.4	-814.3	4,587.3	4,575.8	11.44	401.142	
3,600.0	3,554.1	3,504.1	3,503.6	11.7	1.3	132.24	-4,218.9	-815.6	4,595.2	4,583.5	11.65	394.291	
3,641.7	3,594.9	3,543.7	3,543.2	11.9	1.3	132.33	-4,218.6	-816.6	4,601.0	4,589.2	11.82	389.413	
3,700.0	3,651.9	3,600.0	3,599.5	12.2	1.3	132.45	-4,218.1	-818.0	4,609.2	4,597.1	12.04	382.832	
3,740.1	3,691.2	3,639.7	3,639.1	12.3	1.3	132.54	-4,217.7	-819.0	4,614.8	4,602.6	12.19	378.441	
3,800.0	3,749.7	3,700.0	3,699.4	12.6	1.3	132.68	-4,217.2	-820.5	4,623.2	4,610.8	12.42	372.109	
3,838.6	3,787.5	3,735.3	3,734.7	12.8	1.3	132.76	-4,216.9	-821.4	4,628.7	4,616.1	12.57	368.155	
3,900.0	3,847.5	3,791.0	3,790.4	13.0	1.4	132.88	-4,216.6	-822.3	4,637.4	4,624.6	12.81	362.056	
3,937.0	3,883.7	3,825.3	3,824.8	13.2	1.4	132.95	-4,216.4	-822.7	4,642.7	4,629.7	12.95	358.480	
4,000.0	3,945.4	3,884.2	3,883.6	13.5	1.4	133.07	-4,216.3	-823.3	4,651.7	4,638.5	13.19	352.582	
4,035.4	3,980.0	3,913.6	3,913.0	13.7	1.4	133.13	-4,216.2	-823.6	4,656.9	4,643.5	13.33	349.366	
4,068.9	4,012.7	3,938.1	3,937.5	13.8	1.4	133.18	-4,216.2	-823.9	4,661.8	4,648.3	13.46	346.398	
4,100.0	4,043.2	3,960.9	3,960.3	13.9	1.4	133.29	-4,216.2	-824.2	4,666.3	4,652.7	13.55	344.376	
4,133.8	4,076.4	3,985.7	3,985.1	14.0	1.4	133.40	-4,216.2	-824.5	4,670.9	4,657.3	13.63	342.710	
4,200.0	4,141.6	4,073.1	4,072.5	14.2	1.4	133.67	-4,216.4	-825.7	4,679.3	4,665.5	13.79	339.392	
4,232.3	4,173.4	4,113.5	4,112.9	14.3	1.5	133.79	-4,216.3	-826.1	4,682.9	4,669.0	13.86	337.952	
4,300.0	4,240.5	4,174.0	4,173.4	14.5	1.5	133.96	-4,216.2	-826.6	4,689.6	4,675.6	14.00	334.958	
4,330.7	4,271.0	4,201.7	4,201.1	14.6	1.5	134.04	-4,216.2	-826.7	4,692.3	4,678.2	14.06	333.764	
4,400.0	4,339.9	4,272.5	4,271.9	14.8	1.5	134.18	-4,216.3	-827.0	4,697.5	4,683.3	14.19	330.941	
4,429.1	4,368.9	4,302.5	4,301.9	14.8	1.5	134.23	-4,216.3	-827.1	4,699.4	4,685.1	14.24	329.902	
4,500.0	4,439.6	4,380.6	4,380.0	15.0	1.5	134.33	-4,216.3	-827.3	4,703.0	4,688.6	14.37	327.339	
4,527.5	4,467.1	4,409.7	4,409.1	15.0	1.5	134.36	-4,216.3	-827.5	4,704.0	4,689.6	14.41	326.471	
4,600.0	4,539.5	4,479.9	4,479.3	15.1	1.6	134.42	-4,216.2	-827.7	4,705.8	4,691.3	14.52	324.115	
4,626.0	4,565.4	4,507.0	4,506.4	15.2	1.6	134.43	-4,216.2	-827.7	4,706.2	4,691.6	14.55	323.366	
4,668.9	4,608.4	4,564.2	4,563.6	15.2	1.6	-163.00	-4,216.1	-827.8	4,706.4	4,691.7	14.63	321.784	
4,700.0	4,639.5	4,604.9	4,604.3	15.3	1.6	-163.00	-4,215.9	-827.8	4,706.2	4,691.6	14.68	320.687	
4,724.4	4,663.9	4,633.3	4,632.7	15.3	1.6	-163.00	-4,215.7	-827.8	4,706.1	4,691.4	14.72	319.721	
4,800.0	4,739.5	4,716.7	4,716.1	15.4	1.6	-162.99	-4,215.0	-828.1	4,705.5	4,690.7	14.85	316.776	
4,822.8	4,762.3	4,737.6	4,737.0	15.4	1.6	-162.99	-4,214.8	-828.3	4,705.4	4,690.5	14.90	315.895	
4,900.0	4,839.5	4,808.6	4,808.0	15.6	1.6	-162.98	-4,214.2	-828.7	4,704.9	4,689.8	15.03	312.962	
4,921.2	4,860.7	4,828.8	4,828.1	15.6	1.6	-162.98	-4,214.0	-828.8	4,704.7	4,689.7	15.07	312.159	
5,000.0	4,939.5	4,904.2	4,903.6	15.7	1.7	-162.98	-4,213.5	-828.9	4,704.3	4,689.1	15.21	309.219	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
5,019.7	4,959.1	4,928.2	4,927.6	15.7	1.7	-162.98	-4,213.4	-828.9	4,704.2	4,689.0	15.25	308.473	
5,100.0	5,039.5	5,021.3	5,020.7	15.9	1.7	-162.98	-4,212.8	-828.6	4,703.6	4,688.2	15.40	305.454	
5,118.1	5,057.6	5,039.4	5,038.8	15.9	1.7	-162.98	-4,212.6	-828.5	4,703.4	4,688.0	15.43	304.776	
5,200.0	5,139.5	5,117.2	5,116.6	16.0	1.7	-162.98	-4,212.0	-828.2	4,702.7	4,687.2	15.58	301.758	
5,216.5	5,156.0	5,130.5	5,129.9	16.0	1.7	-162.98	-4,211.9	-828.2	4,702.6	4,687.0	15.62	301.158	
5,300.0	5,239.5	5,200.0	5,199.4	16.2	1.7	-162.98	-4,211.6	-828.0	4,702.2	4,686.4	15.77	298.171	
5,314.9	5,254.4	5,212.0	5,211.4	16.2	1.7	-162.98	-4,211.6	-828.0	4,702.1	4,686.3	15.80	297.649	
5,400.0	5,339.5	5,296.0	5,295.4	16.3	1.7	-162.99	-4,211.5	-827.2	4,701.8	4,685.9	15.96	294.674	
5,413.4	5,352.8	5,309.1	5,308.5	16.3	1.7	-162.99	-4,211.5	-827.0	4,701.8	4,685.8	15.98	294.201	
5,500.0	5,439.5	5,393.1	5,392.4	16.5	1.7	-163.01	-4,211.7	-825.6	4,701.5	4,685.4	16.15	291.155	
5,511.8	5,451.3	5,400.0	5,399.4	16.5	1.7	-163.01	-4,211.7	-825.5	4,701.5	4,685.3	16.17	290.757	
5,519.4	5,458.9	5,400.0	5,399.4	16.5	1.7	-163.01	-4,211.7	-825.5	4,701.5	4,685.3	16.18	290.515	
5,600.0	5,539.5	5,400.0	5,399.4	16.6	1.7	-163.01	-4,211.7	-825.5	4,702.2	4,685.9	16.33	288.023	
5,610.2	5,549.7	5,400.0	5,399.4	16.6	1.7	-163.01	-4,211.7	-825.5	4,702.4	4,686.0	16.34	287.714	
5,700.0	5,639.5	5,400.0	5,399.4	16.8	1.7	-163.01	-4,211.7	-825.5	4,705.0	4,688.5	16.50	285.085	
5,708.6	5,648.1	5,400.0	5,399.4	16.8	1.7	-163.01	-4,211.7	-825.5	4,705.3	4,688.8	16.52	284.838	
5,800.0	5,739.5	5,400.0	5,399.4	17.0	1.7	-163.01	-4,211.7	-825.5	4,709.9	4,693.2	16.68	282.316	
5,807.1	5,746.5	5,400.0	5,399.4	17.0	1.7	-163.01	-4,211.7	-825.5	4,710.3	4,693.6	16.70	282.126	
5,900.0	5,839.5	5,400.0	5,399.4	17.1	1.7	-163.01	-4,211.7	-825.5	4,716.9	4,700.0	16.86	279.712	
5,905.5	5,845.0	5,400.0	5,399.4	17.1	1.7	-163.01	-4,211.7	-825.5	4,717.3	4,700.5	16.87	279.573	
6,000.0	5,939.5	5,400.0	5,399.4	17.3	1.7	-163.01	-4,211.7	-825.5	4,726.0	4,709.0	17.04	277.268	
6,003.9	5,943.4	5,400.0	5,399.4	17.3	1.7	-163.01	-4,211.7	-825.5	4,726.4	4,709.4	17.05	277.175	
6,100.0	6,039.5	5,400.0	5,399.4	17.4	1.7	-163.01	-4,211.7	-825.5	4,737.2	4,720.0	17.23	274.979	
6,102.3	6,041.8	5,400.0	5,399.4	17.4	1.7	-163.01	-4,211.7	-825.5	4,737.5	4,720.3	17.23	274.926	
6,200.0	6,139.5	5,400.0	5,399.4	17.6	1.7	-163.01	-4,211.7	-825.5	4,750.5	4,733.1	17.41	272.840	
6,200.8	6,140.2	5,400.0	5,399.4	17.6	1.7	-163.01	-4,211.7	-825.5	4,750.6	4,733.2	17.41	272.824	
6,299.2	6,238.7	5,400.0	5,399.4	17.8	1.7	-163.01	-4,211.7	-825.5	4,765.7	4,748.1	17.59	270.863	
6,300.0	6,239.5	5,400.0	5,399.4	17.8	1.7	-163.01	-4,211.7	-825.5	4,765.9	4,748.3	17.60	270.848	
6,360.9	6,300.4	5,400.0	5,399.4	17.9	1.7	-163.01	-4,211.7	-825.5	4,776.2	4,758.5	17.71	269.703	
6,397.6	6,337.1	5,400.0	5,399.4	17.9	1.7	16.65	-4,211.7	-825.5	4,781.9	4,764.2	17.73	269.714	
6,400.0	6,339.5	5,400.0	5,399.4	17.9	1.7	16.64	-4,211.7	-825.5	4,782.3	4,764.5	17.73	269.696	
6,450.0	6,389.2	5,400.0	5,399.4	18.0	1.7	16.52	-4,211.7	-825.5	4,787.5	4,769.7	17.78	269.337	
6,496.0	6,434.7	5,400.0	5,399.4	18.0	1.7	16.47	-4,211.7	-825.5	4,789.8	4,772.0	17.81	268.946	
6,500.0	6,438.6	5,400.0	5,399.4	18.0	1.7	16.46	-4,211.7	-825.5	4,789.9	4,772.1	17.81	268.919	
6,550.0	6,487.3	5,400.0	5,399.4	18.0	1.7	16.47	-4,211.7	-825.5	4,789.5	4,771.6	17.83	268.683	
6,594.5	6,529.8	5,400.0	5,399.4	18.0	1.7	16.54	-4,211.7	-825.5	4,786.7	4,768.9	17.81	268.780	
6,600.0	6,535.1	5,400.0	5,399.4	18.1	1.7	16.55	-4,211.7	-825.5	4,786.2	4,768.4	17.80	268.822	
6,650.0	6,581.7	5,400.0	5,399.4	18.0	1.7	16.69	-4,211.7	-825.5	4,780.2	4,762.4	17.74	269.462	
6,692.9	6,620.6	5,400.0	5,399.4	18.0	1.7	16.86	-4,211.7	-825.5	4,772.8	4,755.1	17.65	270.461	
6,700.0	6,626.9	5,400.0	5,399.4	18.0	1.7	16.90	-4,211.7	-825.5	4,771.3	4,753.7	17.63	270.677	
6,750.0	6,670.6	5,400.0	5,399.4	18.0	1.7	17.18	-4,211.7	-825.5	4,759.7	4,742.2	17.47	272.500	
6,791.3	6,705.4	5,400.0	5,399.4	18.0	1.7	17.47	-4,211.7	-825.5	4,748.1	4,730.8	17.30	274.452	
6,800.0	6,712.5	5,400.0	5,399.4	18.0	1.7	17.53	-4,211.7	-825.5	4,745.4	4,728.1	17.26	274.928	
6,850.0	6,752.3	5,400.0	5,399.4	18.0	1.7	17.97	-4,211.7	-825.5	4,728.3	4,711.3	17.01	277.930	
6,889.7	6,782.5	5,400.0	5,399.4	18.0	1.7	18.39	-4,211.7	-825.5	4,712.9	4,696.1	16.79	280.658	
6,900.0	6,790.0	5,400.0	5,399.4	18.0	1.7	18.51	-4,211.7	-825.5	4,708.7	4,691.9	16.73	281.438	
6,950.0	6,825.3	5,400.0	5,399.4	18.0	1.7	19.15	-4,211.7	-825.5	4,686.5	4,670.0	16.42	285.338	
6,988.2	6,850.5	5,400.0	5,399.4	17.9	1.7	19.72	-4,211.7	-825.5	4,667.8	4,651.6	16.18	288.417	
7,000.0	6,858.0	5,400.0	5,399.4	17.9	1.7	19.91	-4,211.7	-825.5	4,661.7	4,645.6	16.11	289.455	
7,050.0	6,888.0	5,400.0	5,399.4	18.0	1.7	20.81	-4,211.7	-825.5	4,634.6	4,618.8	15.79	293.541	
7,086.6	6,908.1	5,400.0	5,399.4	18.0	1.7	21.57	-4,211.7	-825.5	4,613.3	4,597.7	15.56	296.529	
7,100.0	6,915.1	5,400.0	5,399.4	18.0	1.7	21.87	-4,211.7	-825.5	4,605.1	4,589.7	15.49	297.251	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
7,150.0	6,939.2	5,400.0	5,399.4	18.0	1.7	23.13	-4,211.7	-825.5	4,573.5	4,558.2	15.24	300.143	
7,185.0	6,954.3	5,400.0	5,399.4	18.1	1.7	24.14	-4,211.7	-825.5	4,550.0	4,534.9	15.10	301.407	
7,200.0	6,960.3	5,400.0	5,399.4	18.1	1.7	24.61	-4,211.7	-825.5	4,539.7	4,524.6	15.05	301.686	
7,250.0	6,978.1	5,400.0	5,399.4	18.3	1.7	26.38	-4,211.7	-825.5	4,503.9	4,488.9	14.95	301.313	
7,283.4	6,988.2	5,400.0	5,399.4	18.4	1.7	27.75	-4,211.7	-825.5	4,478.9	4,464.0	14.94	299.698	
7,300.0	6,992.6	5,400.0	5,399.4	18.4	1.7	28.49	-4,211.7	-825.5	4,466.2	4,451.3	14.96	298.505	
7,350.0	7,003.7	5,400.0	5,399.4	18.7	1.7	31.03	-4,211.7	-825.5	4,426.9	4,411.8	15.11	292.900	
7,381.9	7,009.1	5,400.0	5,399.4	18.9	1.7	32.92	-4,211.7	-825.5	4,400.9	4,385.6	15.29	287.753	
7,400.0	7,011.4	5,400.0	5,399.4	19.0	1.7	34.10	-4,211.7	-825.5	4,385.9	4,370.5	15.42	284.387	
7,450.0	7,015.7	5,400.0	5,399.4	19.3	1.7	37.85	-4,211.7	-825.5	4,343.5	4,327.6	15.90	273.143	
7,480.3	7,016.6	5,400.0	5,399.4	19.6	1.7	40.53	-4,211.7	-825.5	4,317.2	4,301.0	16.28	265.153	
7,488.2	7,016.6	5,400.0	5,399.4	19.6	1.7	41.28	-4,211.7	-825.5	4,310.3	4,293.9	16.39	262.980	
7,500.0	7,016.6	5,400.0	5,399.4	19.7	1.7	41.28	-4,211.7	-825.5	4,299.9	4,283.5	16.47	261.086	
7,578.7	7,016.3	5,400.0	5,399.4	20.5	1.7	41.28	-4,211.7	-825.5	4,231.0	4,213.9	17.04	248.275	
7,600.0	7,016.2	5,400.0	5,399.4	20.7	1.7	41.28	-4,211.7	-825.5	4,212.4	4,195.2	17.20	244.962	
7,677.1	7,016.0	5,400.0	5,399.4	21.6	1.7	41.28	-4,211.7	-825.5	4,145.2	4,127.4	17.83	232.438	
7,700.0	7,015.9	5,400.0	5,399.4	21.8	1.7	41.28	-4,211.7	-825.5	4,125.4	4,107.4	18.02	228.903	
7,775.6	7,015.7	5,400.0	5,399.4	22.7	1.7	41.28	-4,211.7	-825.5	4,060.1	4,041.4	18.71	216.946	
7,800.0	7,015.6	5,400.0	5,399.4	23.0	1.7	41.29	-4,211.7	-825.5	4,039.0	4,020.1	18.94	213.274	
7,874.0	7,015.4	5,400.0	5,399.4	24.0	1.7	41.29	-4,211.7	-825.5	3,975.5	3,955.9	19.67	202.105	
7,900.0	7,015.3	5,400.0	5,399.4	24.4	1.7	41.29	-4,211.7	-825.5	3,953.3	3,933.4	19.93	198.382	
7,972.4	7,015.1	5,400.0	5,399.4	25.4	1.7	41.29	-4,211.7	-825.5	3,891.7	3,871.0	20.69	188.105	
8,000.0	7,015.0	5,400.0	5,399.4	25.8	1.7	41.29	-4,211.7	-825.5	3,868.3	3,847.3	20.98	184.394	
8,070.8	7,014.8	5,400.0	5,399.4	26.8	1.7	41.29	-4,211.7	-825.5	3,808.5	3,786.7	21.76	175.035	
8,100.0	7,014.7	5,400.0	5,399.4	27.3	1.7	41.29	-4,211.7	-825.5	3,784.0	3,761.9	22.08	171.384	
8,169.3	7,014.4	5,400.0	5,399.4	28.3	1.7	41.29	-4,211.7	-825.5	3,726.0	3,703.1	22.87	162.918	
8,200.0	7,014.4	5,400.0	5,399.4	28.8	1.7	41.29	-4,211.7	-825.5	3,700.4	3,677.2	23.22	159.356	
8,267.7	7,014.1	5,400.0	5,399.4	29.9	1.7	41.29	-4,211.7	-825.5	3,644.3	3,620.3	24.02	151.734	
8,300.0	7,014.0	5,400.0	5,399.4	30.4	1.7	41.29	-4,211.7	-825.5	3,617.7	3,593.3	24.40	148.280	
8,366.1	7,013.8	5,400.0	5,399.4	31.5	1.7	41.29	-4,211.7	-825.5	3,563.5	3,538.3	25.20	141.436	
8,400.0	7,013.7	5,400.0	5,399.4	32.0	1.7	41.29	-4,211.7	-825.5	3,535.9	3,510.3	25.60	138.103	
8,464.5	7,013.5	5,400.0	5,399.4	33.1	1.7	41.29	-4,211.7	-825.5	3,483.6	3,457.2	26.40	131.967	
8,500.0	7,013.4	5,400.0	5,399.4	33.7	1.7	41.29	-4,211.7	-825.5	3,455.1	3,428.3	26.83	128.759	
8,563.0	7,013.2	5,400.0	5,399.4	34.8	1.7	41.29	-4,211.7	-825.5	3,404.7	3,377.1	27.62	123.263	
8,600.0	7,013.1	5,400.0	5,399.4	35.4	1.7	41.29	-4,211.7	-825.5	3,375.3	3,347.2	28.08	120.183	
8,661.4	7,012.9	5,400.0	5,399.4	36.5	1.7	41.29	-4,211.7	-825.5	3,326.8	3,297.9	28.86	115.261	
8,700.0	7,012.8	5,400.0	5,399.4	37.1	1.7	41.29	-4,211.7	-825.5	3,296.5	3,267.2	29.35	112.309	
8,759.8	7,012.6	5,400.0	5,399.4	38.2	1.7	41.29	-4,211.7	-825.5	3,250.0	3,219.9	30.12	107.901	
8,800.0	7,012.4	5,400.0	5,399.4	38.9	1.7	41.29	-4,211.7	-825.5	3,219.0	3,188.4	30.64	105.074	
8,858.2	7,012.3	5,400.0	5,399.4	39.9	1.7	41.29	-4,211.7	-825.5	3,174.4	3,143.0	31.39	101.126	
8,900.0	7,012.1	5,400.0	5,399.4	40.7	1.7	41.29	-4,211.7	-825.5	3,142.7	3,110.8	31.93	98.421	
8,956.7	7,011.9	5,400.0	5,399.4	41.7	1.7	41.29	-4,211.7	-825.5	3,100.1	3,067.4	32.67	94.884	
9,000.0	7,011.8	5,400.0	5,399.4	42.4	1.7	41.29	-4,211.7	-825.5	3,067.8	3,034.6	33.24	92.296	
9,055.1	7,011.6	5,400.0	5,399.4	43.4	1.7	41.29	-4,211.7	-825.5	3,027.2	2,993.2	33.96	89.127	
9,100.0	7,011.5	5,400.0	5,399.4	44.2	1.7	41.29	-4,211.7	-825.5	2,994.4	2,959.9	34.56	86.653	
9,153.5	7,011.3	5,400.0	5,399.4	45.2	1.7	41.29	-4,211.7	-825.5	2,955.7	2,920.5	35.27	83.813	
9,200.0	7,011.2	5,400.0	5,399.4	46.1	1.7	41.29	-4,211.7	-825.5	2,922.5	2,886.7	35.88	81.449	
9,251.9	7,011.0	5,400.0	5,399.4	47.0	1.7	41.29	-4,211.7	-825.5	2,885.9	2,849.3	36.57	78.904	
9,300.0	7,010.9	5,400.0	5,399.4	47.9	1.7	41.29	-4,211.7	-825.5	2,852.4	2,815.2	37.21	76.646	
9,350.4	7,010.7	5,400.0	5,399.4	48.8	1.7	41.29	-4,211.7	-825.5	2,817.7	2,779.8	37.89	74.366	
9,400.0	7,010.5	5,400.0	5,399.4	49.7	1.7	41.29	-4,211.7	-825.5	2,784.0	2,745.5	38.55	72.210	
9,448.8	7,010.4	5,400.0	5,399.4	50.6	1.7	41.29	-4,211.7	-825.5	2,751.4	2,712.2	39.21	70.168	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
9,500.0	7,010.2	5,400.0	5,399.4	51.6	1.7	41.29	-4,211.7	-825.5	2,717.7	2,677.8	39.90	68.111	
9,547.2	7,010.1	5,400.0	5,399.4	52.5	1.7	41.29	-4,211.7	-825.5	2,687.0	2,646.5	40.54	66.283	
9,600.0	7,009.9	5,400.0	5,399.4	53.5	1.7	41.29	-4,211.7	-825.5	2,653.4	2,612.1	41.25	64.322	
9,645.6	7,009.8	5,400.0	5,399.4	54.3	1.7	41.29	-4,211.7	-825.5	2,624.8	2,582.9	41.87	62.688	
9,700.0	7,009.6	5,400.0	5,399.4	55.3	1.7	41.29	-4,211.7	-825.5	2,591.4	2,548.8	42.61	60.820	
9,744.1	7,009.4	5,400.0	5,399.4	56.2	1.7	41.29	-4,211.7	-825.5	2,564.8	2,521.6	43.21	59.361	
9,800.0	7,009.3	5,400.0	5,399.4	57.2	1.7	41.29	-4,211.7	-825.5	2,531.8	2,487.9	43.97	57.584	
9,842.5	7,009.1	5,400.0	5,399.4	58.0	1.7	41.29	-4,211.7	-825.5	2,507.3	2,462.7	44.55	56.284	
9,900.0	7,008.9	5,400.0	5,399.4	59.1	1.7	41.29	-4,211.7	-825.5	2,474.9	2,429.5	45.33	54.595	
9,940.9	7,008.8	5,400.0	5,399.4	59.9	1.7	41.29	-4,211.7	-825.5	2,452.3	2,406.5	45.89	53.438	
10,000.0	7,008.6	5,400.0	5,399.4	61.0	1.7	41.29	-4,211.7	-825.5	2,420.7	2,374.0	46.70	51.836	
10,039.3	7,008.5	5,400.0	5,399.4	61.7	1.7	41.29	-4,211.7	-825.5	2,400.2	2,352.9	47.24	50.810	
10,100.0	7,008.3	5,400.0	5,399.4	62.9	1.7	41.29	-4,211.7	-825.5	2,369.5	2,321.4	48.07	49.294	
10,137.8	7,008.2	5,400.0	5,399.4	63.6	1.7	41.29	-4,211.7	-825.5	2,351.0	2,302.4	48.59	48.386	
10,200.0	7,008.0	5,400.0	5,399.4	64.8	1.7	41.29	-4,211.7	-825.5	2,321.5	2,272.1	49.44	46.954	
10,236.2	7,007.9	5,400.0	5,399.4	65.5	1.7	41.29	-4,211.7	-825.5	2,304.9	2,255.0	49.94	46.154	
10,300.0	7,007.6	5,400.0	5,399.4	66.7	1.7	41.29	-4,211.7	-825.5	2,276.9	2,226.1	50.82	44.804	
10,334.6	7,007.5	5,400.0	5,399.4	67.3	1.7	41.29	-4,211.7	-825.5	2,262.2	2,211.0	51.30	44.102	
10,400.0	7,007.3	5,400.0	5,399.4	68.6	1.7	41.29	-4,211.7	-825.5	2,235.8	2,183.6	52.20	42.835	
10,433.0	7,007.2	5,400.0	5,399.4	69.2	1.7	41.29	-4,211.7	-825.5	2,223.1	2,170.4	52.65	42.222	
10,500.0	7,007.0	5,400.0	5,399.4	70.5	1.7	41.29	-4,211.7	-825.5	2,198.6	2,145.0	53.58	41.036	
10,531.5	7,006.9	5,400.0	5,399.4	71.1	1.7	41.29	-4,211.7	-825.5	2,187.7	2,133.7	54.01	40.503	
10,600.0	7,006.7	5,400.0	5,399.4	72.4	1.7	41.29	-4,211.7	-825.5	2,165.3	2,110.3	54.96	39.399	
10,629.9	7,006.6	5,400.0	5,399.4	73.0	1.7	41.29	-4,211.7	-825.5	2,156.2	2,100.8	55.37	38.939	
10,700.0	7,006.4	5,400.0	5,399.4	74.3	1.7	41.29	-4,211.7	-825.5	2,136.2	2,079.9	56.34	37.914	
10,728.3	7,006.3	5,400.0	5,399.4	74.9	1.7	41.29	-4,211.7	-825.5	2,128.7	2,072.0	56.74	37.520	
10,800.0	7,006.0	5,400.0	5,399.4	76.3	1.7	41.29	-4,211.7	-825.5	2,111.4	2,053.7	57.73	36.575	
10,826.7	7,005.9	5,400.0	5,399.4	76.8	1.7	41.29	-4,211.7	-825.5	2,105.6	2,047.5	58.10	36.240	
10,900.0	7,005.7	5,400.0	5,399.4	78.2	1.7	41.29	-4,211.7	-825.5	2,091.2	2,032.0	59.12	35.373	
10,925.2	7,005.6	5,400.0	5,399.4	78.7	1.7	41.29	-4,211.7	-825.5	2,086.8	2,027.3	59.47	35.092	
11,000.0	7,005.4	5,400.0	5,399.4	80.1	1.7	41.29	-4,211.7	-825.5	2,075.5	2,015.0	60.51	34.303	
11,023.6	7,005.3	5,400.0	5,399.4	80.6	1.7	41.29	-4,211.7	-825.5	2,072.5	2,011.7	60.83	34.068	
11,100.0	7,005.1	5,400.0	5,399.4	82.0	1.7	41.29	-4,211.7	-825.5	2,064.6	2,002.7	61.90	33.356	
11,122.0	7,005.0	5,400.0	5,399.4	82.5	1.7	41.29	-4,211.7	-825.5	2,062.8	2,000.6	62.20	33.163	
11,200.0	7,004.7	5,400.0	5,399.4	84.0	1.7	41.29	-4,211.7	-825.5	2,058.5	1,995.2	63.29	32.526	
11,220.4	7,004.7	5,400.0	5,399.4	84.4	1.7	41.29	-4,211.7	-825.5	2,057.8	1,994.3	63.57	32.370	
11,276.0	7,004.5	5,400.0	5,399.4	85.4	1.7	41.29	-4,211.7	-825.5	2,057.1	1,992.7	64.35	31.969 CC	
11,300.0	7,004.4	5,400.0	5,399.4	85.9	1.7	41.29	-4,211.7	-825.5	2,057.2	1,992.5	64.68	31.806 ES	
11,318.9	7,004.4	5,400.0	5,399.4	86.3	1.7	41.29	-4,211.7	-825.5	2,057.5	1,992.6	64.94	31.682	
11,400.0	7,004.1	5,400.0	5,399.4	87.8	1.7	41.29	-4,211.7	-825.5	2,060.8	1,994.7	66.07	31.190	
11,417.3	7,004.0	5,400.0	5,399.4	88.2	1.7	41.29	-4,211.7	-825.5	2,061.9	1,995.6	66.32	31.093	
11,500.0	7,003.8	5,400.0	5,399.4	89.8	1.7	41.29	-4,211.7	-825.5	2,069.2	2,001.8	67.47	30.670	
11,515.7	7,003.7	5,400.0	5,399.4	90.1	1.7	41.29	-4,211.7	-825.5	2,071.0	2,003.3	67.69	30.596	
11,600.0	7,003.4	5,400.0	5,399.4	91.7	1.7	41.29	-4,211.7	-825.5	2,082.4	2,013.6	68.86	30.240	
11,614.1	7,003.4	5,400.0	5,399.4	92.0	1.7	41.29	-4,211.7	-825.5	2,084.7	2,015.6	69.06	30.186	
11,700.0	7,003.1	5,400.0	5,399.4	93.7	1.7	41.29	-4,211.7	-825.5	2,100.3	2,030.1	70.26	29.893	
11,712.6	7,003.1	5,400.0	5,399.4	93.9	1.7	41.29	-4,211.7	-825.5	2,102.9	2,032.5	70.44	29.855	
11,800.0	7,002.8	5,400.0	5,399.4	95.6	1.7	41.29	-4,211.7	-825.5	2,122.8	2,051.1	71.66	29.623	
11,811.0	7,002.7	5,400.0	5,399.4	95.8	1.7	41.29	-4,211.7	-825.5	2,125.5	2,053.7	71.81	29.598	
11,900.0	7,002.5	5,400.0	5,399.4	97.6	1.7	41.29	-4,211.7	-825.5	2,149.6	2,076.6	73.06	29.424	
11,909.4	7,002.4	5,400.0	5,399.4	97.7	1.7	41.29	-4,211.7	-825.5	2,152.4	2,079.2	73.19	29.409	
12,000.0	7,002.1	5,400.0	5,399.4	99.5	1.7	41.29	-4,211.7	-825.5	2,180.8	2,106.3	74.46	29.290	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
12,007.8	7,002.1	5,400.0	5,399.4	99.7	1.7	41.29	-4,211.7	-825.5	2,183.4	2,108.8	74.57	29.282	
12,100.0	7,001.8	5,400.0	5,399.4	101.5	1.7	41.29	-4,211.7	-825.5	2,216.0	2,140.1	75.86	29.213	
12,106.3	7,001.8	5,400.0	5,399.4	101.6	1.7	41.29	-4,211.7	-825.5	2,218.3	2,142.4	75.94	29.210	
12,200.0	7,001.5	5,400.0	5,399.4	103.4	1.7	41.29	-4,211.7	-825.5	2,255.1	2,177.8	77.26	29.190 SF	
12,204.7	7,001.5	5,400.0	5,399.4	103.5	1.7	41.29	-4,211.7	-825.5	2,257.0	2,179.7	77.32	29.190	
12,300.0	7,001.2	5,400.0	5,399.4	105.3	1.7	41.29	-4,211.7	-825.5	2,297.9	2,219.2	78.66	29.214	
12,303.1	7,001.1	5,400.0	5,399.4	105.4	1.7	41.29	-4,211.7	-825.5	2,299.2	2,220.5	78.70	29.215	
12,400.0	7,000.8	5,400.0	5,399.4	107.3	1.7	41.29	-4,211.7	-825.5	2,344.1	2,264.1	80.06	29.280	
12,401.5	7,000.8	5,400.0	5,399.4	107.3	1.7	41.29	-4,211.7	-825.5	2,344.9	2,264.8	80.08	29.282	
12,500.0	7,000.5	5,400.0	5,399.4	109.3	1.7	41.29	-4,211.7	-825.5	2,393.7	2,312.2	81.46	29.385	
12,598.4	7,000.2	5,400.0	5,399.4	111.2	1.7	41.29	-4,211.7	-825.5	2,445.5	2,362.6	82.84	29.520	
12,600.0	7,000.2	5,400.0	5,399.4	111.2	1.7	41.29	-4,211.7	-825.5	2,446.3	2,363.5	82.86	29.523	
12,696.8	6,999.8	5,400.0	5,399.4	113.1	1.7	41.29	-4,211.7	-825.5	2,500.1	2,415.8	84.22	29.685	
12,700.0	6,999.8	5,400.0	5,399.4	113.2	1.7	41.29	-4,211.7	-825.5	2,501.9	2,417.6	84.26	29.690	
12,795.2	6,999.5	5,400.0	5,399.4	115.0	1.7	41.29	-4,211.7	-825.5	2,557.3	2,471.7	85.60	29.874	
12,800.0	6,999.5	5,400.0	5,399.4	115.1	1.7	41.29	-4,211.7	-825.5	2,560.1	2,474.4	85.67	29.884	
12,893.7	6,999.2	5,400.0	5,399.4	116.9	1.7	41.29	-4,211.7	-825.5	2,616.9	2,530.0	86.98	30.085	
12,900.0	6,999.2	5,400.0	5,399.4	117.1	1.7	41.29	-4,211.7	-825.5	2,620.9	2,533.8	87.07	30.100	
12,992.1	6,998.9	5,400.0	5,399.4	118.9	1.7	41.29	-4,211.7	-825.5	2,678.9	2,590.5	88.37	30.316	
13,000.0	6,998.8	5,400.0	5,399.4	119.0	1.7	41.29	-4,211.7	-825.5	2,684.0	2,595.5	88.48	30.335	
13,090.5	6,998.6	5,400.0	5,399.4	120.8	1.7	41.29	-4,211.7	-825.5	2,743.0	2,653.2	89.75	30.563	
13,100.0	6,998.5	5,400.0	5,399.4	121.0	1.7	41.29	-4,211.7	-825.5	2,749.3	2,659.4	89.88	30.588	
13,188.9	6,998.2	5,400.0	5,399.4	122.7	1.7	41.29	-4,211.7	-825.5	2,809.1	2,717.9	91.13	30.824	
13,200.0	6,998.2	5,400.0	5,399.4	122.9	1.7	41.29	-4,211.7	-825.5	2,816.6	2,725.3	91.29	30.855	
13,287.4	6,997.9	5,400.0	5,399.4	124.6	1.7	41.29	-4,211.7	-825.5	2,877.0	2,784.5	92.51	31.098	
13,300.0	6,997.9	5,400.0	5,399.4	124.9	1.7	41.29	-4,211.7	-825.5	2,885.8	2,793.1	92.69	31.134	
13,385.8	6,997.6	5,400.0	5,399.4	126.6	1.7	41.29	-4,211.7	-825.5	2,946.6	2,852.7	93.90	31.381	
13,400.0	6,997.5	5,400.0	5,399.4	126.9	1.7	41.29	-4,211.7	-825.5	2,956.8	2,862.7	94.10	31.423	
13,484.2	6,997.3	5,400.0	5,399.4	128.5	1.7	41.29	-4,211.7	-825.5	3,017.9	2,922.6	95.28	31.673	
13,500.0	6,997.2	5,400.0	5,399.4	128.8	1.7	41.29	-4,211.7	-825.5	3,029.5	2,934.0	95.50	31.721	
13,582.6	6,996.9	5,400.0	5,399.4	130.4	1.7	41.29	-4,211.7	-825.5	3,090.6	2,994.0	96.67	31.972	
13,600.0	6,996.9	5,400.0	5,399.4	130.8	1.7	41.29	-4,211.7	-825.5	3,103.6	3,006.7	96.91	32.026	
13,681.1	6,996.6	5,400.0	5,399.4	132.4	1.7	41.29	-4,211.7	-825.5	3,164.8	3,066.7	98.05	32.277	
13,700.0	6,996.5	5,400.0	5,399.4	132.7	1.7	41.29	-4,211.7	-825.5	3,179.2	3,080.9	98.32	32.336	
13,779.5	6,996.3	5,400.0	5,399.4	134.3	1.7	41.29	-4,211.7	-825.5	3,240.2	3,140.8	99.43	32.586	
13,800.0	6,996.2	5,400.0	5,399.4	134.7	1.7	41.29	-4,211.7	-825.5	3,256.1	3,156.3	99.72	32.651	
13,877.9	6,995.9	5,400.0	5,399.4	136.2	1.7	41.29	-4,211.7	-825.5	3,316.8	3,216.0	100.82	32.899	
13,900.0	6,995.9	5,400.0	5,399.4	136.7	1.7	41.29	-4,211.7	-825.5	3,334.2	3,233.1	101.13	32.969	
13,976.3	6,995.6	5,400.0	5,399.4	138.2	1.7	41.29	-4,211.7	-825.5	3,394.6	3,292.4	102.20	33.214	
14,000.0	6,995.5	5,400.0	5,399.4	138.6	1.7	41.29	-4,211.7	-825.5	3,413.4	3,310.9	102.54	33.290	
14,074.8	6,995.3	5,400.0	5,399.4	140.1	1.7	41.29	-4,211.7	-825.5	3,473.4	3,369.8	103.59	33.530	
14,100.0	6,995.2	5,400.0	5,399.4	140.6	1.7	41.29	-4,211.7	-825.5	3,493.8	3,389.8	103.94	33.612	
14,162.0	6,995.0	5,400.0	5,399.4	141.8	1.7	41.29	-4,211.7	-825.5	3,544.1	3,439.3	104.79	33.819	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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									
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	172.31	-2,910.8	393.2	2,937.3				
98.4	98.4	123.1	123.1	0.1	0.1	172.31	-2,909.6	392.7	2,936.3	2,936.1	0.19	N/A	
100.0	100.0	124.2	124.2	0.1	0.1	172.31	-2,909.6	392.6	2,936.3	2,936.1	0.19	N/A	
196.8	196.8	200.0	200.0	0.3	0.2	172.31	-2,908.9	392.6	2,935.4	2,934.9	0.50	5,851.470	
200.0	200.0	200.0	200.0	0.3	0.2	172.31	-2,908.9	392.6	2,935.4	2,934.8	0.51	5,769.993	
295.3	295.3	292.5	292.5	0.5	0.2	172.31	-2,908.5	392.5	2,934.9	2,934.1	0.77	3,814.083	
300.0	300.0	297.4	297.4	0.5	0.2	172.31	-2,908.5	392.5	2,934.9	2,934.1	0.78	3,750.298	
393.7	393.7	393.1	393.1	0.8	0.3	172.32	-2,908.0	392.4	2,934.4	2,933.3	1.04	2,821.316	
400.0	400.0	399.5	399.5	0.8	0.3	172.31	-2,907.9	392.4	2,934.4	2,933.3	1.06	2,775.091	
492.1	492.1	479.3	479.3	1.0	0.3	172.31	-2,907.6	392.5	2,934.0	2,932.7	1.28	2,291.697	
500.0	500.0	486.1	486.1	1.0	0.3	172.31	-2,907.6	392.4	2,934.0	2,932.7	1.30	2,258.095	
590.5	590.5	594.9	594.9	1.2	0.4	172.32	-2,907.3	392.2	2,933.7	2,932.1	1.54	1,902.288	
600.0	600.0	600.0	600.0	1.2	0.4	172.32	-2,907.2	392.2	2,933.6	2,932.1	1.57	1,874.037	
689.0	689.0	673.5	673.5	1.4	0.4	172.31	-2,906.9	392.3	2,933.3	2,931.5	1.78	1,645.457	
698.3	698.3	680.8	680.8	1.4	0.4	172.31	-2,906.9	392.4	2,933.3	2,931.4	1.81	1,624.876	
700.0	700.0	682.1	682.1	1.4	0.4	172.31	-2,906.9	392.4	2,933.3	2,931.4	1.81	1,621.070	
787.4	787.4	779.9	779.9	1.6	0.4	172.31	-2,906.8	392.7	2,933.2	2,931.2	2.02	1,451.287	
800.0	800.0	795.6	795.5	1.7	0.4	172.31	-2,906.7	392.7	2,933.2	2,931.1	2.05	1,429.690	
885.8	885.8	887.7	887.7	1.9	0.5	172.30	-2,906.2	392.7	2,932.7	2,930.4	2.29	1,282.002	
900.0	900.0	902.7	902.6	1.9	0.5	172.30	-2,906.1	392.8	2,932.6	2,930.3	2.33	1,260.448	
984.2	984.2	985.8	985.8	2.1	0.5	172.30	-2,905.5	392.9	2,932.0	2,929.5	2.56	1,147.175	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	0.5	172.30	-2,905.4	393.0	2,931.9	2,929.3	2.60	1,128.446	
1,082.7	1,082.7	1,067.0	1,067.0	2.3	0.5	172.30	-2,905.2	393.0	2,931.6	2,928.9	2.79	1,051.871	
1,091.8	1,091.8	1,074.3	1,074.3	2.3	0.5	172.30	-2,905.2	393.0	2,931.6	2,928.8	2.81	1,044.098	
1,100.0	1,100.0	1,080.9	1,080.8	2.3	0.5	172.30	-2,905.2	393.0	2,931.6	2,928.8	2.83	1,037.218	
1,181.1	1,181.1	1,158.9	1,158.9	2.5	0.5	109.74	-2,905.3	393.2	2,932.2	2,929.1	3.06	959.076	
1,200.0	1,200.0	1,178.4	1,178.4	2.6	0.5	109.74	-2,905.3	393.3	2,932.4	2,929.3	3.10	944.774	
1,279.5	1,279.4	1,263.6	1,263.5	2.7	0.6	109.78	-2,905.3	393.8	2,933.8	2,930.5	3.31	887.430	
1,300.0	1,299.8	1,285.8	1,285.8	2.8	0.6	109.80	-2,905.3	394.0	2,934.2	2,930.8	3.36	873.640	
1,377.9	1,377.5	1,368.0	1,368.0	3.0	0.6	109.88	-2,905.0	394.3	2,936.3	2,932.7	3.55	826.545	
1,400.0	1,399.5	1,391.1	1,391.1	3.0	0.6	109.91	-2,905.0	394.3	2,937.0	2,933.3	3.61	814.364	
1,476.4	1,475.3	1,458.9	1,458.8	3.2	0.6	110.00	-2,904.9	394.2	2,939.9	2,936.1	3.80	774.448	
1,500.0	1,498.7	1,479.3	1,479.3	3.2	0.6	110.03	-2,904.9	394.2	2,941.0	2,937.1	3.85	762.959	
1,574.8	1,572.6	1,550.5	1,550.4	3.5	0.6	110.15	-2,904.9	394.3	2,945.1	2,941.0	4.07	723.144	
1,600.0	1,597.5	1,575.4	1,575.4	3.5	0.6	110.20	-2,905.0	394.4	2,946.6	2,942.4	4.15	710.274	
1,673.2	1,669.4	1,661.4	1,661.4	3.7	0.7	110.40	-2,904.9	394.6	2,951.4	2,947.0	4.39	672.069	
1,700.0	1,695.7	1,695.4	1,695.3	3.8	0.7	110.48	-2,904.8	394.8	2,953.2	2,948.7	4.48	659.261	
1,771.6	1,765.7	1,752.4	1,752.4	4.1	0.7	110.70	-2,904.5	395.0	2,958.3	2,953.5	4.72	626.676	
1,800.0	1,793.4	1,774.3	1,774.3	4.2	0.7	110.78	-2,904.5	395.1	2,960.4	2,955.6	4.82	614.711	
1,870.1	1,862.0	1,849.4	1,849.4	4.4	0.7	111.06	-2,904.6	395.1	2,965.8	2,960.7	5.06	585.720	
1,900.0	1,891.3	1,889.8	1,889.7	4.5	0.7	111.21	-2,904.4	395.2	2,967.9	2,962.8	5.17	574.250	
1,968.5	1,958.3	1,949.2	1,949.2	4.8	0.7	111.43	-2,904.1	395.1	2,972.9	2,967.5	5.42	548.155	
2,000.0	1,989.1	1,974.6	1,974.6	4.9	0.7	111.53	-2,904.1	395.0	2,975.3	2,969.7	5.54	536.919	
2,066.9	2,054.5	2,036.6	2,036.5	5.2	0.7	111.77	-2,904.1	394.6	2,980.5	2,974.7	5.80	513.975	
2,100.0	2,086.9	2,070.8	2,070.8	5.3	0.7	111.90	-2,904.2	394.5	2,983.1	2,977.2	5.93	503.384	
2,165.3	2,150.8	2,143.3	2,143.3	5.6	0.7	112.17	-2,904.0	394.5	2,988.2	2,982.0	6.19	482.709	
2,200.0	2,184.7	2,183.6	2,183.5	5.7	0.7	112.32	-2,903.9	394.3	2,990.8	2,984.5	6.33	472.249	
2,263.8	2,247.1	2,237.9	2,237.9	5.9	0.7	112.52	-2,903.6	394.1	2,995.7	2,989.1	6.59	454.543	
2,300.0	2,282.5	2,265.6	2,265.6	6.1	0.7	112.63	-2,903.6	394.0	2,998.6	2,991.8	6.74	445.207	
2,362.2	2,343.4	2,318.6	2,318.6	6.4	0.7	112.82	-2,903.7	393.8	3,003.8	2,996.8	6.99	429.769	
2,400.0	2,380.3	2,359.5	2,359.4	6.5	0.7	112.98	-2,903.8	393.5	3,006.9	2,999.8	7.15	420.760	
2,460.6	2,439.6	2,420.7	2,420.7	6.8	0.8	113.22	-2,903.9	392.8	3,012.0	3,004.6	7.40	407.039	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,500.0	2,478.1	2,456.1	2,456.1	6.9	0.8	113.35	-2,903.9	392.6	3,015.3	3,007.8	7.56	398.738	
2,559.0	2,535.9	2,510.5	2,510.5	7.2	0.8	113.55	-2,904.1	392.3	3,020.5	3,012.7	7.81	386.836	
2,600.0	2,576.0	2,552.3	2,552.2	7.4	0.8	113.71	-2,904.2	392.2	3,024.0	3,016.1	7.98	378.979	
2,657.5	2,632.2	2,610.2	2,610.1	7.6	0.8	113.92	-2,904.3	391.8	3,029.0	3,020.8	8.22	368.530	
2,700.0	2,673.8	2,651.0	2,650.9	7.8	0.8	114.07	-2,904.4	391.6	3,032.8	3,024.4	8.39	361.471	
2,755.9	2,728.4	2,705.6	2,705.5	8.0	0.8	114.27	-2,904.5	391.6	3,037.7	3,029.1	8.62	352.551	
2,800.0	2,771.6	2,756.4	2,756.3	8.2	0.8	114.45	-2,904.5	391.7	3,041.6	3,032.8	8.80	345.658	
2,854.3	2,824.7	2,814.8	2,814.7	8.4	0.8	114.66	-2,904.4	391.8	3,046.3	3,037.3	9.03	337.536	
2,900.0	2,869.4	2,855.7	2,855.7	8.6	0.8	114.80	-2,904.3	391.8	3,050.2	3,041.0	9.21	331.081	
2,952.7	2,921.0	2,904.0	2,903.9	8.9	0.8	114.98	-2,904.3	391.6	3,054.9	3,045.5	9.43	323.919	
3,000.0	2,967.2	2,960.1	2,960.1	9.1	0.8	115.18	-2,904.2	391.3	3,059.1	3,049.4	9.63	317.560	
3,051.2	3,017.3	3,014.3	3,014.3	9.3	0.8	115.38	-2,903.9	391.1	3,063.4	3,053.6	9.85	310.989	
3,100.0	3,065.0	3,053.8	3,053.7	9.5	0.8	115.52	-2,903.8	391.0	3,067.7	3,057.7	10.06	305.088	
3,149.6	3,113.5	3,100.0	3,099.9	9.7	0.9	115.68	-2,903.8	390.8	3,072.2	3,062.0	10.26	299.320	
3,200.0	3,162.8	3,148.5	3,148.4	9.9	0.9	115.86	-2,903.8	390.8	3,076.9	3,066.4	10.47	293.901	
3,248.0	3,209.8	3,202.7	3,202.7	10.2	0.9	116.04	-2,903.7	390.9	3,081.2	3,070.5	10.66	288.916	
3,300.0	3,260.7	3,255.4	3,255.3	10.4	0.9	116.22	-2,903.5	391.1	3,085.9	3,075.0	10.88	283.547	
3,346.4	3,306.1	3,300.0	3,299.9	10.6	0.9	116.38	-2,903.3	391.0	3,090.0	3,078.9	11.08	278.933	
3,400.0	3,358.5	3,342.8	3,342.7	10.8	0.9	116.53	-2,903.2	390.9	3,094.9	3,083.6	11.30	273.966	
3,444.9	3,402.4	3,377.2	3,377.1	11.0	0.9	116.65	-2,903.2	390.9	3,099.2	3,087.8	11.48	269.961	
3,500.0	3,456.3	3,424.6	3,424.6	11.3	0.9	116.81	-2,903.4	391.1	3,104.7	3,093.0	11.71	265.196	
3,543.3	3,498.6	3,466.8	3,466.7	11.5	0.9	116.95	-2,903.6	391.1	3,109.0	3,097.2	11.89	261.552	
3,600.0	3,554.1	3,528.3	3,528.2	11.7	0.9	117.17	-2,903.9	391.0	3,114.7	3,102.6	12.12	256.960	
3,641.7	3,594.9	3,580.7	3,580.7	11.9	0.9	117.35	-2,903.9	390.8	3,118.8	3,106.5	12.29	253.720	
3,700.0	3,651.9	3,634.1	3,634.1	12.2	0.9	117.53	-2,903.8	390.7	3,124.4	3,111.9	12.54	249.254	
3,740.1	3,691.2	3,666.0	3,666.0	12.3	0.9	117.64	-2,903.9	390.5	3,128.4	3,115.7	12.70	246.268	
3,800.0	3,749.7	3,714.8	3,714.7	12.6	0.9	117.82	-2,904.1	390.0	3,134.6	3,121.6	12.95	241.986	
3,838.6	3,787.5	3,748.3	3,748.2	12.8	0.9	117.93	-2,904.3	389.8	3,138.6	3,125.5	13.12	239.315	
3,900.0	3,847.5	3,802.4	3,802.3	13.0	0.9	118.12	-2,904.7	389.5	3,145.2	3,131.8	13.37	235.196	
3,937.0	3,883.7	3,848.2	3,848.1	13.2	0.9	118.28	-2,905.0	389.3	3,149.2	3,135.7	13.53	232.824	
4,000.0	3,945.4	3,918.0	3,918.0	13.5	0.9	118.52	-2,905.3	388.7	3,155.8	3,142.0	13.79	228.909	
4,035.4	3,980.0	3,948.2	3,948.1	13.7	0.9	118.63	-2,905.4	388.5	3,159.5	3,145.5	13.93	226.779	
4,068.9	4,012.7	3,976.7	3,976.7	13.8	1.0	118.72	-2,905.5	388.4	3,163.0	3,149.0	14.07	224.812	
4,100.0	4,043.2	4,003.9	4,003.9	13.9	1.0	118.87	-2,905.7	388.4	3,166.3	3,152.2	14.17	223.414	
4,133.8	4,076.4	4,038.6	4,038.5	14.0	1.0	119.04	-2,905.9	388.2	3,169.7	3,155.5	14.26	222.253	
4,200.0	4,141.6	4,107.6	4,107.5	14.2	1.0	119.34	-2,906.3	387.7	3,175.8	3,161.4	14.44	219.981	
4,232.3	4,173.4	4,146.8	4,146.7	14.3	1.0	119.49	-2,906.5	387.3	3,178.5	3,164.0	14.51	218.991	
4,300.0	4,240.5	4,220.6	4,220.5	14.5	1.0	119.75	-2,906.5	387.0	3,183.3	3,168.6	14.68	216.872	
4,330.7	4,271.0	4,246.9	4,246.8	14.6	1.0	119.83	-2,906.6	386.9	3,185.2	3,170.5	14.74	216.051	
4,400.0	4,339.9	4,308.0	4,307.9	14.8	1.0	120.01	-2,906.8	386.6	3,189.1	3,174.2	14.89	214.177	
4,429.1	4,368.9	4,340.1	4,340.0	14.8	1.0	120.08	-2,906.9	386.4	3,190.5	3,175.6	14.94	213.514	
4,500.0	4,439.6	4,420.5	4,420.4	15.0	1.0	120.22	-2,907.1	386.2	3,193.3	3,178.2	15.07	211.871	
4,527.5	4,467.1	4,454.4	4,454.4	15.0	1.0	120.26	-2,907.0	386.2	3,194.0	3,178.9	15.11	211.367	
4,600.0	4,539.5	4,527.9	4,527.8	15.1	1.0	120.33	-2,906.8	385.9	3,195.1	3,179.9	15.22	209.914	
4,626.0	4,565.4	4,548.3	4,548.2	15.2	1.1	120.34	-2,906.8	385.8	3,195.4	3,180.1	15.26	209.454	
4,668.9	4,608.4	4,582.0	4,581.9	15.2	1.1	-177.08	-2,906.8	385.6	3,195.6	3,180.2	15.33	208.502	
4,700.0	4,639.5	4,609.9	4,609.8	15.3	1.1	-177.08	-2,906.9	385.4	3,195.7	3,180.3	15.37	207.885	
4,724.4	4,663.9	4,639.8	4,639.7	15.3	1.1	-177.07	-2,907.0	385.2	3,195.8	3,180.4	15.41	207.364	
4,800.0	4,739.5	4,724.4	4,724.4	15.4	1.1	-177.07	-2,907.0	385.1	3,195.8	3,180.2	15.53	205.743	
4,822.8	4,762.3	4,745.5	4,745.4	15.4	1.1	-177.07	-2,907.0	385.0	3,195.7	3,180.2	15.57	205.252	
4,831.1	4,770.5	4,753.1	4,753.0	15.5	1.1	-177.07	-2,907.0	385.0	3,195.7	3,180.2	15.58	205.075	
4,900.0	4,839.5	4,814.8	4,814.7	15.6	1.1	-177.07	-2,907.0	384.8	3,195.8	3,180.1	15.69	203.625	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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									
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	4,860.7	4,832.1	4,832.0	15.6	1.1	-177.07	-2,907.1	384.8	3,195.9	3,180.1	15.73	203.189	
5,000.0	4,939.5	4,900.0	4,899.9	15.7	1.1	-177.07	-2,907.5	385.2	3,196.3	3,180.5	15.86	201.596	
5,019.7	4,959.1	4,923.4	4,923.3	15.7	1.1	-177.08	-2,907.7	385.4	3,196.5	3,180.6	15.89	201.153	
5,100.0	5,039.5	5,028.4	5,028.3	15.9	1.1	-177.10	-2,907.8	386.8	3,196.5	3,180.4	16.04	199.294	
5,118.1	5,057.6	5,045.0	5,044.9	15.9	1.1	-177.11	-2,907.8	387.1	3,196.4	3,180.4	16.07	198.885	
5,180.0	5,119.5	5,102.0	5,101.9	16.0	1.1	-177.12	-2,907.8	387.8	3,196.4	3,180.2	16.18	197.501	
5,200.0	5,139.5	5,121.3	5,121.2	16.0	1.1	-177.13	-2,907.8	388.1	3,196.4	3,180.2	16.22	197.058	
5,216.5	5,156.0	5,137.3	5,137.2	16.0	1.1	-177.13	-2,907.8	388.4	3,196.4	3,180.1	16.25	196.690	
5,300.0	5,239.5	5,219.9	5,219.8	16.2	1.1	-177.17	-2,907.9	390.2	3,196.5	3,180.1	16.41	194.844	
5,314.9	5,254.4	5,235.9	5,235.8	16.2	1.1	-177.17	-2,908.0	390.6	3,196.5	3,180.0	16.43	194.510	
5,389.6	5,329.1	5,311.7	5,311.6	16.3	1.1	-177.21	-2,908.0	392.4	3,196.4	3,179.9	16.57	192.872	
5,400.0	5,339.5	5,320.0	5,319.9	16.3	1.1	-177.21	-2,908.1	392.6	3,196.4	3,179.9	16.59	192.654	
5,413.4	5,352.8	5,330.7	5,330.6	16.3	1.1	-177.21	-2,908.1	392.9	3,196.5	3,179.8	16.62	192.372	
5,500.0	5,439.5	5,400.0	5,399.8	16.5	1.1	-177.24	-2,908.4	394.5	3,196.8	3,180.1	16.77	190.579	
5,511.8	5,451.3	5,412.8	5,412.6	16.5	1.1	-177.25	-2,908.5	394.8	3,196.9	3,180.1	16.80	190.330	
5,600.0	5,539.5	5,509.3	5,509.1	16.6	1.2	-177.29	-2,909.2	397.4	3,197.4	3,180.4	16.96	188.473	
5,610.2	5,549.7	5,520.9	5,520.7	16.6	1.2	-177.30	-2,909.2	397.7	3,197.4	3,180.4	16.98	188.256	
5,700.0	5,639.5	5,621.2	5,621.0	16.8	1.2	-177.35	-2,909.6	400.6	3,197.6	3,180.4	17.16	186.368	
5,708.6	5,648.1	5,630.4	5,630.1	16.8	1.2	-177.36	-2,909.6	400.8	3,197.6	3,180.4	17.17	186.187	
5,777.7	5,717.2	5,700.0	5,699.7	16.9	1.2	-177.39	-2,909.6	402.6	3,197.6	3,180.2	17.31	184.765	
5,800.0	5,739.5	5,718.3	5,718.0	17.0	1.2	-177.40	-2,909.6	403.0	3,197.6	3,180.2	17.35	184.324	
5,807.1	5,746.5	5,723.3	5,723.0	17.0	1.2	-177.40	-2,909.7	403.1	3,197.6	3,180.2	17.36	184.186	
5,900.0	5,839.5	5,800.0	5,799.7	17.1	1.2	-177.43	-2,910.3	405.0	3,198.1	3,180.6	17.53	182.389	
5,905.5	5,845.0	5,800.0	5,799.7	17.1	1.2	-177.43	-2,910.3	405.0	3,198.2	3,180.6	17.54	182.293	
6,000.0	5,939.5	5,895.7	5,895.3	17.3	1.2	-177.48	-2,911.3	407.8	3,199.1	3,181.4	17.73	180.469	
6,003.9	5,943.4	5,900.1	5,899.7	17.3	1.2	-177.49	-2,911.4	408.0	3,199.2	3,181.4	17.73	180.392	
6,100.0	6,039.5	6,000.0	5,999.6	17.4	1.3	-177.55	-2,912.2	411.2	3,199.8	3,181.9	17.92	178.541	
6,102.3	6,041.8	6,000.0	5,999.6	17.4	1.3	-177.55	-2,912.2	411.2	3,199.8	3,181.9	17.93	178.501	
6,200.0	6,139.5	6,079.8	6,079.3	17.6	1.3	-177.59	-2,913.0	413.8	3,200.7	3,182.6	18.11	176.712	
6,200.8	6,140.2	6,080.3	6,079.9	17.6	1.3	-177.59	-2,913.0	413.9	3,200.8	3,182.6	18.11	176.698	
6,299.2	6,238.7	6,186.1	6,185.6	17.8	1.3	-177.65	-2,914.6	417.2	3,202.1	3,183.8	18.31	174.895	
6,300.0	6,239.5	6,187.1	6,186.6	17.8	1.3	-177.65	-2,914.6	417.2	3,202.1	3,183.8	18.31	174.880	
6,360.9	6,300.4	6,245.5	6,245.0	17.9	1.3	-177.68	-2,915.3	418.8	3,202.8	3,184.3	18.43	173.789	
6,397.6	6,337.1	6,278.9	6,278.3	17.9	1.3	2.10	-2,915.8	419.5	3,202.3	3,183.8	18.47	173.395	
6,400.0	6,339.5	6,281.0	6,280.5	17.9	1.3	2.10	-2,915.8	419.6	3,202.2	3,183.7	18.47	173.347	
6,450.0	6,389.2	6,332.2	6,331.6	18.0	1.3	2.09	-2,916.5	420.6	3,198.4	3,179.8	18.59	172.042	
6,496.0	6,434.7	6,382.8	6,382.2	18.0	1.3	2.09	-2,917.2	421.9	3,191.7	3,173.0	18.73	170.427	
6,500.0	6,438.6	6,387.1	6,386.5	18.0	1.3	2.09	-2,917.2	422.0	3,191.0	3,172.3	18.74	170.280	
6,550.0	6,487.3	6,438.0	6,437.3	18.0	1.3	2.10	-2,917.8	423.5	3,180.2	3,161.3	18.88	168.418	
6,594.5	6,529.8	6,481.6	6,480.9	18.0	1.3	2.13	-2,918.3	424.7	3,167.7	3,148.7	18.98	166.861	
6,600.0	6,535.1	6,487.0	6,486.3	18.1	1.3	2.13	-2,918.3	424.8	3,166.0	3,147.0	18.99	166.678	
6,650.0	6,581.7	6,530.8	6,530.1	18.0	1.4	2.18	-2,918.8	425.8	3,148.4	3,129.4	19.06	165.198	
6,692.9	6,620.6	6,566.2	6,565.5	18.0	1.4	2.24	-2,919.3	426.7	3,130.9	3,111.8	19.07	164.168	
6,700.0	6,626.9	6,572.0	6,571.3	18.0	1.4	2.24	-2,919.3	426.8	3,127.7	3,108.7	19.07	164.020	
6,750.0	6,670.6	6,614.9	6,614.1	18.0	1.4	2.32	-2,919.9	427.9	3,104.0	3,085.0	19.03	163.130	
6,791.3	6,705.4	6,654.7	6,653.9	18.0	1.4	2.41	-2,920.4	429.0	3,082.0	3,063.1	18.96	162.574	
6,800.0	6,712.5	6,662.8	6,662.1	18.0	1.4	2.42	-2,920.5	429.3	3,077.2	3,058.2	18.94	162.484	
6,850.0	6,752.3	6,709.2	6,708.4	18.0	1.4	2.55	-2,921.0	430.6	3,047.4	3,028.6	18.80	162.115	
6,889.7	6,782.5	6,746.7	6,746.0	18.0	1.4	2.68	-2,921.4	431.6	3,021.7	3,003.1	18.66	161.974	
6,900.0	6,790.0	6,756.1	6,755.3	18.0	1.4	2.71	-2,921.4	431.8	3,014.8	2,996.2	18.61	161.967	
6,950.0	6,825.3	6,799.9	6,799.1	18.0	1.4	2.92	-2,921.7	432.8	2,979.6	2,961.2	18.39	162.059	
6,988.2	6,850.5	6,819.5	6,818.7	17.9	1.4	3.11	-2,921.7	433.3	2,951.0	2,932.9	18.17	162.398	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
7,000.0	6,858.0	6,825.3	6,824.6	17.9	1.4	3.18	-2,921.8	433.4	2,941.9	2,923.8	18.10	162.534	
7,050.0	6,888.0	6,848.8	6,848.0	18.0	1.4	3.50	-2,922.0	433.9	2,902.2	2,884.4	17.79	163.154	
7,086.6	6,908.1	6,864.7	6,863.9	18.0	1.4	3.80	-2,922.1	434.2	2,871.8	2,854.3	17.55	163.662	
7,100.0	6,915.1	6,870.2	6,869.4	18.0	1.4	3.92	-2,922.2	434.4	2,860.4	2,843.0	17.46	163.823	
7,150.0	6,939.2	6,900.0	6,899.2	18.0	1.4	4.49	-2,922.5	435.0	2,817.0	2,799.8	17.15	164.263	
7,185.0	6,954.3	6,902.0	6,901.2	18.1	1.4	4.97	-2,922.6	435.0	2,785.6	2,768.6	16.91	164.686	
7,200.0	6,960.3	6,908.2	6,907.4	18.1	1.4	5.22	-2,922.6	435.2	2,771.9	2,755.1	16.83	164.737	
7,250.0	6,978.1	6,926.8	6,926.0	18.3	1.4	6.31	-2,922.9	435.6	2,725.5	2,708.9	16.56	164.582	
7,283.4	6,988.2	6,937.4	6,936.6	18.4	1.5	7.32	-2,923.0	435.8	2,693.7	2,677.3	16.41	164.115	
7,300.0	6,992.6	6,942.1	6,941.3	18.4	1.5	7.96	-2,923.1	435.9	2,677.8	2,661.5	16.35	163.766	
7,350.0	7,003.7	6,954.0	6,953.2	18.7	1.5	10.75	-2,923.3	436.2	2,629.3	2,613.1	16.24	161.950	
7,381.9	7,009.1	6,959.8	6,959.0	18.9	1.5	13.79	-2,923.3	436.4	2,598.0	2,581.7	16.25	159.860	
7,400.0	7,011.4	6,962.5	6,961.6	19.0	1.5	16.37	-2,923.4	436.5	2,580.0	2,563.7	16.32	158.057	
7,450.0	7,015.7	6,967.4	6,966.6	19.3	1.5	32.27	-2,923.4	436.6	2,530.3	2,512.9	17.39	145.546	
7,480.3	7,016.6	6,968.7	6,967.9	19.6	1.5	63.05	-2,923.5	436.6	2,500.1	2,480.7	19.37	129.038	
7,488.2	7,016.6	6,968.9	6,968.0	19.6	1.5	76.90	-2,923.5	436.6	2,492.2	2,472.7	19.46	128.069	
7,500.0	7,016.6	6,969.0	6,968.1	19.7	1.5	76.97	-2,923.5	436.6	2,480.4	2,460.8	19.57	126.742	
7,578.7	7,016.3	6,969.8	6,969.0	20.5	1.5	77.41	-2,923.5	436.6	2,401.7	2,381.4	20.37	117.924	
7,600.0	7,016.2	6,970.0	6,969.2	20.7	1.5	77.54	-2,923.5	436.6	2,380.5	2,359.9	20.58	115.656	
7,677.1	7,016.0	6,970.8	6,970.0	21.6	1.5	77.98	-2,923.5	436.7	2,303.4	2,281.9	21.47	107.294	
7,700.0	7,015.9	6,971.1	6,970.2	21.8	1.5	78.11	-2,923.5	436.7	2,280.6	2,258.8	21.73	104.946	
7,775.6	7,015.7	6,971.9	6,971.0	22.7	1.5	78.55	-2,923.5	436.7	2,205.1	2,182.4	22.69	97.180	
7,800.0	7,015.6	6,972.1	6,971.3	23.0	1.5	78.69	-2,923.5	436.7	2,180.7	2,157.7	23.00	94.807	
7,874.0	7,015.4	6,972.9	6,972.1	24.0	1.5	79.12	-2,923.5	436.7	2,106.8	2,082.7	24.02	87.721	
7,900.0	7,015.3	6,973.2	6,972.3	24.4	1.5	79.27	-2,923.5	436.7	2,080.8	2,056.4	24.37	85.370	
7,972.4	7,015.1	6,973.9	6,973.1	25.4	1.5	79.69	-2,923.5	436.8	2,008.5	1,983.0	25.43	78.984	
8,000.0	7,015.0	6,974.2	6,973.4	25.8	1.5	79.85	-2,923.5	436.8	1,980.9	1,955.1	25.83	76.688	
8,070.8	7,014.8	6,975.0	6,974.1	26.8	1.5	80.26	-2,923.5	436.8	1,910.2	1,883.3	26.91	70.975	
8,100.0	7,014.7	6,975.3	6,974.4	27.3	1.5	80.43	-2,923.6	436.8	1,881.1	1,853.7	27.36	68.754	
8,169.3	7,014.4	6,976.0	6,975.1	28.3	1.5	80.84	-2,923.6	436.8	1,811.9	1,783.4	28.46	63.668	
8,200.0	7,014.4	6,976.3	6,975.5	28.8	1.5	81.02	-2,923.6	436.8	1,781.2	1,752.3	28.95	61.534	
8,267.7	7,014.1	6,977.0	6,976.2	29.9	1.5	81.41	-2,923.6	436.8	1,713.6	1,683.6	30.05	57.016	
8,300.0	7,014.0	6,977.4	6,976.5	30.4	1.5	81.60	-2,923.6	436.8	1,681.4	1,650.8	30.58	54.975	
8,366.1	7,013.8	6,978.0	6,977.2	31.5	1.5	81.99	-2,923.6	436.9	1,615.4	1,583.7	31.69	50.967	
8,400.0	7,013.7	6,978.4	6,977.5	32.0	1.5	82.19	-2,923.6	436.9	1,581.6	1,549.3	32.26	49.019	
8,464.5	7,013.5	6,979.1	6,978.2	33.1	1.5	82.57	-2,923.6	436.9	1,517.2	1,483.8	33.37	45.462	
8,500.0	7,013.4	6,979.4	6,978.6	33.7	1.5	82.78	-2,923.6	436.9	1,481.8	1,447.8	33.98	43.607	
8,563.0	7,013.2	6,980.1	6,979.2	34.8	1.5	83.15	-2,923.6	436.9	1,419.0	1,383.9	35.08	40.449	
8,600.0	7,013.1	6,980.5	6,979.6	35.4	1.5	83.37	-2,923.6	436.9	1,382.0	1,346.3	35.73	38.682	
8,661.4	7,012.9	6,981.1	6,980.3	36.5	1.5	83.74	-2,923.6	436.9	1,320.8	1,284.0	36.82	35.875	
8,700.0	7,012.8	6,981.5	6,980.7	37.1	1.5	83.97	-2,923.6	437.0	1,282.3	1,244.8	37.50	34.193	
8,759.8	7,012.6	6,982.1	6,981.3	38.2	1.5	84.32	-2,923.6	437.0	1,222.7	1,184.1	38.58	31.695	
8,800.0	7,012.4	6,982.6	6,981.7	38.9	1.5	84.56	-2,923.7	437.0	1,182.6	1,143.3	39.30	30.094	
8,858.2	7,012.3	6,983.2	6,982.3	39.9	1.5	84.90	-2,923.7	437.0	1,124.6	1,084.3	40.36	27.867	
8,900.0	7,012.1	6,983.6	6,982.8	40.7	1.5	85.15	-2,923.7	437.0	1,083.0	1,041.9	41.12	26.341	
8,956.7	7,011.9	6,984.2	6,983.3	41.7	1.5	85.49	-2,923.7	437.0	1,026.6	984.5	42.16	24.353	
9,000.0	7,011.8	6,984.6	6,983.8	42.4	1.5	85.75	-2,923.7	437.0	983.5	940.6	42.95	22.898	
9,055.1	7,011.6	6,985.2	6,984.4	43.4	1.5	86.08	-2,923.7	437.1	928.7	884.7	43.97	21.121	
9,100.0	7,011.5	6,985.7	6,984.8	44.2	1.5	86.35	-2,923.7	437.1	884.1	839.3	44.80	19.734	
9,153.5	7,011.3	6,986.2	6,985.4	45.2	1.5	86.67	-2,923.7	437.1	830.9	785.1	45.80	18.143	
9,200.0	7,011.2	6,986.7	6,985.9	46.1	1.5	86.94	-2,923.7	437.1	784.8	738.1	46.66	16.818	
9,251.9	7,011.0	6,987.3	6,986.4	47.0	1.5	87.25	-2,923.7	437.1	733.3	685.7	47.64	15.393	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
9,300.0	7,010.9	6,987.8	6,986.9	47.9	1.5	87.54	-2,923.7	437.1	685.7	637.2	48.54	14.127	
9,350.4	7,010.7	6,988.3	6,987.4	48.8	1.5	87.84	-2,923.7	437.1	635.9	586.4	49.49	12.850	
9,400.0	7,010.5	6,988.8	6,988.0	49.7	1.5	88.14	-2,923.7	437.2	587.0	536.5	50.42	11.641	
9,448.8	7,010.4	6,989.3	6,988.5	50.6	1.5	88.43	-2,923.7	437.2	538.9	487.6	51.35	10.496	
9,500.0	7,010.2	6,989.8	6,989.0	51.6	1.5	88.74	-2,923.8	437.2	488.7	436.4	52.32	9.341	
9,547.2	7,010.1	6,990.3	6,989.5	52.5	1.5	89.02	-2,923.8	437.2	442.6	389.4	53.22	8.317	
9,600.0	7,009.9	6,990.9	6,990.0	53.5	1.5	89.34	-2,923.8	437.2	391.3	337.1	54.22	7.217	
9,645.6	7,009.8	6,991.4	6,990.5	54.3	1.5	89.61	-2,923.8	437.2	347.4	292.3	55.09	6.305	
9,700.0	7,009.6	6,991.9	6,991.1	55.3	1.5	89.94	-2,923.8	437.2	295.7	239.6	56.13	5.268	
9,744.1	7,009.4	6,992.4	6,991.5	56.2	1.5	90.20	-2,923.8	437.3	254.6	197.6	56.97	4.469	
9,800.0	7,009.3	6,993.0	6,992.1	57.2	1.5	90.54	-2,923.8	437.3	204.3	146.2	58.04	3.520	
9,842.5	7,009.1	6,993.4	6,992.6	58.0	1.5	90.79	-2,923.8	437.3	168.4	109.6	58.85	2.862	
9,900.0	7,008.9	6,994.0	6,993.1	59.1	1.5	91.13	-2,923.8	437.3	126.6	66.6	59.96	2.112	
9,940.9	7,008.8	6,994.4	6,993.6	59.9	1.5	91.38	-2,923.8	437.3	106.2	45.4	60.74	1.748	
9,978.5	7,008.7	6,994.8	6,994.0	60.6	1.5	91.60	-2,923.8	437.3	99.3	37.8	61.46	1.616 CC, ES, SF	
10,000.0	7,008.6	6,995.0	6,994.2	61.0	1.5	91.73	-2,923.8	437.3	101.6	39.7	61.88	1.642	
10,039.3	7,008.5	6,995.4	6,994.6	61.7	1.5	91.97	-2,923.8	437.3	116.4	53.8	62.63	1.859	
10,100.0	7,008.3	6,996.1	6,995.2	62.9	1.5	92.33	-2,923.8	437.4	156.9	93.1	63.80	2.459	
10,137.8	7,008.2	6,996.5	6,995.6	63.6	1.5	92.56	-2,923.8	437.4	187.7	123.1	64.52	2.908	
10,200.0	7,008.0	6,997.1	6,996.3	64.8	1.5	92.93	-2,923.8	437.4	242.7	177.0	65.72	3.693	
10,236.2	7,007.9	6,997.5	6,996.6	65.5	1.5	93.14	-2,923.9	437.4	276.1	209.7	66.42	4.158	
10,300.0	7,007.6	6,998.1	6,997.3	66.7	1.5	93.52	-2,923.9	437.4	336.4	268.8	67.64	4.974	
10,334.6	7,007.5	6,998.5	6,997.7	67.3	1.5	93.73	-2,923.9	437.4	369.7	301.4	68.31	5.412	
10,400.0	7,007.3	6,999.2	6,998.3	68.6	1.5	94.12	-2,923.9	437.4	433.0	363.4	69.56	6.224	
10,433.0	7,007.2	6,999.5	6,998.7	69.2	1.5	94.32	-2,923.9	437.5	465.2	395.0	70.20	6.627	
10,500.0	7,007.0	7,000.0	6,999.1	70.5	1.5	94.59	-2,923.9	437.5	530.8	459.3	71.48	7.426	
10,531.5	7,006.9	7,000.0	6,999.1	71.1	1.5	94.59	-2,923.9	437.5	561.8	489.7	72.09	7.793	
10,600.0	7,006.7	7,000.0	6,999.1	72.4	1.5	94.59	-2,923.9	437.5	629.3	555.9	73.41	8.573	
10,629.9	7,006.6	7,000.0	6,999.1	73.0	1.5	94.59	-2,923.9	437.5	658.9	584.9	73.98	8.905	
10,700.0	7,006.4	7,000.0	6,999.1	74.3	1.5	94.59	-2,923.9	437.5	728.2	652.9	75.33	9.667	
10,728.3	7,006.3	7,000.0	6,999.1	74.9	1.5	94.59	-2,923.9	437.5	756.3	680.4	75.88	9.967	
10,800.0	7,006.0	7,000.0	6,999.1	76.3	1.5	94.59	-2,923.9	437.5	827.4	750.1	77.26	10.709	
10,826.7	7,005.9	7,000.0	6,999.1	76.8	1.5	94.59	-2,923.9	437.5	854.0	776.2	77.78	10.979	
10,900.0	7,005.7	7,000.0	6,999.1	78.2	1.5	94.58	-2,923.9	437.5	926.8	847.6	79.19	11.702	
10,925.2	7,005.6	7,000.0	6,999.1	78.7	1.5	94.58	-2,923.9	437.5	951.8	872.1	79.68	11.945	
11,000.0	7,005.4	7,000.0	6,999.1	80.1	1.5	94.58	-2,923.9	437.5	1,026.2	945.1	81.13	12.650	
11,023.6	7,005.3	7,000.0	6,999.1	80.6	1.5	94.58	-2,923.9	437.5	1,049.7	968.2	81.58	12.867	
11,100.0	7,005.1	7,000.0	6,999.1	82.0	1.5	94.58	-2,923.9	437.5	1,125.8	1,042.8	83.06	13.554	
11,122.0	7,005.0	7,000.0	6,999.1	82.5	1.5	94.58	-2,923.9	437.5	1,147.8	1,064.3	83.49	13.747	
11,200.0	7,004.7	7,000.0	6,999.1	84.0	1.5	94.58	-2,923.9	437.5	1,225.5	1,140.5	85.00	14.417	
11,220.4	7,004.7	7,000.0	6,999.1	84.4	1.5	94.58	-2,923.9	437.5	1,245.8	1,160.4	85.40	14.589	
11,300.0	7,004.4	7,000.0	6,999.1	85.9	1.5	94.58	-2,923.9	437.5	1,325.2	1,238.2	86.94	15.242	
11,318.9	7,004.4	7,000.0	6,999.1	86.3	1.5	94.58	-2,923.9	437.5	1,344.0	1,256.7	87.31	15.394	
11,400.0	7,004.1	7,007.2	7,006.4	87.8	1.5	98.71	-2,924.0	437.7	1,424.9	1,336.2	88.65	16.073	
11,417.3	7,004.0	7,007.3	7,006.5	88.2	1.5	98.78	-2,924.0	437.7	1,442.1	1,353.1	88.98	16.208	
11,500.0	7,003.8	7,007.9	7,007.0	89.8	1.5	99.08	-2,924.0	437.7	1,524.6	1,434.1	90.54	16.839	
11,515.7	7,003.7	7,008.0	7,007.1	90.1	1.5	99.14	-2,924.0	437.7	1,540.3	1,449.5	90.84	16.956	
11,600.0	7,003.4	7,008.5	7,007.7	91.7	1.5	99.44	-2,924.0	437.7	1,624.4	1,532.0	92.43	17.574	
11,614.1	7,003.4	7,008.6	7,007.7	92.0	1.5	99.49	-2,924.0	437.7	1,638.6	1,545.9	92.70	17.676	
11,700.0	7,003.1	7,009.1	7,008.3	93.7	1.5	99.78	-2,924.0	437.7	1,724.3	1,629.9	94.32	18.281	
11,712.6	7,003.1	7,009.2	7,008.3	93.9	1.5	99.82	-2,924.0	437.7	1,736.8	1,642.2	94.56	18.368	
11,800.0	7,002.8	7,009.7	7,008.9	95.6	1.5	100.11	-2,924.0	437.7	1,824.1	1,727.9	96.20	18.961	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
11,811.0	7,002.7	7,009.8	7,008.9	95.8	1.5	100.15	-2,924.0	437.7	1,835.1	1,738.7	96.41	19.034	
11,900.0	7,002.5	7,010.3	7,009.4	97.6	1.5	100.43	-2,924.0	437.8	1,923.9	1,825.9	98.09	19.615	
11,909.4	7,002.4	7,010.3	7,009.5	97.7	1.5	100.46	-2,924.0	437.8	1,933.4	1,835.1	98.26	19.675	
12,000.0	7,002.1	7,010.8	7,010.0	99.5	1.5	100.74	-2,924.0	437.8	2,023.8	1,923.9	99.96	20.245	
12,007.8	7,002.1	7,010.9	7,010.0	99.7	1.5	100.76	-2,924.0	437.8	2,031.7	1,931.5	100.11	20.294	
12,100.0	7,001.8	7,011.4	7,010.5	101.5	1.5	101.04	-2,924.0	437.8	2,123.7	2,021.9	101.84	20.853	
12,106.3	7,001.8	7,011.4	7,010.5	101.6	1.5	101.06	-2,924.0	437.8	2,130.0	2,028.0	101.96	20.891	
12,200.0	7,001.5	7,011.9	7,011.0	103.4	1.5	101.33	-2,924.0	437.8	2,223.6	2,119.9	103.71	21.440	
12,204.7	7,001.5	7,011.9	7,011.1	103.5	1.5	101.34	-2,924.0	437.8	2,228.3	2,124.5	103.80	21.467	
12,300.0	7,001.2	7,012.4	7,011.5	105.3	1.5	101.61	-2,924.0	437.8	2,323.5	2,217.9	105.58	22.006	
12,303.1	7,001.1	7,012.4	7,011.6	105.4	1.5	101.62	-2,924.0	437.8	2,326.6	2,221.0	105.64	22.023	
12,400.0	7,000.8	7,012.9	7,012.0	107.3	1.5	101.88	-2,924.0	437.8	2,423.4	2,316.0	107.45	22.553	
12,401.5	7,000.8	7,012.9	7,012.0	107.3	1.5	101.89	-2,924.0	437.8	2,425.0	2,317.5	107.48	22.562	
12,500.0	7,000.5	7,013.4	7,012.5	109.3	1.5	102.14	-2,924.1	437.8	2,523.3	2,414.0	109.32	23.082	
12,598.4	7,000.2	7,013.8	7,013.0	111.2	1.5	102.40	-2,924.1	437.9	2,621.6	2,510.5	111.15	23.586	
12,600.0	7,000.2	7,013.8	7,013.0	111.2	1.5	102.40	-2,924.1	437.9	2,623.2	2,512.1	111.18	23.594	
12,696.8	6,999.8	7,014.3	7,013.4	113.1	1.5	102.64	-2,924.1	437.9	2,720.0	2,607.0	112.98	24.074	
12,700.0	6,999.8	7,014.3	7,013.4	113.2	1.5	102.65	-2,924.1	437.9	2,723.2	2,610.1	113.04	24.090	
12,795.2	6,999.5	7,014.7	7,013.8	115.0	1.5	102.88	-2,924.1	437.9	2,818.4	2,703.5	114.81	24.547	
12,800.0	6,999.5	7,014.7	7,013.9	115.1	1.5	102.89	-2,924.1	437.9	2,823.1	2,708.2	114.90	24.570	
12,893.7	6,999.2	7,015.1	7,014.3	116.9	1.5	103.11	-2,924.1	437.9	2,916.7	2,800.1	116.64	25.006	
12,900.0	6,999.2	7,015.2	7,014.3	117.1	1.5	103.12	-2,924.1	437.9	2,923.0	2,806.3	116.76	25.035	
12,992.1	6,998.9	7,015.5	7,014.7	118.9	1.5	103.33	-2,924.1	437.9	3,015.1	2,896.6	118.47	25.451	
13,000.0	6,998.8	7,015.6	7,014.7	119.0	1.5	103.35	-2,924.1	437.9	3,023.0	2,904.4	118.61	25.486	
13,090.5	6,998.6	7,015.9	7,015.1	120.8	1.5	103.55	-2,924.1	437.9	3,113.5	2,993.2	120.29	25.883	
13,100.0	6,998.5	7,016.0	7,015.1	121.0	1.5	103.56	-2,924.1	437.9	3,122.9	3,002.5	120.47	25.923	
13,188.9	6,998.2	7,016.3	7,015.5	122.7	1.5	103.76	-2,924.1	437.9	3,211.8	3,089.7	122.11	26.302	
13,200.0	6,998.2	7,016.4	7,015.5	122.9	1.5	103.78	-2,924.1	437.9	3,222.9	3,100.6	122.32	26.348	
13,287.4	6,997.9	7,016.7	7,015.8	124.6	1.5	103.96	-2,924.1	437.9	3,310.2	3,186.3	123.93	26.710	
13,300.0	6,997.9	7,016.7	7,015.9	124.9	1.5	103.98	-2,924.1	437.9	3,322.8	3,198.7	124.17	26.761	
13,385.8	6,997.6	7,017.1	7,016.2	126.6	1.5	104.16	-2,924.1	438.0	3,408.6	3,282.8	125.75	27.106	
13,400.0	6,997.5	7,017.1	7,016.3	126.9	1.5	104.19	-2,924.1	438.0	3,422.8	3,296.8	126.02	27.162	
13,484.2	6,997.3	7,017.4	7,016.6	128.5	1.5	104.35	-2,924.1	438.0	3,507.0	3,379.4	127.57	27.491	
13,500.0	6,997.2	7,017.5	7,016.6	128.8	1.5	104.38	-2,924.1	438.0	3,522.7	3,394.9	127.86	27.551	
13,582.6	6,996.9	7,017.8	7,016.9	130.4	1.5	104.54	-2,924.1	438.0	3,605.4	3,476.0	129.38	27.866	
13,600.0	6,996.9	7,017.8	7,017.0	130.8	1.5	104.57	-2,924.1	438.0	3,622.7	3,493.0	129.71	27.930	
13,681.1	6,996.6	7,018.1	7,017.3	132.4	1.5	104.73	-2,924.1	438.0	3,703.7	3,572.5	131.20	28.230	
13,700.0	6,996.5	7,018.2	7,017.3	132.7	1.5	104.76	-2,924.1	438.0	3,722.7	3,591.1	131.55	28.299	
13,779.5	6,996.3	7,018.5	7,017.6	134.3	1.5	104.90	-2,924.1	438.0	3,802.1	3,669.1	133.01	28.585	
13,800.0	6,996.2	7,018.5	7,017.7	134.7	1.5	104.94	-2,924.1	438.0	3,822.6	3,689.2	133.39	28.658	
13,877.9	6,995.9	7,018.8	7,017.9	136.2	1.5	105.08	-2,924.1	438.0	3,900.5	3,765.7	134.82	28.931	
13,900.0	6,995.9	7,018.9	7,018.0	136.7	1.5	105.11	-2,924.1	438.0	3,922.6	3,787.4	135.23	29.007	
13,976.3	6,995.6	7,019.1	7,018.2	138.2	1.5	105.25	-2,924.1	438.0	3,998.9	3,862.3	136.63	29.268	
14,000.0	6,995.5	7,019.2	7,018.3	138.6	1.5	105.28	-2,924.1	438.0	4,022.6	3,885.5	137.07	29.347	
14,074.8	6,995.3	7,019.4	7,018.5	140.1	1.5	105.41	-2,924.1	438.0	4,097.3	3,958.9	138.44	29.596	
14,100.0	6,995.2	7,019.5	7,018.6	140.6	1.5	105.45	-2,924.1	438.0	4,122.5	3,983.6	138.90	29.679	
14,162.0	6,995.0	7,019.7	7,018.8	141.8	1.5	105.55	-2,924.1	438.0	4,184.5	4,044.5	140.00	29.888	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	171.61	-2,910.8	429.4	2,942.4				
98.4	98.4	84.5	84.5	0.1	0.1	171.61	-2,910.7	429.4	2,942.3	2,942.1	0.18	N/A	
100.0	100.0	86.2	86.2	0.1	0.1	171.61	-2,910.7	429.4	2,942.2	2,942.1	0.19	N/A	
196.8	196.8	188.6	188.6	0.3	0.2	171.61	-2,910.5	429.5	2,942.0	2,941.5	0.51	5,745.909	
200.0	200.0	192.0	192.0	0.3	0.2	171.61	-2,910.5	429.5	2,942.0	2,941.5	0.52	5,629.760	
295.3	295.3	292.7	292.7	0.5	0.3	171.60	-2,910.0	429.5	2,941.6	2,940.7	0.84	3,493.443	
300.0	300.0	297.7	297.7	0.5	0.3	171.60	-2,910.0	429.5	2,941.5	2,940.7	0.86	3,428.899	
393.7	393.7	396.8	396.8	0.8	0.4	171.60	-2,909.3	429.6	2,940.9	2,939.8	1.17	2,509.268	
400.0	400.0	403.5	403.5	0.8	0.4	171.60	-2,909.3	429.6	2,940.9	2,939.7	1.19	2,464.806	
492.1	492.1	500.9	500.9	1.0	0.5	171.60	-2,908.4	429.6	2,940.1	2,938.6	1.50	1,957.428	
500.0	500.0	509.2	509.2	1.0	0.5	171.60	-2,908.4	429.6	2,940.0	2,938.5	1.53	1,923.566	
590.5	590.5	605.0	605.0	1.2	0.6	171.59	-2,907.3	429.7	2,939.1	2,937.3	1.83	1,604.292	
600.0	600.0	615.0	615.0	1.2	0.6	171.59	-2,907.2	429.7	2,939.0	2,937.1	1.86	1,576.962	
689.0	689.0	676.7	676.7	1.4	0.7	171.59	-2,906.6	429.8	2,938.3	2,936.1	2.16	1,360.736	
700.0	700.0	682.6	682.5	1.4	0.8	171.59	-2,906.6	429.9	2,938.2	2,936.0	2.20	1,338.128	
702.2	702.2	683.8	683.7	1.5	0.8	171.59	-2,906.6	429.9	2,938.2	2,936.0	2.20	1,333.619	
787.4	787.4	738.0	738.0	1.6	0.9	171.58	-2,907.0	430.4	2,938.8	2,936.3	2.50	1,174.134	
800.0	800.0	738.0	738.0	1.7	0.9	171.58	-2,907.0	430.4	2,939.0	2,936.5	2.53	1,161.061	
885.8	885.8	780.0	780.0	1.9	0.9	171.57	-2,907.9	430.9	2,940.9	2,938.1	2.80	1,049.095	
900.0	900.0	787.3	787.3	1.9	1.0	171.57	-2,908.1	431.1	2,941.4	2,938.5	2.85	1,032.452	
984.2	984.2	830.0	829.9	2.1	1.0	171.56	-2,909.7	431.8	2,944.7	2,941.5	3.12	944.219	
1,000.0	1,000.0	830.0	829.9	2.1	1.0	171.56	-2,909.7	431.8	2,945.4	2,942.3	3.15	933.865	
1,082.7	1,082.7	884.8	884.7	2.3	1.2	171.54	-2,912.4	433.1	2,949.9	2,946.5	3.45	854.360	
1,100.0	1,100.0	894.3	894.1	2.3	1.2	171.54	-2,913.0	433.4	2,951.0	2,947.5	3.51	840.419	
1,181.1	1,181.1	941.5	941.2	2.5	1.3	108.85	-2,916.1	435.0	2,957.0	2,953.2	3.80	778.729	
1,200.0	1,200.0	954.0	953.6	2.6	1.3	108.81	-2,916.9	435.5	2,958.6	2,954.8	3.87	765.177	
1,279.5	1,279.4	1,021.0	1,020.4	2.7	1.5	108.68	-2,922.1	438.7	2,966.4	2,962.2	4.19	708.321	
1,300.0	1,299.8	1,021.0	1,020.4	2.8	1.5	108.64	-2,922.1	438.7	2,968.6	2,964.3	4.23	701.350	
1,377.9	1,377.5	1,061.2	1,060.4	3.0	1.6	108.49	-2,925.6	441.1	2,978.0	2,973.5	4.50	661.147	
1,400.0	1,399.5	1,072.8	1,071.9	3.0	1.6	108.45	-2,926.6	441.8	2,981.0	2,976.4	4.58	650.644	
1,476.4	1,475.3	1,116.0	1,114.8	3.2	1.7	108.28	-2,931.0	444.7	2,992.2	2,987.4	4.87	614.627	
1,500.0	1,498.7	1,116.0	1,114.8	3.2	1.7	108.21	-2,931.0	444.7	2,996.0	2,991.1	4.93	608.146	
1,574.8	1,572.6	1,172.3	1,170.5	3.5	1.9	108.05	-2,937.3	449.0	3,008.8	3,003.6	5.27	571.434	
1,600.0	1,597.5	1,187.5	1,185.6	3.5	1.9	107.99	-2,939.1	450.3	3,013.4	3,008.1	5.37	561.104	
1,673.2	1,669.4	1,232.0	1,229.5	3.7	2.1	107.81	-2,944.6	454.3	3,027.7	3,022.0	5.70	530.942	
1,700.0	1,695.7	1,248.3	1,245.6	3.8	2.1	107.74	-2,946.7	455.8	3,033.2	3,027.4	5.83	520.701	
1,771.6	1,765.7	1,306.0	1,302.5	4.1	2.3	107.87	-2,954.5	461.5	3,048.5	3,042.3	6.21	491.021	
1,800.0	1,793.4	1,310.5	1,307.0	4.2	2.3	107.88	-2,955.2	462.0	3,054.7	3,048.4	6.31	483.767	
1,870.1	1,862.0	1,374.4	1,369.9	4.4	2.5	108.03	-2,964.2	468.3	3,070.2	3,063.4	6.72	457.144	
1,900.0	1,891.3	1,399.0	1,394.1	4.5	2.6	108.09	-2,967.7	470.6	3,076.8	3,069.9	6.88	447.171	
1,968.5	1,958.3	1,441.7	1,436.1	4.8	2.8	108.19	-2,974.0	474.8	3,092.4	3,085.1	7.24	427.225	
2,000.0	1,989.1	1,460.5	1,454.6	4.9	2.8	108.23	-2,976.9	476.7	3,099.7	3,092.3	7.40	418.817	
2,066.9	2,054.5	1,502.6	1,495.9	5.2	3.0	108.32	-2,983.6	481.3	3,115.7	3,107.9	7.76	401.438	
2,100.0	2,086.9	1,529.3	1,522.1	5.3	3.1	108.37	-2,987.9	484.3	3,123.7	3,115.7	7.96	392.442	
2,165.3	2,150.8	1,582.2	1,573.9	5.6	3.3	108.47	-2,996.5	490.7	3,139.7	3,131.4	8.36	375.693	
2,200.0	2,184.7	1,617.6	1,608.6	5.7	3.4	108.54	-3,002.3	495.3	3,148.3	3,139.7	8.59	366.692	
2,263.8	2,247.1	1,683.0	1,672.6	5.9	3.7	108.65	-3,012.8	503.6	3,164.0	3,154.9	9.01	351.149	
2,300.0	2,282.5	1,716.5	1,705.3	6.1	3.8	108.71	-3,018.2	507.9	3,172.8	3,163.6	9.24	343.212	
2,362.2	2,343.4	1,767.5	1,755.2	6.4	4.0	108.79	-3,026.5	514.6	3,188.2	3,178.6	9.63	330.950	
2,400.0	2,380.3	1,798.5	1,785.5	6.5	4.1	108.84	-3,031.6	518.8	3,197.7	3,187.8	9.87	323.833	
2,460.6	2,439.6	1,848.3	1,834.1	6.8	4.4	108.91	-3,039.9	525.6	3,213.0	3,202.7	10.27	312.980	
2,500.0	2,478.1	1,982.3	1,965.4	6.9	4.9	109.14	-3,060.8	542.6	3,222.5	3,211.7	10.79	298.687	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	2,030.3	2,012.5	7.2	5.0	109.22	-3,067.6	548.1	3,235.9	3,224.7	11.15	290.088	
2,600.0	2,576.0	2,064.3	2,046.0	7.4	5.2	109.29	-3,072.6	551.9	3,245.2	3,233.8	11.41	284.404	
2,657.5	2,632.2	2,128.0	2,108.6	7.6	5.4	109.41	-3,081.8	558.7	3,258.4	3,246.6	11.81	275.806	
2,700.0	2,673.8	2,154.0	2,134.3	7.8	5.5	109.47	-3,085.6	561.4	3,268.1	3,256.0	12.06	271.042	
2,755.9	2,728.4	2,200.5	2,180.0	8.0	5.7	109.56	-3,092.4	566.2	3,281.0	3,268.5	12.42	264.263	
2,800.0	2,771.6	2,227.8	2,206.8	8.2	5.8	109.61	-3,096.6	569.1	3,291.4	3,278.7	12.67	259.725	
2,854.3	2,824.7	2,249.0	2,227.6	8.4	5.8	109.65	-3,100.0	571.4	3,304.6	3,291.6	12.96	255.039	
2,900.0	2,869.4	2,292.1	2,269.9	8.6	6.0	109.73	-3,107.0	576.2	3,315.8	3,302.5	13.27	249.808	
2,952.7	2,921.0	2,326.7	2,303.8	8.9	6.2	109.79	-3,112.7	580.3	3,329.0	3,315.4	13.60	244.863	
3,000.0	2,967.2	2,370.3	2,346.4	9.1	6.4	109.87	-3,120.1	585.5	3,341.1	3,327.2	13.92	240.009	
3,051.2	3,017.3	2,434.9	2,409.6	9.3	6.6	109.97	-3,130.9	593.6	3,354.0	3,339.7	14.32	234.144	
3,100.0	3,065.0	2,467.0	2,441.0	9.5	6.8	110.02	-3,136.2	597.7	3,366.3	3,351.7	14.62	230.211	
3,149.6	3,113.5	2,498.5	2,471.7	9.7	6.9	110.07	-3,141.6	601.6	3,379.0	3,364.1	14.92	226.433	
3,200.0	3,162.8	2,532.0	2,504.5	9.9	7.0	110.12	-3,147.5	605.6	3,392.2	3,377.0	15.23	222.697	
3,248.0	3,209.8	2,572.9	2,544.4	10.2	7.2	110.19	-3,154.9	610.5	3,404.9	3,389.3	15.56	218.877	
3,300.0	3,260.7	2,619.8	2,590.2	10.4	7.4	110.27	-3,163.3	616.2	3,418.7	3,402.8	15.91	214.819	
3,346.4	3,306.1	2,661.8	2,631.1	10.6	7.6	110.34	-3,170.9	621.2	3,431.1	3,414.8	16.23	211.357	
3,400.0	3,358.5	2,710.1	2,678.4	10.8	7.8	110.42	-3,179.7	627.0	3,445.4	3,428.8	16.60	207.540	
3,444.9	3,402.4	2,743.1	2,710.6	11.0	8.0	110.47	-3,185.8	630.8	3,457.4	3,440.6	16.89	204.702	
3,500.0	3,456.3	2,780.2	2,746.7	11.3	8.1	110.53	-3,192.7	635.6	3,472.5	3,455.2	17.24	201.462	
3,543.3	3,498.6	2,815.0	2,780.5	11.5	8.3	110.57	-3,199.3	640.3	3,484.5	3,467.0	17.53	198.819	
3,600.0	3,554.1	2,867.0	2,831.1	11.7	8.5	110.64	-3,209.3	647.6	3,500.3	3,482.3	17.93	195.245	
3,641.7	3,594.9	2,909.0	2,871.9	11.9	8.7	110.69	-3,217.3	653.3	3,511.8	3,493.6	18.23	192.588	
3,700.0	3,651.9	2,961.7	2,923.2	12.2	8.9	110.76	-3,227.3	660.3	3,528.0	3,509.4	18.64	189.240	
3,740.1	3,691.2	2,996.3	2,956.8	12.3	9.1	110.81	-3,233.9	664.8	3,539.2	3,520.3	18.92	187.069	
3,800.0	3,749.7	3,132.9	3,090.3	12.6	9.7	111.03	-3,258.3	680.7	3,554.7	3,535.1	19.57	181.650	
3,838.6	3,787.5	3,157.9	3,114.7	12.8	9.8	111.07	-3,262.6	683.7	3,564.7	3,544.9	19.81	179.979	
3,900.0	3,847.5	3,290.7	3,244.6	13.0	10.3	111.27	-3,285.1	699.4	3,580.7	3,560.3	20.45	175.080	
3,937.0	3,883.7	3,365.2	3,317.9	13.2	10.6	111.40	-3,296.4	706.5	3,589.5	3,568.7	20.80	172.534	
4,000.0	3,945.4	3,412.9	3,364.9	13.5	10.8	111.49	-3,303.4	710.9	3,604.1	3,582.9	21.21	169.961	
4,035.4	3,980.0	3,434.3	3,386.0	13.7	10.9	111.53	-3,306.6	713.1	3,612.5	3,591.1	21.42	168.673	
4,068.9	4,012.7	3,454.6	3,405.8	13.8	10.9	111.56	-3,309.7	715.4	3,620.5	3,598.9	21.62	167.484	
4,100.0	4,043.2	3,475.0	3,425.9	13.9	11.0	111.73	-3,312.9	717.8	3,628.1	3,606.3	21.80	166.421	
4,133.8	4,076.4	3,521.5	3,471.5	14.0	11.2	111.94	-3,320.1	723.2	3,636.1	3,614.0	22.05	164.920	
4,200.0	4,141.6	3,604.3	3,552.8	14.2	11.5	112.32	-3,332.6	732.0	3,651.0	3,628.5	22.50	162.246	
4,232.3	4,173.4	3,637.4	3,585.4	14.3	11.7	112.48	-3,337.6	735.5	3,658.0	3,635.3	22.69	161.210	
4,300.0	4,240.5	3,773.7	3,719.6	14.5	12.2	112.80	-3,356.6	750.3	3,671.6	3,648.3	23.28	157.744	
4,330.7	4,271.0	3,795.4	3,740.9	14.6	12.2	112.91	-3,359.4	752.8	3,677.3	3,653.9	23.42	157.027	
4,400.0	4,339.9	3,853.0	3,797.6	14.8	12.5	113.14	-3,367.1	759.3	3,690.1	3,666.3	23.77	155.272	
4,429.1	4,368.9	3,853.0	3,797.6	14.8	12.5	113.24	-3,367.1	759.3	3,695.3	3,671.5	23.83	155.070	
4,500.0	4,439.6	3,886.8	3,830.8	15.0	12.6	113.46	-3,372.0	763.6	3,708.2	3,684.1	24.10	153.862	
4,527.5	4,467.1	3,897.4	3,841.2	15.0	12.6	113.54	-3,373.6	765.1	3,713.2	3,689.0	24.19	153.520	
4,600.0	4,539.5	3,949.0	3,891.4	15.1	12.9	113.68	-3,382.0	773.5	3,726.8	3,702.3	24.49	152.155	
4,626.0	4,565.4	3,949.0	3,891.4	15.2	12.9	113.77	-3,382.0	773.5	3,731.4	3,706.9	24.53	152.101	
4,668.9	4,608.4	3,949.0	3,891.4	15.2	12.9	176.48	-3,382.0	773.5	3,739.3	3,714.8	24.59	152.056	
4,700.0	4,639.5	3,977.0	3,918.5	15.3	13.0	176.41	-3,386.9	778.6	3,745.1	3,720.4	24.74	151.398	
4,724.4	4,663.9	3,995.6	3,936.5	15.3	13.1	176.36	-3,390.1	781.9	3,749.7	3,724.9	24.84	150.945	
4,800.0	4,739.5	4,053.4	3,992.5	15.4	13.4	176.21	-3,400.4	792.1	3,764.2	3,739.0	25.17	149.576	
4,822.8	4,762.3	4,071.5	4,010.0	15.4	13.5	176.17	-3,403.6	795.2	3,768.6	3,743.4	25.26	149.169	
4,900.0	4,839.5	4,138.0	4,074.4	15.6	13.8	176.01	-3,415.8	806.5	3,783.8	3,758.2	25.62	147.714	
4,921.2	4,860.7	4,178.8	4,114.0	15.6	14.0	175.92	-3,423.3	813.1	3,788.0	3,762.2	25.78	146.909	
5,000.0	4,939.5	4,326.0	4,257.5	15.7	14.6	175.62	-3,448.0	834.2	3,801.9	3,775.5	26.37	144.161	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,019.7	4,959.1	4,351.3	4,282.2	15.7	14.7	175.58	-3,452.1	837.4	3,805.2	3,778.7	26.48	143.690	
5,100.0	5,039.5	4,392.9	4,322.9	15.9	14.9	175.50	-3,459.0	842.9	3,819.5	3,792.8	26.74	142.855	
5,118.1	5,057.6	4,420.0	4,349.3	15.9	15.0	175.45	-3,463.7	846.7	3,822.9	3,796.1	26.85	142.382	
5,200.0	5,139.5	4,515.0	4,442.0	16.0	15.5	175.27	-3,480.0	859.5	3,837.9	3,810.7	27.27	140.715	
5,216.5	5,156.0	4,515.0	4,442.0	16.0	15.5	175.27	-3,480.0	859.5	3,840.9	3,813.6	27.30	140.688	
5,300.0	5,239.5	4,583.8	4,509.3	16.2	15.8	175.15	-3,491.6	868.6	3,856.0	3,828.3	27.65	139.469	
5,314.9	5,254.4	4,593.8	4,519.0	16.2	15.8	175.13	-3,493.3	870.0	3,858.7	3,831.0	27.70	139.293	
5,400.0	5,339.5	4,730.9	4,652.8	16.3	16.4	174.88	-3,516.2	889.1	3,874.1	3,845.8	28.27	137.054	
5,413.4	5,352.8	4,746.4	4,668.0	16.3	16.5	174.85	-3,518.6	891.3	3,876.4	3,848.0	28.34	136.799	
5,500.0	5,439.5	4,905.1	4,823.2	16.5	17.1	174.54	-3,542.3	914.0	3,890.6	3,861.6	28.97	134.311	
5,511.8	5,451.3	4,913.2	4,831.1	16.5	17.2	174.53	-3,543.5	915.1	3,892.4	3,863.4	29.01	134.169	
5,600.0	5,539.5	4,984.0	4,900.5	16.6	17.5	174.39	-3,553.7	925.2	3,906.4	3,877.0	29.37	132.986	
5,610.2	5,549.7	4,984.0	4,900.5	16.6	17.5	174.39	-3,553.7	925.2	3,908.0	3,878.6	29.39	132.966	
5,700.0	5,639.5	5,123.1	5,037.1	16.8	18.0	174.15	-3,572.5	943.7	3,921.1	3,891.1	29.96	130.896	
5,708.6	5,648.1	5,128.0	5,041.8	16.8	18.0	174.14	-3,573.2	944.3	3,922.4	3,892.4	29.98	130.815	
5,800.0	5,739.5	5,195.5	5,108.2	17.0	18.3	174.03	-3,582.8	952.9	3,936.5	3,906.2	30.33	129.780	
5,807.1	5,746.5	5,211.0	5,123.4	17.0	18.4	174.00	-3,585.0	954.8	3,937.6	3,907.2	30.39	129.575	
5,900.0	5,839.5	5,318.8	5,229.4	17.1	18.8	173.84	-3,599.7	967.3	3,951.4	3,920.5	30.85	128.098	
5,905.5	5,845.0	5,323.0	5,233.6	17.1	18.8	173.84	-3,600.3	967.7	3,952.2	3,921.3	30.87	128.038	
6,000.0	5,939.5	5,466.2	5,374.7	17.3	19.3	173.66	-3,619.8	982.1	3,966.2	3,934.8	31.41	126.287	
6,003.9	5,943.4	5,471.6	5,380.1	17.3	19.3	173.65	-3,620.5	982.6	3,966.7	3,935.3	31.43	126.222	
6,100.0	6,039.5	5,850.6	5,756.4	17.4	20.4	173.38	-3,656.1	1,005.3	3,975.9	3,943.5	32.43	122.616	
6,102.3	6,041.8	5,853.9	5,759.7	17.4	20.4	173.38	-3,656.3	1,005.3	3,976.1	3,943.6	32.44	122.584	
6,200.0	6,139.5	6,241.0	6,146.4	17.6	21.0	173.36	-3,669.8	1,008.8	3,981.2	3,947.9	33.26	119.709	
6,200.8	6,140.2	6,241.7	6,147.1	17.6	21.0	173.36	-3,669.8	1,008.8	3,981.1	3,947.9	33.26	119.700	
6,299.2	6,238.7	6,328.1	6,233.5	17.8	21.1	173.36	-3,669.3	1,008.7	3,980.6	3,947.1	33.56	118.596	
6,300.0	6,239.5	6,328.7	6,234.1	17.8	21.1	173.36	-3,669.3	1,008.7	3,980.6	3,947.1	33.57	118.588	
6,352.3	6,291.7	6,367.8	6,273.2	17.9	21.2	173.36	-3,669.2	1,008.8	3,980.5	3,946.8	33.72	118.048	
6,360.9	6,300.4	6,374.3	6,279.7	17.9	21.2	173.36	-3,669.2	1,008.8	3,980.5	3,946.8	33.74	117.960	
6,397.6	6,337.1	6,400.0	6,305.4	17.9	21.2	-6.86	-3,669.2	1,008.9	3,979.7	3,945.8	33.87	117.490	
6,400.0	6,339.5	6,400.0	6,305.4	17.9	21.2	-6.86	-3,669.2	1,008.9	3,979.6	3,945.7	33.87	117.480	
6,450.0	6,389.2	6,449.0	6,354.4	18.0	21.3	-6.91	-3,669.4	1,009.0	3,975.3	3,941.4	33.90	117.254	
6,496.0	6,434.7	6,489.9	6,395.3	18.0	21.3	-6.99	-3,669.6	1,009.0	3,968.4	3,934.6	33.79	117.435	
6,500.0	6,438.6	6,496.0	6,401.4	18.0	21.3	-7.00	-3,669.6	1,008.9	3,967.7	3,933.9	33.78	117.452	
6,550.0	6,487.3	6,540.9	6,446.3	18.0	21.4	-7.13	-3,669.9	1,008.7	3,956.6	3,923.1	33.51	118.077	
6,594.5	6,529.8	6,582.6	6,488.0	18.0	21.4	-7.28	-3,670.2	1,008.5	3,944.1	3,910.9	33.15	118.973	
6,600.0	6,535.1	6,587.7	6,493.2	18.1	21.5	-7.30	-3,670.2	1,008.5	3,942.3	3,909.2	33.10	119.107	
6,650.0	6,581.7	6,625.2	6,530.6	18.0	21.5	-7.52	-3,670.5	1,008.3	3,924.8	3,892.2	32.54	120.618	
6,692.9	6,620.6	6,656.0	6,561.5	18.0	21.5	-7.74	-3,670.8	1,008.1	3,907.2	3,875.3	31.95	122.280	
6,700.0	6,626.9	6,661.1	6,566.5	18.0	21.6	-7.79	-3,670.9	1,008.0	3,904.1	3,872.3	31.85	122.586	
6,750.0	6,670.6	6,699.3	6,604.7	18.0	21.6	-8.12	-3,671.4	1,007.7	3,880.5	3,849.4	31.04	125.007	
6,791.3	6,705.4	6,736.9	6,642.3	18.0	21.7	-8.46	-3,671.8	1,007.4	3,858.7	3,828.4	30.30	127.334	
6,800.0	6,712.5	6,744.6	6,650.0	18.0	21.7	-8.54	-3,671.9	1,007.4	3,853.9	3,823.7	30.14	127.864	
6,850.0	6,752.3	6,779.0	6,684.4	18.0	21.7	-9.04	-3,672.4	1,007.1	3,824.4	3,795.2	29.13	131.280	
6,889.7	6,782.5	6,810.7	6,716.1	18.0	21.8	-9.52	-3,672.8	1,006.9	3,799.0	3,770.7	28.28	134.315	
6,900.0	6,790.0	6,817.0	6,722.4	18.0	21.8	-9.66	-3,672.9	1,006.8	3,792.2	3,764.1	28.06	135.157	
6,950.0	6,825.3	6,846.4	6,751.8	18.0	21.8	-10.40	-3,673.3	1,006.6	3,757.5	3,730.6	26.93	139.548	
6,988.2	6,850.5	6,873.0	6,778.4	17.9	21.8	-11.09	-3,673.7	1,006.4	3,729.5	3,703.5	26.06	143.115	
7,000.0	6,858.0	6,873.0	6,778.4	17.9	21.8	-11.31	-3,673.7	1,006.4	3,720.6	3,694.8	25.78	144.315	
7,050.0	6,888.0	6,898.7	6,804.1	18.0	21.9	-12.44	-3,674.2	1,006.1	3,681.4	3,656.7	24.67	149.216	
7,086.6	6,908.1	6,915.5	6,820.9	18.0	21.9	-13.45	-3,674.5	1,006.0	3,651.5	3,627.6	23.93	152.613	
7,100.0	6,915.1	6,921.4	6,826.8	18.0	21.9	-13.87	-3,674.6	1,005.9	3,640.3	3,616.6	23.66	153.846	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,939.2	6,941.7	6,847.1	18.0	21.9	-15.71	-3,675.1	1,005.7	3,597.4	3,574.5	22.85	157.436		
7,185.0	6,954.3	6,954.6	6,859.9	18.1	22.0	-17.34	-3,675.4	1,005.5	3,566.4	3,543.9	22.48	158.674		
7,200.0	6,960.3	6,967.0	6,872.4	18.1	22.0	-18.22	-3,675.7	1,005.3	3,552.9	3,530.5	22.40	158.586		
7,250.0	6,978.1	6,977.8	6,883.2	18.3	22.0	-21.51	-3,675.9	1,005.2	3,507.0	3,484.5	22.48	156.034		
7,283.4	6,988.2	6,989.6	6,894.9	18.4	22.0	-24.54	-3,676.2	1,005.0	3,475.6	3,452.6	23.02	150.969		
7,300.0	6,992.6	6,994.8	6,900.1	18.4	22.0	-26.35	-3,676.3	1,005.0	3,459.9	3,436.4	23.47	147.394		
7,350.0	7,003.7	7,008.0	6,913.4	18.7	22.0	-33.64	-3,676.6	1,004.8	3,411.9	3,386.1	25.82	132.124		
7,381.9	7,009.1	7,014.5	6,919.9	18.9	22.0	-40.34	-3,676.8	1,004.8	3,380.9	3,352.6	28.26	119.648		
7,400.0	7,011.4	7,017.6	6,922.9	19.0	22.0	-45.18	-3,676.8	1,004.7	3,363.1	3,333.2	29.98	112.175		
7,450.0	7,015.7	7,023.3	6,928.7	19.3	22.1	-63.69	-3,677.0	1,004.7	3,313.9	3,278.5	35.39	93.627		
7,480.3	7,016.6	7,025.0	6,930.4	19.6	22.1	-78.80	-3,677.0	1,004.7	3,284.0	3,246.3	37.70	87.120		
7,488.2	7,016.6	7,025.2	6,930.6	19.6	22.1	-83.06	-3,677.0	1,004.7	3,276.2	3,238.2	37.94	86.355		
7,500.0	7,016.6	7,025.4	6,930.8	19.7	22.1	-83.09	-3,677.0	1,004.7	3,264.5	3,226.4	38.06	85.783		
7,578.7	7,016.3	7,027.0	6,932.4	20.5	22.1	-83.28	-3,677.1	1,004.7	3,186.6	3,147.7	38.89	81.942		
7,600.0	7,016.2	7,027.5	6,932.8	20.7	22.1	-83.33	-3,677.1	1,004.7	3,165.6	3,126.5	39.11	80.933		
7,677.1	7,016.0	7,029.0	6,934.4	21.6	22.1	-83.51	-3,677.1	1,004.6	3,089.3	3,049.3	40.03	77.176		
7,700.0	7,015.9	7,029.5	6,934.8	21.8	22.1	-83.57	-3,677.1	1,004.6	3,066.7	3,026.4	40.30	76.096		
7,775.6	7,015.7	7,031.0	6,936.3	22.7	22.1	-83.75	-3,677.1	1,004.6	2,992.1	2,950.8	41.29	72.474		
7,800.0	7,015.6	7,031.4	6,936.8	23.0	22.1	-83.81	-3,677.1	1,004.6	2,968.0	2,926.4	41.60	71.340		
7,874.0	7,015.4	7,032.9	6,938.3	24.0	22.1	-83.98	-3,677.2	1,004.6	2,895.0	2,852.3	42.64	67.897		
7,900.0	7,015.3	7,033.4	6,938.8	24.4	22.1	-84.04	-3,677.2	1,004.6	2,869.3	2,826.3	43.00	66.726		
7,972.4	7,015.1	7,034.8	6,940.2	25.4	22.1	-84.21	-3,677.2	1,004.6	2,797.9	2,753.8	44.07	63.486		
8,000.0	7,015.0	7,035.4	6,940.7	25.8	22.1	-84.28	-3,677.2	1,004.6	2,770.7	2,726.3	44.48	62.294		
8,070.8	7,014.8	7,036.7	6,942.1	26.8	22.1	-84.45	-3,677.3	1,004.6	2,700.9	2,655.4	45.57	59.268		
8,100.0	7,014.7	7,037.3	6,942.6	27.3	22.1	-84.51	-3,677.3	1,004.6	2,672.3	2,626.2	46.02	58.064		
8,169.3	7,014.4	7,038.6	6,944.0	28.3	22.1	-84.67	-3,677.3	1,004.6	2,604.1	2,557.0	47.13	55.254		
8,200.0	7,014.4	7,039.2	6,944.6	28.8	22.1	-84.75	-3,677.3	1,004.6	2,573.9	2,526.3	47.62	54.049		
8,267.7	7,014.1	7,040.5	6,945.9	29.9	22.1	-84.90	-3,677.3	1,004.6	2,507.4	2,458.6	48.74	51.449		
8,300.0	7,014.0	7,041.1	6,946.5	30.4	22.1	-84.98	-3,677.4	1,004.6	2,475.7	2,426.4	49.27	50.250		
8,366.1	7,013.8	7,042.4	6,947.7	31.5	22.1	-85.13	-3,677.4	1,004.6	2,410.8	2,360.4	50.38	47.851		
8,400.0	7,013.7	7,043.0	6,948.4	32.0	22.1	-85.21	-3,677.4	1,004.6	2,377.6	2,326.6	50.95	46.663		
8,464.5	7,013.5	7,044.2	6,949.6	33.1	22.1	-85.35	-3,677.4	1,004.5	2,314.3	2,262.3	52.06	44.455		
8,500.0	7,013.4	7,044.9	6,950.2	33.7	22.1	-85.43	-3,677.4	1,004.5	2,279.7	2,227.0	52.67	43.282		
8,563.0	7,013.2	7,046.1	6,951.4	34.8	22.1	-85.57	-3,677.5	1,004.5	2,218.1	2,164.3	53.77	41.252		
8,600.0	7,013.1	7,046.7	6,952.1	35.4	22.1	-85.66	-3,677.5	1,004.5	2,181.9	2,127.5	54.42	40.097		
8,661.4	7,012.9	7,047.9	6,953.2	36.5	22.1	-85.80	-3,677.5	1,004.5	2,122.0	2,066.5	55.50	38.233		
8,700.0	7,012.8	7,048.6	6,953.9	37.1	22.1	-85.88	-3,677.5	1,004.5	2,084.4	2,028.2	56.19	37.098		
8,759.8	7,012.6	7,049.7	6,955.0	38.2	22.1	-86.02	-3,677.5	1,004.5	2,026.2	1,968.9	57.26	35.387		
8,800.0	7,012.4	7,050.4	6,955.8	38.9	22.1	-86.10	-3,677.6	1,004.5	1,987.1	1,929.1	57.98	34.274		
8,858.2	7,012.3	7,051.5	6,956.8	39.9	22.1	-86.23	-3,677.6	1,004.5	1,930.6	1,871.6	59.03	32.705		
8,900.0	7,012.1	7,052.2	6,957.6	40.7	22.1	-86.33	-3,677.6	1,004.5	1,890.1	1,830.3	59.79	31.615		
8,956.7	7,011.9	7,053.3	6,958.6	41.7	22.1	-86.45	-3,677.6	1,004.5	1,835.3	1,774.5	60.82	30.176		
9,000.0	7,011.8	7,054.0	6,959.4	42.4	22.1	-86.54	-3,677.6	1,004.5	1,793.5	1,731.9	61.61	29.110		
9,055.1	7,011.6	7,055.0	6,960.4	43.4	22.1	-86.66	-3,677.6	1,004.5	1,740.4	1,677.7	62.62	27.791		
9,100.0	7,011.5	7,055.8	6,961.2	44.2	22.1	-86.76	-3,677.7	1,004.5	1,697.2	1,633.7	63.45	26.749		
9,153.5	7,011.3	7,056.8	6,962.1	45.2	22.1	-86.88	-3,677.7	1,004.5	1,645.8	1,581.4	64.44	25.541		
9,200.0	7,011.2	7,057.6	6,962.9	46.1	22.1	-86.98	-3,677.7	1,004.5	1,601.4	1,536.1	65.30	24.524		
9,251.9	7,011.0	7,058.5	6,963.9	47.0	22.1	-87.09	-3,677.7	1,004.5	1,551.8	1,485.5	66.27	23.418		
9,300.0	7,010.9	7,059.4	6,964.7	47.9	22.1	-87.19	-3,677.7	1,004.5	1,506.1	1,438.9	67.16	22.425		
9,350.4	7,010.7	7,060.2	6,965.6	48.8	22.1	-87.30	-3,677.8	1,004.5	1,458.3	1,390.2	68.10	21.414		
9,400.0	7,010.5	7,061.1	6,966.5	49.7	22.1	-87.40	-3,677.8	1,004.5	1,411.4	1,342.4	69.03	20.447		
9,448.8	7,010.4	7,062.0	6,967.3	50.6	22.1	-87.51	-3,677.8	1,004.5	1,365.5	1,295.6	69.95	19.523		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,500.0	7,010.2	7,062.9	6,968.2	51.6	22.1	-87.62	-3,677.8	1,004.5	1,317.6	1,246.7	70.91	18.582	
9,547.2	7,010.1	7,063.7	6,969.1	52.5	22.1	-87.73	-3,677.8	1,004.4	1,273.6	1,201.8	71.80	17.739	
9,600.0	7,009.9	7,064.7	6,970.0	53.5	22.1	-87.84	-3,677.8	1,004.4	1,224.7	1,151.9	72.79	16.825	
9,645.6	7,009.8	7,065.5	6,970.9	54.3	22.1	-87.94	-3,677.9	1,004.4	1,182.7	1,109.1	73.66	16.057	
9,700.0	7,009.6	7,066.5	6,971.8	55.3	22.1	-88.06	-3,677.9	1,004.4	1,133.1	1,058.4	74.68	15.172	
9,744.1	7,009.4	7,067.3	6,972.6	56.2	22.1	-88.15	-3,677.9	1,004.4	1,093.1	1,017.6	75.52	14.475	
9,800.0	7,009.3	7,068.2	6,973.6	57.2	22.1	-88.27	-3,677.9	1,004.4	1,042.9	966.4	76.58	13.619	
9,842.5	7,009.1	7,069.0	6,974.3	58.0	22.1	-88.36	-3,677.9	1,004.4	1,005.2	927.8	77.39	12.989	
9,900.0	7,008.9	7,070.0	6,975.3	59.1	22.1	-88.49	-3,678.0	1,004.4	954.8	876.3	78.48	12.165	
9,940.9	7,008.8	7,070.7	6,976.0	59.9	22.1	-88.57	-3,678.0	1,004.4	919.4	840.1	79.26	11.599	
10,000.0	7,008.6	7,071.7	6,977.1	61.0	22.1	-88.70	-3,678.0	1,004.4	869.2	788.8	80.39	10.812	
10,039.3	7,008.5	7,072.4	6,977.7	61.7	22.1	-88.78	-3,678.0	1,004.4	836.4	755.2	81.14	10.308	
10,100.0	7,008.3	7,073.4	6,978.8	62.9	22.1	-88.90	-3,678.0	1,004.4	787.0	704.7	82.30	9.562	
10,137.8	7,008.2	7,074.1	6,979.4	63.6	22.1	-88.98	-3,678.0	1,004.4	757.0	674.0	83.02	9.118	
10,200.0	7,008.0	7,075.1	6,980.5	64.8	22.1	-89.11	-3,678.1	1,004.4	709.3	625.1	84.21	8.423	
10,236.2	7,007.9	7,075.7	6,981.1	65.5	22.1	-89.18	-3,678.1	1,004.4	682.7	597.8	84.91	8.040	
10,300.0	7,007.6	7,076.8	6,982.1	66.7	22.1	-89.31	-3,678.1	1,004.4	638.0	551.8	86.13	7.407	
10,334.6	7,007.5	7,077.4	6,982.7	67.3	22.1	-89.38	-3,678.1	1,004.4	615.1	528.3	86.79	7.087	
10,400.0	7,007.3	7,078.4	6,983.8	68.6	22.1	-89.52	-3,678.1	1,004.4	575.2	487.2	88.05	6.533	
10,433.0	7,007.2	7,079.0	6,984.3	69.2	22.1	-89.58	-3,678.1	1,004.4	556.8	468.2	88.68	6.279	
10,500.0	7,007.0	7,080.1	6,985.4	70.5	22.1	-89.72	-3,678.2	1,004.4	524.1	434.1	89.97	5.825	
10,531.5	7,006.9	7,080.6	6,985.9	71.1	22.1	-89.78	-3,678.2	1,004.4	511.0	420.5	90.57	5.642	
10,600.0	7,006.7	7,081.7	6,987.0	72.4	22.1	-89.91	-3,678.2	1,004.4	488.4	396.5	91.89	5.315	
10,629.9	7,006.6	7,082.2	6,987.5	73.0	22.1	-89.97	-3,678.2	1,004.4	481.2	388.8	92.47	5.204	
10,700.0	7,006.4	7,083.3	6,988.7	74.3	22.1	-90.11	-3,678.2	1,004.4	471.5	377.7	93.82	5.026	
10,728.3	7,006.3	7,083.8	6,989.1	74.9	22.1	-90.16	-3,678.2	1,004.4	470.5	376.2	94.36	4.986	
10,730.9	7,006.3	7,083.8	6,989.1	74.9	22.1	-90.17	-3,678.2	1,004.4	470.5	376.1	94.41	4.984 CC, ES	
10,800.0	7,006.0	7,084.9	6,990.2	76.3	22.1	-90.30	-3,678.3	1,004.4	475.6	379.8	95.74	4.967 SF	
10,826.7	7,005.9	7,085.3	6,990.7	76.8	22.1	-90.35	-3,678.3	1,004.4	480.2	383.9	96.26	4.988	
10,900.0	7,005.7	7,086.5	6,991.8	78.2	22.2	-90.49	-3,678.3	1,004.4	500.0	402.3	97.67	5.119	
10,925.2	7,005.6	7,086.9	6,992.2	78.7	22.2	-90.54	-3,678.3	1,004.4	509.0	410.9	98.16	5.186	
11,000.0	7,005.4	7,088.0	6,993.4	80.1	22.2	-90.68	-3,678.3	1,004.4	542.0	442.4	99.60	5.442	
11,023.6	7,005.3	7,088.4	6,993.7	80.6	22.2	-90.73	-3,678.3	1,004.4	554.1	454.1	100.06	5.538	
11,100.0	7,005.1	7,089.6	6,994.9	82.0	22.2	-90.87	-3,678.3	1,004.4	598.0	496.5	101.53	5.890	
11,122.0	7,005.0	7,089.9	6,995.2	82.5	22.2	-90.91	-3,678.3	1,004.4	611.8	509.9	101.96	6.001	
11,200.0	7,004.7	7,091.1	6,996.4	84.0	22.2	-91.06	-3,678.4	1,004.4	664.4	560.9	103.47	6.421	
11,220.4	7,004.7	7,091.4	6,996.7	84.4	22.2	-91.09	-3,678.4	1,004.4	679.0	575.1	103.86	6.537	
11,300.0	7,004.4	7,092.6	6,997.9	85.9	22.2	-91.24	-3,678.4	1,004.4	738.4	633.0	105.40	7.006	
11,318.9	7,004.4	7,092.9	6,998.2	86.3	22.2	-91.27	-3,678.4	1,004.4	753.0	647.2	105.76	7.120	
11,400.0	7,004.1	7,094.1	6,999.4	87.8	22.2	-91.42	-3,678.4	1,004.4	817.9	710.6	107.33	7.621	
11,417.3	7,004.0	7,094.4	6,999.7	88.2	22.2	-91.45	-3,678.4	1,004.4	832.1	724.5	107.66	7.729	
11,500.0	7,003.8	7,095.6	7,000.9	89.8	22.2	-91.60	-3,678.5	1,004.3	901.5	792.3	109.26	8.251	
11,515.7	7,003.7	7,095.8	7,001.2	90.1	22.2	-91.63	-3,678.5	1,004.3	915.0	805.4	109.57	8.351	
11,600.0	7,003.4	7,097.1	7,002.4	91.7	22.2	-91.78	-3,678.5	1,004.3	988.2	877.0	111.20	8.887	
11,614.1	7,003.4	7,097.3	7,002.6	92.0	22.2	-91.81	-3,678.5	1,004.3	1,000.7	889.2	111.47	8.977	
11,700.0	7,003.1	7,098.5	7,003.8	93.7	22.2	-91.96	-3,678.5	1,004.3	1,077.2	964.0	113.13	9.522	
11,712.6	7,003.1	7,098.7	7,004.0	93.9	22.2	-91.98	-3,678.5	1,004.3	1,088.5	975.1	113.37	9.601	
11,800.0	7,002.8	7,099.9	7,005.3	95.6	22.2	-92.13	-3,678.5	1,004.3	1,167.9	1,052.9	115.06	10.150	
11,811.0	7,002.7	7,100.1	7,005.4	95.8	22.2	-92.15	-3,678.5	1,004.3	1,178.0	1,062.7	115.28	10.219	
11,900.0	7,002.5	7,101.4	7,006.7	97.6	22.2	-92.30	-3,678.6	1,004.3	1,260.1	1,143.1	117.00	10.770	
11,909.4	7,002.4	7,101.5	7,006.8	97.7	22.2	-92.32	-3,678.6	1,004.3	1,268.8	1,151.7	117.18	10.828	
12,000.0	7,002.1	7,102.8	7,008.1	99.5	22.2	-92.47	-3,678.6	1,004.3	1,353.4	1,234.4	118.93	11.379	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,007.8	7,002.1	7,102.9	7,008.2	99.7	22.2	-92.49	-3,678.6	1,004.3	1,360.7	1,241.6	119.08	11.427	
12,100.0	7,001.8	7,104.2	7,009.5	101.5	22.2	-92.64	-3,678.6	1,004.3	1,447.5	1,326.7	120.87	11.976	
12,106.3	7,001.8	7,104.3	7,009.6	101.6	22.2	-92.65	-3,678.6	1,004.3	1,453.5	1,332.5	120.99	12.013	
12,200.0	7,001.5	7,105.6	7,010.9	103.4	22.2	-92.81	-3,678.6	1,004.3	1,542.4	1,419.6	122.80	12.561	
12,204.7	7,001.5	7,105.6	7,011.0	103.5	22.2	-92.82	-3,678.6	1,004.3	1,546.9	1,424.0	122.89	12.588	
12,300.0	7,001.2	7,106.9	7,012.3	105.3	22.2	-92.98	-3,678.7	1,004.3	1,637.9	1,513.2	124.73	13.132	
12,303.1	7,001.1	7,107.0	7,012.3	105.4	22.2	-92.98	-3,678.7	1,004.3	1,640.9	1,516.1	124.79	13.149	
12,400.0	7,000.8	7,108.3	7,013.6	107.3	22.2	-93.14	-3,678.7	1,004.3	1,734.0	1,607.3	126.67	13.689	
12,401.5	7,000.8	7,108.3	7,013.6	107.3	22.2	-93.14	-3,678.7	1,004.3	1,735.5	1,608.8	126.70	13.698	
12,500.0	7,000.5	7,109.6	7,015.0	109.3	22.2	-93.30	-3,678.7	1,004.3	1,830.4	1,701.8	128.60	14.233	
12,598.4	7,000.2	7,110.9	7,016.3	111.2	22.2	-93.46	-3,678.7	1,004.3	1,925.6	1,795.1	130.50	14.756	
12,600.0	7,000.2	7,111.0	7,016.3	111.2	22.2	-93.47	-3,678.7	1,004.3	1,927.2	1,796.7	130.53	14.764	
12,696.8	6,999.8	7,112.2	7,017.6	113.1	22.2	-93.62	-3,678.8	1,004.3	2,021.2	1,888.8	132.40	15.266	
12,700.0	6,999.8	7,112.3	7,017.6	113.2	22.2	-93.62	-3,678.8	1,004.3	2,024.3	1,891.8	132.46	15.282	
12,795.2	6,999.5	7,113.5	7,018.9	115.0	22.2	-93.78	-3,678.8	1,004.3	2,117.1	1,982.8	134.30	15.763	
12,800.0	6,999.5	7,113.6	7,018.9	115.1	22.2	-93.78	-3,678.8	1,004.3	2,121.7	1,987.3	134.39	15.787	
12,893.7	6,999.2	7,114.8	7,020.1	116.9	22.2	-93.93	-3,678.8	1,004.3	2,213.1	2,076.9	136.20	16.249	
12,900.0	6,999.2	7,114.9	7,020.2	117.1	22.2	-93.94	-3,678.8	1,004.3	2,219.3	2,083.0	136.32	16.280	
12,992.1	6,998.9	7,116.1	7,021.4	118.9	22.2	-94.08	-3,678.8	1,004.3	2,309.4	2,171.3	138.10	16.722	
13,000.0	6,998.8	7,116.2	7,021.5	119.0	22.2	-94.09	-3,678.8	1,004.3	2,317.1	2,178.9	138.25	16.760	
13,090.5	6,998.6	7,117.3	7,022.7	120.8	22.2	-94.23	-3,678.9	1,004.3	2,405.8	2,265.8	140.00	17.184	
13,100.0	6,998.5	7,117.4	7,022.8	121.0	22.2	-94.25	-3,678.9	1,004.3	2,415.1	2,274.9	140.18	17.228	
13,188.9	6,998.2	7,118.6	7,023.9	122.7	22.2	-94.38	-3,678.9	1,004.3	2,502.4	2,360.5	141.90	17.635	
13,200.0	6,998.2	7,118.7	7,024.0	122.9	22.2	-94.40	-3,678.9	1,004.3	2,513.2	2,371.1	142.11	17.685	
13,287.4	6,997.9	7,119.8	7,025.1	124.6	22.2	-94.53	-3,678.9	1,004.3	2,599.1	2,455.3	143.80	18.075	
13,300.0	6,997.9	7,119.9	7,025.3	124.9	22.2	-94.55	-3,678.9	1,004.3	2,611.5	2,467.5	144.04	18.131	
13,385.8	6,997.6	7,121.0	7,026.3	126.6	22.2	-94.68	-3,678.9	1,004.3	2,696.0	2,550.3	145.69	18.504	
13,400.0	6,997.5	7,121.2	7,026.5	126.9	22.2	-94.70	-3,678.9	1,004.3	2,710.0	2,564.0	145.97	18.565	
13,484.2	6,997.3	7,122.2	7,027.5	128.5	22.2	-94.82	-3,678.9	1,004.3	2,792.9	2,645.3	147.59	18.924	
13,500.0	6,997.2	7,122.4	7,027.7	128.8	22.2	-94.84	-3,678.9	1,004.3	2,808.5	2,660.6	147.89	18.990	
13,582.6	6,996.9	7,123.4	7,028.7	130.4	22.2	-94.97	-3,679.0	1,004.3	2,890.0	2,740.5	149.49	19.333	
13,600.0	6,996.9	7,123.6	7,029.0	130.8	22.2	-94.99	-3,679.0	1,004.3	2,907.1	2,757.3	149.82	19.404	
13,681.1	6,996.6	7,124.6	7,029.9	132.4	22.2	-95.11	-3,679.0	1,004.3	2,987.1	2,835.7	151.38	19.733	
13,700.0	6,996.5	7,124.8	7,030.2	132.7	22.2	-95.13	-3,679.0	1,004.3	3,005.8	2,854.1	151.74	19.808	
13,779.5	6,996.3	7,125.8	7,031.1	134.3	22.2	-95.25	-3,679.0	1,004.3	3,084.4	2,931.1	153.27	20.123	
13,800.0	6,996.2	7,126.0	7,031.4	134.7	22.2	-95.28	-3,679.0	1,004.3	3,104.6	2,950.9	153.67	20.203	
13,877.9	6,995.9	7,126.9	7,032.3	136.2	22.2	-95.39	-3,679.0	1,004.3	3,181.7	3,026.5	155.17	20.505	
13,900.0	6,995.9	7,127.2	7,032.5	136.7	22.2	-95.42	-3,679.0	1,004.3	3,203.5	3,047.9	155.59	20.589	
13,976.3	6,995.6	7,128.1	7,033.4	138.2	22.2	-95.53	-3,679.0	1,004.3	3,279.0	3,122.0	157.06	20.877	
14,000.0	6,995.5	7,128.4	7,033.7	138.6	22.2	-95.56	-3,679.0	1,004.3	3,302.4	3,144.9	157.51	20.966	
14,074.8	6,995.3	7,129.2	7,034.6	140.1	22.2	-95.66	-3,679.1	1,004.3	3,376.4	3,217.5	158.95	21.242	
14,100.0	6,995.2	7,129.5	7,034.9	140.6	22.2	-95.70	-3,679.1	1,004.3	3,401.4	3,242.0	159.44	21.334	
14,162.0	6,995.0	7,130.2	7,035.6	141.8	22.2	-95.78	-3,679.1	1,004.3	3,462.8	3,302.3	160.59	21.564	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
0.0	0.0	0.0	0.0	0.0	0.0	174.74	-4,240.5	390.4	4,258.5				
98.4	98.4	74.9	74.9	0.1	0.0	174.74	-4,240.5	390.2	4,258.5	4,258.3	0.14	N/A	
100.0	100.0	76.5	76.5	0.1	0.0	174.74	-4,240.5	390.2	4,258.5	4,258.3	0.15	N/A	
196.8	196.8	193.9	193.9	0.3	0.2	174.75	-4,240.3	389.6	4,258.2	4,257.7	0.51	8,381.424	
200.0	200.0	197.9	197.9	0.3	0.2	174.75	-4,240.3	389.6	4,258.2	4,257.7	0.52	8,178.811	
288.3	288.3	263.8	263.8	0.5	0.2	174.75	-4,240.2	389.3	4,258.0	4,257.2	0.76	5,606.148	
295.3	295.3	268.9	268.9	0.5	0.2	174.75	-4,240.2	389.3	4,258.0	4,257.2	0.78	5,471.307	
300.0	300.0	272.4	272.4	0.5	0.2	174.76	-4,240.2	389.2	4,258.0	4,257.2	0.79	5,383.687	
393.7	393.7	352.8	352.8	0.8	0.3	174.76	-4,240.4	388.9	4,258.3	4,257.2	1.04	4,084.770	
400.0	400.0	358.7	358.7	0.8	0.3	174.76	-4,240.5	388.9	4,258.3	4,257.2	1.06	4,018.984	
492.1	492.1	473.6	473.6	1.0	0.3	174.76	-4,240.7	389.0	4,258.5	4,257.3	1.29	3,297.952	
500.0	500.0	485.6	485.6	1.0	0.3	174.76	-4,240.7	389.0	4,258.5	4,257.2	1.31	3,251.328	
590.5	590.5	586.6	586.6	1.2	0.4	174.76	-4,240.3	388.9	4,258.2	4,256.6	1.55	2,741.086	
600.0	600.0	596.6	596.6	1.2	0.4	174.76	-4,240.3	388.8	4,258.1	4,256.5	1.58	2,695.968	
689.0	689.0	673.9	673.9	1.4	0.4	174.77	-4,240.0	388.3	4,257.8	4,256.0	1.82	2,334.905	
700.0	700.0	683.4	683.4	1.4	0.4	174.77	-4,240.0	388.3	4,257.8	4,255.9	1.85	2,296.789	
749.2	749.2	724.7	724.7	1.6	0.4	174.77	-4,240.0	387.9	4,257.7	4,255.7	1.98	2,144.977	
787.4	787.4	756.2	756.2	1.6	0.4	174.78	-4,240.1	387.7	4,257.8	4,255.7	2.09	2,041.964	
800.0	800.0	766.6	766.6	1.7	0.4	174.78	-4,240.1	387.6	4,257.8	4,255.7	2.12	2,010.148	
885.8	885.8	858.1	858.1	1.9	0.5	174.78	-4,240.3	387.4	4,258.0	4,255.7	2.33	1,830.622	
900.0	900.0	876.3	876.2	1.9	0.5	174.78	-4,240.3	387.4	4,258.0	4,255.6	2.36	1,805.933	
984.2	984.2	984.7	984.7	2.1	0.5	174.78	-4,240.0	387.4	4,257.8	4,255.2	2.57	1,654.638	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	0.5	174.78	-4,239.9	387.4	4,257.7	4,255.0	2.61	1,629.156	
1,082.7	1,082.7	1,077.7	1,077.6	2.3	0.5	174.78	-4,239.5	387.0	4,257.2	4,254.4	2.83	1,502.463	
1,100.0	1,100.0	1,093.2	1,093.2	2.3	0.5	174.79	-4,239.5	386.9	4,257.1	4,254.2	2.88	1,478.524	
1,124.0	1,124.0	1,113.1	1,113.0	2.4	0.5	112.22	-4,239.4	386.7	4,257.1	4,254.1	2.92	1,456.259	
1,181.1	1,181.1	1,158.3	1,158.3	2.5	0.6	112.23	-4,239.3	386.4	4,257.4	4,254.3	3.06	1,389.863	
1,200.0	1,200.0	1,173.3	1,173.2	2.6	0.6	112.23	-4,239.4	386.4	4,257.6	4,254.5	3.11	1,369.189	
1,279.5	1,279.4	1,258.2	1,258.2	2.7	0.6	112.26	-4,239.5	386.1	4,259.1	4,255.8	3.29	1,293.338	
1,300.0	1,299.8	1,284.2	1,284.2	2.8	0.6	112.27	-4,239.4	386.1	4,259.6	4,256.3	3.34	1,275.921	
1,377.9	1,377.5	1,373.7	1,373.7	3.0	0.6	112.33	-4,239.1	386.0	4,261.8	4,258.3	3.53	1,206.880	
1,400.0	1,399.5	1,398.4	1,398.4	3.0	0.6	112.35	-4,239.0	385.8	4,262.5	4,259.0	3.59	1,188.592	
1,476.4	1,475.3	1,461.3	1,461.3	3.2	0.6	112.39	-4,238.8	385.3	4,265.7	4,261.9	3.80	1,123.234	
1,500.0	1,498.7	1,480.6	1,480.6	3.2	0.6	112.40	-4,238.7	385.3	4,266.9	4,263.0	3.86	1,104.450	
1,574.8	1,572.6	1,589.9	1,589.8	3.5	0.7	112.53	-4,238.3	385.1	4,271.0	4,266.9	4.10	1,042.720	
1,600.0	1,597.5	1,617.5	1,617.5	3.5	0.7	112.57	-4,238.0	385.0	4,272.3	4,268.2	4.17	1,023.901	
1,673.2	1,669.4	1,683.2	1,683.2	3.7	0.7	112.64	-4,237.4	384.6	4,276.9	4,272.5	4.42	968.465	
1,700.0	1,695.7	1,700.0	1,700.0	3.8	0.7	112.65	-4,237.2	384.5	4,278.8	4,274.3	4.50	950.182	
1,771.6	1,765.7	1,762.2	1,762.2	4.1	0.7	112.81	-4,236.9	384.0	4,284.2	4,279.5	4.76	899.697	
1,800.0	1,793.4	1,784.4	1,784.4	4.2	0.7	112.87	-4,236.8	383.9	4,286.4	4,281.6	4.86	881.378	
1,870.1	1,862.0	1,879.7	1,879.7	4.4	0.8	113.11	-4,236.2	384.0	4,291.9	4,286.7	5.14	835.218	
1,900.0	1,891.3	1,900.0	1,900.0	4.5	0.8	113.16	-4,236.0	384.1	4,294.0	4,288.8	5.25	818.134	
1,968.5	1,958.3	1,962.2	1,962.1	4.8	0.8	113.32	-4,235.4	384.4	4,299.1	4,293.6	5.52	779.431	
2,000.0	1,989.1	1,985.0	1,985.0	4.9	0.8	113.37	-4,235.3	384.5	4,301.6	4,296.0	5.64	763.083	
2,066.9	2,054.5	2,040.6	2,040.5	5.2	0.8	113.51	-4,235.1	384.8	4,307.0	4,301.1	5.90	729.662	
2,100.0	2,086.9	2,069.6	2,069.6	5.3	0.8	113.58	-4,235.0	385.0	4,309.7	4,303.7	6.03	714.219	
2,165.3	2,150.8	2,151.4	2,151.4	5.6	0.8	113.78	-4,234.7	385.9	4,315.2	4,308.8	6.30	684.549	
2,200.0	2,184.7	2,200.0	2,199.9	5.7	0.9	113.89	-4,234.3	386.4	4,317.8	4,311.4	6.45	669.765	
2,263.8	2,247.1	2,245.8	2,245.7	5.9	0.9	114.00	-4,233.9	386.8	4,322.8	4,316.1	6.70	644.849	
2,300.0	2,282.5	2,269.6	2,269.6	6.1	0.9	114.06	-4,233.8	387.0	4,325.8	4,318.9	6.85	631.595	
2,362.2	2,343.4	2,325.1	2,325.0	6.4	0.9	114.20	-4,233.8	387.4	4,331.1	4,324.0	7.11	609.564	
2,400.0	2,380.3	2,384.4	2,384.3	6.5	0.9	114.34	-4,233.5	388.0	4,334.2	4,327.0	7.27	596.452	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,460.6	2,439.6	2,442.4	2,442.3	6.8	0.9	114.48	-4,233.1	388.6	4,339.1	4,331.6	7.52	576.934	
2,500.0	2,478.1	2,475.2	2,475.1	6.9	0.9	114.56	-4,232.9	388.8	4,342.4	4,334.7	7.69	565.039	
2,559.0	2,535.9	2,536.9	2,536.9	7.2	0.9	114.71	-4,232.6	388.9	4,347.3	4,339.3	7.94	547.662	
2,600.0	2,576.0	2,588.7	2,588.6	7.4	0.9	114.83	-4,232.2	389.1	4,350.6	4,342.5	8.12	536.023	
2,657.5	2,632.2	2,645.6	2,645.6	7.6	1.0	114.97	-4,231.7	389.3	4,355.2	4,346.9	8.36	520.899	
2,700.0	2,673.8	2,685.6	2,685.5	7.8	1.0	115.07	-4,231.3	389.3	4,358.7	4,350.1	8.54	510.349	
2,755.9	2,728.4	2,732.1	2,732.1	8.0	1.0	115.19	-4,231.0	389.1	4,363.3	4,354.5	8.78	497.115	
2,800.0	2,771.6	2,767.1	2,767.1	8.2	1.0	115.28	-4,230.8	389.0	4,367.0	4,358.0	8.96	487.200	
2,854.3	2,824.7	2,819.7	2,819.7	8.4	1.0	115.41	-4,230.6	389.1	4,371.7	4,362.5	9.20	475.342	
2,900.0	2,869.4	2,889.6	2,889.5	8.6	1.0	115.58	-4,230.1	389.2	4,375.5	4,366.1	9.40	465.427	
2,952.7	2,921.0	2,930.9	2,930.8	8.9	1.0	115.68	-4,229.7	389.2	4,379.9	4,370.2	9.62	455.078	
3,000.0	2,967.2	2,962.6	2,962.5	9.1	1.0	115.76	-4,229.5	389.2	4,383.9	4,374.1	9.82	446.314	
3,051.2	3,017.3	3,000.0	2,999.9	9.3	1.1	115.85	-4,229.4	389.1	4,388.5	4,378.4	10.04	437.180	
3,100.0	3,065.0	3,054.2	3,054.1	9.5	1.1	115.98	-4,229.3	389.1	4,392.9	4,382.7	10.24	428.822	
3,149.6	3,113.5	3,112.5	3,112.4	9.7	1.1	116.12	-4,229.0	389.2	4,397.3	4,386.8	10.46	420.589	
3,200.0	3,162.8	3,164.4	3,164.4	9.9	1.1	116.25	-4,228.7	389.2	4,401.7	4,391.0	10.67	412.483	
3,248.0	3,209.8	3,200.0	3,199.9	10.2	1.1	116.34	-4,228.5	389.0	4,405.9	4,395.1	10.88	405.133	
3,300.0	3,260.7	3,245.5	3,245.5	10.4	1.1	116.45	-4,228.3	388.8	4,410.6	4,399.5	11.09	397.611	
3,346.4	3,306.1	3,277.9	3,277.8	10.6	1.1	116.53	-4,228.3	388.6	4,415.0	4,403.7	11.29	391.158	
3,400.0	3,358.5	3,329.5	3,329.5	10.8	1.1	116.66	-4,228.4	388.5	4,420.1	4,408.6	11.51	384.030	
3,444.9	3,402.4	3,390.7	3,390.6	11.0	1.1	116.81	-4,228.4	388.4	4,424.4	4,412.7	11.70	378.275	
3,500.0	3,456.3	3,437.7	3,437.7	11.3	1.1	116.92	-4,228.2	388.3	4,429.5	4,417.6	11.93	371.383	
3,543.3	3,498.6	3,471.5	3,471.5	11.5	1.1	117.01	-4,228.2	388.1	4,433.6	4,421.5	12.11	366.149	
3,600.0	3,554.1	3,526.4	3,526.3	11.7	1.1	117.15	-4,228.3	387.6	4,439.2	4,426.8	12.35	359.497	
3,641.7	3,594.9	3,581.0	3,580.9	11.9	1.2	117.28	-4,228.3	387.2	4,443.2	4,430.7	12.53	354.687	
3,700.0	3,651.9	3,648.4	3,648.3	12.2	1.2	117.45	-4,228.0	386.8	4,448.6	4,435.9	12.78	348.148	
3,740.1	3,691.2	3,692.6	3,692.5	12.3	1.2	117.56	-4,227.8	386.2	4,452.3	4,439.4	12.95	343.784	
3,800.0	3,749.7	3,753.2	3,753.1	12.6	1.2	117.72	-4,227.4	385.3	4,457.8	4,444.6	13.21	337.507	
3,838.6	3,787.5	3,791.8	3,791.7	12.8	1.2	117.81	-4,227.1	385.0	4,461.4	4,448.0	13.37	333.586	
3,900.0	3,847.5	3,844.2	3,844.1	13.0	1.2	117.94	-4,226.8	384.5	4,467.1	4,453.5	13.64	327.593	
3,937.0	3,883.7	3,874.8	3,874.7	13.2	1.2	118.02	-4,226.7	384.1	4,470.6	4,456.8	13.79	324.104	
4,000.0	3,945.4	3,937.4	3,937.3	13.5	1.3	118.18	-4,226.5	383.1	4,476.7	4,462.7	14.06	318.335	
4,035.4	3,980.0	3,978.3	3,978.2	13.7	1.3	118.28	-4,226.3	382.7	4,480.1	4,465.9	14.21	315.170	
4,068.9	4,012.7	4,016.3	4,016.2	13.8	1.3	118.38	-4,226.1	382.5	4,483.3	4,468.9	14.36	312.235	
4,100.0	4,043.2	4,050.9	4,050.8	13.9	1.3	118.51	-4,225.8	382.1	4,486.1	4,471.7	14.47	310.049	
4,133.8	4,076.4	4,088.5	4,088.4	14.0	1.3	118.65	-4,225.5	381.6	4,489.0	4,474.4	14.57	308.189	
4,200.0	4,141.6	4,130.9	4,130.8	14.2	1.3	118.83	-4,225.2	381.0	4,494.2	4,479.5	14.75	304.732	
4,232.3	4,173.4	4,148.8	4,148.7	14.3	1.3	118.91	-4,225.2	380.7	4,496.6	4,481.8	14.83	303.283	
4,300.0	4,240.5	4,200.0	4,199.8	14.5	1.3	119.08	-4,225.4	379.8	4,501.5	4,486.5	14.99	300.258	
4,330.7	4,271.0	4,209.7	4,209.5	14.6	1.3	119.13	-4,225.5	379.7	4,503.6	4,488.5	15.06	299.106	
4,400.0	4,339.9	4,311.8	4,311.6	14.8	1.3	119.34	-4,225.9	378.5	4,507.5	4,492.3	15.21	296.386	
4,429.1	4,368.9	4,350.2	4,350.0	14.8	1.4	119.40	-4,225.9	378.1	4,508.8	4,493.5	15.26	295.384	
4,500.0	4,439.6	4,433.0	4,432.8	15.0	1.4	119.52	-4,225.6	376.9	4,511.0	4,495.6	15.40	292.900	
4,527.5	4,467.1	4,460.4	4,460.2	15.0	1.4	119.56	-4,225.5	376.4	4,511.6	4,496.2	15.45	292.078	
4,600.0	4,539.5	4,532.1	4,531.9	15.1	1.4	119.62	-4,225.1	375.2	4,512.7	4,497.1	15.57	289.871	
4,626.0	4,565.4	4,557.6	4,557.4	15.2	1.4	119.63	-4,225.0	374.7	4,512.8	4,497.2	15.60	289.193	
4,668.9	4,608.4	4,600.0	4,599.8	15.2	1.4	-177.79	-4,224.8	373.9	4,512.8	4,497.2	15.68	287.805	
4,700.0	4,639.5	4,625.0	4,624.8	15.3	1.4	-177.78	-4,224.7	373.5	4,512.7	4,497.0	15.73	286.938	
4,724.4	4,663.9	4,644.8	4,644.6	15.3	1.4	-177.77	-4,224.7	373.1	4,512.7	4,496.9	15.77	286.198	
4,751.5	4,691.0	4,666.7	4,666.5	15.3	1.5	-177.77	-4,224.7	372.7	4,512.7	4,496.9	15.81	285.381	
4,800.0	4,739.5	4,707.8	4,707.6	15.4	1.5	-177.76	-4,224.7	371.9	4,512.7	4,496.8	15.89	283.935	
4,822.8	4,762.3	4,732.2	4,731.9	15.4	1.5	-177.75	-4,224.7	371.5	4,512.8	4,496.8	15.93	283.243	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
4,900.0	4,839.5	4,858.5	4,858.3	15.6	1.5	-177.74	-4,224.4	370.6	4,512.8	4,496.7	16.07	280.857	
4,921.2	4,860.7	4,900.0	4,899.8	15.6	1.5	-177.75	-4,223.9	370.8	4,512.5	4,496.3	16.11	280.181	
5,000.0	4,939.5	4,965.2	4,965.0	15.7	1.5	-177.75	-4,223.0	371.2	4,511.4	4,495.1	16.24	277.712	
5,019.7	4,959.1	4,979.4	4,979.1	15.7	1.5	-177.75	-4,222.9	371.2	4,511.2	4,494.9	16.28	277.109	
5,100.0	5,039.5	5,082.5	5,082.2	15.9	1.5	-177.74	-4,221.7	370.7	4,510.3	4,493.9	16.43	274.439	
5,118.1	5,057.6	5,107.8	5,107.6	15.9	1.6	-177.74	-4,221.3	370.7	4,510.0	4,493.6	16.47	273.818	
5,200.0	5,139.5	5,197.7	5,197.5	16.0	1.6	-177.73	-4,219.7	370.1	4,508.6	4,492.0	16.63	271.143	
5,216.5	5,156.0	5,212.7	5,212.4	16.0	1.6	-177.73	-4,219.4	369.9	4,508.3	4,491.6	16.66	270.621	
5,300.0	5,239.5	5,286.1	5,285.8	16.2	1.6	-177.72	-4,218.2	369.2	4,506.9	4,490.1	16.82	268.028	
5,314.9	5,254.4	5,300.0	5,299.7	16.2	1.6	-177.72	-4,218.0	369.1	4,506.7	4,489.8	16.84	267.562	
5,400.0	5,339.5	5,366.3	5,366.0	16.3	1.6	-177.72	-4,217.1	368.9	4,505.5	4,488.5	17.00	265.020	
5,413.4	5,352.8	5,376.9	5,376.6	16.3	1.6	-177.72	-4,217.0	368.9	4,505.4	4,488.4	17.03	264.622	
5,500.0	5,439.5	5,462.4	5,462.1	16.5	1.7	-177.72	-4,216.1	369.2	4,504.5	4,487.3	17.19	261.981	
5,511.8	5,451.3	5,475.3	5,475.0	16.5	1.7	-177.72	-4,216.0	369.2	4,504.4	4,487.2	17.22	261.615	
5,600.0	5,539.5	5,550.6	5,550.3	16.6	1.7	-177.72	-4,215.2	369.5	4,503.5	4,486.1	17.39	259.024	
5,610.2	5,549.7	5,558.5	5,558.1	16.6	1.7	-177.73	-4,215.2	369.5	4,503.5	4,486.1	17.41	258.731	
5,700.0	5,639.5	5,623.5	5,623.2	16.8	1.7	-177.72	-4,214.9	369.5	4,503.0	4,485.5	17.57	256.292	
5,708.6	5,648.1	5,629.1	5,628.8	16.8	1.7	-177.72	-4,214.9	369.5	4,503.0	4,485.4	17.58	256.073	
5,721.9	5,661.4	5,637.8	5,637.5	16.8	1.7	-177.73	-4,214.9	369.6	4,503.0	4,485.4	17.61	255.737	
5,800.0	5,739.5	5,700.0	5,699.7	17.0	1.7	-177.73	-4,215.1	370.0	4,503.2	4,485.5	17.74	253.789	
5,807.1	5,746.5	5,700.0	5,699.7	17.0	1.7	-177.73	-4,215.1	370.0	4,503.3	4,485.5	17.76	253.618	
5,900.0	5,839.5	5,816.1	5,815.8	17.1	1.7	-177.75	-4,215.5	371.9	4,503.5	4,485.6	17.93	251.213	
5,904.6	5,844.1	5,819.9	5,819.6	17.1	1.7	-177.76	-4,215.5	371.9	4,503.5	4,485.6	17.94	251.095	
5,905.5	5,845.0	5,820.6	5,820.3	17.1	1.7	-177.76	-4,215.5	371.9	4,503.5	4,485.6	17.94	251.073	
6,000.0	5,939.5	5,900.0	5,899.7	17.3	1.7	-177.77	-4,215.7	373.1	4,503.7	4,485.6	18.11	248.687	
6,003.9	5,943.4	5,900.0	5,899.7	17.3	1.7	-177.77	-4,215.7	373.1	4,503.7	4,485.6	18.12	248.594	
6,100.0	6,039.5	5,979.8	5,979.5	17.4	1.7	-177.78	-4,216.2	374.0	4,504.3	4,486.0	18.29	246.304	
6,102.3	6,041.8	5,981.7	5,981.4	17.4	1.7	-177.78	-4,216.2	374.0	4,504.3	4,486.0	18.29	246.248	
6,200.0	6,139.5	6,122.4	6,122.0	17.6	1.7	-177.78	-4,216.7	374.0	4,504.7	4,486.2	18.46	243.988	
6,200.8	6,140.2	6,123.2	6,122.8	17.6	1.7	-177.78	-4,216.7	374.0	4,504.7	4,486.2	18.46	243.969	
6,299.2	6,238.7	6,219.1	6,218.8	17.8	1.7	-177.78	-4,216.5	374.0	4,504.5	4,485.8	18.65	241.561	
6,300.0	6,239.5	6,219.8	6,219.4	17.8	1.7	-177.78	-4,216.5	374.0	4,504.5	4,485.8	18.65	241.542	
6,322.3	6,261.8	6,237.6	6,237.3	17.8	1.7	-177.78	-4,216.5	374.0	4,504.5	4,485.8	18.69	241.011	
6,360.9	6,300.4	6,268.6	6,268.2	17.9	1.7	-177.78	-4,216.5	374.1	4,504.5	4,485.7	18.76	240.099	
6,397.6	6,337.1	6,300.0	6,299.7	17.9	1.7	2.01	-4,216.6	374.3	4,503.7	4,484.9	18.80	239.598	
6,400.0	6,339.5	6,300.0	6,299.7	17.9	1.7	2.01	-4,216.6	374.3	4,503.5	4,484.7	18.80	239.545	
6,450.0	6,389.2	6,371.1	6,370.8	18.0	1.7	2.02	-4,216.7	374.8	4,499.1	4,480.2	18.90	238.106	
6,496.0	6,434.7	6,418.4	6,418.0	18.0	1.7	2.03	-4,216.6	375.3	4,491.8	4,472.8	19.00	236.416	
6,500.0	6,438.6	6,421.2	6,420.8	18.0	1.7	2.04	-4,216.6	375.3	4,491.1	4,472.1	19.01	236.267	
6,550.0	6,487.3	6,456.5	6,456.2	18.0	1.7	2.07	-4,216.6	375.7	4,479.7	4,460.6	19.11	234.408	
6,594.5	6,529.8	6,500.0	6,499.6	18.0	1.7	2.11	-4,216.8	376.1	4,467.0	4,447.8	19.18	232.849	
6,600.0	6,535.1	6,500.0	6,499.6	18.1	1.7	2.11	-4,216.8	376.1	4,465.2	4,446.0	19.19	232.701	
6,650.0	6,581.7	6,520.9	6,520.5	18.0	1.7	2.17	-4,216.9	376.3	4,447.5	4,428.2	19.21	231.514	
6,692.9	6,620.6	6,544.4	6,544.0	18.0	1.7	2.23	-4,217.2	376.6	4,429.8	4,410.6	19.19	230.824	
6,700.0	6,626.9	6,548.2	6,547.9	18.0	1.7	2.24	-4,217.2	376.7	4,426.7	4,407.5	19.18	230.744	
6,750.0	6,670.6	6,574.8	6,574.4	18.0	1.7	2.33	-4,217.6	377.0	4,403.0	4,383.9	19.11	230.462	
6,791.3	6,705.4	6,600.0	6,599.6	18.0	1.7	2.42	-4,218.1	377.3	4,381.3	4,362.3	19.00	230.568	
6,800.0	6,712.5	6,600.0	6,599.6	18.0	1.7	2.44	-4,218.1	377.3	4,376.5	4,357.5	18.97	230.688	
6,850.0	6,752.3	6,638.1	6,637.7	18.0	1.7	2.57	-4,218.9	377.9	4,347.1	4,328.4	18.80	231.270	
6,889.7	6,782.5	6,666.6	6,666.2	18.0	1.7	2.70	-4,219.5	378.4	4,321.9	4,303.3	18.63	232.023	
6,900.0	6,790.0	6,673.7	6,673.3	18.0	1.7	2.73	-4,219.7	378.5	4,315.1	4,296.5	18.58	232.266	
6,950.0	6,825.3	6,815.5	6,815.0	18.0	1.7	2.98	-4,221.1	380.9	4,280.1	4,261.6	18.46	231.893	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
6,988.2	6,850.5	6,834.0	6,833.5	17.9	1.7	3.18	-4,221.1	381.1	4,251.4	4,233.2	18.24	233.124	
7,000.0	6,858.0	6,839.5	6,839.1	17.9	1.7	3.25	-4,221.1	381.2	4,242.2	4,224.1	18.16	233.559	
7,050.0	6,888.0	6,861.7	6,861.2	18.0	1.7	3.58	-4,221.1	381.4	4,202.3	4,184.4	17.84	235.514	
7,086.6	6,908.1	6,876.6	6,876.2	18.0	1.7	3.89	-4,221.1	381.5	4,171.8	4,154.2	17.60	237.080	
7,100.0	6,915.1	6,881.8	6,881.4	18.0	1.7	4.01	-4,221.1	381.5	4,160.3	4,142.8	17.51	237.628	
7,150.0	6,939.2	6,900.0	6,899.6	18.0	1.7	4.58	-4,221.2	381.7	4,116.7	4,099.5	17.17	239.717	
7,185.0	6,954.3	6,917.2	6,916.8	18.1	1.7	5.11	-4,221.2	381.8	4,085.1	4,068.2	16.96	240.909	
7,200.0	6,960.3	6,924.1	6,923.7	18.1	1.7	5.38	-4,221.3	381.9	4,071.4	4,054.6	16.87	241.366	
7,250.0	6,978.1	6,944.8	6,944.3	18.3	1.7	6.52	-4,221.3	382.0	4,024.8	4,008.2	16.60	242.468	
7,283.4	6,988.2	6,956.4	6,956.0	18.4	1.7	7.61	-4,221.4	382.1	3,992.9	3,976.5	16.45	242.717	
7,300.0	6,992.6	6,961.6	6,961.1	18.4	1.7	8.29	-4,221.4	382.2	3,977.0	3,960.6	16.39	242.675	
7,350.0	7,003.7	6,974.4	6,974.0	18.7	1.7	11.34	-4,221.4	382.3	3,928.3	3,912.1	16.27	241.405	
7,381.9	7,009.1	6,980.6	6,980.1	18.9	1.7	14.74	-4,221.4	382.3	3,896.9	3,880.6	16.30	239.051	
7,400.0	7,011.4	6,983.3	6,982.9	19.0	1.7	17.71	-4,221.4	382.3	3,879.0	3,862.6	16.40	236.577	
7,450.0	7,015.7	6,988.3	6,987.8	19.3	1.7	37.42	-4,221.4	382.4	3,829.2	3,811.4	17.79	215.250	
7,480.3	7,016.6	6,989.3	6,988.9	19.6	1.7	77.53	-4,221.4	382.4	3,799.0	3,779.6	19.38	195.976	
7,488.2	7,016.6	6,989.3	6,988.9	19.6	1.7	93.33	-4,221.4	382.4	3,791.1	3,771.5	19.61	193.299	
7,500.0	7,016.6	6,989.3	6,988.9	19.7	1.7	93.32	-4,221.4	382.4	3,779.3	3,759.5	19.73	191.572	
7,578.7	7,016.3	6,989.1	6,988.7	20.5	1.7	93.26	-4,221.4	382.4	3,700.6	3,680.1	20.55	180.051	
7,600.0	7,016.2	6,989.1	6,988.6	20.7	1.7	93.24	-4,221.4	382.4	3,679.4	3,658.6	20.78	177.092	
7,677.1	7,016.0	6,988.9	6,988.5	21.6	1.7	93.18	-4,221.4	382.4	3,602.3	3,580.6	21.69	166.110	
7,700.0	7,015.9	6,988.9	6,988.4	21.8	1.7	93.16	-4,221.4	382.4	3,579.4	3,557.5	21.96	163.030	
7,775.6	7,015.7	6,988.7	6,988.3	22.7	1.7	93.10	-4,221.4	382.4	3,503.9	3,481.0	22.93	152.780	
7,800.0	7,015.6	6,988.7	6,988.2	23.0	1.7	93.08	-4,221.4	382.4	3,479.5	3,456.3	23.25	149.650	
7,874.0	7,015.4	6,988.5	6,988.0	24.0	1.7	93.02	-4,221.4	382.4	3,405.6	3,381.3	24.28	140.258	
7,900.0	7,015.3	6,988.4	6,988.0	24.4	1.7	93.00	-4,221.4	382.4	3,379.6	3,355.0	24.64	137.143	
7,972.4	7,015.1	6,988.3	6,987.8	25.4	1.7	92.94	-4,221.4	382.4	3,307.3	3,281.6	25.71	128.642	
8,000.0	7,015.0	6,988.2	6,987.8	25.8	1.7	92.93	-4,221.4	382.4	3,279.7	3,253.6	26.12	125.587	
8,070.8	7,014.8	6,988.1	6,987.6	26.8	1.7	92.87	-4,221.4	382.4	3,209.0	3,181.7	27.21	117.954	
8,100.0	7,014.7	6,988.0	6,987.6	27.3	1.7	92.85	-4,221.4	382.4	3,179.8	3,152.2	27.65	114.987	
8,169.3	7,014.4	6,987.9	6,987.4	28.3	1.7	92.79	-4,221.4	382.4	3,110.6	3,081.9	28.76	108.166	
8,200.0	7,014.4	6,987.8	6,987.3	28.8	1.7	92.77	-4,221.4	382.4	3,079.9	3,050.7	29.25	105.304	
8,267.7	7,014.1	6,987.6	6,987.2	29.9	1.7	92.71	-4,221.4	382.4	3,012.3	2,982.0	30.36	99.224	
8,300.0	7,014.0	6,987.6	6,987.1	30.4	1.7	92.69	-4,221.4	382.4	2,980.1	2,949.2	30.89	96.477	
8,366.1	7,013.8	6,987.4	6,987.0	31.5	1.7	92.64	-4,221.4	382.4	2,914.0	2,882.0	32.00	91.065	
8,400.0	7,013.7	6,987.4	6,986.9	32.0	1.7	92.61	-4,221.4	382.4	2,880.2	2,847.6	32.57	88.434	
8,464.5	7,013.5	6,987.2	6,986.8	33.1	1.7	92.56	-4,221.4	382.4	2,815.7	2,782.1	33.67	83.617	
8,500.0	7,013.4	6,987.2	6,986.7	33.7	1.7	92.54	-4,221.4	382.4	2,780.3	2,746.1	34.28	81.102	
8,563.0	7,013.2	6,987.0	6,986.6	34.8	1.7	92.49	-4,221.4	382.4	2,717.5	2,682.1	35.38	76.811	
8,600.0	7,013.1	6,987.0	6,986.5	35.4	1.7	92.46	-4,221.4	382.4	2,680.5	2,644.5	36.02	74.410	
8,661.4	7,012.9	6,986.8	6,986.4	36.5	1.7	92.41	-4,221.4	382.4	2,619.2	2,582.1	37.11	70.585	
8,700.0	7,012.8	6,986.7	6,986.3	37.1	1.7	92.38	-4,221.4	382.4	2,580.7	2,542.9	37.79	68.292	
8,759.8	7,012.6	6,986.6	6,986.2	38.2	1.7	92.33	-4,221.4	382.4	2,520.9	2,482.1	38.86	64.877	
8,800.0	7,012.4	6,986.5	6,986.1	38.9	1.7	92.31	-4,221.4	382.4	2,480.8	2,441.3	39.57	62.687	
8,858.2	7,012.3	6,986.4	6,986.0	39.9	1.7	92.26	-4,221.4	382.4	2,422.7	2,382.1	40.63	59.634	
8,900.0	7,012.1	6,986.3	6,985.9	40.7	1.7	92.23	-4,221.4	382.4	2,381.0	2,339.6	41.38	57.541	
8,956.7	7,011.9	6,986.2	6,985.8	41.7	1.7	92.19	-4,221.4	382.4	2,324.5	2,282.0	42.41	54.808	
9,000.0	7,011.8	6,986.1	6,985.7	42.4	1.7	92.15	-4,221.4	382.4	2,281.2	2,238.0	43.20	52.807	
9,055.1	7,011.6	6,986.0	6,985.6	43.4	1.7	92.11	-4,221.4	382.4	2,226.2	2,182.0	44.21	50.356	
9,100.0	7,011.5	6,985.9	6,985.5	44.2	1.7	92.08	-4,221.4	382.4	2,181.4	2,136.4	45.03	48.441	
9,153.5	7,011.3	6,985.8	6,985.4	45.2	1.7	92.04	-4,221.4	382.4	2,128.1	2,082.0	46.02	46.241	
9,200.0	7,011.2	6,985.7	6,985.3	46.1	1.7	92.00	-4,221.4	382.4	2,081.7	2,034.8	46.88	44.406	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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									
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
9,251.9	7,011.0	6,985.6	6,985.2	47.0	1.7	91.96	-4,221.4	382.4	2,029.9	1,982.0	47.84	42.427	
9,300.0	7,010.9	6,985.5	6,985.1	47.9	1.7	91.93	-4,221.4	382.4	1,982.0	1,933.2	48.74	40.668	
9,350.4	7,010.7	6,985.4	6,985.0	48.8	1.7	91.89	-4,221.4	382.4	1,931.7	1,882.1	49.68	38.887	
9,400.0	7,010.5	6,985.3	6,984.9	49.7	1.7	91.85	-4,221.4	382.4	1,882.3	1,831.7	50.60	37.198	
9,448.8	7,010.4	6,985.2	6,984.8	50.6	1.7	91.82	-4,221.4	382.4	1,833.6	1,782.1	51.52	35.593	
9,500.0	7,010.2	6,985.1	6,984.7	51.6	1.7	91.78	-4,221.4	382.4	1,782.6	1,730.1	52.48	33.970	
9,547.2	7,010.1	6,985.0	6,984.6	52.5	1.7	91.74	-4,221.4	382.4	1,735.5	1,682.2	53.37	32.522	
9,600.0	7,009.9	6,984.9	6,984.5	53.5	1.7	91.71	-4,221.4	382.4	1,683.0	1,628.6	54.36	30.961	
9,645.6	7,009.8	6,984.8	6,984.4	54.3	1.7	91.67	-4,221.4	382.4	1,637.5	1,582.3	55.22	29.654	
9,700.0	7,009.6	6,984.7	6,984.3	55.3	1.7	91.63	-4,221.4	382.4	1,583.4	1,527.1	56.25	28.150	
9,744.1	7,009.4	6,984.6	6,984.2	56.2	1.7	91.60	-4,221.4	382.4	1,539.5	1,482.4	57.08	26.970	
9,800.0	7,009.3	6,984.5	6,984.1	57.2	1.7	91.56	-4,221.4	382.4	1,483.9	1,425.7	58.14	25.521	
9,842.5	7,009.1	6,984.4	6,984.0	58.0	1.7	91.53	-4,221.4	382.4	1,441.6	1,382.6	58.95	24.454	
9,900.0	7,008.9	6,984.3	6,983.9	59.1	1.7	91.49	-4,221.4	382.4	1,384.4	1,324.4	60.04	23.057	
9,940.9	7,008.8	6,984.3	6,983.8	59.9	1.7	91.46	-4,221.4	382.3	1,343.7	1,282.9	60.82	22.093	
10,000.0	7,008.6	6,984.1	6,983.7	61.0	1.7	91.41	-4,221.4	382.3	1,285.1	1,223.1	61.95	20.744	
10,039.3	7,008.5	6,984.1	6,983.6	61.7	1.7	91.38	-4,221.4	382.3	1,246.0	1,183.3	62.70	19.872	
10,100.0	7,008.3	6,984.0	6,983.5	62.9	1.7	91.34	-4,221.4	382.3	1,185.8	1,121.9	63.86	18.569	
10,137.8	7,008.2	6,983.9	6,983.4	63.6	1.7	91.31	-4,221.4	382.3	1,148.3	1,083.7	64.58	17.781	
10,200.0	7,008.0	6,983.8	6,983.3	64.8	1.7	91.27	-4,221.4	382.3	1,086.7	1,020.9	65.77	16.521	
10,236.2	7,007.9	6,983.7	6,983.2	65.5	1.7	91.24	-4,221.4	382.3	1,050.8	984.3	66.47	15.810	
10,300.0	7,007.6	6,983.6	6,983.1	66.7	1.7	91.20	-4,221.4	382.3	987.7	920.0	67.69	14.591	
10,334.6	7,007.5	6,983.5	6,983.1	67.3	1.7	91.17	-4,221.4	382.3	953.5	885.1	68.36	13.949	
10,400.0	7,007.3	6,983.4	6,982.9	68.6	1.7	91.12	-4,221.4	382.3	889.0	819.4	69.61	12.771	
10,433.0	7,007.2	6,983.3	6,982.9	69.2	1.7	91.10	-4,221.4	382.3	856.4	786.2	70.25	12.191	
10,500.0	7,007.0	6,983.2	6,982.7	70.5	1.7	91.05	-4,221.4	382.3	790.6	719.1	71.54	11.052	
10,531.5	7,006.9	6,983.1	6,982.7	71.1	1.7	91.03	-4,221.4	382.3	759.7	687.6	72.14	10.531	
10,600.0	7,006.7	6,983.0	6,982.6	72.4	1.7	90.98	-4,221.4	382.3	692.7	619.2	73.46	9.428	
10,629.9	7,006.6	6,982.9	6,982.5	73.0	1.7	90.96	-4,221.4	382.3	663.5	589.5	74.04	8.961	
10,700.0	7,006.4	6,982.8	6,982.4	74.3	1.7	90.91	-4,221.4	382.3	595.4	520.0	75.39	7.897	
10,728.3	7,006.3	6,982.8	6,982.3	74.9	1.7	90.89	-4,221.4	382.3	568.0	492.1	75.94	7.480	
10,800.0	7,006.0	6,982.6	6,982.2	76.3	1.7	90.84	-4,221.4	382.3	499.2	421.9	77.33	6.456	
10,826.7	7,005.9	6,982.6	6,982.1	76.8	1.7	90.82	-4,221.4	382.3	473.8	396.0	77.84	6.086	
10,900.0	7,005.7	6,982.4	6,982.0	78.2	1.7	90.77	-4,221.4	382.3	405.0	325.7	79.26	5.109	
10,925.2	7,005.6	6,982.4	6,982.0	78.7	1.7	90.75	-4,221.4	382.3	381.7	301.9	79.75	4.786	
11,000.0	7,005.4	6,982.3	6,981.8	80.1	1.7	90.70	-4,221.4	382.3	314.2	233.0	81.20	3.870	
11,023.6	7,005.3	6,982.2	6,981.8	80.6	1.7	90.68	-4,221.4	382.3	293.7	212.0	81.66	3.596	
11,100.0	7,005.1	6,982.1	6,981.6	82.0	1.7	90.63	-4,221.4	382.3	231.2	148.1	83.14	2.781	
11,122.0	7,005.0	6,982.0	6,981.6	82.5	1.7	90.61	-4,221.4	382.3	214.9	131.3	83.57	2.572	
11,200.0	7,004.7	6,981.9	6,981.5	84.0	1.7	90.56	-4,221.4	382.3	167.9	82.8	85.08	1.974	
11,220.4	7,004.7	6,981.9	6,981.4	84.4	1.7	90.55	-4,221.4	382.3	159.7	74.2	85.48	1.868	
11,276.3	7,004.5	6,981.8	6,981.3	85.5	1.7	90.51	-4,221.4	382.3	149.6	63.0	86.56	1.728 CC, ES, SF	
11,300.0	7,004.4	6,981.7	6,981.3	85.9	1.7	90.49	-4,221.4	382.3	151.4	64.4	87.02	1.740	
11,318.9	7,004.4	6,981.7	6,981.2	86.3	1.7	90.48	-4,221.4	382.3	155.5	68.1	87.39	1.780	
11,400.0	7,004.1	6,981.5	6,981.1	87.8	1.7	90.42	-4,221.4	382.3	194.1	105.1	88.97	2.182	
11,417.3	7,004.0	6,981.5	6,981.1	88.2	1.7	90.41	-4,221.4	382.3	205.5	116.2	89.30	2.302	
11,500.0	7,003.8	6,981.3	6,980.9	89.8	1.7	90.35	-4,221.4	382.3	269.1	178.2	90.91	2.960	
11,515.7	7,003.7	6,981.3	6,980.9	90.1	1.7	90.34	-4,221.4	382.3	282.3	191.1	91.22	3.095	
11,600.0	7,003.4	6,981.2	6,980.7	91.7	1.7	90.28	-4,221.4	382.3	356.6	263.7	92.86	3.840	
11,614.1	7,003.4	6,981.1	6,980.7	92.0	1.7	90.27	-4,221.4	382.3	369.5	276.3	93.13	3.967	
11,700.0	7,003.1	6,981.0	6,980.6	93.7	1.7	90.21	-4,221.4	382.3	449.3	354.5	94.81	4.739	
11,712.6	7,003.1	6,981.0	6,980.5	93.9	1.7	90.20	-4,221.4	382.3	461.2	366.1	95.05	4.852	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
11,800.0	7,002.8	6,980.8	6,980.4	95.6	1.7	90.15	-4,221.4	382.3	544.6	447.9	96.76	5.629	
11,811.0	7,002.7	6,980.8	6,980.4	95.8	1.7	90.14	-4,221.4	382.3	555.2	458.2	96.97	5.726	
11,900.0	7,002.5	6,980.6	6,980.2	97.6	1.7	90.08	-4,221.4	382.3	641.4	542.7	98.71	6.498	
11,909.4	7,002.4	6,980.6	6,980.2	97.7	1.7	90.07	-4,221.4	382.3	650.5	551.6	98.89	6.578	
12,000.0	7,002.1	6,980.5	6,980.0	99.5	1.7	90.01	-4,221.4	382.3	739.0	638.3	100.66	7.342	
12,007.8	7,002.1	6,980.4	6,980.0	99.7	1.7	90.00	-4,221.4	382.3	746.7	645.9	100.81	7.407	
12,100.0	7,001.8	6,980.3	6,979.8	101.5	1.7	89.94	-4,221.4	382.3	837.2	734.5	102.61	8.159	
12,106.3	7,001.8	6,980.3	6,979.8	101.6	1.7	89.94	-4,221.4	382.3	843.3	740.6	102.73	8.209	
12,200.0	7,001.5	6,980.1	6,979.7	103.4	1.7	89.87	-4,221.4	382.3	935.7	831.2	104.56	8.949	
12,204.7	7,001.5	6,980.1	6,979.7	103.5	1.7	89.87	-4,221.4	382.3	940.4	835.7	104.65	8.985	
12,300.0	7,001.2	6,979.9	6,979.5	105.3	1.7	89.81	-4,221.4	382.3	1,034.6	928.0	106.52	9.713	
12,303.1	7,001.1	6,979.9	6,979.5	105.4	1.7	89.80	-4,221.4	382.3	1,037.6	931.1	106.58	9.736	
12,400.0	7,000.8	6,979.8	6,979.3	107.3	1.7	89.74	-4,221.4	382.3	1,133.6	1,025.1	108.47	10.451	
12,401.5	7,000.8	6,979.8	6,979.3	107.3	1.7	89.74	-4,221.4	382.3	1,135.1	1,026.6	108.50	10.462	
12,500.0	7,000.5	6,979.6	6,979.2	109.3	1.7	89.67	-4,221.4	382.3	1,232.8	1,122.4	110.43	11.164	
12,598.4	7,000.2	6,979.4	6,979.0	111.2	1.7	89.61	-4,221.4	382.3	1,330.5	1,218.2	112.35	11.842	
12,600.0	7,000.2	6,979.4	6,979.0	111.2	1.7	89.60	-4,221.4	382.3	1,332.1	1,219.7	112.38	11.853	
12,696.8	6,999.8	6,979.3	6,978.8	113.1	1.7	89.54	-4,221.4	382.3	1,428.4	1,314.1	114.28	12.499	
12,700.0	6,999.8	6,979.3	6,978.8	113.2	1.7	89.54	-4,221.4	382.3	1,431.5	1,317.2	114.34	12.520	
12,795.2	6,999.5	6,979.1	6,978.7	115.0	1.7	89.48	-4,221.4	382.3	1,526.3	1,410.1	116.20	13.134	
12,800.0	6,999.5	6,979.1	6,978.6	115.1	1.7	89.47	-4,221.4	382.3	1,531.0	1,414.7	116.30	13.165	
12,893.7	6,999.2	6,978.9	6,978.5	116.9	1.7	89.41	-4,221.4	382.3	1,624.3	1,506.1	118.13	13.750	
12,900.0	6,999.2	6,978.9	6,978.5	117.1	1.7	89.40	-4,221.4	382.3	1,630.6	1,512.3	118.25	13.789	
12,992.1	6,998.9	6,978.8	6,978.3	118.9	1.7	89.35	-4,221.4	382.3	1,722.3	1,602.2	120.06	14.345	
13,000.0	6,998.8	6,978.7	6,978.3	119.0	1.7	89.34	-4,221.4	382.3	1,730.2	1,609.9	120.21	14.392	
13,090.5	6,998.6	6,978.6	6,978.2	120.8	1.7	89.28	-4,221.4	382.3	1,820.4	1,698.4	121.99	14.923	
13,100.0	6,998.5	6,978.6	6,978.1	121.0	1.7	89.27	-4,221.4	382.3	1,829.8	1,707.6	122.17	14.977	
13,188.9	6,998.2	6,978.4	6,978.0	122.7	1.7	89.22	-4,221.4	382.3	1,918.5	1,794.6	123.91	15.482	
13,200.0	6,998.2	6,978.4	6,978.0	122.9	1.7	89.21	-4,221.4	382.3	1,929.5	1,805.4	124.13	15.544	
13,287.4	6,997.9	6,978.3	6,977.8	124.6	1.7	89.15	-4,221.4	382.3	2,016.6	1,890.8	125.84	16.025	
13,300.0	6,997.9	6,978.2	6,977.8	124.9	1.7	89.14	-4,221.4	382.3	2,029.2	1,903.1	126.09	16.093	
13,385.8	6,997.6	6,978.1	6,977.7	126.6	1.7	89.09	-4,221.4	382.3	2,114.8	1,987.0	127.77	16.551	
13,400.0	6,997.5	6,978.1	6,977.6	126.9	1.7	89.08	-4,221.4	382.3	2,128.9	2,000.9	128.05	16.626	
13,484.2	6,997.3	6,977.9	6,977.5	128.5	1.7	89.02	-4,221.4	382.3	2,213.0	2,083.3	129.70	17.062	
13,500.0	6,997.2	6,977.9	6,977.5	128.8	1.7	89.01	-4,221.4	382.3	2,228.7	2,098.7	130.01	17.142	
13,582.6	6,996.9	6,977.8	6,977.3	130.4	1.7	88.96	-4,221.4	382.3	2,311.2	2,179.5	131.63	17.558	
13,600.0	6,996.9	6,977.8	6,977.3	130.8	1.7	88.94	-4,221.4	382.3	2,328.5	2,196.5	131.97	17.644	
13,681.1	6,996.6	6,977.6	6,977.2	132.4	1.7	88.89	-4,221.4	382.3	2,409.4	2,275.8	133.56	18.040	
13,700.0	6,996.5	6,977.6	6,977.1	132.7	1.7	88.88	-4,221.4	382.3	2,428.3	2,294.4	133.93	18.131	
13,779.5	6,996.3	6,977.5	6,977.0	134.3	1.7	88.83	-4,221.4	382.3	2,507.6	2,372.2	135.49	18.508	
13,800.0	6,996.2	6,977.4	6,977.0	134.7	1.7	88.81	-4,221.4	382.3	2,528.1	2,392.2	135.89	18.604	
13,877.9	6,995.9	6,977.3	6,976.9	136.2	1.7	88.77	-4,221.4	382.3	2,605.9	2,468.5	137.42	18.963	
13,900.0	6,995.9	6,977.3	6,976.8	136.7	1.7	88.75	-4,221.4	382.3	2,627.9	2,490.1	137.86	19.063	
13,976.3	6,995.6	6,977.1	6,976.7	138.2	1.7	88.70	-4,221.4	382.3	2,704.2	2,564.8	139.35	19.405	
14,000.0	6,995.5	6,977.1	6,976.7	138.6	1.7	88.69	-4,221.4	382.3	2,727.8	2,588.0	139.82	19.510	
14,074.8	6,995.3	6,977.0	6,976.5	140.1	1.7	88.64	-4,221.4	382.3	2,802.5	2,661.2	141.28	19.836	
14,100.0	6,995.2	6,976.9	6,976.5	140.6	1.7	88.62	-4,221.4	382.3	2,827.6	2,685.9	141.78	19.944	
14,162.0	6,995.0	6,976.8	6,976.4	141.8	1.7	88.58	-4,221.4	382.3	2,889.6	2,746.6	142.96	20.213	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
0.0	0.0	0.0	0.0	0.0	0.0	-177.08	-3,657.6	-186.8	3,662.6				
98.4	98.4	61.3	61.3	0.1	0.0	-177.07	-3,657.6	-186.9	3,662.4	3,662.2	0.14	N/A	
100.0	100.0	62.9	62.9	0.1	0.0	-177.07	-3,657.6	-186.9	3,662.4	3,662.2	0.15	N/A	
162.2	162.2	123.7	123.7	0.2	0.1	-177.07	-3,657.6	-187.1	3,662.4	3,662.0	0.35	N/A	
196.8	196.8	155.4	155.4	0.3	0.2	-177.07	-3,657.6	-187.3	3,662.4	3,661.9	0.47	7,730.785	
200.0	200.0	158.2	158.2	0.3	0.2	-177.07	-3,657.6	-187.3	3,662.4	3,661.9	0.48	7,551.582	
295.3	295.3	284.2	284.2	0.5	0.3	-177.05	-3,657.4	-188.4	3,662.3	3,661.5	0.82	4,465.492	
300.0	300.0	292.3	292.3	0.5	0.3	-177.05	-3,657.3	-188.4	3,662.3	3,661.4	0.84	4,377.749	
393.7	393.7	385.4	385.3	0.8	0.4	-177.04	-3,656.4	-189.3	3,661.5	3,660.3	1.12	3,279.763	
400.0	400.0	391.4	391.4	0.8	0.4	-177.04	-3,656.4	-189.3	3,661.4	3,660.3	1.14	3,225.745	
492.1	492.1	521.6	521.6	1.0	0.4	-177.03	-3,654.6	-189.8	3,660.2	3,658.7	1.41	2,589.957	
500.0	500.0	530.7	530.6	1.0	0.4	-177.03	-3,654.4	-189.8	3,660.0	3,658.6	1.44	2,549.290	
590.5	590.5	627.7	627.7	1.2	0.5	-177.03	-3,652.5	-189.6	3,658.2	3,656.5	1.69	2,165.844	
600.0	600.0	636.4	636.3	1.2	0.5	-177.03	-3,652.3	-189.5	3,658.0	3,656.3	1.71	2,133.709	
689.0	689.0	723.0	723.0	1.4	0.5	-177.03	-3,650.6	-189.2	3,656.2	3,654.3	1.95	1,870.918	
700.0	700.0	736.1	736.0	1.4	0.5	-177.03	-3,650.3	-189.1	3,656.0	3,654.0	1.98	1,842.278	
787.4	787.4	834.3	834.2	1.6	0.6	-177.05	-3,648.2	-188.3	3,654.1	3,651.8	2.22	1,645.006	
800.0	800.0	847.3	847.2	1.7	0.6	-177.05	-3,647.9	-188.2	3,653.8	3,651.5	2.25	1,620.494	
885.8	885.8	931.2	931.0	1.9	0.6	-177.05	-3,645.9	-187.7	3,651.7	3,649.3	2.48	1,472.566	
900.0	900.0	944.0	943.8	1.9	0.6	-177.05	-3,645.7	-187.6	3,651.4	3,648.9	2.52	1,451.040	
984.2	984.2	1,024.7	1,024.6	2.1	0.7	-177.06	-3,644.0	-186.9	3,649.6	3,646.9	2.73	1,334.492	
1,000.0	1,000.0	1,042.2	1,042.1	2.1	0.7	-177.07	-3,643.6	-186.7	3,649.2	3,646.5	2.78	1,314.473	
1,082.7	1,082.7	1,134.7	1,134.6	2.3	0.7	-177.08	-3,641.5	-185.7	3,647.3	3,644.3	2.99	1,218.499	
1,100.0	1,100.0	1,154.4	1,154.2	2.3	0.7	-177.08	-3,641.0	-185.5	3,646.9	3,643.8	3.04	1,200.147	
1,181.1	1,181.1	1,245.2	1,245.0	2.5	0.8	120.38	-3,638.6	-184.6	3,645.3	3,642.0	3.28	1,110.812	
1,200.0	1,200.0	1,266.2	1,265.9	2.6	0.8	120.39	-3,638.0	-184.4	3,645.1	3,641.7	3.33	1,094.222	
1,264.1	1,264.0	1,331.4	1,331.2	2.7	0.8	120.43	-3,636.1	-184.1	3,644.7	3,641.2	3.50	1,042.673	
1,279.5	1,279.4	1,345.9	1,345.6	2.7	0.8	120.45	-3,635.7	-184.0	3,644.7	3,641.2	3.53	1,031.157	
1,300.0	1,299.8	1,365.1	1,364.8	2.8	0.8	120.46	-3,635.2	-183.9	3,644.8	3,641.2	3.59	1,016.294	
1,377.9	1,377.5	1,437.6	1,437.3	3.0	0.8	120.52	-3,633.1	-183.8	3,645.9	3,642.2	3.79	961.657	
1,400.0	1,399.5	1,458.0	1,457.7	3.0	0.9	120.54	-3,632.6	-183.8	3,646.5	3,642.6	3.85	947.318	
1,476.4	1,475.3	1,533.5	1,533.1	3.2	0.9	120.62	-3,630.6	-183.8	3,649.1	3,645.0	4.06	897.949	
1,500.0	1,498.7	1,559.0	1,558.6	3.2	0.9	120.65	-3,630.0	-183.8	3,650.1	3,646.0	4.13	883.630	
1,574.8	1,572.6	1,641.4	1,641.1	3.5	0.9	120.76	-3,627.6	-184.0	3,653.8	3,649.5	4.36	838.046	
1,600.0	1,597.5	1,669.8	1,669.4	3.5	0.9	120.80	-3,626.8	-184.2	3,655.3	3,650.9	4.44	823.826	
1,673.2	1,669.4	1,739.3	1,738.8	3.7	1.0	120.90	-3,624.6	-184.7	3,660.1	3,655.4	4.68	782.374	
1,700.0	1,695.7	1,761.9	1,761.5	3.8	1.0	120.93	-3,623.9	-184.9	3,662.2	3,657.4	4.77	768.490	
1,771.6	1,765.7	1,817.9	1,817.5	4.1	1.0	121.10	-3,622.4	-185.3	3,668.0	3,663.0	5.01	731.481	
1,800.0	1,793.4	1,837.1	1,836.6	4.2	1.0	121.15	-3,621.9	-185.5	3,670.5	3,665.3	5.11	718.036	
1,870.1	1,862.0	1,884.3	1,883.9	4.4	1.0	121.29	-3,621.0	-185.9	3,676.8	3,671.4	5.36	685.380	
1,900.0	1,891.3	1,906.0	1,905.5	4.5	1.0	121.36	-3,620.6	-186.1	3,679.6	3,674.1	5.47	672.484	
1,968.5	1,958.3	1,967.8	1,967.3	4.8	1.0	121.54	-3,619.7	-186.9	3,686.2	3,680.5	5.73	643.314	
2,000.0	1,989.1	2,000.0	1,999.5	4.9	1.1	121.64	-3,619.3	-187.4	3,689.3	3,683.4	5.85	630.626	
2,066.9	2,054.5	2,065.1	2,064.6	5.2	1.1	121.83	-3,618.4	-188.3	3,695.9	3,689.8	6.11	605.126	
2,100.0	2,086.9	2,099.4	2,098.9	5.3	1.1	121.94	-3,617.9	-188.8	3,699.1	3,692.9	6.24	593.255	
2,165.3	2,150.8	2,154.1	2,153.5	5.6	1.1	122.10	-3,617.1	-189.5	3,705.6	3,699.1	6.49	571.086	
2,200.0	2,184.7	2,183.0	2,182.5	5.7	1.1	122.18	-3,616.8	-189.9	3,709.1	3,702.5	6.62	560.051	
2,263.8	2,247.1	2,233.2	2,232.6	5.9	1.1	122.33	-3,616.3	-190.5	3,715.8	3,708.9	6.87	540.754	
2,300.0	2,282.5	2,260.8	2,260.3	6.1	1.1	122.41	-3,616.1	-191.0	3,719.7	3,712.7	7.01	530.486	
2,362.2	2,343.4	2,309.2	2,308.6	6.4	1.2	122.56	-3,615.9	-191.9	3,726.6	3,719.3	7.26	513.615	
2,400.0	2,380.3	2,341.6	2,341.1	6.5	1.2	122.66	-3,615.8	-192.5	3,730.9	3,723.5	7.40	503.972	
2,460.6	2,439.6	2,393.7	2,393.1	6.8	1.2	122.81	-3,615.8	-193.5	3,737.9	3,730.2	7.64	489.164	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						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	2,478.1	2,424.1	2,423.5	6.9	1.2	122.90	-3,615.9	-194.0	3,742.5	3,734.7	7.79	480.134	
2,559.0	2,535.9	2,468.4	2,467.8	7.2	1.2	123.03	-3,616.0	-194.8	3,749.6	3,741.6	8.03	467.244	
2,600.0	2,576.0	2,500.0	2,499.4	7.4	1.2	123.13	-3,616.2	-195.5	3,754.7	3,746.6	8.19	458.711	
2,657.5	2,632.2	2,545.3	2,544.6	7.6	1.2	123.26	-3,616.7	-196.5	3,762.1	3,753.7	8.41	447.341	
2,700.0	2,673.8	2,579.5	2,578.9	7.8	1.2	123.36	-3,617.1	-197.1	3,767.6	3,759.0	8.58	439.323	
2,755.9	2,728.4	2,635.4	2,634.8	8.0	1.2	123.52	-3,617.8	-198.2	3,775.0	3,766.2	8.80	429.215	
2,800.0	2,771.6	2,686.8	2,686.1	8.2	1.2	123.68	-3,618.4	-199.2	3,780.7	3,771.8	8.97	421.622	
2,854.3	2,824.7	2,733.4	2,732.8	8.4	1.2	123.81	-3,618.9	-200.2	3,787.8	3,778.6	9.18	412.631	
2,900.0	2,869.4	2,769.0	2,768.3	8.6	1.2	123.92	-3,619.3	-201.0	3,793.9	3,784.5	9.36	405.415	
2,952.7	2,921.0	2,815.4	2,814.7	8.9	1.2	124.05	-3,620.0	-201.9	3,801.0	3,791.5	9.56	397.393	
3,000.0	2,967.2	2,871.7	2,871.0	9.1	1.3	124.21	-3,620.8	-203.1	3,807.4	3,797.7	9.75	390.496	
3,051.2	3,017.3	2,925.2	2,924.5	9.3	1.3	124.37	-3,621.4	-204.3	3,814.2	3,804.3	9.95	383.302	
3,100.0	3,065.0	2,970.0	2,969.3	9.5	1.3	124.50	-3,622.0	-205.3	3,820.8	3,810.6	10.14	376.727	
3,149.6	3,113.5	3,013.4	3,012.7	9.7	1.3	124.62	-3,622.5	-206.0	3,827.5	3,817.2	10.34	370.274	
3,200.0	3,162.8	3,053.3	3,052.5	9.9	1.3	124.74	-3,623.1	-206.8	3,834.4	3,823.9	10.54	363.965	
3,248.0	3,209.8	3,100.0	3,099.2	10.2	1.3	124.87	-3,624.0	-207.7	3,841.2	3,830.5	10.72	358.164	
3,300.0	3,260.7	3,151.0	3,150.2	10.4	1.3	125.01	-3,624.9	-208.6	3,848.5	3,837.6	10.93	352.162	
3,346.4	3,306.1	3,207.4	3,206.6	10.6	1.3	125.16	-3,625.7	-209.4	3,855.0	3,843.8	11.11	346.970	
3,400.0	3,358.5	3,262.4	3,261.6	10.8	1.3	125.31	-3,626.5	-210.1	3,862.3	3,851.0	11.32	341.214	
3,444.9	3,402.4	3,307.4	3,306.6	11.0	1.3	125.43	-3,627.0	-210.7	3,868.5	3,857.0	11.49	336.539	
3,500.0	3,456.3	3,357.1	3,356.2	11.3	1.3	125.57	-3,627.7	-211.4	3,876.1	3,864.3	11.71	330.969	
3,543.3	3,498.6	3,396.1	3,395.3	11.5	1.3	125.67	-3,628.3	-211.8	3,882.1	3,870.2	11.88	326.736	
3,600.0	3,554.1	3,468.0	3,467.2	11.7	1.4	125.86	-3,629.2	-212.6	3,889.9	3,877.8	12.10	321.398	
3,641.7	3,594.9	3,514.7	3,513.8	11.9	1.4	125.98	-3,629.7	-213.0	3,895.6	3,883.3	12.27	317.572	
3,700.0	3,651.9	3,564.5	3,563.7	12.2	1.4	126.11	-3,630.2	-213.4	3,903.5	3,891.0	12.50	312.394	
3,740.1	3,691.2	3,600.0	3,599.1	12.3	1.4	126.20	-3,630.7	-213.8	3,909.0	3,896.4	12.65	308.939	
3,800.0	3,749.7	3,660.3	3,659.4	12.6	1.4	126.36	-3,631.4	-214.1	3,917.3	3,904.4	12.89	303.974	
3,838.6	3,787.5	3,700.1	3,699.3	12.8	1.4	126.45	-3,632.0	-214.1	3,922.6	3,909.6	13.04	300.861	
3,900.0	3,847.5	3,772.4	3,771.5	13.0	1.4	126.63	-3,632.8	-213.9	3,931.0	3,917.8	13.28	296.033	
3,937.0	3,883.7	3,810.6	3,809.8	13.2	1.4	126.72	-3,633.2	-213.8	3,936.0	3,922.6	13.42	293.197	
4,000.0	3,945.4	3,860.1	3,859.2	13.5	1.4	126.84	-3,633.7	-213.8	3,944.6	3,931.0	13.67	288.505	
4,035.4	3,980.0	3,887.9	3,887.0	13.7	1.4	126.90	-3,634.1	-213.8	3,949.6	3,935.8	13.81	285.948	
4,068.9	4,012.7	3,922.7	3,921.8	13.8	1.4	126.99	-3,634.6	-213.8	3,954.3	3,940.4	13.94	283.585	
4,100.0	4,043.2	3,962.0	3,961.1	13.9	1.4	127.15	-3,635.1	-213.7	3,958.5	3,944.5	14.04	281.938	
4,133.8	4,076.4	4,003.9	4,003.0	14.0	1.4	127.30	-3,635.5	-213.5	3,962.8	3,948.7	14.12	280.582	
4,200.0	4,141.6	4,070.6	4,069.7	14.2	1.4	127.56	-3,636.1	-213.3	3,970.5	3,956.2	14.29	277.922	
4,232.3	4,173.4	4,103.7	4,102.8	14.3	1.4	127.67	-3,636.4	-213.3	3,973.9	3,959.5	14.36	276.782	
4,300.0	4,240.5	4,182.0	4,181.1	14.5	1.4	127.89	-3,637.0	-213.2	3,980.2	3,965.7	14.51	274.327	
4,330.7	4,271.0	4,218.1	4,217.2	14.6	1.4	127.98	-3,637.2	-213.1	3,982.7	3,968.1	14.57	273.358	
4,400.0	4,339.9	4,300.9	4,300.0	14.8	1.4	128.15	-3,637.4	-212.8	3,987.3	3,972.6	14.71	271.118	
4,429.1	4,368.9	4,333.1	4,332.2	14.8	1.4	128.20	-3,637.4	-212.7	3,988.9	3,974.2	14.76	270.329	
4,500.0	4,439.6	4,408.5	4,407.7	15.0	1.4	128.31	-3,637.3	-212.6	3,992.0	3,977.1	14.88	268.347	
4,527.5	4,467.1	4,431.5	4,430.6	15.0	1.4	128.34	-3,637.3	-212.6	3,992.9	3,978.0	14.91	267.718	
4,600.0	4,539.5	4,500.0	4,499.1	15.1	1.4	128.39	-3,637.4	-212.6	3,994.6	3,979.6	15.02	266.008	
4,626.0	4,565.4	4,518.5	4,517.6	15.2	1.4	128.40	-3,637.4	-212.6	3,995.0	3,979.9	15.05	265.459	
4,668.9	4,608.4	4,568.0	4,567.1	15.2	1.4	-169.02	-3,637.5	-212.6	3,995.2	3,980.1	15.12	264.237	
4,700.0	4,639.5	4,604.5	4,603.6	15.3	1.4	-169.02	-3,637.5	-212.4	3,995.2	3,980.1	15.17	263.419	
4,724.4	4,663.9	4,637.4	4,636.6	15.3	1.4	-169.02	-3,637.5	-212.4	3,995.2	3,980.0	15.21	262.730	
4,800.0	4,739.5	4,735.9	4,735.0	15.4	1.4	-169.01	-3,636.7	-213.3	3,994.8	3,979.4	15.33	260.525	
4,822.8	4,762.3	4,763.8	4,762.9	15.4	1.4	-169.00	-3,636.4	-213.8	3,994.5	3,979.2	15.37	259.815	
4,900.0	4,839.5	4,879.2	4,878.3	15.6	1.5	-168.95	-3,634.2	-216.7	3,993.5	3,978.0	15.52	257.378	
4,921.2	4,860.7	4,909.2	4,908.2	15.6	1.5	-168.94	-3,633.4	-217.5	3,993.1	3,977.5	15.56	256.703	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						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	
5,000.0	4,939.5	4,992.0	4,991.0	15.7	1.5	-168.91	-3,631.1	-219.5	3,991.3	3,975.6	15.70	254.284	
5,019.7	4,959.1	5,015.7	5,014.6	15.7	1.5	-168.90	-3,630.5	-220.0	3,990.9	3,975.1	15.73	253.672	
5,100.0	5,039.5	5,112.3	5,111.2	15.9	1.5	-168.86	-3,627.6	-221.8	3,988.8	3,972.9	15.88	251.178	
5,118.1	5,057.6	5,127.1	5,126.0	15.9	1.5	-168.86	-3,627.1	-222.0	3,988.3	3,972.3	15.91	250.633	
5,200.0	5,139.5	5,200.0	5,198.8	16.0	1.6	-168.84	-3,625.1	-223.0	3,986.2	3,970.2	16.06	248.188	
5,216.5	5,156.0	5,200.0	5,198.8	16.0	1.6	-168.84	-3,625.1	-223.0	3,985.8	3,969.8	16.09	247.736	
5,300.0	5,239.5	5,259.0	5,257.8	16.2	1.6	-168.83	-3,623.8	-223.7	3,984.3	3,968.1	16.24	245.365	
5,314.9	5,254.4	5,268.5	5,267.3	16.2	1.6	-168.82	-3,623.6	-223.9	3,984.1	3,967.9	16.27	244.948	
5,400.0	5,339.5	5,337.0	5,335.8	16.3	1.6	-168.81	-3,622.8	-224.7	3,983.3	3,966.9	16.42	242.588	
5,413.4	5,352.8	5,351.0	5,349.8	16.3	1.6	-168.81	-3,622.7	-224.8	3,983.2	3,966.7	16.45	242.212	
5,500.0	5,439.5	5,450.6	5,449.4	16.5	1.6	-168.80	-3,621.6	-224.9	3,982.3	3,965.7	16.61	239.774	
5,511.8	5,451.3	5,465.7	5,464.5	16.5	1.6	-168.80	-3,621.5	-224.8	3,982.2	3,965.5	16.63	239.438	
5,600.0	5,539.5	5,589.3	5,588.0	16.6	1.6	-168.83	-3,619.8	-222.4	3,980.7	3,963.9	16.81	236.837	
5,610.2	5,549.7	5,602.7	5,601.5	16.6	1.6	-168.84	-3,619.5	-222.1	3,980.4	3,963.6	16.83	236.532	
5,700.0	5,639.5	5,688.8	5,687.5	16.8	1.6	-168.87	-3,618.1	-219.3	3,978.5	3,961.4	17.00	233.988	
5,708.6	5,648.1	5,697.1	5,695.7	16.8	1.6	-168.88	-3,618.0	-219.0	3,978.3	3,961.2	17.02	233.744	
5,800.0	5,739.5	5,795.6	5,794.2	17.0	1.6	-168.93	-3,616.5	-215.2	3,976.2	3,959.0	17.20	231.163	
5,807.1	5,746.5	5,803.8	5,802.4	17.0	1.6	-168.93	-3,616.4	-214.9	3,976.0	3,958.8	17.22	230.962	
5,900.0	5,839.5	5,917.3	5,915.8	17.1	1.7	-168.99	-3,614.2	-210.3	3,973.6	3,956.2	17.40	228.311	
5,905.5	5,845.0	5,923.3	5,921.8	17.1	1.7	-168.99	-3,614.1	-210.1	3,973.4	3,956.0	17.42	228.156	
6,000.0	5,939.5	6,024.2	6,022.6	17.3	1.7	-169.03	-3,611.6	-206.8	3,970.6	3,953.0	17.61	225.529	
6,003.9	5,943.4	6,028.0	6,026.4	17.3	1.7	-169.03	-3,611.5	-206.7	3,970.5	3,952.8	17.61	225.421	
6,100.0	6,039.5	6,120.4	6,118.7	17.4	1.7	-169.06	-3,609.1	-204.2	3,967.5	3,949.7	17.81	222.825	
6,102.3	6,041.8	6,122.5	6,120.8	17.4	1.7	-169.06	-3,609.1	-204.1	3,967.5	3,949.7	17.81	222.762	
6,200.0	6,139.5	6,215.8	6,214.1	17.6	1.7	-169.09	-3,606.9	-201.4	3,964.7	3,946.7	18.01	220.179	
6,200.8	6,140.2	6,217.0	6,215.2	17.6	1.7	-169.10	-3,606.9	-201.4	3,964.7	3,946.7	18.01	220.158	
6,299.2	6,238.7	6,346.7	6,344.9	17.8	1.7	-169.14	-3,603.2	-197.7	3,961.4	3,943.1	18.22	217.459	
6,300.0	6,239.5	6,347.6	6,345.8	17.8	1.7	-169.14	-3,603.2	-197.7	3,961.3	3,943.1	18.22	217.438	
6,360.9	6,300.4	6,411.6	6,409.7	17.9	1.7	-169.15	-3,601.0	-196.2	3,959.1	3,940.7	18.34	215.822	
6,397.6	6,337.1	6,444.0	6,442.0	17.9	1.7	10.67	-3,599.9	-195.5	3,956.8	3,938.4	18.39	215.175	
6,400.0	6,339.5	6,446.1	6,444.1	17.9	1.7	10.67	-3,599.9	-195.4	3,956.6	3,938.2	18.39	215.111	
6,450.0	6,389.2	6,489.8	6,487.9	18.0	1.7	10.76	-3,598.5	-194.5	3,950.4	3,931.9	18.50	213.565	
6,496.0	6,434.7	6,537.9	6,535.9	18.0	1.7	10.91	-3,596.9	-193.6	3,941.8	3,923.2	18.61	211.786	
6,500.0	6,438.6	6,542.2	6,540.3	18.0	1.7	10.92	-3,596.8	-193.5	3,940.9	3,922.3	18.62	211.627	
6,550.0	6,487.3	6,596.5	6,594.5	18.0	1.8	11.15	-3,595.0	-192.5	3,928.0	3,909.3	18.74	209.597	
6,594.5	6,529.8	6,653.4	6,651.3	18.0	1.8	11.43	-3,592.9	-191.4	3,913.6	3,894.8	18.83	207.809	
6,600.0	6,535.1	6,660.5	6,658.4	18.1	1.8	11.47	-3,592.7	-191.2	3,911.7	3,892.8	18.84	207.599	
6,650.0	6,581.7	6,724.0	6,721.8	18.0	1.8	11.88	-3,590.1	-190.0	3,892.0	3,873.0	18.91	205.821	
6,692.9	6,620.6	6,777.6	6,775.4	18.0	1.8	12.32	-3,587.7	-189.0	3,872.4	3,853.5	18.93	204.522	
6,700.0	6,626.9	6,786.3	6,784.1	18.0	1.8	12.40	-3,587.2	-188.9	3,868.9	3,850.0	18.93	204.335	
6,750.0	6,670.6	6,832.2	6,829.9	18.0	1.8	13.02	-3,585.0	-188.2	3,842.8	3,823.9	18.90	203.338	
6,791.3	6,705.4	6,865.3	6,863.0	18.0	1.8	13.63	-3,583.3	-187.8	3,819.1	3,800.3	18.83	202.831	
6,800.0	6,712.5	6,872.1	6,869.7	18.0	1.8	13.77	-3,583.0	-187.7	3,813.9	3,795.1	18.81	202.765	
6,850.0	6,752.3	6,917.3	6,914.9	18.0	1.8	14.71	-3,580.7	-187.4	3,782.2	3,763.6	18.68	202.470	
6,889.7	6,782.5	6,967.1	6,964.6	18.0	1.8	15.66	-3,577.9	-187.1	3,755.2	3,736.6	18.57	202.245	
6,900.0	6,790.0	6,979.4	6,976.9	18.0	1.8	15.94	-3,577.2	-187.0	3,747.9	3,729.4	18.53	202.230	
6,950.0	6,825.3	7,000.0	6,997.5	18.0	1.9	17.28	-3,575.9	-186.9	3,711.1	3,692.8	18.31	202.667	
6,988.2	6,850.5	7,000.0	6,997.5	17.9	1.9	18.41	-3,575.9	-186.9	3,681.7	3,663.6	18.11	203.250	
7,000.0	6,858.0	7,000.0	6,997.5	17.9	1.9	18.80	-3,575.9	-186.9	3,672.3	3,654.3	18.05	203.476	
7,050.0	6,888.0	7,000.0	6,997.5	18.0	1.9	20.66	-3,575.9	-186.9	3,631.8	3,614.1	17.79	204.191	
7,086.6	6,908.1	7,000.0	6,997.5	18.0	1.9	22.31	-3,575.9	-186.9	3,601.2	3,583.6	17.60	204.605	
7,100.0	6,915.1	7,000.0	6,997.5	18.0	1.9	22.99	-3,575.9	-186.9	3,589.7	3,572.2	17.55	204.488	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
7,150.0	6,939.2	7,000.0	6,997.5	18.0	1.9	25.94	-3,575.9	-186.9	3,546.1	3,528.7	17.39	203.912	
7,185.0	6,954.3	7,000.0	6,997.5	18.1	1.9	28.50	-3,575.9	-186.9	3,514.8	3,497.5	17.34	202.684	
7,200.0	6,960.3	7,000.0	6,997.5	18.1	1.9	29.75	-3,575.9	-186.9	3,501.2	3,483.9	17.34	201.882	
7,250.0	6,978.1	7,000.0	6,997.5	18.3	1.9	34.78	-3,575.9	-186.9	3,455.2	3,437.7	17.47	197.789	
7,283.4	6,988.2	7,000.0	6,997.5	18.4	1.9	39.09	-3,575.9	-186.9	3,423.9	3,406.2	17.68	193.680	
7,300.0	6,992.6	7,000.0	6,997.5	18.4	1.9	41.57	-3,575.9	-186.9	3,408.2	3,390.4	17.82	191.299	
7,350.0	7,003.7	7,000.0	6,997.5	18.7	1.9	50.83	-3,575.9	-186.9	3,360.5	3,342.1	18.37	182.946	
7,381.9	7,009.1	7,000.0	6,997.5	18.9	1.9	58.38	-3,575.9	-186.9	3,329.8	3,311.0	18.76	177.493	
7,400.0	7,011.4	7,000.0	6,997.5	19.0	1.9	63.30	-3,575.9	-186.9	3,312.2	3,293.3	18.95	174.803	
7,450.0	7,015.7	7,000.0	6,997.5	19.3	1.9	79.06	-3,575.9	-186.9	3,263.6	3,244.3	19.25	169.504	
7,480.3	7,016.6	7,000.0	6,997.5	19.6	1.9	89.57	-3,575.9	-186.9	3,234.1	3,214.5	19.55	165.414	
7,488.2	7,016.6	7,000.0	6,997.5	19.6	1.9	92.32	-3,575.9	-186.9	3,226.4	3,206.7	19.73	163.565	
7,500.0	7,016.6	7,000.0	6,997.5	19.7	1.9	92.32	-3,575.9	-186.9	3,214.9	3,195.0	19.84	162.031	
7,578.7	7,016.3	7,000.0	6,997.5	20.5	1.9	92.32	-3,575.9	-186.9	3,138.2	3,117.5	20.67	151.824	
7,600.0	7,016.2	7,000.0	6,997.5	20.7	1.9	92.32	-3,575.9	-186.9	3,117.5	3,096.6	20.89	149.205	
7,677.1	7,016.0	7,000.0	6,997.5	21.6	1.9	92.32	-3,575.9	-186.9	3,042.5	3,020.7	21.81	139.517	
7,700.0	7,015.9	7,000.0	6,997.5	21.8	1.9	92.32	-3,575.9	-186.9	3,020.3	2,998.2	22.08	136.802	
7,775.6	7,015.7	7,000.0	6,997.5	22.7	1.9	92.32	-3,575.9	-186.9	2,947.0	2,923.9	23.06	127.793	
7,800.0	7,015.6	7,000.0	6,997.5	23.0	1.9	92.32	-3,575.9	-186.9	2,923.3	2,899.9	23.38	125.044	
7,874.0	7,015.4	7,000.0	6,997.5	24.0	1.9	92.32	-3,575.9	-186.9	2,851.6	2,827.2	24.41	116.815	
7,900.0	7,015.3	7,000.0	6,997.5	24.4	1.9	92.32	-3,575.9	-186.9	2,826.5	2,801.7	24.77	114.088	
7,972.4	7,015.1	7,000.0	6,997.5	25.4	1.9	92.32	-3,575.9	-186.9	2,756.5	2,730.7	25.84	106.660	
8,000.0	7,015.0	7,000.0	6,997.5	25.8	1.9	92.33	-3,575.9	-186.9	2,729.9	2,703.7	26.25	103.992	
8,070.8	7,014.8	7,000.0	6,997.5	26.8	1.9	92.33	-3,575.9	-186.9	2,661.7	2,634.3	27.34	97.337	
8,100.0	7,014.7	7,000.0	6,997.5	27.3	1.9	92.33	-3,575.9	-186.9	2,633.6	2,605.8	27.79	94.753	
8,169.3	7,014.4	7,000.0	6,997.5	28.3	1.9	92.33	-3,575.9	-186.9	2,567.1	2,538.2	28.90	88.819	
8,200.0	7,014.4	7,000.0	6,997.5	28.8	1.9	92.33	-3,575.9	-186.9	2,537.6	2,508.2	29.39	86.333	
8,267.7	7,014.1	7,000.0	6,997.5	29.9	1.9	92.33	-3,575.9	-186.9	2,472.8	2,442.3	30.51	81.056	
8,300.0	7,014.0	7,000.0	6,997.5	30.4	1.9	92.33	-3,575.9	-186.9	2,441.9	2,410.8	31.04	78.674	
8,366.1	7,013.8	7,000.0	6,997.5	31.5	1.9	92.33	-3,575.9	-186.9	2,378.8	2,346.6	32.15	73.987	
8,400.0	7,013.7	7,000.0	6,997.5	32.0	1.9	92.33	-3,575.9	-186.9	2,346.5	2,313.8	32.72	71.712	
8,464.5	7,013.5	7,000.0	6,997.5	33.1	1.9	92.33	-3,575.9	-186.9	2,285.2	2,251.4	33.83	67.550	
8,500.0	7,013.4	7,000.0	6,997.5	33.7	1.9	92.33	-3,575.9	-186.9	2,251.6	2,217.2	34.44	65.380	
8,563.0	7,013.2	7,000.0	6,997.5	34.8	1.9	92.33	-3,575.9	-186.9	2,192.0	2,156.5	35.54	61.683	
8,600.0	7,013.1	7,000.0	6,997.5	35.4	1.9	92.33	-3,575.9	-186.9	2,157.1	2,120.9	36.18	59.616	
8,661.4	7,012.9	7,000.0	6,997.5	36.5	1.9	92.33	-3,575.9	-186.9	2,099.3	2,062.1	37.27	56.329	
8,700.0	7,012.8	7,000.0	6,997.5	37.1	1.9	92.33	-3,575.9	-186.9	2,063.1	2,025.2	37.95	54.362	
8,759.8	7,012.6	7,000.0	6,997.5	38.2	1.9	92.33	-3,575.9	-186.9	2,007.2	1,968.2	39.02	51.437	
8,800.0	7,012.4	7,000.0	6,997.5	38.9	1.9	92.33	-3,575.9	-186.9	1,969.8	1,930.0	39.74	49.565	
8,858.2	7,012.3	7,000.0	6,997.5	39.9	1.9	92.33	-3,575.9	-186.9	1,915.7	1,874.9	40.79	46.960	
8,900.0	7,012.1	7,000.0	6,997.5	40.7	1.9	92.33	-3,575.9	-186.9	1,877.1	1,835.5	41.55	45.178	
8,956.7	7,011.9	7,000.0	6,997.5	41.7	1.9	92.33	-3,575.9	-186.9	1,824.9	1,782.3	42.58	42.857	
9,000.0	7,011.8	7,000.0	6,997.5	42.4	1.9	92.33	-3,575.9	-186.9	1,785.2	1,741.8	43.37	41.161	
9,055.1	7,011.6	7,000.0	6,997.5	43.4	1.9	92.33	-3,575.9	-186.9	1,734.9	1,690.5	44.38	39.090	
9,100.0	7,011.5	7,000.0	6,997.5	44.2	1.9	92.33	-3,575.9	-186.9	1,694.2	1,649.0	45.21	37.476	
9,153.5	7,011.3	7,000.0	6,997.5	45.2	1.9	92.33	-3,575.9	-186.9	1,645.9	1,599.7	46.20	35.629	
9,200.0	7,011.2	7,000.0	6,997.5	46.1	1.9	92.33	-3,575.9	-186.9	1,604.3	1,557.2	47.06	34.094	
9,251.9	7,011.0	7,000.0	6,997.5	47.0	1.9	92.33	-3,575.9	-186.9	1,558.1	1,510.1	48.02	32.446	
9,300.0	7,010.9	7,000.0	6,997.5	47.9	1.9	92.33	-3,575.9	-186.9	1,515.7	1,466.7	48.91	30.986	
9,350.4	7,010.7	7,000.0	6,997.5	48.8	1.9	92.33	-3,575.9	-186.9	1,471.6	1,421.7	49.85	29.517	
9,400.0	7,010.5	7,000.0	6,997.5	49.7	1.9	92.33	-3,575.9	-186.9	1,428.5	1,377.7	50.78	28.130	
9,448.8	7,010.4	7,000.0	6,997.5	50.6	1.9	92.33	-3,575.9	-186.9	1,386.6	1,334.9	51.70	26.822	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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							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	7,010.2	7,000.0	6,997.5	51.6	1.9	92.33	-3,575.9	-186.9	1,343.2	1,290.5	52.66	25.507		
9,547.2	7,010.1	7,000.0	6,997.5	52.5	1.9	92.33	-3,575.9	-186.9	1,303.6	1,250.0	53.55	24.344		
9,600.0	7,009.9	7,000.0	6,997.5	53.5	1.9	92.33	-3,575.9	-186.9	1,260.0	1,205.4	54.54	23.101		
9,645.6	7,009.8	7,000.0	6,997.5	54.3	1.9	92.33	-3,575.9	-186.9	1,222.8	1,167.4	55.40	22.071		
9,700.0	7,009.6	7,000.0	6,997.5	55.3	1.9	92.33	-3,575.9	-186.9	1,179.4	1,123.0	56.43	20.899		
9,744.1	7,009.4	7,000.0	6,997.5	56.2	1.9	92.33	-3,575.9	-186.9	1,144.9	1,087.6	57.27	19.991		
9,800.0	7,009.3	7,000.0	6,997.5	57.2	1.9	92.33	-3,575.9	-186.9	1,102.0	1,043.7	58.33	18.893		
9,842.5	7,009.1	7,000.0	6,997.5	58.0	1.9	92.33	-3,575.9	-186.9	1,070.3	1,011.1	59.14	18.098		
9,900.0	7,008.9	7,000.0	6,997.5	59.1	1.9	92.33	-3,575.9	-186.9	1,028.5	968.3	60.23	17.077		
9,940.9	7,008.8	7,000.0	6,997.5	59.9	1.9	92.33	-3,575.9	-186.9	999.8	938.8	61.01	16.387		
10,000.0	7,008.6	7,000.0	6,997.5	61.0	1.9	92.33	-3,575.9	-186.9	959.8	897.7	62.14	15.447		
10,039.3	7,008.5	7,000.0	6,997.5	61.7	1.9	92.33	-3,575.9	-186.9	934.4	871.5	62.89	14.858		
10,100.0	7,008.3	7,000.0	6,997.5	62.9	1.9	92.33	-3,575.9	-186.9	897.1	833.0	64.05	14.007		
10,137.8	7,008.2	7,000.0	6,997.5	63.6	1.9	92.33	-3,575.9	-186.9	875.2	810.4	64.77	13.512		
10,200.0	7,008.0	7,000.0	6,997.5	64.8	1.9	92.33	-3,575.9	-186.9	841.5	775.6	65.96	12.758		
10,236.2	7,007.9	6,999.9	6,997.4	65.5	1.9	92.33	-3,575.9	-186.9	823.5	756.9	66.66	12.355		
10,300.0	7,007.6	6,995.6	6,993.1	66.7	1.9	91.99	-3,576.2	-186.9	794.7	726.9	67.88	11.709		
10,334.6	7,007.5	6,993.3	6,990.8	67.3	1.9	91.80	-3,576.3	-186.9	780.9	712.3	68.54	11.393		
10,400.0	7,007.3	6,989.0	6,986.5	68.6	1.9	91.46	-3,576.6	-187.0	758.3	688.5	69.79	10.865		
10,433.0	7,007.2	6,986.9	6,984.3	69.2	1.9	91.29	-3,576.7	-187.0	748.7	678.3	70.42	10.632		
10,500.0	7,007.0	6,982.6	6,980.1	70.5	1.9	90.95	-3,577.0	-187.0	733.6	661.9	71.70	10.232		
10,531.5	7,006.9	6,980.6	6,978.1	71.1	1.8	90.79	-3,577.1	-187.0	728.6	656.2	72.31	10.076		
10,600.0	7,006.7	6,976.3	6,973.8	72.4	1.8	90.45	-3,577.3	-187.0	722.1	648.5	73.62	9.808		
10,629.9	7,006.6	6,974.4	6,971.9	73.0	1.8	90.31	-3,577.5	-187.0	721.3	647.1	74.19	9.722		
10,634.4	7,006.6	6,974.1	6,971.7	73.1	1.8	90.28	-3,577.5	-187.0	721.3	647.0	74.28	9.710 CC, ES		
10,700.0	7,006.4	6,970.1	6,967.6	74.3	1.8	89.97	-3,577.7	-187.1	724.2	648.7	75.54	9.588		
10,728.3	7,006.3	6,968.4	6,965.9	74.9	1.8	89.83	-3,577.8	-187.1	727.3	651.2	76.08	9.560		
10,800.0	7,006.0	6,964.1	6,961.7	76.3	1.8	89.49	-3,578.1	-187.1	740.0	662.5	77.46	9.553 SF		
10,826.7	7,005.9	6,962.6	6,960.1	76.8	1.8	89.37	-3,578.2	-187.1	746.4	668.4	77.97	9.573		
10,900.0	7,005.7	6,958.3	6,955.8	78.2	1.8	89.03	-3,578.4	-187.1	768.4	689.1	79.37	9.681		
10,925.2	7,005.6	6,956.8	6,954.3	78.7	1.8	88.91	-3,578.5	-187.1	777.5	697.6	79.86	9.735		
11,000.0	7,005.4	6,952.5	6,950.1	80.1	1.8	88.57	-3,578.7	-187.2	808.3	727.0	81.29	9.943		
11,023.6	7,005.3	6,951.2	6,948.7	80.6	1.8	88.47	-3,578.8	-187.2	819.2	737.5	81.75	10.021		
11,100.0	7,005.1	6,946.9	6,944.5	82.0	1.8	88.13	-3,579.1	-187.2	858.0	774.8	83.21	10.311		
11,122.0	7,005.0	6,945.7	6,943.3	82.5	1.8	88.03	-3,579.1	-187.2	870.1	786.5	83.64	10.404		
11,200.0	7,004.7	6,941.5	6,939.0	84.0	1.8	87.69	-3,579.4	-187.2	915.9	830.8	85.13	10.759		
11,220.4	7,004.7	6,940.3	6,937.9	84.4	1.8	87.61	-3,579.4	-187.2	928.7	843.1	85.52	10.859		
11,300.0	7,004.4	6,936.1	6,933.7	85.9	1.8	87.27	-3,579.7	-187.3	980.6	893.6	87.05	11.265		
11,318.9	7,004.4	6,935.1	6,932.7	86.3	1.8	87.19	-3,579.7	-187.3	993.5	906.1	87.41	11.366		
11,400.0	7,004.1	6,930.8	6,928.4	87.8	1.8	86.85	-3,579.9	-187.3	1,050.8	961.9	88.96	11.812		
11,417.3	7,004.0	6,929.9	6,927.5	88.2	1.8	86.78	-3,580.0	-187.3	1,063.4	974.2	89.29	11.909		
11,500.0	7,003.8	6,925.7	6,923.3	89.8	1.8	86.45	-3,580.2	-187.3	1,125.5	1,034.6	90.88	12.385		
11,515.7	7,003.7	6,924.9	6,922.5	90.1	1.8	86.39	-3,580.3	-187.3	1,137.6	1,046.4	91.18	12.477		
11,600.0	7,003.4	6,920.7	6,918.3	91.7	1.8	86.05	-3,580.5	-187.4	1,203.9	1,111.1	92.79	12.974		
11,614.1	7,003.4	6,920.0	6,917.6	92.0	1.8	86.00	-3,580.5	-187.4	1,215.2	1,122.1	93.06	13.058		
11,700.0	7,003.1	6,915.8	6,913.4	93.7	1.8	85.66	-3,580.8	-187.4	1,285.2	1,190.5	94.70	13.571		
11,712.6	7,003.1	6,915.2	6,912.7	93.9	1.8	85.62	-3,580.8	-187.4	1,295.6	1,200.7	94.94	13.647		
11,800.0	7,002.8	6,910.9	6,908.5	95.6	1.8	85.28	-3,581.0	-187.4	1,369.0	1,272.4	96.61	14.170		
11,811.0	7,002.7	6,910.4	6,908.0	95.8	1.8	85.24	-3,581.0	-187.4	1,378.3	1,281.5	96.82	14.236		
11,900.0	7,002.5	6,900.0	6,897.6	97.6	1.8	84.42	-3,581.6	-187.5	1,454.8	1,356.4	98.46	14.776		
11,909.4	7,002.4	6,900.0	6,897.6	97.7	1.8	84.42	-3,581.6	-187.5	1,463.0	1,364.4	98.64	14.832		
12,000.0	7,002.1	6,900.0	6,897.6	99.5	1.8	84.42	-3,581.6	-187.5	1,542.3	1,441.9	100.40	15.361		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						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	7,002.1	6,900.0	6,897.6	99.7	1.8	84.42	-3,581.6	-187.5	1,549.3	1,448.7	100.56	15.407	
12,100.0	7,001.8	6,900.0	6,897.6	101.5	1.8	84.42	-3,581.6	-187.5	1,631.3	1,528.9	102.35	15.938	
12,106.3	7,001.8	6,900.0	6,897.6	101.6	1.8	84.42	-3,581.6	-187.5	1,636.9	1,534.4	102.47	15.974	
12,200.0	7,001.5	6,891.8	6,889.4	103.4	1.8	83.78	-3,582.0	-187.6	1,721.4	1,617.2	104.21	16.518	
12,204.7	7,001.5	6,891.5	6,889.2	103.5	1.8	83.76	-3,582.0	-187.6	1,725.7	1,621.4	104.30	16.545	
12,300.0	7,001.2	6,886.8	6,884.4	105.3	1.8	83.39	-3,582.2	-187.6	1,812.5	1,706.4	106.10	17.084	
12,303.1	7,001.1	6,886.7	6,884.3	105.4	1.8	83.38	-3,582.2	-187.6	1,815.4	1,709.3	106.16	17.101	
12,400.0	7,000.8	6,881.8	6,879.5	107.3	1.8	83.00	-3,582.5	-187.6	1,904.6	1,796.6	107.98	17.638	
12,401.5	7,000.8	6,881.8	6,879.4	107.3	1.8	83.00	-3,582.5	-187.6	1,906.0	1,798.0	108.01	17.646	
12,500.0	7,000.5	6,876.9	6,874.6	109.3	1.8	82.62	-3,582.7	-187.7	1,997.4	1,887.5	109.86	18.181	
12,598.4	7,000.2	6,872.0	6,869.7	111.2	1.8	82.24	-3,583.0	-187.7	2,089.3	1,977.6	111.71	18.704	
12,600.0	7,000.2	6,872.0	6,869.6	111.2	1.8	82.23	-3,583.0	-187.7	2,090.8	1,979.1	111.74	18.712	
12,696.8	6,999.8	6,867.2	6,864.9	113.1	1.8	81.86	-3,583.2	-187.8	2,181.8	2,068.3	113.54	19.215	
12,700.0	6,999.8	6,867.0	6,864.7	113.2	1.8	81.85	-3,583.2	-187.8	2,184.8	2,071.2	113.60	19.232	
12,795.2	6,999.5	6,862.4	6,860.0	115.0	1.8	81.49	-3,583.5	-187.8	2,274.8	2,159.4	115.38	19.716	
12,800.0	6,999.5	6,862.1	6,859.8	115.1	1.8	81.47	-3,583.5	-187.8	2,279.3	2,163.8	115.47	19.740	
12,893.7	6,999.2	6,857.5	6,855.2	116.9	1.8	81.11	-3,583.7	-187.9	2,368.2	2,251.0	117.21	20.206	
12,900.0	6,999.2	6,857.2	6,854.9	117.1	1.8	81.09	-3,583.7	-187.9	2,374.2	2,256.9	117.32	20.237	
12,992.1	6,998.9	6,852.7	6,850.4	118.9	1.8	80.74	-3,584.0	-187.9	2,462.0	2,343.0	119.03	20.684	
13,000.0	6,998.8	6,852.4	6,850.0	119.0	1.8	80.71	-3,584.0	-188.0	2,469.6	2,350.4	119.17	20.722	
13,090.5	6,998.6	6,847.9	6,845.6	120.8	1.8	80.37	-3,584.2	-188.0	2,556.2	2,435.3	120.84	21.153	
13,100.0	6,998.5	6,847.5	6,845.2	121.0	1.8	80.34	-3,584.2	-188.0	2,565.2	2,444.2	121.02	21.197	
13,188.9	6,998.2	6,843.1	6,840.8	122.7	1.8	80.00	-3,584.4	-188.1	2,650.6	2,528.0	122.65	21.611	
13,200.0	6,998.2	6,842.6	6,840.3	122.9	1.8	79.96	-3,584.5	-188.1	2,661.2	2,538.4	122.86	21.661	
13,287.4	6,997.9	6,838.4	6,836.1	124.6	1.8	79.64	-3,584.7	-188.1	2,745.3	2,620.9	124.46	22.058	
13,300.0	6,997.9	6,837.8	6,835.5	124.9	1.8	79.59	-3,584.7	-188.1	2,757.5	2,632.8	124.69	22.115	
13,385.8	6,997.6	6,833.6	6,831.3	126.6	1.8	79.27	-3,584.9	-188.2	2,840.3	2,714.0	126.25	22.497	
13,400.0	6,997.5	6,832.9	6,830.6	126.9	1.8	79.22	-3,584.9	-188.2	2,854.0	2,727.5	126.51	22.559	
13,484.2	6,997.3	6,828.8	6,826.6	128.5	1.8	78.91	-3,585.1	-188.2	2,935.5	2,807.4	128.04	22.925	
13,500.0	6,997.2	6,828.1	6,825.8	128.8	1.8	78.85	-3,585.2	-188.3	2,950.7	2,822.4	128.33	22.993	
13,582.6	6,996.9	6,824.1	6,821.8	130.4	1.8	78.55	-3,585.4	-188.3	3,030.8	2,901.0	129.83	23.345	
13,600.0	6,996.9	6,823.3	6,821.0	130.8	1.8	78.49	-3,585.4	-188.3	3,047.7	2,917.5	130.14	23.418	
13,681.1	6,996.6	6,819.4	6,817.1	132.4	1.8	78.19	-3,585.6	-188.4	3,126.4	2,994.8	131.60	23.756	
13,700.0	6,996.5	6,818.5	6,816.2	132.7	1.8	78.12	-3,585.7	-188.4	3,144.8	3,012.8	131.94	23.834	
13,779.5	6,996.3	6,814.6	6,812.4	134.3	1.8	77.83	-3,585.9	-188.4	3,222.1	3,088.7	133.37	24.159	
13,800.0	6,996.2	6,813.7	6,811.4	134.7	1.8	77.76	-3,585.9	-188.5	3,242.1	3,108.3	133.74	24.242	
13,877.9	6,995.9	6,809.9	6,807.7	136.2	1.8	77.48	-3,586.1	-188.5	3,318.0	3,182.9	135.13	24.553	
13,900.0	6,995.9	6,808.9	6,806.6	136.7	1.8	77.40	-3,586.1	-188.5	3,339.5	3,204.0	135.53	24.641	
13,976.3	6,995.6	6,805.2	6,803.0	138.2	1.8	77.12	-3,586.3	-188.6	3,414.0	3,277.1	136.89	24.940	
14,000.0	6,995.5	6,800.0	6,797.8	138.6	1.8	76.73	-3,586.6	-188.7	3,437.1	3,299.9	137.18	25.055	
14,074.8	6,995.3	6,800.0	6,797.8	140.1	1.8	76.73	-3,586.6	-188.7	3,510.1	3,371.5	138.62	25.322	
14,100.0	6,995.2	6,800.0	6,797.8	140.6	1.8	76.73	-3,586.6	-188.7	3,534.8	3,395.7	139.10	25.411	
14,162.0	6,995.0	6,800.0	6,797.8	141.8	1.8	76.73	-3,586.6	-188.7	3,595.4	3,455.2	140.26	25.635	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-165.98	-2,859.8	-713.9	2,947.9				
98.4	98.4	51.4	51.4	0.1	0.0	-165.98	-2,859.8	-713.9	2,947.6	2,947.4	0.14	N/A	
100.0	100.0	52.9	52.9	0.1	0.0	-165.98	-2,859.8	-713.9	2,947.6	2,947.4	0.14	N/A	
196.8	196.8	153.1	153.1	0.3	0.2	-165.97	-2,859.7	-714.4	2,947.6	2,947.1	0.47	6,210.438	
200.0	200.0	156.5	156.5	0.3	0.2	-165.97	-2,859.7	-714.4	2,947.6	2,947.1	0.49	6,058.579	
295.3	295.3	257.4	257.3	0.5	0.3	-165.96	-2,859.3	-715.2	2,947.4	2,946.6	0.81	3,629.615	
300.0	300.0	262.2	262.2	0.5	0.3	-165.96	-2,859.3	-715.3	2,947.4	2,946.6	0.83	3,564.017	
393.7	393.7	355.2	355.2	0.8	0.4	-165.94	-2,858.8	-716.2	2,947.2	2,946.1	1.11	2,654.401	
400.0	400.0	361.3	361.3	0.8	0.4	-165.93	-2,858.8	-716.2	2,947.1	2,946.0	1.13	2,610.919	
492.1	492.1	452.1	452.1	1.0	0.4	-165.92	-2,858.4	-717.1	2,947.0	2,945.6	1.40	2,111.822	
500.0	500.0	460.0	460.0	1.0	0.4	-165.91	-2,858.3	-717.2	2,946.9	2,945.5	1.42	2,078.212	
590.5	590.5	555.3	555.3	1.2	0.5	-165.89	-2,857.9	-718.1	2,946.7	2,945.1	1.68	1,757.287	
600.0	600.0	565.7	565.7	1.2	0.5	-165.89	-2,857.8	-718.2	2,946.7	2,945.0	1.70	1,729.446	
689.0	689.0	655.2	655.2	1.4	0.5	-165.88	-2,857.3	-718.9	2,946.3	2,944.4	1.95	1,509.392	
700.0	700.0	665.8	665.8	1.4	0.5	-165.88	-2,857.2	-718.9	2,946.3	2,944.3	1.98	1,486.251	
787.4	787.4	755.5	755.5	1.6	0.6	-165.86	-2,856.7	-719.5	2,945.9	2,943.7	2.22	1,325.100	
800.0	800.0	769.1	769.1	1.7	0.6	-165.86	-2,856.6	-719.6	2,945.9	2,943.6	2.26	1,304.684	
885.8	885.8	856.6	856.5	1.9	0.6	-165.85	-2,856.0	-719.8	2,945.4	2,942.9	2.49	1,181.927	
900.0	900.0	870.6	870.6	1.9	0.6	-165.85	-2,856.0	-719.9	2,945.3	2,942.8	2.53	1,163.930	
984.2	984.2	951.1	951.1	2.1	0.7	-165.84	-2,855.5	-720.2	2,944.9	2,942.2	2.76	1,068.587	
1,000.0	1,000.0	965.8	965.8	2.1	0.7	-165.84	-2,855.4	-720.2	2,944.8	2,942.1	2.80	1,052.594	
1,082.7	1,082.7	1,048.3	1,048.3	2.3	0.7	-165.83	-2,855.0	-720.8	2,944.6	2,941.5	3.02	975.218	
1,100.0	1,100.0	1,066.4	1,066.4	2.3	0.7	-165.83	-2,854.9	-720.9	2,944.5	2,941.4	3.07	960.303	
1,118.6	1,118.6	1,085.9	1,085.9	2.4	0.7	131.61	-2,854.8	-720.9	2,944.5	2,941.4	3.05	964.804	
1,181.1	1,181.1	1,148.2	1,148.1	2.5	0.8	131.62	-2,854.4	-721.2	2,944.9	2,941.7	3.21	917.103	
1,200.0	1,200.0	1,166.8	1,166.7	2.6	0.8	131.63	-2,854.3	-721.2	2,945.2	2,942.0	3.26	903.626	
1,279.5	1,279.4	1,247.6	1,247.6	2.7	0.8	131.66	-2,853.9	-721.5	2,947.5	2,944.0	3.46	851.458	
1,300.0	1,299.8	1,269.0	1,268.9	2.8	0.8	131.67	-2,853.8	-721.6	2,948.3	2,944.8	3.51	839.040	
1,377.9	1,377.5	1,344.7	1,344.6	3.0	0.8	131.71	-2,853.3	-722.0	2,952.2	2,948.5	3.72	794.031	
1,400.0	1,399.5	1,365.1	1,365.1	3.0	0.8	131.72	-2,853.2	-722.0	2,953.6	2,949.8	3.78	782.321	
1,476.4	1,475.3	1,437.6	1,437.6	3.2	0.9	131.76	-2,852.9	-722.2	2,959.4	2,955.4	3.99	742.517	
1,500.0	1,498.7	1,460.6	1,460.5	3.2	0.9	131.78	-2,852.9	-722.2	2,961.5	2,957.4	4.05	731.155	
1,574.8	1,572.6	1,533.7	1,533.6	3.5	0.9	131.83	-2,852.7	-722.2	2,968.9	2,964.7	4.27	695.260	
1,600.0	1,597.5	1,558.5	1,558.5	3.5	0.9	131.85	-2,852.7	-722.1	2,971.7	2,967.4	4.34	684.162	
1,673.2	1,669.4	1,629.7	1,629.6	3.7	0.9	131.90	-2,852.5	-722.0	2,980.8	2,976.2	4.58	651.529	
1,700.0	1,695.7	1,655.2	1,655.2	3.8	0.9	131.92	-2,852.5	-722.0	2,984.4	2,979.8	4.66	640.609	
1,771.6	1,765.7	1,726.6	1,726.5	4.1	1.0	132.13	-2,852.4	-722.0	2,994.4	2,989.5	4.89	611.965	
1,800.0	1,793.4	1,757.2	1,757.2	4.2	1.0	132.22	-2,852.3	-722.0	2,998.3	2,993.3	4.99	601.353	
1,870.1	1,862.0	1,828.7	1,828.7	4.4	1.0	132.43	-2,852.1	-721.8	3,008.0	3,002.7	5.23	575.527	
1,900.0	1,891.3	1,856.9	1,856.8	4.5	1.0	132.52	-2,852.0	-721.7	3,012.1	3,006.8	5.33	565.482	
1,968.5	1,958.3	1,923.7	1,923.6	4.8	1.0	132.71	-2,851.8	-721.4	3,021.6	3,016.1	5.57	542.822	
2,000.0	1,989.1	1,956.6	1,956.5	4.9	1.0	132.80	-2,851.7	-721.3	3,026.0	3,020.3	5.68	532.971	
2,066.9	2,054.5	2,021.8	2,021.7	5.2	1.0	132.99	-2,851.5	-721.0	3,035.3	3,029.4	5.92	513.068	
2,100.0	2,086.9	2,050.1	2,050.1	5.3	1.0	133.07	-2,851.4	-720.9	3,039.9	3,033.9	6.03	504.021	
2,165.3	2,150.8	2,107.0	2,107.0	5.6	1.0	133.23	-2,851.4	-720.6	3,049.2	3,042.9	6.26	486.802	
2,200.0	2,184.7	2,140.9	2,140.9	5.7	1.0	133.32	-2,851.5	-720.4	3,054.2	3,047.8	6.39	478.146	
2,263.8	2,247.1	2,203.2	2,203.1	5.9	1.0	133.49	-2,851.6	-719.9	3,063.4	3,056.7	6.62	462.843	
2,300.0	2,282.5	2,237.0	2,236.9	6.1	1.1	133.58	-2,851.6	-719.6	3,068.6	3,061.9	6.75	454.714	
2,362.2	2,343.4	2,295.0	2,294.9	6.4	1.1	133.73	-2,851.8	-719.1	3,077.7	3,070.7	6.97	441.299	
2,400.0	2,380.3	2,326.9	2,326.9	6.5	1.1	133.82	-2,852.0	-718.8	3,083.2	3,076.1	7.11	433.642	
2,460.6	2,439.6	2,377.3	2,377.3	6.8	1.1	133.95	-2,852.3	-718.2	3,092.3	3,085.0	7.33	421.843	
2,500.0	2,478.1	2,400.0	2,399.9	6.9	1.1	134.00	-2,852.6	-717.9	3,098.3	3,090.9	7.47	414.667	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,559.0	2,535.9	2,449.5	2,449.5	7.2	1.1	134.13	-2,853.3	-717.3	3,107.6	3,099.9	7.69	404.200	
2,600.0	2,576.0	2,478.0	2,477.9	7.4	1.1	134.20	-2,853.9	-716.9	3,114.2	3,106.3	7.84	397.353	
2,657.5	2,632.2	2,524.4	2,524.3	7.6	1.1	134.31	-2,855.0	-716.3	3,123.7	3,115.7	8.05	388.102	
2,700.0	2,673.8	2,564.5	2,564.4	7.8	1.1	134.40	-2,856.0	-715.8	3,130.8	3,122.6	8.21	381.572	
2,755.9	2,728.4	2,617.5	2,617.3	8.0	1.1	134.53	-2,857.4	-715.1	3,140.2	3,131.8	8.41	373.341	
2,800.0	2,771.6	2,659.4	2,659.3	8.2	1.1	134.63	-2,858.5	-714.6	3,147.6	3,139.1	8.57	367.199	
2,854.3	2,824.7	2,714.3	2,714.1	8.4	1.1	134.76	-2,859.9	-714.0	3,156.8	3,148.1	8.77	359.911	
2,900.0	2,869.4	2,770.4	2,770.2	8.6	1.1	134.90	-2,861.2	-713.4	3,164.5	3,155.5	8.94	354.043	
2,952.7	2,921.0	2,827.5	2,827.2	8.9	1.1	135.03	-2,862.4	-712.7	3,173.1	3,164.0	9.13	347.501	
3,000.0	2,967.2	2,872.7	2,872.4	9.1	1.1	135.14	-2,863.3	-712.1	3,180.9	3,171.6	9.30	341.892	
3,051.2	3,017.3	2,923.5	2,923.3	9.3	1.1	135.26	-2,864.3	-711.6	3,189.3	3,179.8	9.49	336.012	
3,100.0	3,065.0	2,974.4	2,974.2	9.5	1.1	135.38	-2,865.2	-711.1	3,197.3	3,187.6	9.67	330.607	
3,149.6	3,113.5	3,026.4	3,026.1	9.7	1.1	135.51	-2,866.1	-710.7	3,205.4	3,195.6	9.85	325.307	
3,200.0	3,162.8	3,079.4	3,079.2	9.9	1.1	135.63	-2,867.0	-710.3	3,213.6	3,203.6	10.04	320.131	
3,248.0	3,209.8	3,126.2	3,125.9	10.2	1.1	135.75	-2,867.7	-710.0	3,221.4	3,211.2	10.22	315.355	
3,300.0	3,260.7	3,173.9	3,173.6	10.4	1.2	135.86	-2,868.4	-709.7	3,229.9	3,219.4	10.41	310.386	
3,346.4	3,306.1	3,216.8	3,216.5	10.6	1.2	135.97	-2,869.0	-709.5	3,237.5	3,226.9	10.58	306.091	
3,400.0	3,358.5	3,267.0	3,266.8	10.8	1.2	136.09	-2,869.8	-709.4	3,246.3	3,235.5	10.77	301.310	
3,444.9	3,402.4	3,309.5	3,309.2	11.0	1.2	136.20	-2,870.5	-709.4	3,253.8	3,242.8	10.94	297.434	
3,500.0	3,456.3	3,363.6	3,363.3	11.3	1.2	136.33	-2,871.3	-709.4	3,262.9	3,251.8	11.14	292.843	
3,543.3	3,498.6	3,400.0	3,399.7	11.5	1.2	136.42	-2,871.9	-709.5	3,270.2	3,258.9	11.30	289.362	
3,600.0	3,554.1	3,452.2	3,451.9	11.7	1.2	136.55	-2,872.7	-709.7	3,279.7	3,268.2	11.51	284.945	
3,641.7	3,594.9	3,486.8	3,486.5	11.9	1.2	136.64	-2,873.2	-709.9	3,286.8	3,275.2	11.66	281.806	
3,700.0	3,651.9	3,542.4	3,542.0	12.2	1.2	136.78	-2,874.2	-710.5	3,296.9	3,285.0	11.88	277.560	
3,740.1	3,691.2	3,582.5	3,582.2	12.3	1.2	136.89	-2,874.8	-711.1	3,303.8	3,291.8	12.03	274.720	
3,800.0	3,749.7	3,636.4	3,636.1	12.6	1.2	137.03	-2,875.6	-711.9	3,314.2	3,301.9	12.25	270.632	
3,838.6	3,787.5	3,669.5	3,669.2	12.8	1.2	137.12	-2,876.2	-712.4	3,320.9	3,308.5	12.39	268.080	
3,900.0	3,847.5	3,727.5	3,727.1	13.0	1.2	137.27	-2,877.2	-713.4	3,331.8	3,319.2	12.61	264.147	
3,937.0	3,883.7	3,766.6	3,766.3	13.2	1.3	137.38	-2,877.9	-714.1	3,338.3	3,325.5	12.75	261.841	
4,000.0	3,945.4	3,826.9	3,826.5	13.5	1.3	137.54	-2,878.8	-715.3	3,349.4	3,336.4	12.98	258.037	
4,035.4	3,980.0	3,857.2	3,856.8	13.7	1.3	137.62	-2,879.3	-715.9	3,355.7	3,342.6	13.11	255.964	
4,068.9	4,012.7	3,885.8	3,885.4	13.8	1.3	137.69	-2,879.8	-716.5	3,361.6	3,348.4	13.23	254.048	
4,100.0	4,043.2	3,921.5	3,921.0	13.9	1.3	137.86	-2,880.5	-717.1	3,367.1	3,353.8	13.32	252.824	
4,133.8	4,076.4	3,971.9	3,971.4	14.0	1.3	138.05	-2,881.3	-717.8	3,372.6	3,359.3	13.39	251.836	
4,200.0	4,141.6	4,071.8	4,071.3	14.2	1.3	138.38	-2,882.5	-718.2	3,382.1	3,368.6	13.53	249.930	
4,232.3	4,173.4	4,118.0	4,117.6	14.3	1.3	138.50	-2,882.9	-717.8	3,386.1	3,372.5	13.60	249.061	
4,300.0	4,240.5	4,205.0	4,204.6	14.5	1.3	138.71	-2,883.3	-716.7	3,393.3	3,379.5	13.73	247.125	
4,330.7	4,271.0	4,233.1	4,232.6	14.6	1.3	138.78	-2,883.4	-716.2	3,396.0	3,382.2	13.79	246.331	
4,400.0	4,339.9	4,300.0	4,299.5	14.8	1.3	138.92	-2,883.7	-715.2	3,401.5	3,387.6	13.91	244.473	
4,429.1	4,368.9	4,328.3	4,327.8	14.8	1.3	138.96	-2,883.9	-714.8	3,403.4	3,389.4	13.96	243.779	
4,500.0	4,439.6	4,406.9	4,406.4	15.0	1.4	139.05	-2,884.2	-713.6	3,407.0	3,393.0	14.08	241.980	
4,527.5	4,467.1	4,435.5	4,435.0	15.0	1.4	139.07	-2,884.2	-713.1	3,408.1	3,393.9	14.12	241.362	
4,600.0	4,539.5	4,500.0	4,499.5	15.1	1.4	139.11	-2,884.3	-712.2	3,409.8	3,395.5	14.23	239.666	
4,626.0	4,565.4	4,527.8	4,527.3	15.2	1.4	139.11	-2,884.3	-711.8	3,410.1	3,395.8	14.26	239.097	
4,668.9	4,608.4	4,560.8	4,560.2	15.2	1.4	-158.32	-2,884.5	-711.4	3,410.3	3,395.9	14.34	237.891	
4,700.0	4,639.5	4,584.6	4,584.1	15.3	1.4	-158.33	-2,884.6	-711.1	3,410.3	3,395.9	14.39	237.046	
4,724.4	4,663.9	4,605.2	4,604.6	15.3	1.4	-158.33	-2,884.8	-710.9	3,410.4	3,396.0	14.43	236.322	
4,800.0	4,739.5	4,696.3	4,695.8	15.4	1.4	-158.36	-2,885.5	-709.6	3,410.6	3,396.0	14.57	234.001	
4,822.8	4,762.3	4,718.1	4,717.5	15.4	1.4	-158.36	-2,885.6	-709.3	3,410.5	3,395.9	14.62	233.315	
4,831.6	4,771.1	4,726.1	4,725.6	15.5	1.4	-158.37	-2,885.7	-709.1	3,410.5	3,395.9	14.63	233.053	
4,900.0	4,839.5	4,788.7	4,788.2	15.6	1.4	-158.38	-2,886.1	-708.1	3,410.6	3,395.8	14.76	231.041	
4,921.2	4,860.7	4,800.0	4,799.5	15.6	1.4	-158.39	-2,886.2	-708.0	3,410.6	3,395.8	14.80	230.443	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,000.0	4,939.5	4,874.1	4,873.5	15.7	1.4	-158.41	-2,887.1	-706.6	3,411.0	3,396.0	14.95	228.164	
5,019.7	4,959.1	4,890.7	4,890.1	15.7	1.4	-158.42	-2,887.3	-706.3	3,411.1	3,396.1	14.99	227.605	
5,100.0	5,039.5	4,946.6	4,946.0	15.9	1.5	-158.44	-2,888.4	-705.1	3,411.9	3,396.8	15.14	225.396	
5,118.1	5,057.6	4,958.7	4,958.1	15.9	1.5	-158.45	-2,888.7	-704.8	3,412.2	3,397.0	15.17	224.906	
5,200.0	5,139.5	5,020.7	5,020.0	16.0	1.5	-158.48	-2,890.6	-703.4	3,413.8	3,398.5	15.33	222.717	
5,216.5	5,156.0	5,037.4	5,036.7	16.0	1.5	-158.49	-2,891.1	-703.0	3,414.1	3,398.8	15.36	222.264	
5,300.0	5,239.5	5,121.1	5,120.3	16.2	1.5	-158.54	-2,893.8	-701.0	3,415.9	3,400.4	15.53	220.015	
5,314.9	5,254.4	5,135.6	5,134.9	16.2	1.5	-158.55	-2,894.3	-700.7	3,416.3	3,400.7	15.56	219.616	
5,400.0	5,339.5	5,221.2	5,220.5	16.3	1.5	-158.59	-2,896.8	-699.3	3,418.1	3,402.4	15.72	217.381	
5,413.4	5,352.8	5,236.3	5,235.5	16.3	1.5	-158.59	-2,897.3	-699.1	3,418.4	3,402.7	15.75	217.027	
5,500.0	5,439.5	5,345.7	5,344.9	16.5	1.5	-158.62	-2,899.8	-698.2	3,420.0	3,404.1	15.93	214.726	
5,511.8	5,451.3	5,363.6	5,362.7	16.5	1.5	-158.63	-2,900.1	-698.1	3,420.2	3,404.2	15.95	214.404	
5,600.0	5,539.5	5,472.1	5,471.3	16.6	1.6	-158.64	-2,901.3	-697.8	3,421.0	3,404.8	16.13	212.069	
5,610.2	5,549.7	5,483.6	5,482.8	16.6	1.6	-158.64	-2,901.4	-697.7	3,421.0	3,404.9	16.15	211.801	
5,700.0	5,639.5	5,564.6	5,564.7	16.8	1.6	-158.66	-2,901.2	-696.5	3,420.8	3,404.4	16.33	209.479	
5,708.6	5,648.1	5,563.3	5,562.4	16.8	1.6	-158.66	-2,901.0	-696.2	3,420.6	3,404.3	16.35	209.241	
5,800.0	5,739.5	5,774.9	5,774.0	17.0	1.6	-158.69	-2,899.4	-693.6	3,418.6	3,402.0	16.53	206.824	
5,807.1	5,746.5	5,782.2	5,781.3	17.0	1.6	-158.69	-2,899.3	-693.4	3,418.4	3,401.9	16.54	206.639	
5,900.0	5,839.5	5,882.8	5,881.9	17.1	1.6	-158.73	-2,897.8	-690.6	3,416.1	3,399.4	16.73	204.226	
5,905.5	5,845.0	5,888.9	5,887.9	17.1	1.6	-158.73	-2,897.7	-690.4	3,416.0	3,399.2	16.74	204.084	
6,000.0	5,939.5	5,968.8	5,967.8	17.3	1.6	-158.76	-2,896.5	-688.0	3,413.7	3,396.8	16.92	201.710	
6,003.9	5,943.4	5,972.0	5,971.0	17.3	1.6	-158.76	-2,896.5	-687.9	3,413.6	3,396.7	16.93	201.613	
6,100.0	6,039.5	6,044.7	6,043.7	17.4	1.7	-158.79	-2,895.9	-685.7	3,411.9	3,394.7	17.12	199.285	
6,102.3	6,041.8	6,046.4	6,045.4	17.4	1.7	-158.80	-2,895.9	-685.6	3,411.8	3,394.7	17.13	199.229	
6,200.0	6,139.5	6,123.9	6,122.8	17.6	1.7	-158.84	-2,896.0	-683.1	3,410.8	3,393.5	17.32	196.933	
6,200.8	6,140.2	6,124.6	6,123.6	17.6	1.7	-158.84	-2,896.0	-683.1	3,410.8	3,393.5	17.32	196.915	
6,299.2	6,238.7	6,226.3	6,225.2	17.8	1.7	-158.90	-2,896.6	-679.2	3,409.9	3,392.4	17.52	194.593	
6,300.0	6,239.5	6,227.2	6,226.1	17.8	1.7	-158.90	-2,896.6	-679.2	3,409.9	3,392.4	17.53	194.574	
6,360.9	6,300.4	6,295.8	6,294.5	17.9	1.7	-158.95	-2,896.9	-676.2	3,409.3	3,391.6	17.65	193.137	
6,397.6	6,337.1	6,322.9	6,321.6	17.9	1.7	20.86	-2,897.1	-675.0	3,408.0	3,390.3	17.67	192.863	
6,400.0	6,339.5	6,324.5	6,323.3	17.9	1.7	20.86	-2,897.1	-674.9	3,407.9	3,390.2	17.67	192.826	
6,450.0	6,389.2	6,359.2	6,357.9	18.0	1.7	20.98	-2,897.5	-673.3	3,403.4	3,385.6	17.74	191.856	
6,496.0	6,434.7	6,400.0	6,398.7	18.0	1.7	21.19	-2,898.2	-671.4	3,396.6	3,378.8	17.82	190.616	
6,500.0	6,438.6	6,400.0	6,398.7	18.0	1.7	21.21	-2,898.2	-671.4	3,395.9	3,378.1	17.83	190.512	
6,550.0	6,487.3	6,427.4	6,426.1	18.0	1.7	21.54	-2,898.8	-670.0	3,385.4	3,367.5	17.90	189.090	
6,594.5	6,529.8	6,457.1	6,455.6	18.0	1.7	21.93	-2,899.5	-668.6	3,373.6	3,355.6	17.96	187.861	
6,600.0	6,535.1	6,460.7	6,459.3	18.1	1.7	21.98	-2,899.6	-668.4	3,372.0	3,354.0	17.96	187.721	
6,650.0	6,581.7	6,500.0	6,498.5	18.0	1.8	22.56	-2,900.9	-666.5	3,355.7	3,337.7	17.99	186.504	
6,692.9	6,620.6	6,536.4	6,534.9	18.0	1.8	23.18	-2,902.1	-664.6	3,339.4	3,321.4	17.99	185.581	
6,700.0	6,626.9	6,544.3	6,542.7	18.0	1.8	23.30	-2,902.4	-664.2	3,336.4	3,318.5	17.99	185.440	
6,750.0	6,670.6	6,598.4	6,596.7	18.0	1.8	24.24	-2,904.2	-661.1	3,314.2	3,296.2	17.96	184.512	
6,791.3	6,705.4	6,651.5	6,649.7	18.0	1.8	25.20	-2,905.9	-657.6	3,293.5	3,275.6	17.93	183.738	
6,800.0	6,712.5	6,662.5	6,660.6	18.0	1.8	25.43	-2,906.2	-656.8	3,289.0	3,271.0	17.91	183.599	
6,850.0	6,752.3	6,719.7	6,717.7	18.0	1.8	26.85	-2,907.9	-652.5	3,260.8	3,243.0	17.84	182.795	
6,889.7	6,782.5	6,758.3	6,756.1	18.0	1.8	28.17	-2,908.9	-649.4	3,236.5	3,218.8	17.77	182.171	
6,900.0	6,790.0	6,768.0	6,765.7	18.0	1.8	28.55	-2,909.2	-648.6	3,230.0	3,212.3	17.74	182.030	
6,950.0	6,825.3	6,809.6	6,807.2	18.0	1.8	30.56	-2,910.3	-644.9	3,196.8	3,179.2	17.65	181.156	
6,988.2	6,850.5	6,833.3	6,830.8	17.9	1.9	32.32	-2,910.9	-642.8	3,170.0	3,152.4	17.58	180.300	
7,000.0	6,858.0	6,840.4	6,837.9	17.9	1.9	32.91	-2,911.1	-642.1	3,161.4	3,143.9	17.56	180.042	
7,050.0	6,888.0	6,868.9	6,866.2	18.0	1.9	35.72	-2,912.0	-639.5	3,124.1	3,106.6	17.52	178.364	
7,086.6	6,908.1	6,888.1	6,885.3	18.0	1.9	38.13	-2,912.5	-637.7	3,095.7	3,078.2	17.51	176.783	
7,100.0	6,915.1	6,894.8	6,892.0	18.0	1.9	39.09	-2,912.8	-637.1	3,085.1	3,067.5	17.54	175.887	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
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
7,150.0	6,939.2	6,924.5	6,921.5	18.0	1.9	43.23	-2,913.7	-634.3	3,044.4	3,026.8	17.66	172.343	
7,185.0	6,954.3	6,944.1	6,941.1	18.1	1.9	46.64	-2,914.2	-632.5	3,015.1	2,997.3	17.81	169.250	
7,200.0	6,960.3	6,951.9	6,948.9	18.1	1.9	48.23	-2,914.4	-631.8	3,002.4	2,984.5	17.89	167.810	
7,250.0	6,978.1	6,975.3	6,972.1	18.3	1.9	54.16	-2,915.1	-629.6	2,959.2	2,941.0	18.20	162.587	
7,283.4	6,988.2	6,988.6	6,985.3	18.4	1.9	58.68	-2,915.4	-628.3	2,929.8	2,911.3	18.43	158.927	
7,300.0	6,992.6	6,994.5	6,991.2	18.4	1.9	61.08	-2,915.5	-627.8	2,915.1	2,896.5	18.54	157.194	
7,350.0	7,003.7	7,009.4	7,006.1	18.7	1.9	68.93	-2,915.9	-626.4	2,870.3	2,851.4	18.86	152.209	
7,381.9	7,009.1	7,000.0	6,996.7	18.9	1.9	73.60	-2,915.7	-627.3	2,841.5	2,822.5	19.03	149.355	
7,400.0	7,011.4	7,000.0	6,996.7	19.0	1.9	76.59	-2,915.7	-627.3	2,825.1	2,806.0	19.11	147.825	
7,450.0	7,015.7	7,000.0	6,996.7	19.3	1.9	85.08	-2,915.7	-627.3	2,779.8	2,760.4	19.41	143.212	
7,480.3	7,016.6	7,000.0	6,996.7	19.6	1.9	90.30	-2,915.7	-627.3	2,752.3	2,732.6	19.72	139.542	
7,488.2	7,016.6	7,000.0	6,996.7	19.6	1.9	91.64	-2,915.7	-627.3	2,745.2	2,725.3	19.83	138.435	
7,500.0	7,016.6	7,000.0	6,996.7	19.7	1.9	91.64	-2,915.7	-627.3	2,734.5	2,714.5	19.95	137.096	
7,578.7	7,016.3	7,000.0	6,996.7	20.5	1.9	91.64	-2,915.7	-627.3	2,663.5	2,642.7	20.77	128.208	
7,600.0	7,016.2	7,000.0	6,996.7	20.7	1.9	91.64	-2,915.7	-627.3	2,644.3	2,623.3	21.00	125.930	
7,677.1	7,016.0	7,000.0	6,996.7	21.6	1.9	91.64	-2,915.7	-627.3	2,575.3	2,553.4	21.91	117.530	
7,700.0	7,015.9	7,000.0	6,996.7	21.8	1.9	91.64	-2,915.7	-627.3	2,554.9	2,532.7	22.18	115.179	
7,775.6	7,015.7	7,000.0	6,996.7	22.7	1.9	91.64	-2,915.7	-627.3	2,487.9	2,464.7	23.16	107.399	
7,800.0	7,015.6	7,000.0	6,996.7	23.0	1.9	91.65	-2,915.7	-627.3	2,466.3	2,442.9	23.48	105.029	
7,874.0	7,015.4	7,000.0	6,996.7	24.0	1.9	91.65	-2,915.7	-627.3	2,401.4	2,376.8	24.52	97.949	
7,900.0	7,015.3	7,000.0	6,996.7	24.4	1.9	91.65	-2,915.7	-627.3	2,378.7	2,353.8	24.88	95.607	
7,972.4	7,015.1	7,000.0	6,996.7	25.4	1.9	91.65	-2,915.7	-627.3	2,315.8	2,289.8	25.95	89.242	
8,000.0	7,015.0	7,000.0	6,996.7	25.8	1.9	91.65	-2,915.7	-627.3	2,292.0	2,265.6	26.36	86.960	
8,070.8	7,014.8	7,000.0	6,996.7	26.8	1.9	91.65	-2,915.7	-627.3	2,231.2	2,203.8	27.45	81.282	
8,100.0	7,014.7	7,000.0	6,996.7	27.3	1.9	91.65	-2,915.7	-627.3	2,206.4	2,178.5	27.90	79.082	
8,169.3	7,014.4	7,000.0	6,996.7	28.3	1.9	91.65	-2,915.7	-627.3	2,147.9	2,118.9	29.01	74.044	
8,200.0	7,014.4	7,000.0	6,996.7	28.8	1.9	91.65	-2,915.7	-627.3	2,122.1	2,092.6	29.50	71.937	
8,267.7	7,014.1	7,000.0	6,996.7	29.9	1.9	91.65	-2,915.7	-627.3	2,065.9	2,035.3	30.61	67.482	
8,300.0	7,014.0	7,000.0	6,996.7	30.4	1.9	91.65	-2,915.7	-627.3	2,039.3	2,008.1	31.15	65.476	
8,366.1	7,013.8	7,000.0	6,996.7	31.5	1.9	91.65	-2,915.7	-627.3	1,985.3	1,953.1	32.26	61.544	
8,400.0	7,013.7	7,000.0	6,996.7	32.0	1.9	91.65	-2,915.7	-627.3	1,958.0	1,925.2	32.83	59.641	
8,464.5	7,013.5	7,000.0	6,996.7	33.1	1.9	91.65	-2,915.7	-627.3	1,906.5	1,872.6	33.94	56.175	
8,500.0	7,013.4	7,000.0	6,996.7	33.7	1.9	91.65	-2,915.7	-627.3	1,878.6	1,844.0	34.55	54.376	
8,563.0	7,013.2	7,000.0	6,996.7	34.8	1.9	91.65	-2,915.7	-627.3	1,829.5	1,793.9	35.65	51.325	
8,600.0	7,013.1	7,000.0	6,996.7	35.4	1.9	91.65	-2,915.7	-627.3	1,801.1	1,764.9	36.29	49.628	
8,661.4	7,012.9	7,000.0	6,996.7	36.5	1.9	91.65	-2,915.7	-627.3	1,754.7	1,717.4	37.38	46.945	
8,700.0	7,012.8	7,000.0	6,996.7	37.1	1.9	91.65	-2,915.7	-627.3	1,726.1	1,688.0	38.06	45.348	
8,759.8	7,012.6	7,000.0	6,996.7	38.2	1.9	91.65	-2,915.7	-627.3	1,682.4	1,643.2	39.13	42.991	
8,800.0	7,012.4	7,000.0	6,996.7	38.9	1.9	91.65	-2,915.7	-627.3	1,653.6	1,613.8	39.85	41.494	
8,858.2	7,012.3	7,000.0	6,996.7	39.9	1.9	91.65	-2,915.7	-627.3	1,612.8	1,571.9	40.91	39.427	
8,900.0	7,012.1	7,000.0	6,996.7	40.7	1.9	91.65	-2,915.7	-627.3	1,584.2	1,542.5	41.66	38.026	
8,956.7	7,011.9	7,000.0	6,996.7	41.7	1.9	91.65	-2,915.7	-627.3	1,546.3	1,503.6	42.69	36.219	
9,000.0	7,011.8	7,000.0	6,996.7	42.4	1.9	91.65	-2,915.7	-627.3	1,518.1	1,474.7	43.48	34.913	
9,055.1	7,011.6	7,000.0	6,996.7	43.4	1.9	91.65	-2,915.7	-627.3	1,483.4	1,438.9	44.50	33.338	
9,100.0	7,011.5	7,000.0	6,996.7	44.2	1.9	91.65	-2,915.7	-627.3	1,456.0	1,410.7	45.32	32.127	
9,153.5	7,011.3	7,000.0	6,996.7	45.2	1.9	91.65	-2,915.7	-627.3	1,424.5	1,378.2	46.31	30.760	
9,200.0	7,011.2	7,000.0	6,996.7	46.1	1.9	91.65	-2,915.7	-627.3	1,398.3	1,351.1	47.17	29.643	
9,251.9	7,011.0	7,000.0	6,996.7	47.0	1.9	91.65	-2,915.7	-627.3	1,370.2	1,322.0	48.14	28.465	
9,300.0	7,010.9	7,000.0	6,996.7	47.9	1.9	91.65	-2,915.7	-627.3	1,345.5	1,296.4	49.03	27.442	
9,350.4	7,010.7	7,000.0	6,996.7	48.8	1.9	91.65	-2,915.7	-627.3	1,320.9	1,271.0	49.97	26.435	
9,400.0	7,010.5	7,000.0	6,996.7	49.7	1.9	91.65	-2,915.7	-627.3	1,298.2	1,247.3	50.90	25.507	
9,448.8	7,010.4	7,000.0	6,996.7	50.6	1.9	91.65	-2,915.7	-627.3	1,277.4	1,225.6	51.81	24.654	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
9,500.0	7,010.2	7,000.0	6,996.7	51.6	1.9	91.65	-2,915.7	-627.3	1,257.2	1,204.4	52.77	23.823	
9,547.2	7,010.1	7,000.0	6,996.7	52.5	1.9	91.65	-2,915.7	-627.3	1,240.2	1,186.5	53.66	23.110	
9,600.0	7,009.9	7,000.0	6,996.7	53.5	1.9	91.65	-2,915.7	-627.3	1,223.0	1,168.4	54.66	22.376	
9,645.6	7,009.8	7,000.0	6,996.7	54.3	1.9	91.65	-2,915.7	-627.3	1,209.8	1,154.3	55.52	21.790	
9,700.0	7,009.6	7,000.0	6,996.7	55.3	1.9	91.65	-2,915.7	-627.3	1,196.2	1,139.7	56.55	21.153	
9,744.1	7,009.4	7,000.0	6,996.7	56.2	1.9	91.65	-2,915.7	-627.3	1,186.9	1,129.5	57.39	20.683	
9,800.0	7,009.3	7,000.0	6,996.7	57.2	1.9	91.65	-2,915.7	-627.3	1,177.3	1,118.9	58.45	20.144	
9,842.5	7,009.1	7,000.0	6,996.7	58.0	1.9	91.65	-2,915.7	-627.3	1,171.8	1,112.5	59.26	19.775	
9,900.0	7,008.9	7,000.0	6,996.7	59.1	1.9	91.65	-2,915.7	-627.3	1,166.7	1,106.4	60.35	19.333	
9,940.9	7,008.8	7,000.0	6,996.7	59.9	1.9	91.65	-2,915.7	-627.3	1,164.9	1,103.7	61.13	19.055	
9,974.2	7,008.7	7,000.0	6,996.7	60.5	1.9	91.65	-2,915.7	-627.3	1,164.4	1,102.6	61.76	18.852 CC	
10,000.0	7,008.6	7,000.0	6,996.7	61.0	1.9	91.65	-2,915.7	-627.3	1,164.7	1,102.4	62.26	18.708 ES	
10,039.3	7,008.5	7,000.0	6,996.7	61.7	1.9	91.65	-2,915.7	-627.3	1,166.2	1,103.2	63.01	18.509	
10,100.0	7,008.3	7,000.0	6,996.7	62.9	1.9	91.65	-2,915.7	-627.3	1,171.2	1,107.0	64.17	18.251	
10,137.8	7,008.2	7,000.0	6,996.7	63.6	1.9	91.65	-2,915.7	-627.3	1,175.8	1,110.9	64.89	18.120	
10,200.0	7,008.0	7,000.0	6,996.7	64.8	1.9	91.65	-2,915.7	-627.3	1,186.1	1,120.0	66.08	17.948	
10,236.2	7,007.9	7,000.0	6,996.7	65.5	1.9	91.65	-2,915.7	-627.3	1,193.5	1,126.7	66.78	17.873	
10,300.0	7,007.6	7,000.0	6,996.7	66.7	1.9	91.65	-2,915.7	-627.3	1,209.1	1,141.1	68.00	17.780	
10,334.6	7,007.5	7,000.0	6,996.7	67.3	1.9	91.65	-2,915.7	-627.3	1,218.9	1,150.2	68.67	17.750	
10,400.0	7,007.3	7,000.0	6,996.7	68.6	1.9	91.65	-2,915.7	-627.3	1,239.8	1,169.9	69.93	17.730 SF	
10,433.0	7,007.2	7,000.0	6,996.7	69.2	1.9	91.65	-2,915.7	-627.3	1,251.5	1,181.0	70.56	17.737	
10,500.0	7,007.0	7,000.0	6,996.7	70.5	1.9	91.65	-2,915.7	-627.3	1,277.6	1,205.8	71.85	17.781	
10,531.5	7,006.9	7,000.0	6,996.7	71.1	1.9	91.65	-2,915.7	-627.3	1,290.9	1,218.4	72.46	17.815	
10,600.0	7,006.7	7,000.0	6,996.7	72.4	1.9	91.65	-2,915.7	-627.3	1,321.9	1,248.1	73.78	17.917	
10,629.9	7,006.6	7,000.0	6,996.7	73.0	1.9	91.65	-2,915.7	-627.3	1,336.3	1,262.0	74.36	17.972	
10,700.0	7,006.4	7,000.0	6,996.7	74.3	1.9	91.65	-2,915.7	-627.3	1,372.1	1,296.4	75.71	18.122	
10,728.3	7,006.3	7,000.0	6,996.7	74.9	1.9	91.65	-2,915.7	-627.3	1,387.3	1,311.0	76.26	18.192	
10,800.0	7,006.0	7,000.0	6,996.7	76.3	1.9	91.65	-2,915.7	-627.3	1,427.5	1,349.9	77.65	18.385	
10,826.7	7,005.9	7,000.0	6,996.7	76.8	1.9	91.65	-2,915.7	-627.3	1,443.2	1,365.0	78.16	18.463	
10,900.0	7,005.7	7,000.0	6,996.7	78.2	1.9	91.65	-2,915.7	-627.3	1,487.6	1,408.0	79.58	18.693	
10,925.2	7,005.6	7,000.0	6,996.7	78.7	1.9	91.65	-2,915.7	-627.3	1,503.4	1,423.3	80.07	18.776	
11,000.0	7,005.4	7,000.0	6,996.7	80.1	1.9	91.65	-2,915.7	-627.3	1,551.8	1,470.3	81.52	19.036	
11,023.6	7,005.3	7,000.0	6,996.7	80.6	1.9	91.65	-2,915.7	-627.3	1,567.5	1,485.6	81.98	19.121	
11,100.0	7,005.1	7,000.0	6,996.7	82.0	1.9	91.65	-2,915.7	-627.3	1,619.7	1,536.2	83.46	19.406	
11,122.0	7,005.0	7,000.0	6,996.7	82.5	1.9	91.65	-2,915.7	-627.3	1,635.1	1,551.2	83.89	19.491	
11,200.0	7,004.7	7,000.0	6,996.7	84.0	1.9	91.65	-2,915.7	-627.3	1,690.7	1,605.3	85.40	19.797	
11,220.4	7,004.7	7,000.0	6,996.7	84.4	1.9	91.65	-2,915.7	-627.3	1,705.6	1,619.8	85.80	19.879	
11,300.0	7,004.4	7,000.0	6,996.7	85.9	1.9	91.65	-2,915.7	-627.3	1,764.6	1,677.2	87.35	20.202	
11,318.9	7,004.4	7,000.0	6,996.7	86.3	1.9	91.65	-2,915.7	-627.3	1,778.8	1,691.1	87.71	20.280	
11,400.0	7,004.1	7,000.0	6,996.7	87.8	1.9	91.65	-2,915.7	-627.3	1,840.9	1,751.6	89.29	20.617	
11,417.3	7,004.0	7,000.0	6,996.7	88.2	1.9	91.65	-2,915.7	-627.3	1,854.3	1,764.7	89.63	20.689	
11,500.0	7,003.8	7,000.0	6,996.7	89.8	1.9	91.65	-2,915.7	-627.3	1,919.4	1,828.1	91.24	21.037	
11,515.7	7,003.7	7,000.0	6,996.7	90.1	1.9	91.65	-2,915.7	-627.3	1,931.9	1,840.4	91.54	21.104	
11,600.0	7,003.4	7,000.0	6,996.7	91.7	1.9	91.65	-2,915.7	-627.3	1,999.8	1,906.6	93.19	21.460	
11,614.1	7,003.4	7,000.0	6,996.7	92.0	1.9	91.65	-2,915.7	-627.3	2,011.3	1,917.9	93.46	21.520	
11,700.0	7,003.1	7,000.0	6,996.7	93.7	1.9	91.65	-2,915.7	-627.3	2,081.9	1,986.8	95.13	21.884	
11,712.6	7,003.1	7,000.0	6,996.7	93.9	1.9	91.65	-2,915.7	-627.3	2,092.4	1,997.0	95.38	21.937	
11,800.0	7,002.8	7,000.0	6,996.7	95.6	1.9	91.65	-2,915.7	-627.3	2,165.5	2,068.5	97.09	22.306	
11,811.0	7,002.7	7,000.0	6,996.7	95.8	1.9	91.65	-2,915.7	-627.3	2,174.8	2,077.5	97.30	22.352	
11,900.0	7,002.5	7,000.0	6,996.7	97.6	1.9	91.65	-2,915.7	-627.3	2,250.5	2,151.5	99.04	22.724	
11,909.4	7,002.4	7,000.0	6,996.7	97.7	1.9	91.65	-2,915.7	-627.3	2,258.6	2,159.3	99.22	22.763	
12,000.0	7,002.1	7,000.0	6,996.7	99.5	1.9	91.65	-2,915.7	-627.3	2,336.6	2,235.7	100.99	23.137	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
12,007.8	7,002.1	7,000.0	6,996.7	99.7	1.9	91.65	-2,915.7	-627.3	2,343.5	2,242.3	101.14	23.170	
12,100.0	7,001.8	7,000.0	6,996.7	101.5	1.9	91.65	-2,915.7	-627.3	2,423.9	2,320.9	102.94	23.546	
12,106.3	7,001.8	7,000.0	6,996.7	101.6	1.9	91.65	-2,915.7	-627.3	2,429.4	2,326.3	103.07	23.571	
12,200.0	7,001.5	7,000.0	6,996.7	103.4	1.9	91.64	-2,915.7	-627.3	2,512.0	2,407.1	104.90	23.947	
12,204.7	7,001.5	7,000.0	6,996.7	103.5	1.9	91.64	-2,915.7	-627.3	2,516.2	2,411.2	104.99	23.966	
12,300.0	7,001.2	7,000.0	6,996.7	105.3	1.9	91.64	-2,915.7	-627.3	2,601.0	2,494.2	106.85	24.342	
12,303.1	7,001.1	7,000.0	6,996.7	105.4	1.9	91.64	-2,915.7	-627.3	2,603.8	2,496.9	106.91	24.354	
12,400.0	7,000.8	7,000.0	6,996.7	107.3	1.9	91.64	-2,915.7	-627.3	2,690.8	2,582.0	108.81	24.730	
12,401.5	7,000.8	7,000.0	6,996.7	107.3	1.9	91.64	-2,915.7	-627.3	2,692.2	2,583.4	108.84	24.736	
12,500.0	7,000.5	7,000.0	6,996.7	109.3	1.9	91.64	-2,915.7	-627.3	2,781.3	2,670.6	110.77	25.110	
12,598.4	7,000.2	7,000.0	6,996.7	111.2	1.9	91.64	-2,915.7	-627.3	2,871.0	2,758.3	112.69	25.476	
12,600.0	7,000.2	7,000.0	6,996.7	111.2	1.9	91.64	-2,915.7	-627.3	2,872.5	2,759.7	112.72	25.482	
12,696.8	6,999.8	7,000.0	6,996.7	113.1	1.9	91.64	-2,915.7	-627.3	2,961.2	2,846.6	114.62	25.835	
12,700.0	6,999.8	7,000.0	6,996.7	113.2	1.9	91.64	-2,915.7	-627.3	2,964.1	2,849.5	114.68	25.846	
12,795.2	6,999.5	7,000.0	6,996.7	115.0	1.9	91.64	-2,915.7	-627.3	3,052.0	2,935.4	116.55	26.186	
12,800.0	6,999.5	7,000.0	6,996.7	115.1	1.9	91.64	-2,915.7	-627.3	3,056.4	2,939.7	116.64	26.203	
12,893.7	6,999.2	7,000.0	6,996.7	116.9	1.9	91.64	-2,915.7	-627.3	3,143.2	3,024.7	118.48	26.529	
12,900.0	6,999.2	7,000.0	6,996.7	117.1	1.9	91.64	-2,915.7	-627.3	3,149.1	3,030.4	118.60	26.551	
12,992.1	6,998.9	7,000.0	6,996.7	118.9	1.9	91.64	-2,915.7	-627.3	3,234.8	3,114.4	120.41	26.865	
13,000.0	6,998.8	7,000.0	6,996.7	119.0	1.9	91.64	-2,915.7	-627.3	3,242.2	3,121.6	120.56	26.892	
13,090.5	6,998.6	7,000.0	6,996.7	120.8	1.9	91.64	-2,915.7	-627.3	3,326.8	3,204.5	122.34	27.194	
13,100.0	6,998.5	7,000.0	6,996.7	121.0	1.9	91.64	-2,915.7	-627.3	3,335.7	3,213.2	122.52	27.225	
13,188.9	6,998.2	7,000.0	6,996.7	122.7	1.9	91.64	-2,915.7	-627.3	3,419.2	3,294.9	124.27	27.514	
13,200.0	6,998.2	7,000.0	6,996.7	122.9	1.9	91.64	-2,915.7	-627.3	3,429.6	3,305.1	124.49	27.550	
13,287.4	6,997.9	7,000.0	6,996.7	124.6	1.9	91.64	-2,915.7	-627.3	3,511.9	3,385.7	126.20	27.828	
13,300.0	6,997.9	7,000.0	6,996.7	124.9	1.9	91.64	-2,915.7	-627.3	3,523.8	3,397.4	126.45	27.868	
13,385.8	6,997.6	7,000.0	6,996.7	126.6	1.9	91.64	-2,915.7	-627.3	3,604.9	3,476.8	128.13	28.134	
13,400.0	6,997.5	7,000.0	6,996.7	126.9	1.9	91.64	-2,915.7	-627.3	3,618.3	3,489.9	128.41	28.178	
13,484.2	6,997.3	7,000.0	6,996.7	128.5	1.9	91.64	-2,915.7	-627.3	3,698.2	3,568.1	130.06	28.434	
13,500.0	6,997.2	7,000.0	6,996.7	128.8	1.9	91.64	-2,915.7	-627.3	3,713.2	3,582.8	130.37	28.481	
13,582.6	6,996.9	7,000.0	6,996.7	130.4	1.9	91.64	-2,915.7	-627.3	3,791.7	3,659.7	132.00	28.726	
13,600.0	6,996.9	7,000.0	6,996.7	130.8	1.9	91.64	-2,915.7	-627.3	3,808.3	3,675.9	132.34	28.777	
13,681.1	6,996.6	7,000.0	6,996.7	132.4	1.9	91.64	-2,915.7	-627.3	3,885.5	3,751.6	133.93	29.012	
13,700.0	6,996.5	7,000.0	6,996.7	132.7	1.9	91.64	-2,915.7	-627.3	3,903.6	3,769.3	134.30	29.066	
13,779.5	6,996.3	7,000.0	6,996.7	134.3	1.9	91.64	-2,915.7	-627.3	3,979.5	3,843.7	135.86	29.291	
13,800.0	6,996.2	7,000.0	6,996.7	134.7	1.9	91.64	-2,915.7	-627.3	3,999.1	3,862.9	136.27	29.348	
13,877.9	6,995.9	7,000.0	6,996.7	136.2	1.9	91.64	-2,915.7	-627.3	4,073.8	3,936.0	137.80	29.563	
13,900.0	6,995.9	7,000.0	6,996.7	136.7	1.9	91.64	-2,915.7	-627.3	4,094.9	3,956.7	138.23	29.624	
13,976.3	6,995.6	7,000.0	6,996.7	138.2	1.9	91.64	-2,915.7	-627.3	4,168.2	4,028.4	139.73	29.830	
14,000.0	6,995.5	7,000.0	6,996.7	138.6	1.9	91.64	-2,915.7	-627.3	4,190.9	4,050.7	140.20	29.893	
14,074.8	6,995.3	7,000.0	6,996.7	140.1	1.9	91.64	-2,915.7	-627.3	4,262.8	4,121.1	141.67	30.090	
14,100.0	6,995.2	7,000.0	6,996.7	140.6	1.9	91.64	-2,915.7	-627.3	4,287.0	4,144.9	142.16	30.156	
14,162.0	6,995.0	7,000.0	6,996.7	141.8	1.9	91.64	-2,915.7	-627.3	4,346.8	4,203.4	143.34	30.324	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-101.92	-193.1	-914.6	935.0				
98.4	98.4	73.6	73.6	0.1	0.1	-101.92	-193.0	-914.6	934.7	934.6	0.17	5,411.073 CC	
100.0	100.0	75.2	75.2	0.1	0.1	-101.92	-193.0	-914.6	934.7	934.5	0.18	5,306.117	
196.8	196.8	171.7	171.7	0.3	0.2	-101.91	-192.9	-914.6	934.8	934.3	0.50	1,887.982	
200.0	200.0	174.8	174.8	0.3	0.2	-101.91	-192.9	-914.7	934.8	934.3	0.51	1,849.240	
295.3	295.3	269.7	269.7	0.5	0.3	-101.90	-192.7	-914.8	934.9	934.1	0.82	1,141.106	
300.0	300.0	274.4	274.4	0.5	0.3	-101.90	-192.7	-914.8	934.9	934.0	0.83	1,119.843	
393.7	393.7	367.7	367.7	0.8	0.4	-101.88	-192.5	-915.0	935.0	933.9	1.14	817.731	
400.0	400.0	374.0	374.0	0.8	0.4	-101.88	-192.5	-915.0	935.0	933.8	1.16	803.166	
492.1	492.1	465.8	465.8	1.0	0.5	-101.85	-192.1	-915.2	935.2	933.7	1.47	637.235	
500.0	500.0	473.6	473.6	1.0	0.5	-101.85	-192.1	-915.3	935.2	933.7	1.49	626.180	
590.5	590.5	563.8	563.8	1.2	0.6	-101.82	-191.7	-915.5	935.4	933.6	1.79	522.071	
600.0	600.0	573.2	573.2	1.2	0.6	-101.82	-191.6	-915.6	935.4	933.6	1.82	513.170	
689.0	689.0	659.3	659.3	1.4	0.8	-101.79	-191.2	-916.0	935.7	933.6	2.18	429.184 ES	
700.0	700.0	669.8	669.8	1.4	0.8	-101.79	-191.1	-916.1	935.8	933.6	2.23	420.015	
787.4	787.4	755.0	755.0	1.6	1.0	-101.76	-190.8	-916.8	936.5	933.9	2.60	360.053	
800.0	800.0	767.4	767.4	1.7	1.0	-101.75	-190.8	-916.9	936.6	933.9	2.65	352.864	
885.8	885.8	851.6	851.5	1.9	1.2	-101.74	-190.8	-917.7	937.4	934.4	3.02	310.341	
900.0	900.0	865.4	865.4	1.9	1.2	-101.74	-190.8	-917.9	937.5	934.5	3.08	304.262	
984.2	984.2	947.0	947.0	2.1	1.4	-101.73	-190.8	-918.9	938.5	935.1	3.45	272.383	
1,000.0	1,000.0	962.1	962.1	2.1	1.4	-101.73	-190.8	-919.1	938.8	935.2	3.51	267.137	
1,082.7	1,082.7	1,043.7	1,043.7	2.3	1.6	-101.73	-191.1	-920.3	940.0	936.2	3.87	242.755	
1,100.0	1,100.0	1,061.2	1,061.2	2.3	1.6	-101.73	-191.2	-920.5	940.3	936.4	3.95	238.220	
1,181.1	1,181.1	1,142.0	1,142.0	2.5	1.8	-164.34	-191.9	-921.6	942.6	938.3	4.28	219.994	
1,200.0	1,200.0	1,160.6	1,160.6	2.6	1.8	-164.35	-192.1	-921.9	943.5	939.1	4.36	216.228	
1,279.5	1,279.4	1,239.6	1,239.6	2.7	2.0	-164.43	-193.1	-923.0	948.5	943.8	4.69	202.183	
1,300.0	1,299.8	1,260.2	1,260.1	2.8	2.0	-164.46	-193.4	-923.3	950.2	945.4	4.78	198.961	
1,377.9	1,377.5	1,337.9	1,337.8	3.0	2.2	-164.56	-194.3	-924.3	957.6	952.5	5.10	187.848	
1,400.0	1,399.5	1,359.7	1,359.6	3.0	2.2	-164.60	-194.6	-924.6	960.1	954.9	5.19	185.055	
1,476.4	1,475.3	1,437.0	1,436.9	3.2	2.4	-164.73	-195.5	-925.7	970.0	964.5	5.51	176.162	
1,500.0	1,498.7	1,461.5	1,461.4	3.2	2.4	-164.77	-195.7	-926.0	973.4	967.8	5.60	173.687	
1,574.8	1,572.6	1,536.5	1,536.4	3.5	2.6	-164.92	-196.4	-926.7	985.3	979.4	5.91	166.593	
1,600.0	1,597.5	1,560.9	1,560.8	3.5	2.6	-164.97	-196.6	-927.0	989.7	983.7	6.02	164.517	
1,673.2	1,669.4	1,631.5	1,631.4	3.7	2.8	-165.11	-197.1	-927.8	1,003.8	997.5	6.31	158.963	
1,700.0	1,695.7	1,657.3	1,657.2	3.8	2.8	-165.16	-197.2	-928.1	1,009.5	1,003.0	6.42	157.182	
1,771.6	1,765.7	1,726.0	1,725.9	4.1	3.0	-165.37	-197.4	-929.1	1,024.9	1,018.2	6.73	152.249	
1,800.0	1,793.4	1,753.2	1,753.1	4.2	3.0	-165.45	-197.5	-929.5	1,031.0	1,024.2	6.85	150.442	
1,870.1	1,862.0	1,820.4	1,820.3	4.4	3.2	-165.63	-197.5	-930.6	1,046.2	1,039.1	7.16	146.115	
1,900.0	1,891.3	1,849.1	1,849.0	4.5	3.2	-165.70	-197.5	-931.1	1,052.8	1,045.5	7.29	144.418	
1,968.5	1,958.3	1,914.8	1,914.7	4.8	3.4	-165.86	-197.3	-932.3	1,067.8	1,060.2	7.59	140.646	
2,000.0	1,989.1	1,945.0	1,944.9	4.9	3.4	-165.93	-197.2	-932.9	1,074.7	1,066.9	7.73	139.023	
2,066.9	2,054.5	2,009.3	2,009.1	5.2	3.6	-166.07	-196.8	-934.3	1,089.4	1,081.4	8.03	135.716	
2,100.0	2,086.9	2,041.5	2,041.4	5.3	3.6	-166.14	-196.6	-935.0	1,096.7	1,088.6	8.18	134.138	
2,165.3	2,150.8	2,105.2	2,105.0	5.6	3.8	-166.27	-196.2	-936.3	1,111.2	1,102.7	8.47	131.170	
2,200.0	2,184.7	2,138.9	2,138.7	5.7	3.9	-166.34	-196.0	-937.0	1,118.8	1,110.2	8.63	129.678	
2,263.8	2,247.1	2,201.0	2,200.8	5.9	4.0	-166.46	-195.6	-938.4	1,132.9	1,124.0	8.92	127.048	
2,300.0	2,282.5	2,236.3	2,236.1	6.1	4.1	-166.53	-195.4	-939.1	1,140.9	1,131.9	9.08	125.630	
2,362.2	2,343.4	2,296.9	2,296.6	6.4	4.2	-166.64	-195.0	-940.4	1,154.7	1,145.3	9.37	123.294	
2,400.0	2,380.3	2,333.7	2,333.4	6.5	4.3	-166.71	-194.8	-941.2	1,163.1	1,153.5	9.54	121.944	
2,460.6	2,439.6	2,392.7	2,392.5	6.8	4.4	-166.82	-194.5	-942.5	1,176.5	1,166.7	9.82	119.864	
2,500.0	2,478.1	2,431.1	2,430.8	6.9	4.5	-166.89	-194.3	-943.3	1,185.2	1,175.2	10.00	118.577	
2,559.0	2,535.9	2,488.6	2,488.3	7.2	4.6	-166.99	-194.0	-944.5	1,198.3	1,188.0	10.27	116.720	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,528.6	2,528.3	7.4	4.7	-167.06	-193.7	-945.4	1,207.4	1,196.9	10.45	115.490	
2,657.5	2,632.2	2,584.9	2,584.6	7.6	4.8	-167.16	-193.4	-946.5	1,220.1	1,209.4	10.72	113.826	
2,700.0	2,673.8	2,626.5	2,626.2	7.8	4.9	-167.23	-193.2	-947.4	1,229.5	1,218.6	10.91	112.649	
2,755.9	2,728.4	2,681.3	2,680.9	8.0	5.0	-167.32	-192.8	-948.6	1,241.9	1,230.7	11.17	111.156	
2,800.0	2,771.6	2,724.5	2,724.1	8.2	5.1	-167.39	-192.5	-949.5	1,251.7	1,240.3	11.38	110.027	
2,854.3	2,824.7	2,777.7	2,777.3	8.4	5.2	-167.47	-192.2	-950.6	1,263.7	1,252.0	11.63	108.684	
2,900.0	2,869.4	2,822.4	2,822.1	8.6	5.3	-167.54	-191.8	-951.5	1,273.8	1,261.9	11.84	107.598	
2,952.7	2,921.0	2,874.1	2,873.7	8.9	5.4	-167.61	-191.4	-952.6	1,285.4	1,273.3	12.08	106.385	
3,000.0	2,967.2	2,920.4	2,920.0	9.1	5.5	-167.68	-191.0	-953.5	1,295.8	1,283.5	12.30	105.340	
3,051.2	3,017.3	2,970.6	2,970.2	9.3	5.6	-167.75	-190.6	-954.6	1,307.1	1,294.6	12.54	104.244	
3,100.0	3,065.0	3,019.9	3,019.5	9.5	5.7	-167.81	-190.2	-955.5	1,317.8	1,305.1	12.77	103.209	
3,149.6	3,113.5	3,072.6	3,072.2	9.7	5.8	-167.89	-189.7	-956.5	1,328.6	1,315.6	13.01	102.140	
3,200.0	3,162.8	3,126.2	3,125.7	9.9	5.9	-167.96	-189.2	-957.2	1,339.4	1,326.2	13.25	101.082	
3,248.0	3,209.8	3,177.3	3,176.8	10.2	6.0	-168.03	-188.8	-957.7	1,349.6	1,336.1	13.48	100.095	
3,300.0	3,260.7	3,232.7	3,232.2	10.4	6.2	-168.11	-188.4	-958.1	1,360.4	1,346.7	13.73	99.053	
3,346.4	3,306.1	3,282.2	3,281.8	10.6	6.3	-168.18	-188.0	-958.3	1,369.9	1,355.9	13.96	98.140	
3,400.0	3,358.5	3,339.5	3,339.0	10.8	6.4	-168.27	-187.5	-958.3	1,380.7	1,366.5	14.22	97.112	
3,444.9	3,402.4	3,387.5	3,387.0	11.0	6.5	-168.34	-187.1	-958.2	1,389.6	1,375.2	14.44	96.267	
3,500.0	3,456.3	3,446.5	3,446.1	11.3	6.6	-168.43	-186.7	-957.8	1,400.4	1,385.7	14.70	95.251	
3,543.3	3,498.6	3,492.9	3,492.5	11.5	6.7	-168.50	-186.3	-957.3	1,408.8	1,393.8	14.91	94.468	
3,600.0	3,554.1	3,547.5	3,547.1	11.7	6.8	-168.59	-185.9	-956.7	1,419.6	1,404.4	15.18	93.546	
3,641.7	3,594.9	3,587.1	3,586.7	11.9	6.9	-168.64	-185.6	-956.3	1,427.6	1,412.3	15.37	92.896	
3,700.0	3,651.9	3,642.4	3,641.9	12.2	7.0	-168.72	-185.2	-955.8	1,438.9	1,423.3	15.64	92.021	
3,740.1	3,691.2	3,680.4	3,679.9	12.3	7.1	-168.78	-184.8	-955.5	1,446.7	1,430.9	15.82	91.437	
3,800.0	3,749.7	3,737.1	3,736.6	12.6	7.2	-168.85	-184.3	-955.2	1,458.4	1,442.3	16.10	90.597	
3,838.6	3,787.5	3,773.6	3,773.1	12.8	7.3	-168.90	-184.0	-955.0	1,466.0	1,449.8	16.28	90.072	
3,900.0	3,847.5	3,831.7	3,831.2	13.0	7.4	-168.97	-183.5	-954.8	1,478.2	1,461.7	16.56	89.265	
3,937.0	3,883.7	3,866.7	3,866.2	13.2	7.5	-169.02	-183.1	-954.7	1,485.6	1,468.9	16.73	88.794	
4,000.0	3,945.4	3,926.3	3,925.8	13.5	7.6	-169.09	-182.5	-954.7	1,498.2	1,481.2	17.02	88.019	
4,035.4	3,980.0	3,959.8	3,959.3	13.7	7.7	-169.13	-182.1	-954.7	1,505.3	1,488.2	17.19	87.596	
4,068.9	4,012.7	4,000.0	3,999.5	13.8	7.8	-169.17	-181.7	-954.7	1,512.1	1,494.8	17.36	87.120	
4,100.0	4,043.2	4,022.3	4,021.8	13.9	7.8	-169.22	-181.4	-954.7	1,518.3	1,500.8	17.50	86.767	
4,133.8	4,076.4	4,056.6	4,056.1	14.0	7.9	-169.27	-181.0	-954.8	1,524.5	1,506.9	17.66	86.318	
4,200.0	4,141.6	4,123.9	4,123.4	14.2	8.0	-169.36	-180.1	-954.8	1,535.7	1,517.7	17.98	85.418	
4,232.3	4,173.4	4,156.9	4,156.4	14.3	8.1	-169.40	-179.6	-954.8	1,540.5	1,522.4	18.13	84.983	
4,300.0	4,240.5	4,226.3	4,225.7	14.5	8.2	-169.45	-178.4	-954.8	1,549.5	1,531.0	18.44	84.049	
4,330.7	4,271.0	4,257.8	4,257.2	14.6	8.3	-169.47	-177.8	-954.7	1,553.0	1,534.4	18.57	83.631	
4,400.0	4,339.9	4,329.0	4,328.5	14.8	8.5	-169.50	-176.3	-954.6	1,559.7	1,540.8	18.87	82.663	
4,429.1	4,368.9	4,359.1	4,358.5	14.8	8.5	-169.50	-175.7	-954.5	1,561.9	1,543.0	18.99	82.261	
4,500.0	4,439.6	4,432.2	4,431.6	15.0	8.7	-169.49	-173.9	-954.3	1,566.2	1,546.9	19.27	81.260	
4,527.5	4,467.1	4,460.6	4,460.1	15.0	8.7	-169.48	-173.2	-954.2	1,567.4	1,548.0	19.38	80.875	
4,600.0	4,539.5	4,537.0	4,536.4	15.1	8.9	-169.44	-171.2	-953.9	1,569.1	1,549.5	19.66	79.830	
4,626.0	4,565.4	4,565.1	4,564.5	15.2	9.0	-169.42	-170.5	-953.7	1,569.2	1,549.5	19.75	79.450	
4,668.9	4,608.4	4,611.4	4,610.8	15.2	9.1	-106.82	-169.4	-953.2	1,568.9	1,549.0	19.90	78.837	
4,700.0	4,639.5	4,645.0	4,644.3	15.3	9.1	-106.80	-168.6	-952.8	1,568.3	1,548.3	20.03	78.307	
4,724.4	4,663.9	4,671.3	4,670.7	15.3	9.2	-106.78	-168.0	-952.5	1,567.8	1,547.7	20.13	77.881	
4,800.0	4,739.5	4,752.9	4,752.2	15.4	9.4	-106.74	-166.3	-951.1	1,566.2	1,545.7	20.45	76.583	
4,822.8	4,762.3	4,777.5	4,776.8	15.4	9.4	-106.73	-165.9	-950.6	1,565.6	1,545.1	20.55	76.195	
4,900.0	4,839.5	4,860.8	4,860.1	15.6	9.6	-106.70	-164.4	-948.7	1,563.6	1,542.7	20.87	74.903	
4,921.2	4,860.7	4,883.7	4,883.0	15.6	9.6	-106.69	-164.1	-948.1	1,562.9	1,542.0	20.96	74.551	
5,000.0	4,939.5	4,968.7	4,967.9	15.7	9.8	-106.68	-162.9	-945.6	1,560.4	1,539.1	21.30	73.265	
5,019.7	4,959.1	4,989.9	4,989.1	15.7	9.8	-106.67	-162.7	-945.0	1,559.7	1,538.4	21.38	72.947	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,100.0	5,039.5	5,068.1	5,067.3	15.9	10.0	-106.67	-161.8	-942.4	1,557.0	1,535.3	21.70	71.744	
5,118.1	5,057.6	5,085.5	5,084.6	15.9	10.0	-106.67	-161.6	-941.8	1,556.4	1,534.6	21.77	71.480	
5,200.0	5,139.5	5,164.1	5,163.2	16.0	10.2	-106.67	-160.8	-939.4	1,553.7	1,531.6	22.10	70.312	
5,216.5	5,156.0	5,180.0	5,179.1	16.0	10.2	-106.67	-160.6	-939.0	1,553.2	1,531.1	22.16	70.081	
5,300.0	5,239.5	5,260.1	5,259.2	16.2	10.4	-106.66	-159.9	-936.7	1,550.8	1,528.3	22.49	68.939	
5,314.9	5,254.4	5,274.5	5,273.5	16.2	10.4	-106.66	-159.8	-936.3	1,550.3	1,527.8	22.55	68.738	
5,400.0	5,339.5	5,356.1	5,355.2	16.3	10.6	-106.66	-159.1	-934.2	1,548.0	1,525.1	22.89	67.621	
5,413.4	5,352.8	5,369.0	5,368.0	16.3	10.6	-106.66	-159.0	-933.9	1,547.7	1,524.7	22.95	67.449	
5,500.0	5,439.5	5,452.2	5,451.2	16.5	10.8	-106.66	-158.3	-932.0	1,545.6	1,522.3	23.29	66.358	
5,511.8	5,451.3	5,463.5	5,462.5	16.5	10.8	-106.66	-158.3	-931.7	1,545.3	1,521.9	23.34	66.212	
5,600.0	5,539.5	5,549.2	5,548.2	16.6	11.0	-106.66	-157.7	-929.9	1,543.3	1,519.6	23.69	65.139	
5,610.2	5,549.7	5,559.2	5,558.2	16.6	11.0	-106.66	-157.7	-929.7	1,543.1	1,519.4	23.73	65.016	
5,700.0	5,639.5	5,647.2	5,646.1	16.8	11.2	-106.66	-157.3	-927.9	1,541.2	1,517.1	24.10	63.959	
5,708.6	5,648.1	5,655.6	5,654.6	16.8	11.2	-106.67	-157.3	-927.7	1,541.1	1,516.9	24.13	63.859	
5,800.0	5,739.5	5,745.1	5,744.1	17.0	11.4	-106.68	-157.1	-926.0	1,539.3	1,514.8	24.50	62.822	
5,807.1	5,746.5	5,752.1	5,751.0	17.0	11.4	-106.68	-157.1	-925.8	1,539.2	1,514.6	24.53	62.743	
5,900.0	5,839.5	5,843.1	5,842.0	17.1	11.6	-106.70	-157.1	-924.1	1,537.5	1,512.6	24.91	61.726	
5,905.5	5,845.0	5,848.5	5,847.4	17.1	11.6	-106.70	-157.1	-924.0	1,537.4	1,512.4	24.93	61.667	
6,000.0	5,939.5	5,941.1	5,940.0	17.3	11.8	-106.73	-157.4	-922.3	1,535.8	1,510.5	25.31	60.669	
6,003.9	5,943.4	5,944.9	5,943.8	17.3	11.8	-106.73	-157.4	-922.2	1,535.7	1,510.4	25.33	60.628	
6,100.0	6,039.5	6,039.9	6,038.8	17.4	12.0	-106.76	-157.9	-920.5	1,534.2	1,508.5	25.72	59.643	
6,102.3	6,041.8	6,042.3	6,041.2	17.4	12.0	-106.76	-157.9	-920.5	1,534.2	1,508.4	25.73	59.619	
6,200.0	6,139.5	6,140.0	6,138.9	17.6	12.2	-106.80	-158.4	-918.7	1,532.6	1,506.5	26.14	58.639	
6,200.8	6,140.2	6,140.8	6,139.6	17.6	12.2	-106.80	-158.4	-918.7	1,532.6	1,506.5	26.14	58.632	
6,299.2	6,238.7	6,239.3	6,238.1	17.8	12.4	-106.84	-158.8	-917.0	1,531.1	1,504.5	26.55	57.673	
6,300.0	6,239.5	6,240.1	6,238.9	17.8	12.4	-106.84	-158.8	-917.0	1,531.1	1,504.5	26.55	57.665	
6,360.9	6,300.4	6,301.1	6,299.9	17.9	12.5	-106.86	-159.1	-915.9	1,530.1	1,503.3	26.80	57.085	
6,397.6	6,337.1	6,337.8	6,336.6	17.9	12.6	73.02	-159.3	-915.2	1,529.3	1,502.3	26.93	56.779	
6,400.0	6,339.5	6,340.2	6,339.0	17.9	12.6	73.03	-159.3	-915.2	1,529.2	1,502.3	26.94	56.759	
6,450.0	6,389.2	6,390.0	6,388.8	18.0	12.7	73.33	-159.5	-914.3	1,527.1	1,500.0	27.09	56.366	
6,496.0	6,434.7	6,435.5	6,434.4	18.0	12.8	73.78	-159.7	-913.5	1,524.3	1,497.1	27.22	55.994	
6,500.0	6,438.6	6,439.4	6,438.3	18.0	12.8	73.83	-159.7	-913.4	1,524.0	1,496.8	27.23	55.961	
6,550.0	6,487.3	6,488.2	6,487.0	18.0	12.9	74.53	-159.9	-912.6	1,520.1	1,492.7	27.37	55.541	
6,594.5	6,529.8	6,532.4	6,531.2	18.0	13.0	75.31	-160.0	-911.8	1,515.8	1,488.3	27.49	55.140	
6,600.0	6,535.1	6,537.9	6,536.7	18.1	13.0	75.42	-160.1	-911.7	1,515.2	1,487.7	27.51	55.088	
6,650.0	6,581.7	6,586.9	6,585.7	18.0	13.1	76.50	-160.2	-910.7	1,509.6	1,481.9	27.65	54.604	
6,692.9	6,620.6	6,627.8	6,626.6	18.0	13.2	77.55	-160.3	-909.9	1,504.2	1,476.5	27.77	54.166	
6,700.0	6,626.9	6,634.5	6,633.3	18.0	13.2	77.74	-160.3	-909.7	1,503.3	1,475.5	27.79	54.091	
6,750.0	6,670.6	6,680.3	6,679.1	18.0	13.3	79.11	-160.3	-908.7	1,496.6	1,468.6	27.95	53.552	
6,791.3	6,705.4	6,716.7	6,715.5	18.0	13.4	80.31	-160.3	-907.9	1,490.7	1,462.7	28.08	53.087	
6,800.0	6,712.5	6,724.2	6,723.0	18.0	13.4	80.57	-160.3	-907.7	1,489.5	1,461.4	28.11	52.990	
6,850.0	6,752.3	6,765.9	6,764.7	18.0	13.5	82.11	-160.2	-906.7	1,482.4	1,454.1	28.28	52.413	
6,889.7	6,782.5	6,797.4	6,796.2	18.0	13.6	83.36	-160.2	-905.9	1,476.7	1,448.3	28.43	51.947	
6,900.0	6,790.0	6,805.3	6,804.1	18.0	13.6	83.68	-160.2	-905.7	1,475.3	1,446.9	28.46	51.832	
6,950.0	6,825.3	6,842.1	6,840.8	18.0	13.7	85.23	-160.1	-904.7	1,468.6	1,440.0	28.65	51.253	
6,988.2	6,850.5	6,868.4	6,867.1	17.9	13.7	86.39	-160.0	-904.0	1,463.9	1,435.1	28.81	50.813	
7,000.0	6,858.0	6,876.2	6,874.9	17.9	13.8	86.74	-159.9	-903.7	1,462.5	1,433.7	28.85	50.686	
7,050.0	6,888.0	6,907.3	6,906.0	18.0	13.8	88.15	-159.8	-902.9	1,457.2	1,428.1	29.07	50.134	
7,086.6	6,908.1	6,928.2	6,926.9	18.0	13.9	89.10	-159.7	-902.2	1,453.9	1,424.7	29.23	49.734	
7,100.0	6,915.1	6,935.4	6,934.1	18.0	13.9	89.43	-159.7	-902.0	1,452.9	1,423.6	29.29	49.598	
7,150.0	6,939.2	6,960.4	6,959.0	18.0	13.9	90.54	-159.5	-901.3	1,449.7	1,420.2	29.54	49.078	
7,185.0	6,954.3	6,975.9	6,974.5	18.1	14.0	91.21	-159.5	-900.8	1,448.4	1,418.6	29.73	48.712	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
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
7,200.0	6,960.3	6,982.0	6,980.7	18.1	14.0	91.46	-159.4	-900.6	1,448.0	1,418.2	29.81	48.569	
7,230.4	6,971.5	6,993.5	6,992.2	18.2	14.0	91.91	-159.3	-900.3	1,447.7	1,417.7	30.00	48.254	
7,250.0	6,978.1	7,000.0	6,998.7	18.3	14.0	92.14	-159.3	-900.1	1,447.9	1,417.7	30.12	48.069	
7,283.4	6,988.2	7,000.0	6,998.7	18.4	14.0	92.07	-159.3	-900.1	1,448.7	1,418.4	30.33	47.769	
7,300.0	6,992.6	7,000.0	6,998.7	18.4	14.0	92.01	-159.3	-900.1	1,449.4	1,419.0	30.43	47.632	
7,350.0	7,003.7	7,000.0	6,998.7	18.7	14.0	91.74	-159.3	-900.1	1,452.8	1,422.1	30.79	47.193	
7,381.9	7,009.1	7,000.0	6,998.7	18.9	14.0	91.49	-159.3	-900.1	1,456.0	1,424.9	31.04	46.909	
7,400.0	7,011.4	7,028.9	7,027.6	19.0	14.1	92.46	-159.1	-899.2	1,457.8	1,426.5	31.26	46.637	
7,450.0	7,015.7	7,032.3	7,031.0	19.3	14.1	92.03	-159.1	-899.1	1,464.7	1,433.0	31.71	46.196	
7,480.3	7,016.6	7,032.9	7,031.5	19.6	14.1	91.64	-159.1	-899.1	1,469.7	1,437.7	31.99	45.944	
7,488.2	7,016.6	7,032.8	7,031.5	19.6	14.1	91.53	-159.1	-899.1	1,471.2	1,439.1	32.06	45.884	
7,500.0	7,016.6	7,032.7	7,031.4	19.7	14.1	91.52	-159.1	-899.1	1,473.4	1,441.2	32.18	45.789	
7,578.7	7,016.3	7,031.9	7,030.6	20.5	14.1	91.49	-159.1	-899.1	1,490.4	1,457.4	33.00	45.159	
7,600.0	7,016.2	7,031.7	7,030.3	20.7	14.1	91.48	-159.1	-899.1	1,495.7	1,462.5	33.23	45.014	
7,677.1	7,016.0	7,000.0	6,998.7	21.6	14.0	90.23	-159.3	-900.1	1,517.6	1,483.5	34.04	44.585	
7,700.0	7,015.9	7,000.0	6,998.7	21.8	14.0	90.23	-159.3	-900.1	1,524.6	1,490.3	34.31	44.439	
7,775.6	7,015.7	7,000.0	6,998.7	22.7	14.0	90.23	-159.3	-900.1	1,550.1	1,514.8	35.29	43.924	
7,800.0	7,015.6	7,000.0	6,998.7	23.0	14.0	90.23	-159.3	-900.1	1,559.1	1,523.5	35.61	43.784	
7,874.0	7,015.4	7,000.0	6,998.7	24.0	14.0	90.23	-159.3	-900.1	1,588.1	1,551.5	36.64	43.341	
7,900.0	7,015.3	7,000.0	6,998.7	24.4	14.0	90.23	-159.3	-900.1	1,599.0	1,562.0	37.01	43.210	
7,972.4	7,015.1	7,000.0	6,998.7	25.4	14.0	90.23	-159.3	-900.1	1,631.2	1,593.1	38.08	42.841	
8,000.0	7,015.0	7,000.0	6,998.7	25.8	14.0	90.23	-159.3	-900.1	1,644.1	1,605.6	38.48	42.723	
8,070.8	7,014.8	7,000.0	6,998.7	26.8	14.0	90.23	-159.3	-900.1	1,678.9	1,639.4	39.58	42.421	
8,100.0	7,014.7	7,000.0	6,998.7	27.3	14.0	90.23	-159.3	-900.1	1,693.9	1,653.9	40.03	42.319	
8,169.3	7,014.4	7,000.0	6,998.7	28.3	14.0	90.23	-159.3	-900.1	1,731.0	1,689.8	41.14	42.079	
8,200.0	7,014.4	7,000.0	6,998.7	28.8	14.0	90.23	-159.3	-900.1	1,748.0	1,706.4	41.63	41.992	
8,267.7	7,014.1	7,000.0	6,998.7	29.9	14.0	90.23	-159.3	-900.1	1,786.9	1,744.1	42.74	41.806	
8,300.0	7,014.0	7,000.0	6,998.7	30.4	14.0	90.23	-159.3	-900.1	1,806.0	1,762.8	43.27	41.735	
8,366.1	7,013.8	7,000.0	6,998.7	31.5	14.0	90.23	-159.3	-900.1	1,846.4	1,802.0	44.39	41.596	
8,400.0	7,013.7	7,000.0	6,998.7	32.0	14.0	90.23	-159.3	-900.1	1,867.6	1,822.7	44.96	41.540	
8,464.5	7,013.5	7,000.0	6,998.7	33.1	14.0	90.23	-159.3	-900.1	1,909.1	1,863.0	46.07	41.440	
8,500.0	7,013.4	7,000.0	6,998.7	33.7	14.0	90.23	-159.3	-900.1	1,932.4	1,885.7	46.68	41.399	
8,563.0	7,013.2	7,000.0	6,998.7	34.8	14.0	90.23	-159.3	-900.1	1,974.7	1,926.9	47.78	41.332	
8,600.0	7,013.1	7,000.0	6,998.7	35.4	14.0	90.23	-159.3	-900.1	2,000.1	1,951.7	48.42	41.304	
8,661.4	7,012.9	7,000.0	6,998.7	36.5	14.0	90.23	-159.3	-900.1	2,043.0	1,993.5	49.51	41.263	
8,700.0	7,012.8	7,000.0	6,998.7	37.1	14.0	90.23	-159.3	-900.1	2,070.4	2,020.2	50.19	41.248	
8,759.8	7,012.6	7,000.0	6,998.7	38.2	14.0	90.23	-159.3	-900.1	2,113.6	2,062.4	51.27	41.229	
8,800.0	7,012.4	7,000.0	6,998.7	38.9	14.0	90.23	-159.3	-900.1	2,143.1	2,091.1	51.99	41.225	
8,858.2	7,012.3	7,000.0	6,998.7	39.9	14.0	90.23	-159.3	-900.1	2,186.4	2,133.4	53.04	41.223 SF	
8,900.0	7,012.1	7,000.0	6,998.7	40.7	14.0	90.22	-159.3	-900.1	2,217.9	2,164.1	53.79	41.230	
8,956.7	7,011.9	7,000.0	6,998.7	41.7	14.0	90.22	-159.3	-900.1	2,261.2	2,206.3	54.83	41.241	
9,000.0	7,011.8	7,000.0	6,998.7	42.4	14.0	90.22	-159.3	-900.1	2,294.6	2,239.0	55.62	41.257	
9,055.1	7,011.6	7,000.0	6,998.7	43.4	14.0	90.22	-159.3	-900.1	2,337.7	2,281.0	56.63	41.279	
9,100.0	7,011.5	7,000.0	6,998.7	44.2	14.0	90.22	-159.3	-900.1	2,373.1	2,315.6	57.46	41.303	
9,153.5	7,011.3	7,000.0	6,998.7	45.2	14.0	90.22	-159.3	-900.1	2,415.7	2,357.3	58.45	41.333	
9,200.0	7,011.2	7,000.0	6,998.7	46.1	14.0	90.22	-159.3	-900.1	2,453.1	2,393.8	59.31	41.364	
9,251.9	7,011.0	7,000.0	6,998.7	47.0	14.0	90.22	-159.3	-900.1	2,495.3	2,435.0	60.27	41.400	
9,300.0	7,010.9	7,000.0	6,998.7	47.9	14.0	90.22	-159.3	-900.1	2,534.6	2,473.4	61.17	41.437	
9,350.4	7,010.7	7,000.0	6,998.7	48.8	14.0	90.22	-159.3	-900.1	2,576.1	2,514.0	62.11	41.478	
9,400.0	7,010.5	7,000.0	6,998.7	49.7	14.0	90.22	-159.3	-900.1	2,617.3	2,554.3	63.04	41.521	
9,448.8	7,010.4	7,000.0	6,998.7	50.6	14.0	90.22	-159.3	-900.1	2,658.1	2,594.1	63.95	41.564	
9,500.0	7,010.2	7,000.0	6,998.7	51.6	14.0	90.22	-159.3	-900.1	2,701.2	2,636.3	64.91	41.612	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,547.2	7,010.1	7,000.0	6,998.7	52.5	14.0	90.22	-159.3	-900.1	2,741.2	2,675.4	65.80	41.657	
9,600.0	7,009.9	7,000.0	6,998.7	53.5	14.0	90.22	-159.3	-900.1	2,786.2	2,719.4	66.80	41.710	
9,645.6	7,009.8	7,000.0	6,998.7	54.3	14.0	90.22	-159.3	-900.1	2,825.3	2,757.6	67.66	41.755	
9,700.0	7,009.6	7,000.0	6,998.7	55.3	14.0	90.22	-159.3	-900.1	2,872.1	2,803.4	68.69	41.812	
9,744.1	7,009.4	7,000.0	6,998.7	56.2	14.0	90.22	-159.3	-900.1	2,910.2	2,840.7	69.53	41.858	
9,800.0	7,009.3	7,000.0	6,998.7	57.2	14.0	90.22	-159.3	-900.1	2,958.9	2,888.3	70.59	41.918	
9,842.5	7,009.1	7,000.0	6,998.7	58.0	14.0	90.22	-159.3	-900.1	2,996.0	2,924.7	71.40	41.963	
9,900.0	7,008.9	7,000.0	6,998.7	59.1	14.0	90.22	-159.3	-900.1	3,046.5	2,974.0	72.49	42.026	
9,940.9	7,008.8	7,000.0	6,998.7	59.9	14.0	90.22	-159.3	-900.1	3,082.6	3,009.3	73.27	42.070	
10,000.0	7,008.6	7,000.0	6,998.7	61.0	14.0	90.22	-159.3	-900.1	3,134.9	3,060.5	74.40	42.136	
10,039.3	7,008.5	7,000.0	6,998.7	61.7	14.0	90.22	-159.3	-900.1	3,169.9	3,094.7	75.15	42.179	
10,100.0	7,008.3	7,000.0	6,998.7	62.9	14.0	90.22	-159.3	-900.1	3,223.9	3,147.6	76.31	42.247	
10,137.8	7,008.2	7,000.0	6,998.7	63.6	14.0	90.22	-159.3	-900.1	3,257.7	3,180.7	77.04	42.288	
10,200.0	7,008.0	7,000.0	6,998.7	64.8	14.0	90.22	-159.3	-900.1	3,313.6	3,235.4	78.23	42.358	
10,236.2	7,007.9	7,000.0	6,998.7	65.5	14.0	90.22	-159.3	-900.1	3,346.2	3,267.3	78.92	42.398	
10,300.0	7,007.6	7,000.0	6,998.7	66.7	14.0	90.22	-159.3	-900.1	3,403.9	3,323.7	80.15	42.469	
10,334.6	7,007.5	7,000.0	6,998.7	67.3	14.0	90.22	-159.3	-900.1	3,435.2	3,354.4	80.82	42.507	
10,400.0	7,007.3	7,000.0	6,998.7	68.6	14.0	90.22	-159.3	-900.1	3,494.6	3,412.6	82.07	42.580	
10,433.0	7,007.2	7,000.0	6,998.7	69.2	14.0	90.22	-159.3	-900.1	3,524.7	3,442.0	82.71	42.616	
10,500.0	7,007.0	7,000.0	6,998.7	70.5	14.0	90.22	-159.3	-900.1	3,585.9	3,501.9	84.00	42.690	
10,531.5	7,006.9	7,000.0	6,998.7	71.1	14.0	90.22	-159.3	-900.1	3,614.7	3,530.1	84.61	42.724	
10,600.0	7,006.7	7,000.0	6,998.7	72.4	14.0	90.22	-159.3	-900.1	3,677.6	3,591.7	85.93	42.798	
10,629.9	7,006.6	7,000.0	6,998.7	73.0	14.0	90.22	-159.3	-900.1	3,705.1	3,618.6	86.51	42.831	
10,700.0	7,006.4	7,000.0	6,998.7	74.3	14.0	90.22	-159.3	-900.1	3,769.8	3,681.9	87.86	42.906	
10,728.3	7,006.3	7,000.0	6,998.7	74.9	14.0	90.22	-159.3	-900.1	3,795.9	3,707.5	88.41	42.936	
10,800.0	7,006.0	7,000.0	6,998.7	76.3	14.0	90.22	-159.3	-900.1	3,862.3	3,772.5	89.80	43.012	
10,826.7	7,005.9	7,000.0	6,998.7	76.8	14.0	90.22	-159.3	-900.1	3,887.1	3,796.8	90.31	43.040	
10,900.0	7,005.7	7,000.0	6,998.7	78.2	14.0	90.22	-159.3	-900.1	3,955.2	3,863.5	91.73	43.117	
10,925.2	7,005.6	7,000.0	6,998.7	78.7	14.0	90.22	-159.3	-900.1	3,978.6	3,886.4	92.22	43.143	
11,000.0	7,005.4	7,000.0	6,998.7	80.1	14.0	90.22	-159.3	-900.1	4,048.4	3,954.8	93.67	43.219	
11,023.6	7,005.3	7,000.0	6,998.7	80.6	14.0	90.22	-159.3	-900.1	4,070.5	3,976.4	94.13	43.243	
11,100.0	7,005.1	7,000.0	6,998.7	82.0	14.0	90.22	-159.3	-900.1	4,142.0	4,046.4	95.61	43.321	
11,122.0	7,005.0	7,000.0	6,998.7	82.5	14.0	90.22	-159.3	-900.1	4,162.6	4,066.6	96.04	43.343	
11,200.0	7,004.7	7,000.0	6,998.7	84.0	14.0	90.22	-159.3	-900.1	4,235.8	4,138.3	97.56	43.420	
11,220.4	7,004.7	7,000.0	6,998.7	84.4	14.0	90.22	-159.3	-900.1	4,255.1	4,157.1	97.95	43.440	
11,300.0	7,004.4	7,000.0	6,998.7	85.9	14.0	90.22	-159.3	-900.1	4,330.0	4,230.5	99.50	43.517	
11,318.9	7,004.4	7,000.0	6,998.7	86.3	14.0	90.22	-159.3	-900.1	4,347.8	4,247.9	99.87	43.536	
11,400.0	7,004.1	7,000.0	6,998.7	87.8	14.0	90.22	-159.3	-900.1	4,424.3	4,322.9	101.45	43.613	
11,417.3	7,004.0	7,000.0	6,998.7	88.2	14.0	90.22	-159.3	-900.1	4,440.7	4,338.9	101.78	43.629	
11,500.0	7,003.8	7,000.0	6,998.7	89.8	14.0	90.22	-159.3	-900.1	4,519.0	4,415.6	103.39	43.707	
11,515.7	7,003.7	7,000.0	6,998.7	90.1	14.0	90.22	-159.3	-900.1	4,533.9	4,430.2	103.70	43.721	
11,600.0	7,003.4	7,000.0	6,998.7	91.7	14.0	90.22	-159.3	-900.1	4,613.8	4,508.5	105.34	43.799	
11,614.1	7,003.4	7,000.0	6,998.7	92.0	14.0	90.22	-159.3	-900.1	4,627.2	4,521.6	105.62	43.811	
11,700.0	7,003.1	7,000.0	6,998.7	93.7	14.0	90.22	-159.3	-900.1	4,708.9	4,601.6	107.29	43.889	
11,712.6	7,003.1	7,000.0	6,998.7	93.9	14.0	90.22	-159.3	-900.1	4,720.8	4,613.3	107.54	43.900	
11,800.0	7,002.8	7,000.0	6,998.7	95.6	14.0	90.21	-159.3	-900.1	4,804.1	4,694.9	109.24	43.977	
11,811.0	7,002.7	7,000.0	6,998.7	95.8	14.0	90.21	-159.3	-900.1	4,814.6	4,705.2	109.46	43.986	
11,900.0	7,002.5	7,000.0	6,998.7	97.6	14.0	90.21	-159.3	-900.1	4,899.6	4,788.4	111.19	44.063	
11,909.4	7,002.4	7,000.0	6,998.7	97.7	14.0	90.21	-159.3	-900.1	4,908.6	4,797.2	111.38	44.071	
12,000.0	7,002.1	7,000.0	6,998.7	99.5	14.0	90.21	-159.3	-900.1	4,995.2	4,882.1	113.15	44.148	
12,007.8	7,002.1	7,000.0	6,998.7	99.7	14.0	90.21	-159.3	-900.1	5,002.7	4,889.4	113.30	44.154	
12,100.0	7,001.8	7,000.0	6,998.7	101.5	14.0	90.21	-159.3	-900.1	5,091.0	4,975.9	115.10	44.230	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,106.3	7,001.8	7,000.0	6,998.7	101.6	14.0	90.21	-159.3	-900.1	5,097.0	4,981.8	115.23	44.235	
12,200.0	7,001.5	7,000.0	6,998.7	103.4	14.0	90.21	-159.3	-900.1	5,187.0	5,069.9	117.06	44.311	
12,204.7	7,001.5	7,000.0	6,998.7	103.5	14.0	90.21	-159.3	-900.1	5,191.5	5,074.3	117.15	44.315	
12,300.0	7,001.2	7,000.0	6,998.7	105.3	14.0	90.21	-159.3	-900.1	5,283.1	5,164.1	119.01	44.390	
12,303.1	7,001.1	7,000.0	6,998.7	105.4	14.0	90.21	-159.3	-900.1	5,286.1	5,167.0	119.08	44.393	
12,400.0	7,000.8	7,000.0	6,998.7	107.3	14.0	90.21	-159.3	-900.1	5,379.3	5,258.4	120.97	44.468	
12,401.5	7,000.8	7,000.0	6,998.7	107.3	14.0	90.21	-159.3	-900.1	5,380.8	5,259.8	121.00	44.469	
12,500.0	7,000.5	7,000.0	6,998.7	109.3	14.0	90.21	-159.3	-900.1	5,475.7	5,352.8	122.93	44.544	
12,598.4	7,000.2	7,000.0	6,998.7	111.2	14.0	90.21	-159.3	-900.1	5,570.7	5,445.8	124.86	44.617	
12,600.0	7,000.2	7,000.0	6,998.7	111.2	14.0	90.21	-159.3	-900.1	5,572.2	5,447.3	124.89	44.618	
12,696.8	6,999.8	7,000.0	6,998.7	113.1	14.0	90.21	-159.3	-900.1	5,665.8	5,539.0	126.78	44.688	
12,700.0	6,999.8	7,000.0	6,998.7	113.2	14.0	90.21	-159.3	-900.1	5,668.8	5,542.0	126.85	44.690	
12,795.2	6,999.5	7,000.0	6,998.7	115.0	14.0	90.21	-159.3	-900.1	5,761.0	5,632.3	128.71	44.758	
12,800.0	6,999.5	7,000.0	6,998.7	115.1	14.0	90.21	-159.3	-900.1	5,765.6	5,636.8	128.81	44.762	
12,893.7	6,999.2	7,000.0	6,998.7	116.9	14.0	90.21	-159.3	-900.1	5,856.3	5,725.7	130.64	44.827	
12,900.0	6,999.2	7,000.0	6,998.7	117.1	14.0	90.21	-159.3	-900.1	5,862.5	5,731.7	130.77	44.831	
12,992.1	6,998.9	7,000.0	6,998.7	118.9	14.0	90.21	-159.3	-900.1	5,951.7	5,819.2	132.57	44.894	
13,000.0	6,998.8	7,000.0	6,998.7	119.0	14.0	90.21	-159.3	-900.1	5,959.4	5,826.7	132.73	44.899	
13,090.5	6,998.6	7,000.0	6,998.7	120.8	14.0	90.21	-159.3	-900.1	6,047.3	5,912.8	134.50	44.959	
13,100.0	6,998.5	7,000.0	6,998.7	121.0	14.0	90.21	-159.3	-900.1	6,056.5	5,921.8	134.69	44.966	
13,188.9	6,998.2	7,000.0	6,998.7	122.7	14.0	90.21	-159.3	-900.1	6,142.9	6,006.4	136.44	45.024	
13,200.0	6,998.2	7,000.0	6,998.7	122.9	14.0	90.21	-159.3	-900.1	6,153.6	6,017.0	136.65	45.031	
13,287.4	6,997.9	7,000.0	6,998.7	124.6	14.0	90.21	-159.3	-900.1	6,238.6	6,100.2	138.37	45.087	
13,300.0	6,997.9	7,000.0	6,998.7	124.9	14.0	90.21	-159.3	-900.1	6,250.9	6,112.2	138.62	45.095	
13,385.8	6,997.6	7,000.0	6,998.7	126.6	14.0	90.21	-159.3	-900.1	6,334.4	6,194.1	140.30	45.149	
13,400.0	6,997.5	7,000.0	6,998.7	126.9	14.0	90.21	-159.3	-900.1	6,348.2	6,207.6	140.58	45.157	
13,484.2	6,997.3	7,000.0	6,998.7	128.5	14.0	90.21	-159.3	-900.1	6,430.2	6,288.0	142.23	45.209	
13,500.0	6,997.2	7,000.0	6,998.7	128.8	14.0	90.20	-159.3	-900.1	6,445.6	6,303.1	142.54	45.219	
13,582.6	6,996.9	7,000.0	6,998.7	130.4	14.0	90.20	-159.3	-900.1	6,526.2	6,382.0	144.17	45.268	
13,600.0	6,996.9	7,000.0	6,998.7	130.8	14.0	90.20	-159.3	-900.1	6,543.1	6,398.6	144.51	45.278	
13,681.1	6,996.6	7,000.0	6,998.7	132.4	14.0	90.20	-159.3	-900.1	6,622.2	6,476.1	146.10	45.326	
13,700.0	6,996.5	7,000.0	6,998.7	132.7	14.0	90.20	-159.3	-900.1	6,640.7	6,494.2	146.47	45.337	
13,779.5	6,996.3	6,978.0	6,976.6	134.3	14.0	89.33	-159.4	-900.7	6,718.2	6,570.3	147.95	45.407	
13,800.0	6,996.2	6,977.8	6,976.5	134.7	14.0	89.32	-159.4	-900.7	6,738.2	6,589.9	148.36	45.419	
13,877.9	6,995.9	6,977.1	6,975.8	136.2	14.0	89.30	-159.4	-900.8	6,814.4	6,664.5	149.88	45.464	
13,900.0	6,995.9	6,976.9	6,975.6	136.7	14.0	89.29	-159.5	-900.8	6,835.9	6,685.6	150.32	45.477	
13,976.3	6,995.6	6,976.3	6,975.0	138.2	14.0	89.26	-159.5	-900.8	6,910.6	6,758.8	151.82	45.519	
14,000.0	6,995.5	6,976.1	6,974.8	138.6	14.0	89.25	-159.5	-900.8	6,933.7	6,781.4	152.28	45.533	
14,074.8	6,995.3	6,975.5	6,974.1	140.1	14.0	89.23	-159.5	-900.8	7,006.9	6,853.1	153.75	45.574	
14,100.0	6,995.2	6,975.2	6,973.9	140.6	14.0	89.22	-159.5	-900.8	7,031.5	6,877.3	154.24	45.588	
14,162.0	6,995.0	6,974.7	6,973.4	141.8	14.0	89.20	-159.5	-900.8	7,092.2	6,936.8	155.42	45.633	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-150.6	150.6				
98.4	98.4	93.4	93.4	0.1	0.1	-90.00	0.0	-150.6	150.6	150.4	0.19	808.361	
100.0	100.0	95.0	95.0	0.1	0.1	-90.00	0.0	-150.6	150.6	150.4	0.19	794.284	
196.8	196.8	191.8	191.8	0.3	0.3	-90.00	0.0	-150.6	150.6	149.9	0.62	243.416	
200.0	200.0	195.0	195.0	0.3	0.3	-90.00	0.0	-150.6	150.6	149.9	0.63	237.968	
295.3	295.3	290.3	290.3	0.5	0.5	-90.00	0.0	-150.6	150.6	149.5	1.06	141.909	
300.0	300.0	295.0	295.0	0.5	0.5	-90.00	0.0	-150.6	150.6	149.5	1.08	139.124	
393.7	393.7	388.7	388.7	0.8	0.7	-90.00	0.0	-150.6	150.6	149.1	1.50	100.147	
400.0	400.0	395.0	395.0	0.8	0.8	-90.00	0.0	-150.6	150.6	149.0	1.53	98.295	
492.1	492.1	487.1	487.1	1.0	1.0	-90.00	0.0	-150.6	150.6	148.6	1.95	77.376	
500.0	500.0	495.0	495.0	1.0	1.0	-90.00	0.0	-150.6	150.6	148.6	1.98	75.993	
590.5	590.5	585.5	585.5	1.2	1.2	-90.00	0.0	-150.6	150.6	148.2	2.39	63.042	
600.0	600.0	595.0	595.0	1.2	1.2	-90.00	0.0	-150.6	150.6	148.1	2.43	61.940	
689.0	689.0	684.0	684.0	1.4	1.4	-90.00	0.0	-150.6	150.6	147.7	2.83	53.188	
700.0	700.0	695.0	695.0	1.4	1.4	-90.00	0.0	-150.6	150.6	147.7	2.88	52.273	
787.4	787.4	782.4	782.4	1.6	1.6	-90.00	0.0	-150.6	150.6	147.3	3.27	45.999	
800.0	800.0	795.0	795.0	1.7	1.7	-90.00	0.0	-150.6	150.6	147.2	3.33	45.216	
885.8	885.8	880.8	880.8	1.9	1.9	-90.00	0.0	-150.6	150.6	146.9	3.72	40.521	
900.0	900.0	895.0	895.0	1.9	1.9	-90.00	0.0	-150.6	150.6	146.8	3.78	39.838	
984.2	984.2	979.2	979.2	2.1	2.1	-90.00	0.0	-150.6	150.6	146.4	4.16	36.210	
1,000.0	1,000.0	995.0	995.0	2.1	2.1	-90.00	0.0	-150.6	150.6	146.3	4.23	35.604 CC, ES	
1,082.7	1,082.7	1,073.9	1,073.9	2.3	2.3	-89.92	0.2	-151.5	151.5	147.0	4.58	33.054	
1,100.0	1,100.0	1,090.3	1,090.3	2.3	2.3	-89.88	0.3	-152.0	152.0	147.4	4.66	32.630	
1,181.1	1,181.1	1,167.3	1,167.2	2.5	2.5	-152.32	1.1	-155.3	156.6	151.6	5.00	31.339	
1,200.0	1,200.0	1,185.1	1,185.0	2.6	2.5	-152.31	1.3	-156.4	158.3	153.2	5.08	31.181	
1,279.5	1,279.4	1,259.9	1,259.6	2.7	2.7	-152.38	2.6	-162.1	167.7	162.3	5.40	31.033	
1,300.0	1,299.8	1,279.1	1,278.6	2.8	2.7	-152.41	3.0	-163.8	170.8	165.3	5.49	31.117	
1,377.9	1,377.5	1,351.4	1,350.5	3.0	2.9	-152.61	4.7	-171.6	184.8	179.0	5.81	31.804	
1,400.0	1,399.5	1,371.6	1,370.6	3.0	2.9	-152.68	5.3	-174.0	189.5	183.6	5.90	32.103	
1,476.4	1,475.3	1,441.0	1,439.3	3.2	3.1	-152.95	7.4	-183.6	207.9	201.7	6.22	33.421	
1,500.0	1,498.7	1,462.3	1,460.3	3.2	3.2	-153.04	8.2	-186.9	214.3	208.0	6.32	33.920	
1,574.8	1,572.6	1,528.5	1,525.5	3.5	3.4	-153.31	10.7	-198.0	236.7	230.1	6.63	35.710	
1,600.0	1,597.5	1,550.5	1,547.1	3.5	3.5	-153.40	11.6	-202.0	245.0	238.3	6.73	36.392	
1,673.2	1,669.4	1,613.4	1,608.7	3.7	3.7	-153.63	14.4	-214.4	271.2	264.1	7.04	38.527	
1,700.0	1,695.7	1,636.0	1,630.8	3.8	3.7	-153.71	15.4	-219.2	281.5	274.4	7.15	39.377	
1,771.6	1,765.7	1,700.0	1,693.1	4.1	4.0	-154.13	18.7	-233.6	310.3	302.8	7.48	41.511	
1,800.0	1,793.4	1,718.9	1,711.4	4.2	4.1	-154.23	19.7	-238.1	322.0	314.4	7.59	42.408	
1,870.1	1,862.0	1,780.6	1,771.1	4.4	4.3	-154.48	23.1	-253.4	351.7	343.8	7.92	44.412	
1,900.0	1,891.3	1,807.7	1,797.3	4.5	4.4	-154.58	24.6	-260.1	364.3	356.3	8.06	45.228	
1,968.5	1,958.3	1,869.7	1,857.3	4.8	4.7	-154.78	28.1	-275.4	393.4	385.0	8.38	46.960	
2,000.0	1,989.1	1,898.3	1,884.9	4.9	4.8	-154.86	29.7	-282.5	406.7	398.2	8.53	47.703	
2,066.9	2,054.5	1,958.9	1,943.5	5.2	5.1	-155.02	33.1	-297.5	435.1	426.2	8.85	49.154	
2,100.0	2,086.9	1,988.8	1,972.5	5.3	5.3	-155.09	34.7	-305.0	449.1	440.1	9.01	49.850	
2,165.3	2,150.8	2,048.0	2,029.7	5.6	5.5	-155.22	38.0	-319.6	476.8	467.4	9.33	51.118	
2,200.0	2,184.7	2,079.4	2,060.1	5.7	5.7	-155.28	39.8	-327.4	491.4	482.0	9.50	51.749	
2,263.8	2,247.1	2,137.2	2,115.9	5.9	6.0	-155.39	43.0	-341.7	518.5	508.7	9.81	52.833	
2,300.0	2,282.5	2,170.0	2,147.7	6.1	6.1	-155.44	44.8	-349.8	533.8	523.8	9.99	53.414	
2,362.2	2,343.4	2,226.3	2,202.2	6.4	6.4	-155.53	48.0	-363.8	560.2	549.9	10.31	54.350	
2,400.0	2,380.3	2,260.5	2,235.3	6.5	6.6	-155.58	49.9	-372.3	576.2	565.7	10.50	54.886	
2,460.6	2,439.6	2,315.4	2,288.4	6.8	6.9	-155.65	52.9	-385.9	601.9	591.1	10.81	55.697	
2,500.0	2,478.1	2,351.1	2,322.9	6.9	7.0	-155.70	54.9	-394.7	618.6	607.6	11.01	56.194	
2,559.0	2,535.9	2,404.6	2,374.6	7.2	7.3	-155.76	57.9	-408.0	643.6	632.3	11.31	56.899	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,600.0	2,576.0	2,441.7	2,410.5	7.4	7.5	-155.80	60.0	-417.2	661.0	649.5	11.52	57.360	
2,657.5	2,632.2	2,493.7	2,460.8	7.6	7.8	-155.85	62.9	-430.1	685.3	673.5	11.82	57.975	
2,700.0	2,673.8	2,532.2	2,498.1	7.8	8.0	-155.89	65.0	-439.6	703.4	691.3	12.04	58.406	
2,755.9	2,728.4	2,582.9	2,547.0	8.0	8.2	-155.94	67.8	-452.2	727.1	714.7	12.33	58.943	
2,800.0	2,771.6	2,622.8	2,585.7	8.2	8.4	-155.97	70.1	-462.1	745.7	733.2	12.57	59.346	
2,854.3	2,824.7	2,672.0	2,633.2	8.4	8.7	-156.01	72.8	-474.2	768.8	755.9	12.85	59.817	
2,900.0	2,869.4	2,713.4	2,673.3	8.6	8.9	-156.04	75.1	-484.5	788.1	775.0	13.09	60.196	
2,952.7	2,921.0	2,761.1	2,719.5	8.9	9.2	-156.08	77.8	-496.3	810.5	797.1	13.37	60.610	
3,000.0	2,967.2	2,803.9	2,760.8	9.1	9.4	-156.11	80.1	-506.9	830.5	816.9	13.62	60.966	
3,051.2	3,017.3	2,850.3	2,805.7	9.3	9.6	-156.14	82.7	-518.4	852.2	838.3	13.90	61.331	
3,100.0	3,065.0	2,894.5	2,848.4	9.5	9.9	-156.16	85.2	-529.4	872.9	858.8	14.16	61.666	
3,149.6	3,113.5	2,939.4	2,891.9	9.7	10.1	-156.19	87.7	-540.5	893.9	879.5	14.42	61.989	
3,200.0	3,162.8	2,985.1	2,936.0	9.9	10.3	-156.22	90.2	-551.8	915.3	900.6	14.69	62.305	
3,248.0	3,209.8	3,028.6	2,978.1	10.2	10.6	-156.24	92.7	-562.6	935.7	920.7	14.95	62.592	
3,300.0	3,260.7	3,075.6	3,023.6	10.4	10.8	-156.26	95.3	-574.3	957.7	942.5	15.23	62.890	
3,346.4	3,306.1	3,117.7	3,064.3	10.6	11.0	-156.29	97.6	-584.7	977.4	961.9	15.48	63.145	
3,400.0	3,358.5	3,166.2	3,111.2	10.8	11.3	-156.31	100.3	-596.7	1,000.1	984.3	15.77	63.427	
3,444.9	3,402.4	3,206.9	3,150.5	11.0	11.5	-156.33	102.6	-606.8	1,019.1	1,003.1	16.01	63.654	
3,500.0	3,456.3	3,256.8	3,198.8	11.3	11.8	-156.35	105.4	-619.2	1,042.5	1,026.2	16.31	63.922	
3,543.3	3,498.6	3,296.0	3,236.8	11.5	12.0	-156.37	107.6	-628.9	1,060.8	1,044.3	16.54	64.124	
3,600.0	3,554.1	3,347.3	3,286.4	11.7	12.3	-156.39	110.4	-641.6	1,084.9	1,068.0	16.85	64.378	
3,641.7	3,594.9	3,385.1	3,323.0	11.9	12.5	-156.40	112.5	-651.0	1,102.6	1,085.5	17.08	64.559	
3,700.0	3,651.9	3,437.9	3,374.0	12.2	12.7	-156.42	115.5	-664.0	1,127.3	1,109.9	17.40	64.801	
3,740.1	3,691.2	3,474.3	3,409.2	12.3	12.9	-156.43	117.5	-673.1	1,144.3	1,126.7	17.61	64.962	
3,800.0	3,749.7	3,528.5	3,461.6	12.6	13.2	-156.45	120.5	-686.5	1,169.7	1,151.7	17.94	65.193	
3,838.6	3,787.5	3,563.4	3,495.4	12.8	13.4	-156.46	122.5	-695.1	1,186.0	1,167.9	18.15	65.336	
3,900.0	3,847.5	3,619.0	3,549.2	13.0	13.7	-156.48	125.6	-708.9	1,212.1	1,193.6	18.49	65.557	
3,937.0	3,883.7	3,652.6	3,581.6	13.2	13.9	-156.49	127.4	-717.2	1,227.7	1,209.0	18.69	65.685	
4,000.0	3,945.4	3,709.6	3,636.8	13.5	14.2	-156.51	130.6	-731.4	1,254.4	1,235.4	19.04	65.896	
4,035.4	3,980.0	3,741.7	3,667.9	13.7	14.4	-156.52	132.4	-739.3	1,269.5	1,250.2	19.23	66.011	
4,068.9	4,012.7	3,772.0	3,697.2	13.8	14.5	-156.53	134.1	-746.8	1,283.7	1,264.2	19.41	66.117	
4,100.0	4,043.2	3,800.2	3,724.5	13.9	14.7	-156.55	135.7	-753.8	1,296.7	1,277.1	19.61	66.114	
4,133.8	4,076.4	3,831.1	3,754.3	14.0	14.9	-156.56	137.4	-761.5	1,310.6	1,290.8	19.82	66.132	
4,200.0	4,141.6	3,891.9	3,813.1	14.2	15.2	-156.59	140.8	-776.5	1,336.7	1,316.5	20.22	66.125	
4,232.3	4,173.4	3,921.7	3,842.0	14.3	15.4	-157.04	142.4	-783.9	1,349.0	1,328.6	20.40	66.117	
4,300.0	4,240.5	3,984.7	3,902.9	14.5	15.7	-157.18	145.9	-799.5	1,373.8	1,353.0	20.80	66.061	
4,330.7	4,271.0	4,013.5	3,930.7	14.6	15.9	-157.23	147.5	-806.7	1,384.6	1,363.6	20.97	66.034	
4,400.0	4,339.9	4,078.7	3,993.8	14.8	16.2	-157.32	151.2	-822.8	1,407.8	1,386.5	21.35	65.937	
4,429.1	4,368.9	4,106.3	4,020.5	14.8	16.4	-157.35	152.7	-829.7	1,417.2	1,395.7	21.51	65.895	
4,500.0	4,439.6	4,173.6	4,085.6	15.0	16.7	-157.38	156.5	-846.4	1,438.9	1,417.0	21.88	65.761	
4,527.5	4,467.1	4,200.0	4,111.1	15.0	16.9	-157.38	157.9	-852.9	1,446.9	1,424.9	22.02	65.709	
4,600.0	4,539.5	4,269.5	4,178.3	15.1	17.2	-157.36	161.8	-870.1	1,466.8	1,444.5	22.38	65.543	
4,626.0	4,565.4	4,294.5	4,202.5	15.2	17.4	-157.35	163.2	-876.3	1,473.6	1,451.1	22.50	65.481	
4,668.9	4,608.4	4,336.0	4,242.6	15.2	17.6	-94.74	165.5	-886.6	1,484.3	1,461.6	22.71	65.355	
4,700.0	4,639.5	4,366.0	4,271.7	15.3	17.8	-94.65	167.2	-894.0	1,491.9	1,469.0	22.85	65.276	
4,724.4	4,663.9	4,389.6	4,294.5	15.3	17.9	-94.58	168.5	-899.9	1,497.8	1,474.8	22.97	65.207	
4,800.0	4,739.5	4,462.7	4,365.3	15.4	18.3	-94.37	172.6	-918.0	1,516.2	1,492.9	23.33	65.001	
4,822.8	4,762.3	4,484.8	4,386.6	15.4	18.4	-94.30	173.8	-923.5	1,521.8	1,498.3	23.43	64.939	
4,900.0	4,839.5	4,559.5	4,458.8	15.6	18.8	-94.09	178.0	-942.0	1,540.6	1,516.8	23.80	64.737	
4,921.2	4,860.7	4,580.0	4,478.7	15.6	18.9	-94.03	179.1	-947.1	1,545.8	1,521.9	23.90	64.683	
5,000.0	4,939.5	4,656.2	4,552.4	15.7	19.3	-93.82	183.4	-965.9	1,565.0	1,540.7	24.27	64.485	
5,019.7	4,959.1	4,675.2	4,570.8	15.7	19.4	-93.77	184.4	-970.6	1,569.8	1,545.4	24.36	64.437	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	4,752.9	4,645.9	15.9	19.9	-93.57	188.8	-989.9	1,589.4	1,564.7	24.74	64.244	
5,118.1	5,057.6	4,770.4	4,662.8	15.9	20.0	-93.52	189.7	-994.2	1,593.8	1,569.0	24.83	64.201	
5,200.0	5,139.5	4,849.6	4,739.5	16.0	20.4	-93.31	194.1	-1,013.9	1,613.9	1,588.7	25.21	64.012	
5,216.5	5,156.0	4,865.6	4,754.9	16.0	20.5	-93.27	195.0	-1,017.8	1,617.9	1,592.6	25.29	63.974	
5,300.0	5,239.5	4,946.3	4,833.0	16.2	20.9	-93.07	199.5	-1,037.8	1,638.4	1,612.7	25.68	63.789	
5,314.9	5,254.4	4,960.8	4,847.0	16.2	21.0	-93.03	200.3	-1,041.4	1,642.0	1,616.3	25.75	63.757	
5,400.0	5,339.5	5,043.1	4,926.5	16.3	21.4	-92.83	204.9	-1,061.8	1,662.9	1,636.7	26.16	63.575	
5,413.4	5,352.8	5,056.0	4,939.1	16.3	21.5	-92.80	205.6	-1,065.0	1,666.2	1,639.9	26.22	63.547	
5,500.0	5,439.5	5,139.8	5,020.1	16.5	22.0	-92.60	210.3	-1,085.8	1,687.4	1,660.8	26.63	63.369	
5,511.8	5,451.3	5,151.2	5,031.1	16.5	22.0	-92.58	211.0	-1,088.6	1,690.3	1,663.6	26.68	63.345	
5,600.0	5,539.5	5,236.5	5,113.6	16.6	22.5	-92.38	215.7	-1,109.7	1,712.0	1,684.9	27.10	63.171	
5,610.2	5,549.7	5,246.4	5,123.2	16.6	22.5	-92.36	216.3	-1,112.2	1,714.5	1,687.4	27.15	63.151	
5,700.0	5,639.5	5,333.2	5,207.2	16.8	23.0	-92.16	221.1	-1,133.7	1,736.6	1,709.0	27.57	62.980	
5,708.6	5,648.1	5,341.6	5,215.3	16.8	23.1	-92.14	221.6	-1,135.8	1,738.7	1,711.1	27.61	62.964	
5,800.0	5,739.5	5,430.0	5,300.7	17.0	23.5	-91.95	226.5	-1,157.7	1,761.2	1,733.2	28.05	62.795	
5,807.1	5,746.5	5,436.8	5,307.4	17.0	23.6	-91.94	226.9	-1,159.4	1,762.9	1,734.9	28.08	62.783	
5,900.0	5,839.5	5,526.7	5,394.3	17.1	24.1	-91.75	231.9	-1,181.6	1,785.8	1,757.3	28.52	62.617	
5,905.5	5,845.0	5,532.0	5,399.4	17.1	24.1	-91.73	232.2	-1,183.0	1,787.2	1,758.7	28.55	62.608	
6,000.0	5,939.5	5,623.4	5,487.8	17.3	24.6	-91.55	237.3	-1,205.6	1,810.5	1,781.5	28.99	62.445	
6,003.9	5,943.4	5,627.2	5,491.5	17.3	24.6	-91.54	237.5	-1,206.5	1,811.5	1,782.5	29.01	62.439	
6,100.0	6,039.5	5,840.1	5,699.0	17.4	25.5	-91.17	248.0	-1,253.2	1,832.8	1,803.1	29.72	61.670	
6,102.3	6,041.8	5,846.3	5,705.0	17.4	25.5	-91.16	248.2	-1,254.3	1,833.2	1,803.5	29.74	61.647	
6,200.0	6,139.5	6,103.7	5,959.7	17.6	26.2	-90.88	256.2	-1,289.9	1,846.7	1,816.2	30.46	60.631	
6,200.8	6,140.2	6,105.8	5,961.8	17.6	26.2	-90.88	256.3	-1,290.1	1,846.8	1,816.3	30.46	60.623	
6,299.2	6,238.7	6,369.9	6,225.5	17.8	26.6	-90.79	259.2	-1,303.1	1,851.6	1,820.5	31.11	59.519	
6,300.0	6,239.5	6,372.1	6,227.7	17.8	26.6	-90.79	259.2	-1,303.1	1,851.6	1,820.5	31.11	59.519	
6,360.9	6,300.4	6,438.6	6,294.2	17.9	26.7	-90.80	258.7	-1,303.2	1,851.6	1,820.3	31.34	59.089	
6,397.6	6,337.1	6,473.7	6,329.2	17.9	26.7	88.95	256.6	-1,303.2	1,851.7	1,820.2	31.43	58.907	
6,400.0	6,339.5	6,475.9	6,331.5	17.9	26.7	88.95	256.4	-1,303.2	1,851.7	1,820.2	31.44	58.895	
6,450.0	6,389.2	6,523.6	6,378.8	18.0	26.7	88.90	250.7	-1,303.2	1,851.7	1,820.2	31.55	58.695	
6,496.0	6,434.7	6,567.4	6,421.8	18.0	26.7	88.86	242.6	-1,303.2	1,851.7	1,820.1	31.62	58.567	
6,500.0	6,438.6	6,571.2	6,425.5	18.0	26.7	88.85	241.8	-1,303.2	1,851.7	1,820.1	31.62	58.557	
6,550.0	6,487.3	6,618.6	6,471.4	18.0	26.8	88.82	229.9	-1,303.3	1,851.8	1,820.1	31.67	58.475	
6,594.5	6,529.8	6,660.8	6,511.5	18.0	26.8	88.79	216.7	-1,303.3	1,851.8	1,820.1	31.69	58.441	
6,600.0	6,535.1	6,666.1	6,516.4	18.1	26.8	88.78	214.9	-1,303.3	1,851.8	1,820.1	31.69	58.438	
6,650.0	6,581.7	6,713.4	6,560.3	18.0	26.8	88.75	197.1	-1,303.4	1,851.8	1,820.1	31.69	58.434	
6,692.9	6,620.6	6,754.0	6,596.9	18.0	26.8	88.74	179.5	-1,303.5	1,851.8	1,820.1	31.68	58.447	
6,700.0	6,626.9	6,760.7	6,602.8	18.0	26.8	88.73	176.4	-1,303.5	1,851.8	1,820.1	31.68	58.449	
6,750.0	6,670.6	6,808.0	6,643.9	18.0	26.8	88.72	153.0	-1,303.6	1,851.8	1,820.2	31.67	58.467	
6,791.3	6,705.4	6,847.1	6,676.6	18.0	26.8	88.71	131.6	-1,303.6	1,851.8	1,820.2	31.67	58.472	
6,800.0	6,712.5	6,855.3	6,683.3	18.0	26.8	88.71	126.9	-1,303.7	1,851.8	1,820.2	31.67	58.471	
6,850.0	6,752.3	6,902.5	6,720.8	18.0	26.8	88.70	98.3	-1,303.8	1,851.8	1,820.1	31.69	58.441	
6,889.7	6,782.5	6,940.0	6,749.3	18.0	26.8	88.70	73.8	-1,303.8	1,851.8	1,820.1	31.72	58.375	
6,900.0	6,790.0	6,950.0	6,756.7	18.0	26.8	88.70	67.1	-1,303.9	1,851.8	1,820.1	31.73	58.357	
6,950.0	6,825.3	6,997.0	6,790.0	18.0	26.8	88.71	34.0	-1,304.0	1,851.8	1,820.0	31.82	58.200	
6,988.2	6,850.5	7,033.1	6,814.0	17.9	26.8	88.72	7.1	-1,304.1	1,851.8	1,819.9	31.92	58.010	
7,000.0	6,858.0	7,044.2	6,821.2	17.9	26.8	88.73	-1.5	-1,304.1	1,851.8	1,819.9	31.96	57.951	
7,050.0	6,888.0	7,091.5	6,850.0	18.0	26.8	88.75	-39.0	-1,304.3	1,851.8	1,819.7	32.15	57.595	
7,086.6	6,908.1	7,126.2	6,869.6	18.0	26.8	88.76	-67.6	-1,304.4	1,851.8	1,819.4	32.35	57.249	
7,100.0	6,915.1	7,138.9	6,876.4	18.0	26.8	88.77	-78.3	-1,304.4	1,851.8	1,819.4	32.42	57.120	
7,150.0	6,939.2	7,186.3	6,900.1	18.0	26.8	88.80	-119.3	-1,304.6	1,851.8	1,819.0	32.76	56.525	
7,185.0	6,954.3	7,219.5	6,915.1	18.1	26.9	88.83	-149.0	-1,304.7	1,851.7	1,818.7	33.05	56.023	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 7G-203 - ORIGINAL WELLBORE - PROPOSAL #2												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	6,960.3	7,233.7	6,921.1	18.1	26.9	88.84	-161.9	-1,304.7	1,851.7	1,818.6	33.18	55.803	
7,250.0	6,978.1	7,281.3	6,939.2	18.3	27.0	88.88	-205.8	-1,304.9	1,851.7	1,818.0	33.69	54.961	
7,283.4	6,988.2	7,313.1	6,949.7	18.4	27.0	88.91	-235.9	-1,305.0	1,851.7	1,817.6	34.08	54.328	
7,300.0	6,992.6	7,328.9	6,954.4	18.4	27.0	88.93	-250.9	-1,305.0	1,851.7	1,817.4	34.29	54.008	
7,350.0	7,003.7	7,376.6	6,966.6	18.7	27.1	88.98	-297.0	-1,305.2	1,851.7	1,816.7	34.96	52.958	
7,381.9	7,009.1	7,407.1	6,972.8	18.9	27.2	89.02	-326.9	-1,305.3	1,851.6	1,816.2	35.44	52.244	
7,400.0	7,011.4	7,424.4	6,975.7	19.0	27.3	89.04	-344.0	-1,305.4	1,851.6	1,815.9	35.72	51.830	
7,450.0	7,015.7	7,472.4	6,981.7	19.3	27.4	89.10	-391.5	-1,305.6	1,851.6	1,815.0	36.56	50.643	
7,480.3	7,016.6	7,501.5	6,983.8	19.6	27.5	89.14	-420.6	-1,305.7	1,851.6	1,814.5	37.10	49.906	
7,488.2	7,016.6	7,509.1	6,984.1	19.6	27.6	89.15	-428.2	-1,305.7	1,851.6	1,814.3	37.25	49.711	
7,500.0	7,016.6	7,520.4	6,984.5	19.7	27.6	89.16	-439.5	-1,305.7	1,851.6	1,814.1	37.47	49.418	
7,526.2	7,016.5	7,545.8	6,984.7	20.0	27.7	89.17	-464.9	-1,305.8	1,851.6	1,813.6	37.98	48.749	
7,578.7	7,016.3	7,598.4	6,984.4	20.5	28.0	89.17	-517.5	-1,306.0	1,851.6	1,812.5	39.06	47.404	
7,600.0	7,016.2	7,619.6	6,984.3	20.7	28.1	89.17	-538.7	-1,306.1	1,851.6	1,812.1	39.51	46.866	
7,677.1	7,016.0	7,696.8	6,983.9	21.6	28.6	89.16	-615.9	-1,306.4	1,851.6	1,810.3	41.24	44.898	
7,700.0	7,015.9	7,719.6	6,983.8	21.8	28.8	89.16	-638.7	-1,306.5	1,851.6	1,809.8	41.77	44.328	
7,775.6	7,015.7	7,795.2	6,983.4	22.7	29.3	89.16	-714.3	-1,306.7	1,851.6	1,807.9	43.62	42.447	
7,800.0	7,015.6	7,819.6	6,983.3	23.0	29.5	89.16	-738.7	-1,306.8	1,851.6	1,807.3	44.24	41.851	
7,874.0	7,015.4	7,893.6	6,983.0	24.0	30.2	89.15	-812.7	-1,307.1	1,851.6	1,805.4	46.21	40.069	
7,900.0	7,015.3	7,919.6	6,982.8	24.4	30.5	89.15	-838.7	-1,307.2	1,851.6	1,804.7	46.92	39.463	
7,972.4	7,015.1	7,992.1	6,982.5	25.4	31.2	89.15	-911.1	-1,307.5	1,851.6	1,802.6	48.97	37.809	
8,000.0	7,015.0	8,019.6	6,982.3	25.8	31.5	89.14	-938.7	-1,307.6	1,851.6	1,801.8	49.77	37.203	
8,070.8	7,014.8	8,090.5	6,982.0	26.8	32.3	89.14	-1,009.6	-1,307.8	1,851.6	1,799.7	51.88	35.688	
8,100.0	7,014.7	8,119.6	6,981.9	27.3	32.6	89.14	-1,038.7	-1,307.9	1,851.6	1,798.8	52.76	35.091	
8,169.3	7,014.4	8,188.9	6,981.5	28.3	33.5	89.14	-1,108.0	-1,308.2	1,851.6	1,796.7	54.92	33.717	
8,200.0	7,014.4	8,219.6	6,981.4	28.8	33.9	89.13	-1,138.7	-1,308.3	1,851.6	1,795.7	55.88	33.135	
8,267.7	7,014.1	8,287.3	6,981.0	29.9	34.7	89.13	-1,206.4	-1,308.5	1,851.6	1,793.5	58.05	31.895	
8,300.0	7,014.0	8,319.6	6,980.9	30.4	35.2	89.13	-1,238.7	-1,308.7	1,851.6	1,792.5	59.10	31.330	
8,366.1	7,013.8	8,385.8	6,980.6	31.5	36.1	89.13	-1,304.8	-1,308.9	1,851.6	1,790.3	61.28	30.215	
8,400.0	7,013.7	8,419.6	6,980.4	32.0	36.5	89.12	-1,338.7	-1,309.0	1,851.6	1,789.2	62.40	29.671	
8,464.5	7,013.5	8,484.2	6,980.1	33.1	37.4	89.12	-1,403.2	-1,309.3	1,851.6	1,787.0	64.58	28.671	
8,500.0	7,013.4	8,519.6	6,979.9	33.7	38.0	89.12	-1,438.7	-1,309.4	1,851.6	1,785.8	65.78	28.147	
8,563.0	7,013.2	8,582.6	6,979.6	34.8	38.9	89.11	-1,501.7	-1,309.6	1,851.6	1,783.7	67.95	27.251	
8,600.0	7,013.1	8,619.6	6,979.4	35.4	39.4	89.11	-1,538.7	-1,309.8	1,851.6	1,782.4	69.23	26.748	
8,661.4	7,012.9	8,681.0	6,979.1	36.5	40.4	89.11	-1,600.1	-1,310.0	1,851.6	1,780.2	71.37	25.944	
8,700.0	7,012.8	8,719.6	6,978.9	37.1	41.0	89.11	-1,638.7	-1,310.1	1,851.6	1,778.9	72.72	25.462	
8,759.8	7,012.6	8,779.4	6,978.6	38.2	41.9	89.10	-1,698.5	-1,310.4	1,851.6	1,776.8	74.84	24.742	
8,800.0	7,012.4	8,819.6	6,978.4	38.9	42.5	89.10	-1,738.7	-1,310.5	1,851.6	1,775.4	76.26	24.280	
8,858.2	7,012.3	8,877.9	6,978.1	39.9	43.5	89.10	-1,796.9	-1,310.7	1,851.6	1,773.3	78.35	23.634	
8,900.0	7,012.1	8,919.6	6,977.9	40.7	44.1	89.10	-1,838.7	-1,310.9	1,851.6	1,771.8	79.84	23.190	
8,956.7	7,011.9	8,976.3	6,977.7	41.7	45.0	89.09	-1,895.4	-1,311.1	1,851.6	1,769.7	81.89	22.610	
9,000.0	7,011.8	9,019.6	6,977.5	42.4	45.8	89.09	-1,938.7	-1,311.2	1,851.6	1,768.2	83.46	22.185	
9,055.1	7,011.6	9,074.7	6,977.2	43.4	46.7	89.09	-1,993.8	-1,311.4	1,851.6	1,766.2	85.47	21.664	
9,100.0	7,011.5	9,119.6	6,977.0	44.2	47.4	89.09	-2,038.7	-1,311.6	1,851.6	1,764.5	87.11	21.256	
9,153.5	7,011.3	9,173.1	6,976.7	45.2	48.3	89.08	-2,092.2	-1,311.8	1,851.6	1,762.6	89.08	20.787	
9,200.0	7,011.2	9,219.6	6,976.5	46.1	49.1	89.08	-2,138.7	-1,312.0	1,851.7	1,760.9	90.79	20.396	
9,251.9	7,011.0	9,271.6	6,976.2	47.0	50.0	89.08	-2,190.6	-1,312.2	1,851.7	1,758.9	92.71	19.974	
9,300.0	7,010.9	9,319.6	6,976.0	47.9	50.8	89.08	-2,238.7	-1,312.4	1,851.7	1,757.2	94.48	19.598	
9,350.4	7,010.7	9,370.0	6,975.7	48.8	51.7	89.07	-2,289.0	-1,312.5	1,851.7	1,755.3	96.36	19.217	
9,400.0	7,010.5	9,419.6	6,975.5	49.7	52.5	89.07	-2,338.7	-1,312.7	1,851.7	1,753.5	98.20	18.855	
9,448.8	7,010.4	9,468.4	6,975.2	50.6	53.4	89.07	-2,387.5	-1,312.9	1,851.7	1,751.6	100.03	18.512	
9,500.0	7,010.2	9,519.6	6,975.0	51.6	54.3	89.06	-2,438.7	-1,313.1	1,851.7	1,749.7	101.94	18.164	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 7G-203 - 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	
9,547.2	7,010.1	9,566.8	6,974.8	52.5	55.1	89.06	-2,485.9	-1,313.3	1,851.7	1,748.0	103.72	17.853	
9,600.0	7,009.9	9,619.6	6,974.5	53.5	56.1	89.06	-2,538.7	-1,313.5	1,851.7	1,746.0	105.70	17.519	
9,645.6	7,009.8	9,665.2	6,974.3	54.3	56.9	89.06	-2,584.3	-1,313.6	1,851.7	1,744.3	107.42	17.238	
9,700.0	7,009.6	9,719.6	6,974.0	55.3	57.8	89.05	-2,638.6	-1,313.8	1,851.7	1,742.2	109.47	16.915	
9,744.1	7,009.4	9,763.7	6,973.8	56.2	58.6	89.05	-2,682.7	-1,314.0	1,851.7	1,740.6	111.14	16.661	
9,800.0	7,009.3	9,819.6	6,973.5	57.2	59.6	89.05	-2,738.6	-1,314.2	1,851.7	1,738.4	113.25	16.350	
9,842.5	7,009.1	9,862.1	6,973.3	58.0	60.4	89.05	-2,781.1	-1,314.4	1,851.7	1,736.8	114.87	16.120	
9,900.0	7,008.9	9,919.6	6,973.0	59.1	61.4	89.04	-2,838.6	-1,314.6	1,851.7	1,734.7	117.05	15.820	
9,940.9	7,008.8	9,960.5	6,972.8	59.9	62.2	89.04	-2,879.6	-1,314.7	1,851.7	1,733.1	118.61	15.612	
10,000.0	7,008.6	10,019.6	6,972.5	61.0	63.3	89.04	-2,938.6	-1,314.9	1,851.7	1,730.9	120.86	15.321	
10,039.3	7,008.5	10,058.9	6,972.3	61.7	64.0	89.04	-2,978.0	-1,315.1	1,851.7	1,729.4	122.36	15.133	
10,100.0	7,008.3	10,119.6	6,972.0	62.9	65.1	89.03	-3,038.6	-1,315.3	1,851.7	1,727.1	124.68	14.852	
10,137.8	7,008.2	10,157.4	6,971.9	63.6	65.8	89.03	-3,076.4	-1,315.4	1,851.7	1,725.6	126.12	14.682	
10,200.0	7,008.0	10,219.6	6,971.6	64.8	66.9	89.03	-3,138.6	-1,315.7	1,851.7	1,723.2	128.50	14.410	
10,236.2	7,007.9	10,255.8	6,971.4	65.5	67.6	89.03	-3,174.8	-1,315.8	1,851.7	1,721.9	129.89	14.256	
10,300.0	7,007.6	10,319.6	6,971.1	66.7	68.8	89.02	-3,238.6	-1,316.0	1,851.8	1,719.4	132.34	13.992	
10,334.6	7,007.5	10,354.2	6,970.9	67.3	69.4	89.02	-3,273.2	-1,316.2	1,851.8	1,718.1	133.67	13.853	
10,400.0	7,007.3	10,419.6	6,970.6	68.6	70.6	89.02	-3,338.6	-1,316.4	1,851.8	1,715.6	136.18	13.598	
10,433.0	7,007.2	10,452.6	6,970.4	69.2	71.2	89.02	-3,371.7	-1,316.5	1,851.8	1,714.3	137.46	13.472	
10,500.0	7,007.0	10,519.6	6,970.1	70.5	72.5	89.01	-3,438.6	-1,316.8	1,851.8	1,711.7	140.03	13.224	
10,531.5	7,006.9	10,551.1	6,969.9	71.1	73.1	89.01	-3,470.1	-1,316.9	1,851.8	1,710.5	141.25	13.110	
10,600.0	7,006.7	10,619.6	6,969.6	72.4	74.3	89.01	-3,538.6	-1,317.2	1,851.8	1,707.9	143.89	12.869	
10,629.9	7,006.6	10,649.5	6,969.4	73.0	74.9	89.01	-3,568.5	-1,317.3	1,851.8	1,706.7	145.05	12.767	
10,700.0	7,006.4	10,719.6	6,969.1	74.3	76.2	89.00	-3,638.6	-1,317.5	1,851.8	1,704.0	147.75	12.533	
10,728.3	7,006.3	10,747.9	6,969.0	74.9	76.7	89.00	-3,666.9	-1,317.6	1,851.8	1,703.0	148.85	12.441	
10,800.0	7,006.0	10,819.6	6,968.6	76.3	78.1	89.00	-3,738.6	-1,317.9	1,851.8	1,700.2	151.62	12.213	
10,826.7	7,005.9	10,846.3	6,968.5	76.8	78.6	88.99	-3,765.4	-1,318.0	1,851.8	1,699.2	152.66	12.130	
10,900.0	7,005.7	10,919.6	6,968.1	78.2	80.0	88.99	-3,838.6	-1,318.3	1,851.8	1,696.3	155.50	11.909	
10,925.2	7,005.6	10,944.7	6,968.0	78.7	80.4	88.99	-3,863.8	-1,318.4	1,851.8	1,695.4	156.47	11.835	
11,000.0	7,005.4	11,019.6	6,967.6	80.1	81.9	88.99	-3,938.6	-1,318.6	1,851.8	1,692.5	159.37	11.619	
11,023.6	7,005.3	11,043.2	6,967.5	80.6	82.3	88.98	-3,962.2	-1,318.7	1,851.8	1,691.6	160.29	11.553	
11,100.0	7,005.1	11,119.6	6,967.1	82.0	83.8	88.98	-4,038.6	-1,319.0	1,851.9	1,688.6	163.26	11.343	
11,122.0	7,005.0	11,141.6	6,967.0	82.5	84.2	88.98	-4,060.6	-1,319.1	1,851.9	1,687.7	164.11	11.284	
11,200.0	7,004.7	11,219.6	6,966.6	84.0	85.7	88.98	-4,138.6	-1,319.4	1,851.9	1,684.7	167.14	11.079	
11,220.4	7,004.7	11,240.0	6,966.5	84.4	86.0	88.97	-4,159.0	-1,319.5	1,851.9	1,683.9	167.94	11.027	
11,300.0	7,004.4	11,319.6	6,966.1	85.9	87.6	88.97	-4,238.6	-1,319.8	1,851.9	1,680.8	171.03	10.828	
11,318.9	7,004.4	11,338.4	6,966.0	86.3	87.9	88.97	-4,257.5	-1,319.8	1,851.9	1,680.1	171.77	10.781	
11,400.0	7,004.1	11,419.6	6,965.6	87.8	89.5	88.96	-4,338.6	-1,320.1	1,851.9	1,677.0	174.93	10.587	
11,417.3	7,004.0	11,436.9	6,965.6	88.2	89.8	88.96	-4,355.9	-1,320.2	1,851.9	1,676.3	175.60	10.546	
11,500.0	7,003.8	11,519.6	6,965.1	89.8	91.4	88.96	-4,438.6	-1,320.5	1,851.9	1,673.1	178.83	10.356	
11,515.7	7,003.7	11,535.3	6,965.1	90.1	91.7	88.96	-4,454.3	-1,320.6	1,851.9	1,672.5	179.44	10.321	
11,600.0	7,003.4	11,619.6	6,964.6	91.7	93.3	88.95	-4,538.6	-1,320.9	1,851.9	1,669.2	182.73	10.135	
11,614.1	7,003.4	11,633.7	6,964.6	92.0	93.6	88.95	-4,552.7	-1,320.9	1,851.9	1,668.6	183.28	10.104	
11,700.0	7,003.1	11,719.6	6,964.2	93.7	95.2	88.95	-4,638.6	-1,321.2	1,851.9	1,665.3	186.63	9.923	
11,712.6	7,003.1	11,732.1	6,964.1	93.9	95.4	88.95	-4,651.1	-1,321.3	1,851.9	1,664.8	187.12	9.897	
11,800.0	7,002.8	11,819.5	6,963.7	95.6	97.1	88.94	-4,738.6	-1,321.6	1,851.9	1,661.4	190.54	9.720	
11,811.0	7,002.7	11,830.5	6,963.6	95.8	97.3	88.94	-4,749.6	-1,321.7	1,852.0	1,661.0	190.97	9.698	
11,900.0	7,002.5	11,919.5	6,963.2	97.6	99.0	88.94	-4,838.6	-1,322.0	1,852.0	1,657.5	194.44	9.524	
11,909.4	7,002.4	11,929.0	6,963.1	97.7	99.2	88.94	-4,848.0	-1,322.0	1,852.0	1,657.2	194.81	9.506	
12,000.0	7,002.1	12,019.5	6,962.7	99.5	101.0	88.93	-4,938.6	-1,322.4	1,852.0	1,653.6	198.36	9.337	
12,007.8	7,002.1	12,027.4	6,962.6	99.7	101.1	88.93	-4,946.4	-1,322.4	1,852.0	1,653.3	198.66	9.322	
12,100.0	7,001.8	12,119.5	6,962.2	101.5	102.9	88.93	-5,038.5	-1,322.7	1,852.0	1,649.7	202.27	9.156	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,106.3	7,001.8	12,125.8	6,962.1	101.6	103.0	88.93	-5,044.8	-1,322.8	1,852.0	1,649.5	202.52	9.145	
12,200.0	7,001.5	12,219.5	6,961.7	103.4	104.8	88.92	-5,138.5	-1,323.1	1,852.0	1,645.8	206.18	8.982	
12,204.7	7,001.5	12,224.2	6,961.7	103.5	104.9	88.92	-5,143.2	-1,323.1	1,852.0	1,645.6	206.37	8.974	
12,300.0	7,001.2	12,319.5	6,961.2	105.3	106.8	88.92	-5,238.5	-1,323.5	1,852.0	1,641.9	210.10	8.815	
12,303.1	7,001.1	12,322.7	6,961.2	105.4	106.8	88.92	-5,241.7	-1,323.5	1,852.0	1,641.8	210.23	8.810	
12,400.0	7,000.8	12,419.5	6,960.7	107.3	108.7	88.91	-5,338.5	-1,323.8	1,852.0	1,638.0	214.02	8.654	
12,401.5	7,000.8	12,421.1	6,960.7	107.3	108.7	88.91	-5,340.1	-1,323.9	1,852.0	1,638.0	214.08	8.651	
12,500.0	7,000.5	12,519.5	6,960.2	109.3	110.6	88.91	-5,438.5	-1,324.2	1,852.1	1,634.1	217.94	8.498	
12,598.4	7,000.2	12,617.9	6,959.7	111.2	112.5	88.90	-5,536.9	-1,324.6	1,852.1	1,630.3	221.80	8.350	
12,600.0	7,000.2	12,619.5	6,959.7	111.2	112.6	88.90	-5,538.5	-1,324.6	1,852.1	1,630.2	221.87	8.348	
12,696.8	6,999.8	12,716.4	6,959.2	113.1	114.4	88.90	-5,635.3	-1,325.0	1,852.1	1,626.4	225.67	8.207	
12,700.0	6,999.8	12,719.5	6,959.2	113.2	114.5	88.90	-5,638.5	-1,325.0	1,852.1	1,626.3	225.79	8.203	
12,795.2	6,999.5	12,814.8	6,958.7	115.0	116.4	88.89	-5,733.8	-1,325.3	1,852.1	1,622.6	229.53	8.069	
12,800.0	6,999.5	12,819.5	6,958.7	115.1	116.5	88.89	-5,738.5	-1,325.3	1,852.1	1,622.4	229.72	8.063	
12,893.7	6,999.2	12,913.2	6,958.2	116.9	118.3	88.89	-5,832.2	-1,325.7	1,852.1	1,618.7	233.40	7.936	
12,900.0	6,999.2	12,919.5	6,958.2	117.1	118.4	88.89	-5,838.5	-1,325.7	1,852.1	1,618.5	233.65	7.927	
12,992.1	6,998.9	13,011.6	6,957.8	118.9	120.2	88.88	-5,930.6	-1,326.1	1,852.2	1,614.9	237.26	7.806	
13,000.0	6,998.8	13,019.5	6,957.7	119.0	120.3	88.88	-5,938.5	-1,326.1	1,852.2	1,614.6	237.57	7.796	
13,090.5	6,998.6	13,110.0	6,957.3	120.8	122.1	88.88	-6,029.0	-1,326.4	1,852.2	1,611.0	241.13	7.681	
13,100.0	6,998.5	13,119.5	6,957.2	121.0	122.3	88.88	-6,038.5	-1,326.5	1,852.2	1,610.7	241.50	7.669	
13,188.9	6,998.2	13,208.5	6,956.8	122.7	124.0	88.87	-6,127.5	-1,326.8	1,852.2	1,607.2	245.00	7.560	
13,200.0	6,998.2	13,219.5	6,956.7	122.9	124.2	88.87	-6,138.5	-1,326.8	1,852.2	1,606.8	245.44	7.547	
13,287.4	6,997.9	13,306.9	6,956.3	124.6	125.9	88.87	-6,225.9	-1,327.2	1,852.2	1,603.3	248.87	7.442	
13,300.0	6,997.9	13,319.5	6,956.2	124.9	126.2	88.87	-6,238.5	-1,327.2	1,852.2	1,602.8	249.37	7.428	
13,385.8	6,997.6	13,405.3	6,955.8	126.6	127.9	88.86	-6,324.3	-1,327.5	1,852.2	1,599.5	252.74	7.328	
13,400.0	6,997.5	13,419.5	6,955.7	126.9	128.1	88.86	-6,338.5	-1,327.6	1,852.2	1,598.9	253.30	7.312	
13,484.2	6,997.3	13,503.7	6,955.3	128.5	129.8	88.86	-6,422.7	-1,327.9	1,852.2	1,595.6	256.62	7.218	
13,500.0	6,997.2	13,519.5	6,955.2	128.8	130.1	88.86	-6,438.5	-1,327.9	1,852.2	1,595.0	257.24	7.201	
13,582.6	6,996.9	13,602.2	6,954.8	130.4	131.7	88.85	-6,521.1	-1,328.3	1,852.3	1,591.8	260.49	7.111	
13,600.0	6,996.9	13,619.5	6,954.7	130.8	132.0	88.85	-6,538.5	-1,328.3	1,852.3	1,591.1	261.17	7.092	
13,681.1	6,996.6	13,700.6	6,954.3	132.4	133.6	88.85	-6,619.6	-1,328.6	1,852.3	1,587.9	264.37	7.007	
13,700.0	6,996.5	13,719.5	6,954.2	132.7	134.0	88.85	-6,638.5	-1,328.7	1,852.3	1,587.2	265.11	6.987	
13,779.5	6,996.3	13,799.0	6,953.8	134.3	135.5	88.84	-6,718.0	-1,329.0	1,852.3	1,584.1	268.24	6.905	
13,800.0	6,996.2	13,819.5	6,953.7	134.7	135.9	88.84	-6,738.5	-1,329.1	1,852.3	1,583.3	269.05	6.885	
13,877.9	6,995.9	13,897.4	6,953.4	136.2	137.5	88.84	-6,816.4	-1,329.4	1,852.3	1,580.2	272.12	6.807	
13,900.0	6,995.9	13,919.5	6,953.2	136.7	137.9	88.84	-6,838.5	-1,329.4	1,852.3	1,579.3	272.99	6.785	
13,976.3	6,995.6	13,995.9	6,952.9	138.2	139.4	88.83	-6,914.8	-1,329.7	1,852.3	1,576.3	276.00	6.711	
14,000.0	6,995.5	14,019.5	6,952.8	138.6	139.9	88.83	-6,938.5	-1,329.8	1,852.4	1,575.4	276.93	6.689	
14,074.8	6,995.3	14,094.3	6,952.4	140.1	141.3	88.83	-7,013.2	-1,330.1	1,852.4	1,572.5	279.87	6.619	
14,100.0	6,995.2	14,119.5	6,952.3	140.6	141.8	88.83	-7,038.5	-1,330.2	1,852.4	1,571.5	280.85	6.596	
14,129.7	6,995.1	14,149.2	6,952.1	141.1	142.4	88.82	-7,068.1	-1,330.3	1,852.4	1,570.4	281.98	6.569	
14,162.0	6,995.0	14,170.4	6,952.0	141.8	142.8	88.82	-7,089.4	-1,330.4	1,852.4	1,569.4	282.99	6.546 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-119.9	120.0				
98.4	98.4	94.4	94.4	0.1	0.1	-90.00	0.0	-119.9	119.9	119.7	0.19	640.353	
100.0	100.0	96.0	96.0	0.1	0.1	-90.00	0.0	-119.9	119.9	119.7	0.19	629.258	
196.8	196.8	192.8	192.8	0.3	0.3	-90.00	0.0	-119.9	119.9	119.3	0.62	193.129	
200.0	200.0	196.0	196.0	0.3	0.3	-90.00	0.0	-119.9	119.9	119.3	0.63	188.822	
295.3	295.3	291.3	291.3	0.5	0.5	-90.00	0.0	-119.9	119.9	118.8	1.06	112.762	
300.0	300.0	296.0	296.0	0.5	0.5	-90.00	0.0	-119.9	119.9	118.8	1.08	110.554	
393.7	393.7	389.7	389.7	0.8	0.7	-90.00	0.0	-119.9	119.9	118.4	1.51	79.627	
400.0	400.0	396.0	396.0	0.8	0.8	-90.00	0.0	-119.9	119.9	118.4	1.53	78.157	
492.1	492.1	488.1	488.1	1.0	1.0	-90.00	0.0	-119.9	119.9	117.9	1.95	61.543	
500.0	500.0	496.0	496.0	1.0	1.0	-90.00	0.0	-119.9	119.9	117.9	1.98	60.445	
590.5	590.5	586.5	586.5	1.2	1.2	-90.00	0.0	-119.9	119.9	117.5	2.39	50.153	
600.0	600.0	596.0	596.0	1.2	1.2	-90.00	0.0	-119.9	119.9	117.5	2.43	49.277	
689.0	689.0	685.0	685.0	1.4	1.4	-90.00	0.0	-119.9	119.9	117.1	2.83	42.320	
700.0	700.0	696.0	696.0	1.4	1.4	-90.00	0.0	-119.9	119.9	117.0	2.88	41.592	
787.4	787.4	783.4	783.4	1.6	1.6	-90.00	0.0	-119.9	119.9	116.6	3.28	36.604	
800.0	800.0	796.0	796.0	1.7	1.7	-90.00	0.0	-119.9	119.9	116.6	3.33	35.981	
885.8	885.8	881.8	881.8	1.9	1.9	-90.00	0.0	-119.9	119.9	116.2	3.72	32.248	
900.0	900.0	896.0	896.0	1.9	1.9	-90.00	0.0	-119.9	119.9	116.1	3.78	31.704	
984.2	984.2	980.2	980.2	2.1	2.1	-90.00	0.0	-119.9	119.9	115.7	4.16	28.818	
1,000.0	1,000.0	996.0	996.0	2.1	2.1	-90.00	0.0	-119.9	119.9	115.7	4.23	28.336	
1,082.7	1,082.7	1,078.7	1,078.7	2.3	2.3	-90.00	0.0	-119.9	119.9	115.3	4.60	26.048	
1,100.0	1,100.0	1,096.0	1,096.0	2.3	2.3	-90.00	0.0	-119.9	119.9	115.2	4.68	25.615 CC, ES	
1,181.1	1,181.1	1,174.1	1,174.1	2.5	2.5	-152.67	0.3	-120.8	121.9	116.8	5.02	24.254	
1,200.0	1,200.0	1,192.2	1,192.2	2.6	2.5	-152.71	0.4	-121.3	122.9	117.8	5.10	24.082	
1,279.5	1,279.4	1,268.2	1,268.1	2.7	2.7	-152.98	1.3	-124.6	129.8	124.4	5.43	23.902	
1,300.0	1,299.8	1,287.7	1,287.5	2.8	2.7	-153.07	1.7	-125.8	132.3	126.8	5.52	23.979	
1,377.9	1,377.5	1,361.3	1,361.0	3.0	2.9	-153.42	3.3	-131.4	143.9	138.1	5.84	24.644	
1,400.0	1,399.5	1,382.0	1,381.6	3.0	3.0	-153.53	3.8	-133.2	147.9	141.9	5.93	24.938	
1,476.4	1,475.3	1,453.0	1,452.1	3.2	3.1	-153.90	5.9	-140.8	163.9	157.7	6.25	26.242	
1,500.0	1,498.7	1,474.7	1,473.6	3.2	3.2	-154.01	6.7	-143.4	169.6	163.3	6.34	26.737	
1,574.8	1,572.6	1,542.7	1,540.9	3.5	3.4	-154.33	9.3	-152.7	189.8	183.2	6.66	28.522	
1,600.0	1,597.5	1,565.2	1,563.2	3.5	3.4	-154.43	10.3	-156.2	197.4	190.6	6.76	29.202	
1,673.2	1,669.4	1,629.9	1,626.9	3.7	3.6	-154.68	13.3	-166.9	221.4	214.3	7.06	31.340	
1,700.0	1,695.7	1,653.2	1,649.8	3.8	3.7	-154.76	14.5	-171.1	231.0	223.8	7.18	32.191	
1,771.6	1,765.7	1,715.9	1,711.2	4.1	3.9	-155.10	18.0	-183.3	257.7	250.2	7.49	34.387	
1,800.0	1,793.4	1,742.1	1,736.8	4.2	4.0	-155.22	19.5	-188.6	268.5	260.8	7.62	35.215	
1,870.1	1,862.0	1,807.0	1,800.2	4.4	4.2	-155.46	23.1	-201.5	295.0	287.1	7.95	37.115	
1,900.0	1,891.3	1,834.6	1,827.3	4.5	4.3	-155.55	24.7	-207.1	306.4	298.3	8.09	37.889	
1,968.5	1,958.3	1,898.0	1,889.3	4.8	4.5	-155.74	28.3	-219.7	332.3	323.9	8.41	39.529	
2,000.0	1,989.1	1,927.2	1,917.8	4.9	4.6	-155.81	30.0	-225.6	344.3	335.7	8.55	40.248	
2,066.9	2,054.5	1,989.1	1,978.4	5.2	4.9	-155.96	33.5	-238.0	369.6	360.8	8.88	41.644	
2,100.0	2,086.9	2,019.7	2,008.3	5.3	5.0	-156.02	35.2	-244.1	382.2	373.1	9.04	42.295	
2,165.3	2,150.8	2,080.2	2,067.5	5.6	5.2	-156.14	38.7	-256.2	407.0	397.6	9.35	43.505	
2,200.0	2,184.7	2,112.2	2,098.8	5.7	5.4	-156.19	40.5	-262.6	420.1	410.6	9.52	44.112	
2,263.8	2,247.1	2,171.2	2,156.6	5.9	5.6	-156.29	43.8	-274.4	444.3	434.4	9.84	45.154	
2,300.0	2,282.5	2,204.8	2,189.3	6.1	5.7	-156.34	45.7	-281.1	458.0	448.0	10.02	45.717	
2,362.2	2,343.4	2,262.3	2,245.6	6.4	6.0	-156.42	49.0	-292.6	481.6	471.3	10.33	46.621	
2,400.0	2,380.3	2,297.3	2,279.8	6.5	6.1	-156.46	51.0	-299.6	495.9	485.4	10.52	47.144	
2,460.6	2,439.6	2,353.4	2,334.7	6.8	6.4	-156.52	54.2	-310.9	518.9	508.1	10.83	47.929	
2,500.0	2,478.1	2,389.8	2,370.3	6.9	6.5	-156.56	56.2	-318.1	533.9	522.8	11.03	48.416	
2,559.0	2,535.9	2,444.4	2,423.8	7.2	6.7	-156.62	59.3	-329.1	556.2	544.9	11.33	49.103	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,482.3	2,460.8	7.4	6.9	-156.65	61.5	-336.7	571.8	560.2	11.54	49.557	
2,657.5	2,632.2	2,535.5	2,512.9	7.6	7.1	-156.70	64.5	-347.3	593.6	581.7	11.83	50.160	
2,700.0	2,673.8	2,574.9	2,551.4	7.8	7.3	-156.73	66.7	-355.2	609.7	597.7	12.05	50.585	
2,755.9	2,728.4	2,626.6	2,601.9	8.0	7.5	-156.77	69.7	-365.5	630.9	618.6	12.34	51.115	
2,800.0	2,771.6	2,667.4	2,641.9	8.2	7.7	-156.80	72.0	-373.7	647.6	635.1	12.57	51.514	
2,854.3	2,824.7	2,717.7	2,691.0	8.4	7.9	-156.84	74.8	-383.7	668.2	655.4	12.86	51.981	
2,900.0	2,869.4	2,759.9	2,732.4	8.6	8.1	-156.87	77.2	-392.2	685.6	672.5	13.09	52.356	
2,952.7	2,921.0	2,808.7	2,780.1	8.9	8.3	-156.90	80.0	-402.0	705.6	692.2	13.37	52.769	
3,000.0	2,967.2	2,852.4	2,822.9	9.1	8.5	-156.92	82.5	-410.7	723.5	709.9	13.62	53.123	
3,051.2	3,017.3	2,899.8	2,869.2	9.3	8.7	-156.95	85.2	-420.2	742.9	729.0	13.89	53.489	
3,100.0	3,065.0	2,945.0	2,913.4	9.5	8.9	-156.97	87.7	-429.2	761.4	747.3	14.15	53.823	
3,149.6	3,113.5	2,990.9	2,958.3	9.7	9.1	-156.99	90.3	-438.4	780.2	765.8	14.41	54.149	
3,200.0	3,162.8	3,037.5	3,003.9	9.9	9.3	-157.02	93.0	-447.7	799.3	784.7	14.68	54.465	
3,248.0	3,209.8	3,081.9	3,047.3	10.2	9.5	-157.04	95.5	-456.6	817.6	802.6	14.93	54.754	
3,300.0	3,260.7	3,130.0	3,094.4	10.4	9.7	-157.06	98.2	-466.3	837.3	822.1	15.21	55.055	
3,346.4	3,306.1	3,173.0	3,136.4	10.6	9.9	-157.08	100.7	-474.9	854.9	839.4	15.46	55.313	
3,400.0	3,358.5	3,222.5	3,184.9	10.8	10.1	-157.10	103.5	-484.8	875.2	859.5	15.74	55.599	
3,444.9	3,402.4	3,264.1	3,225.5	11.0	10.3	-157.11	105.8	-493.1	892.2	876.2	15.98	55.828	
3,500.0	3,456.3	3,315.1	3,275.4	11.3	10.6	-157.13	108.7	-503.3	913.1	896.8	16.28	56.101	
3,543.3	3,498.6	3,355.1	3,314.6	11.5	10.7	-157.14	111.0	-511.3	929.5	913.0	16.51	56.306	
3,600.0	3,554.1	3,407.6	3,365.9	11.7	11.0	-157.16	114.0	-521.8	951.1	934.2	16.81	56.566	
3,641.7	3,594.9	3,446.2	3,403.6	11.9	11.1	-157.17	116.2	-529.5	966.9	949.8	17.04	56.749	
3,700.0	3,651.9	3,500.1	3,456.4	12.2	11.4	-157.19	119.2	-540.3	989.0	971.6	17.35	56.997	
3,740.1	3,691.2	3,537.3	3,492.7	12.3	11.5	-157.20	121.3	-547.7	1,004.2	986.6	17.57	57.162	
3,800.0	3,749.7	3,592.7	3,546.9	12.6	11.8	-157.22	124.5	-558.8	1,026.9	1,009.0	17.89	57.399	
3,838.6	3,787.5	3,628.3	3,581.8	12.8	12.0	-157.23	126.5	-566.0	1,041.5	1,023.4	18.10	57.546	
3,900.0	3,847.5	3,685.2	3,637.4	13.0	12.2	-157.24	129.7	-577.3	1,064.8	1,046.4	18.43	57.773	
3,937.0	3,883.7	3,719.4	3,670.9	13.2	12.4	-157.25	131.7	-584.2	1,078.9	1,060.2	18.63	57.905	
4,000.0	3,945.4	3,777.7	3,727.9	13.5	12.6	-157.27	135.0	-595.9	1,102.8	1,083.8	18.97	58.123	
4,035.4	3,980.0	3,810.5	3,760.0	13.7	12.8	-157.27	136.8	-602.4	1,116.2	1,097.0	19.17	58.242	
4,068.9	4,012.7	3,841.4	3,790.2	13.8	12.9	-157.28	138.6	-608.6	1,128.9	1,109.6	19.35	58.351	
4,100.0	4,043.2	3,870.3	3,818.5	13.9	13.0	-157.38	140.2	-614.4	1,140.6	1,121.0	19.54	58.375	
4,133.8	4,076.4	3,901.8	3,849.3	14.0	13.2	-157.48	142.0	-620.7	1,152.9	1,133.2	19.74	58.418	
4,200.0	4,141.6	3,963.8	3,909.9	14.2	13.5	-157.64	145.5	-633.1	1,176.1	1,155.9	20.12	58.456	
4,232.3	4,173.4	3,994.2	3,939.6	14.3	13.6	-157.70	147.3	-639.2	1,186.9	1,166.6	20.30	58.468	
4,300.0	4,240.5	4,058.3	4,002.4	14.5	13.9	-157.80	150.9	-652.0	1,208.5	1,187.8	20.68	58.450	
4,330.7	4,271.0	4,087.6	4,031.0	14.6	14.0	-157.83	152.6	-657.9	1,217.9	1,197.0	20.84	58.437	
4,400.0	4,339.9	4,153.8	4,095.8	14.8	14.3	-157.87	156.3	-671.1	1,237.9	1,216.7	21.21	58.369	
4,429.1	4,368.9	4,181.8	4,123.2	14.8	14.5	-157.87	157.9	-676.7	1,245.9	1,224.5	21.36	58.337	
4,500.0	4,439.6	4,250.2	4,190.1	15.0	14.8	-157.86	161.8	-690.4	1,264.2	1,242.5	21.71	58.223	
4,527.5	4,467.1	4,276.9	4,216.2	15.0	14.9	-157.84	163.3	-695.7	1,270.9	1,249.1	21.85	58.176	
4,600.0	4,539.5	4,347.3	4,285.0	15.1	15.2	-157.77	167.3	-709.8	1,287.4	1,265.2	22.19	58.020	
4,626.0	4,565.4	4,372.6	4,309.8	15.2	15.3	-157.74	168.7	-714.9	1,292.9	1,270.6	22.31	57.960	
4,668.9	4,608.4	4,414.6	4,350.9	15.2	15.5	-95.10	171.1	-723.3	1,301.6	1,279.1	22.50	57.846	
4,700.0	4,639.5	4,445.0	4,380.6	15.3	15.7	-95.00	172.8	-729.4	1,307.6	1,285.0	22.64	57.754	
4,724.4	4,663.9	4,468.9	4,403.9	15.3	15.8	-94.92	174.2	-734.1	1,312.4	1,289.6	22.75	57.675	
4,800.0	4,739.5	4,542.8	4,476.3	15.4	16.1	-94.68	178.4	-748.9	1,327.1	1,304.0	23.10	57.440	
4,822.8	4,762.3	4,565.1	4,498.1	15.4	16.2	-94.61	179.7	-753.4	1,331.6	1,308.4	23.21	57.370	
4,900.0	4,839.5	4,640.6	4,571.9	15.6	16.5	-94.37	183.9	-768.5	1,346.7	1,323.1	23.57	57.141	
4,921.2	4,860.7	4,661.4	4,592.3	15.6	16.6	-94.31	185.1	-772.7	1,350.9	1,327.2	23.67	57.078	
5,000.0	4,939.5	4,738.4	4,667.6	15.7	17.0	-94.07	189.5	-788.1	1,366.3	1,342.3	24.03	56.854	
5,019.7	4,959.1	4,757.7	4,686.4	15.7	17.1	-94.01	190.6	-791.9	1,370.1	1,346.0	24.12	56.799	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	4,836.2	4,763.3	15.9	17.4	-93.78	195.0	-807.7	1,385.9	1,361.4	24.49	56.580	
5,118.1	5,057.6	4,853.9	4,780.6	15.9	17.5	-93.73	196.0	-811.2	1,389.5	1,364.9	24.58	56.531	
5,200.0	5,139.5	4,934.1	4,859.0	16.0	17.9	-93.49	200.6	-827.2	1,405.6	1,380.6	24.96	56.317	
5,216.5	5,156.0	4,950.2	4,874.8	16.0	18.0	-93.45	201.5	-830.5	1,408.8	1,383.8	25.03	56.274	
5,300.0	5,239.5	5,031.9	4,954.6	16.2	18.3	-93.22	206.1	-846.8	1,425.3	1,399.8	25.42	56.065	
5,314.9	5,254.4	5,046.5	4,968.9	16.2	18.4	-93.18	207.0	-849.7	1,428.2	1,402.7	25.49	56.028	
5,400.0	5,339.5	5,129.7	5,050.3	16.3	18.8	-92.95	211.7	-866.4	1,445.0	1,419.1	25.88	55.823	
5,413.4	5,352.8	5,142.8	5,063.1	16.3	18.8	-92.91	212.4	-869.0	1,447.6	1,421.7	25.95	55.791	
5,500.0	5,439.5	5,227.5	5,146.0	16.5	19.2	-92.69	217.2	-885.9	1,464.7	1,438.4	26.35	55.590	
5,511.8	5,451.3	5,239.0	5,157.3	16.5	19.3	-92.66	217.9	-888.3	1,467.1	1,440.6	26.40	55.563	
5,600.0	5,539.5	5,325.3	5,241.7	16.6	19.7	-92.43	222.8	-905.5	1,484.5	1,457.7	26.81	55.367	
5,610.2	5,549.7	5,335.3	5,251.4	16.6	19.7	-92.41	223.4	-907.5	1,486.5	1,459.7	26.86	55.344	
5,700.0	5,639.5	5,423.1	5,337.3	16.8	20.1	-92.19	228.3	-925.1	1,504.3	1,477.0	27.28	55.151	
5,708.6	5,648.1	5,431.6	5,345.6	16.8	20.2	-92.17	228.8	-926.8	1,506.0	1,478.7	27.32	55.133	
5,800.0	5,739.5	5,520.9	5,433.0	17.0	20.6	-91.95	233.9	-944.7	1,524.1	1,496.4	27.74	54.944	
5,807.1	5,746.5	5,527.9	5,439.8	17.0	20.6	-91.93	234.3	-946.0	1,525.5	1,497.8	27.77	54.930	
5,900.0	5,839.5	5,618.8	5,528.7	17.1	21.0	-91.71	239.4	-964.2	1,544.0	1,515.8	28.20	54.744	
5,905.5	5,845.0	5,624.1	5,533.9	17.1	21.0	-91.70	239.8	-965.3	1,545.1	1,516.9	28.23	54.733	
6,000.0	5,939.5	5,716.6	5,624.4	17.3	21.5	-91.48	245.0	-983.8	1,563.9	1,535.2	28.67	54.551	
6,003.9	5,943.4	5,720.4	5,628.1	17.3	21.5	-91.47	245.2	-984.6	1,564.7	1,536.0	28.69	54.544	
6,100.0	6,039.5	5,910.0	5,814.6	17.4	22.1	-91.10	254.4	-1,017.1	1,581.2	1,551.9	29.31	53.946	
6,102.3	6,041.8	5,914.9	5,819.5	17.4	22.1	-91.10	254.6	-1,017.8	1,581.5	1,552.2	29.33	53.930	
6,200.0	6,139.5	6,121.7	6,025.0	17.6	22.6	-90.86	260.8	-1,039.4	1,591.7	1,561.8	29.92	53.197	
6,200.8	6,140.2	6,123.4	6,026.7	17.6	22.6	-90.86	260.8	-1,039.5	1,591.7	1,561.8	29.92	53.191	
6,299.2	6,238.7	6,331.5	6,234.7	17.8	22.9	-90.78	262.8	-1,046.6	1,595.0	1,564.6	30.47	52.346	
6,300.0	6,239.5	6,332.3	6,235.5	17.8	22.9	-90.78	262.8	-1,046.6	1,595.0	1,564.6	30.47	52.341	
6,360.9	6,300.4	6,393.3	6,296.4	17.9	23.0	-90.78	262.8	-1,046.6	1,595.0	1,564.3	30.70	51.958	
6,397.6	6,337.1	6,429.9	6,333.1	17.9	23.0	89.04	262.8	-1,046.6	1,595.0	1,564.2	30.82	51.756	
6,400.0	6,339.5	6,432.3	6,335.5	17.9	23.0	89.05	262.8	-1,046.6	1,595.0	1,564.2	30.83	51.743	
6,450.0	6,389.2	6,481.1	6,384.2	18.0	23.1	89.18	262.1	-1,046.6	1,595.0	1,564.0	30.96	51.518	
6,496.0	6,434.7	6,525.7	6,428.7	18.0	23.1	89.32	258.7	-1,046.6	1,594.9	1,563.9	31.05	51.368	
6,500.0	6,438.6	6,529.5	6,432.5	18.0	23.1	89.33	258.3	-1,046.6	1,594.9	1,563.9	31.06	51.357	
6,550.0	6,487.3	6,578.2	6,480.7	18.0	23.2	89.48	251.2	-1,046.6	1,594.9	1,563.8	31.12	51.254	
6,594.5	6,529.8	6,621.8	6,523.2	18.0	23.2	89.61	242.2	-1,046.7	1,594.8	1,563.7	31.15	51.203	
6,600.0	6,535.1	6,627.2	6,528.5	18.1	23.2	89.63	240.8	-1,046.7	1,594.8	1,563.7	31.15	51.198	
6,650.0	6,581.7	6,676.4	6,575.8	18.0	23.2	89.78	227.1	-1,046.7	1,594.8	1,563.7	31.16	51.181	
6,692.9	6,620.6	6,718.9	6,615.7	18.0	23.2	89.92	212.7	-1,046.8	1,594.8	1,563.6	31.16	51.187	
6,700.0	6,626.9	6,726.0	6,622.3	18.0	23.2	89.94	210.0	-1,046.8	1,594.8	1,563.6	31.16	51.189	
6,719.7	6,644.3	6,745.5	6,640.3	18.0	23.2	90.00	202.4	-1,046.8	1,594.8	1,563.7	31.15	51.196	
6,750.0	6,670.6	6,775.8	6,667.8	18.0	23.2	90.09	189.7	-1,046.9	1,594.8	1,563.7	31.14	51.210	
6,791.3	6,705.4	6,817.2	6,704.4	18.0	23.2	90.22	170.4	-1,046.9	1,594.8	1,563.7	31.13	51.223	
6,800.0	6,712.5	6,826.0	6,712.0	18.0	23.2	90.25	166.1	-1,046.9	1,594.8	1,563.7	31.13	51.226	
6,850.0	6,752.3	6,876.4	6,754.7	18.0	23.2	90.41	139.2	-1,047.0	1,594.8	1,563.7	31.14	51.221	
6,889.7	6,782.5	6,916.8	6,787.4	18.0	23.2	90.53	115.6	-1,047.1	1,594.9	1,563.7	31.16	51.186	
6,900.0	6,790.0	6,927.2	6,795.7	18.0	23.2	90.56	109.2	-1,047.2	1,594.9	1,563.7	31.17	51.175	
6,950.0	6,825.3	6,978.3	6,834.6	18.0	23.2	90.71	76.2	-1,047.3	1,594.9	1,563.7	31.23	51.069	
6,988.2	6,850.5	7,017.5	6,862.9	17.9	23.2	90.82	49.0	-1,047.4	1,595.0	1,563.7	31.32	50.931	
7,000.0	6,858.0	7,029.7	6,871.4	17.9	23.2	90.86	40.3	-1,047.4	1,595.0	1,563.6	31.35	50.884	
7,050.0	6,888.0	7,081.4	6,905.6	18.0	23.2	91.00	1.6	-1,047.6	1,595.1	1,563.5	31.52	50.603	
7,086.6	6,908.1	7,119.4	6,929.0	18.0	23.2	91.11	-28.4	-1,047.7	1,595.1	1,563.4	31.70	50.317	
7,100.0	6,915.1	7,133.4	6,937.2	18.0	23.2	91.14	-39.8	-1,047.7	1,595.1	1,563.4	31.77	50.210	
7,150.0	6,939.2	7,185.7	6,965.8	18.0	23.3	91.28	-83.6	-1,047.9	1,595.2	1,563.1	32.09	49.705	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
7,185.0	6,954.3	7,222.6	6,984.0	18.1	23.3	91.37	-115.6	-1,048.0	1,595.3	1,562.9	32.38	49.265	
7,200.0	6,960.3	7,238.4	6,991.3	18.1	23.3	91.41	-129.6	-1,048.0	1,595.3	1,562.8	32.51	49.072	
7,250.0	6,978.1	7,291.3	7,013.5	18.3	23.4	91.53	-177.6	-1,048.2	1,595.4	1,562.4	33.02	48.319	
7,283.4	6,988.2	7,326.8	7,026.3	18.4	23.5	91.61	-210.8	-1,048.3	1,595.4	1,562.0	33.42	47.741	
7,300.0	6,992.6	7,344.5	7,032.1	18.4	23.5	91.64	-227.4	-1,048.4	1,595.5	1,561.8	33.62	47.455	
7,350.0	7,003.7	7,397.9	7,047.1	18.7	23.6	91.75	-278.7	-1,048.6	1,595.6	1,561.2	34.32	46.492	
7,381.9	7,009.1	7,432.1	7,054.6	18.9	23.7	91.81	-312.1	-1,048.7	1,595.6	1,560.8	34.82	45.822	
7,400.0	7,011.4	7,451.6	7,058.2	19.0	23.8	91.85	-331.2	-1,048.8	1,595.6	1,560.5	35.11	45.446	
7,450.0	7,015.7	7,505.5	7,065.4	19.3	24.0	91.94	-384.7	-1,049.0	1,595.7	1,559.7	35.99	44.338	
7,480.3	7,016.6	7,538.3	7,067.8	19.6	24.2	91.98	-417.3	-1,049.1	1,595.8	1,559.2	36.56	43.642	
7,488.2	7,016.6	7,546.8	7,068.2	19.6	24.2	92.00	-425.9	-1,049.1	1,595.8	1,559.1	36.71	43.465	
7,500.0	7,016.6	7,559.6	7,068.5	19.7	24.3	92.01	-438.7	-1,049.2	1,595.8	1,558.8	36.95	43.189	
7,578.7	7,016.3	7,639.9	7,068.3	20.5	24.8	92.01	-518.9	-1,049.5	1,595.8	1,557.2	38.55	41.396	
7,600.0	7,016.2	7,661.1	7,068.2	20.7	24.9	92.01	-540.2	-1,049.5	1,595.8	1,556.8	38.98	40.942	
7,677.1	7,016.0	7,738.3	7,067.7	21.6	25.5	92.00	-617.3	-1,049.8	1,595.8	1,555.1	40.67	39.233	
7,700.0	7,015.9	7,761.1	7,067.5	21.8	25.7	92.00	-640.2	-1,049.9	1,595.8	1,554.6	41.19	38.741	
7,775.6	7,015.7	7,836.7	7,067.1	22.7	26.4	91.99	-715.7	-1,050.2	1,595.8	1,552.7	43.06	37.059	
7,800.0	7,015.6	7,861.1	7,066.9	23.0	26.6	91.99	-740.2	-1,050.3	1,595.8	1,552.1	43.69	36.525	
7,874.0	7,015.4	7,935.1	7,066.4	24.0	27.4	91.98	-814.1	-1,050.5	1,595.8	1,550.1	45.70	34.920	
7,900.0	7,015.3	7,961.1	7,066.3	24.4	27.7	91.97	-840.1	-1,050.6	1,595.8	1,549.3	46.41	34.381	
7,972.4	7,015.1	8,033.6	7,065.8	25.4	28.5	91.97	-912.6	-1,050.9	1,595.8	1,547.3	48.49	32.906	
8,000.0	7,015.0	8,061.1	7,065.7	25.8	28.8	91.96	-940.1	-1,051.0	1,595.7	1,546.5	49.30	32.370	
8,070.8	7,014.8	8,132.0	7,065.2	26.8	29.7	91.96	-1,011.0	-1,051.3	1,595.7	1,544.3	51.43	31.030	
8,100.0	7,014.7	8,161.1	7,065.0	27.3	30.1	91.95	-1,040.1	-1,051.4	1,595.7	1,543.4	52.31	30.505	
8,169.3	7,014.4	8,230.4	7,064.6	28.3	31.0	91.94	-1,109.4	-1,051.6	1,595.7	1,541.3	54.47	29.296	
8,200.0	7,014.4	8,261.1	7,064.4	28.8	31.4	91.94	-1,140.1	-1,051.7	1,595.7	1,540.3	55.44	28.785	
8,267.7	7,014.1	8,328.8	7,064.0	29.9	32.3	91.93	-1,207.8	-1,052.0	1,595.7	1,538.1	57.61	27.699	
8,300.0	7,014.0	8,361.1	7,063.8	30.4	32.7	91.93	-1,240.1	-1,052.1	1,595.7	1,537.1	58.65	27.206	
8,366.1	7,013.8	8,427.3	7,063.4	31.5	33.7	91.92	-1,306.3	-1,052.4	1,595.7	1,534.9	60.83	26.233	
8,400.0	7,013.7	8,461.1	7,063.1	32.0	34.2	91.92	-1,340.1	-1,052.5	1,595.7	1,533.8	61.95	25.758	
8,464.5	7,013.5	8,525.7	7,062.7	33.1	35.1	91.91	-1,404.7	-1,052.7	1,595.7	1,531.6	64.12	24.888	
8,500.0	7,013.4	8,561.1	7,062.5	33.7	35.7	91.91	-1,440.1	-1,052.8	1,595.7	1,530.4	65.31	24.432	
8,563.0	7,013.2	8,624.1	7,062.1	34.8	36.6	91.90	-1,503.1	-1,053.1	1,595.7	1,528.2	67.46	23.654	
8,600.0	7,013.1	8,661.1	7,061.9	35.4	37.2	91.90	-1,540.1	-1,053.2	1,595.7	1,527.0	68.73	23.217	
8,661.4	7,012.9	8,722.5	7,061.5	36.5	38.2	91.89	-1,601.5	-1,053.4	1,595.7	1,524.8	70.86	22.520	
8,700.0	7,012.8	8,761.1	7,061.3	37.1	38.8	91.89	-1,640.1	-1,053.6	1,595.7	1,523.5	72.20	22.102	
8,759.8	7,012.6	8,820.9	7,060.9	38.2	39.7	91.88	-1,699.9	-1,053.8	1,595.7	1,521.4	74.29	21.478	
8,800.0	7,012.4	8,861.1	7,060.6	38.9	40.4	91.87	-1,740.1	-1,054.0	1,595.7	1,520.0	75.71	21.077	
8,858.2	7,012.3	8,919.4	7,060.3	39.9	41.3	91.87	-1,798.4	-1,054.2	1,595.7	1,517.9	77.77	20.518	
8,900.0	7,012.1	8,961.1	7,060.0	40.7	42.0	91.86	-1,840.1	-1,054.3	1,595.7	1,516.4	79.25	20.134	
8,956.7	7,011.9	9,017.8	7,059.6	41.7	42.9	91.86	-1,896.8	-1,054.5	1,595.7	1,514.4	81.28	19.633	
9,000.0	7,011.8	9,061.1	7,059.4	42.4	43.7	91.85	-1,940.1	-1,054.7	1,595.7	1,512.8	82.83	19.265	
9,055.1	7,011.6	9,116.2	7,059.0	43.4	44.6	91.85	-1,995.2	-1,054.9	1,595.7	1,510.9	84.81	18.814	
9,100.0	7,011.5	9,161.1	7,058.7	44.2	45.3	91.84	-2,040.1	-1,055.1	1,595.7	1,509.2	86.43	18.461	
9,153.5	7,011.3	9,214.6	7,058.4	45.2	46.2	91.83	-2,093.6	-1,055.3	1,595.7	1,507.3	88.37	18.056	
9,200.0	7,011.2	9,261.1	7,058.1	46.1	47.0	91.83	-2,140.1	-1,055.4	1,595.7	1,505.6	90.06	17.717	
9,251.9	7,011.0	9,313.1	7,057.8	47.0	47.9	91.82	-2,192.0	-1,055.6	1,595.7	1,503.7	91.96	17.352	
9,300.0	7,010.9	9,361.1	7,057.5	47.9	48.7	91.82	-2,240.1	-1,055.8	1,595.7	1,501.9	93.71	17.027	
9,350.4	7,010.7	9,411.5	7,057.2	48.8	49.6	91.81	-2,290.5	-1,056.0	1,595.7	1,500.1	95.56	16.698	
9,400.0	7,010.5	9,461.1	7,056.9	49.7	50.5	91.81	-2,340.1	-1,056.2	1,595.7	1,498.3	97.38	16.385	
9,448.8	7,010.4	9,509.9	7,056.5	50.6	51.3	91.80	-2,388.9	-1,056.3	1,595.7	1,496.5	99.18	16.088	
9,500.0	7,010.2	9,561.1	7,056.2	51.6	52.2	91.80	-2,440.1	-1,056.5	1,595.7	1,494.6	101.07	15.787	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	7,010.1	9,608.3	7,055.9	52.5	53.0	91.79	-2,487.3	-1,056.7	1,595.6	1,492.8	102.82	15.519	
9,600.0	7,009.9	9,661.1	7,055.6	53.5	54.0	91.78	-2,540.1	-1,056.9	1,595.6	1,490.9	104.77	15.229	
9,645.6	7,009.8	9,706.7	7,055.3	54.3	54.8	91.78	-2,585.7	-1,057.1	1,595.6	1,489.2	106.47	14.987	
9,700.0	7,009.6	9,761.1	7,055.0	55.3	55.7	91.77	-2,640.1	-1,057.3	1,595.6	1,487.2	108.49	14.708	
9,744.1	7,009.4	9,805.2	7,054.7	56.2	56.5	91.77	-2,684.1	-1,057.4	1,595.6	1,485.5	110.13	14.488	
9,800.0	7,009.3	9,861.1	7,054.3	57.2	57.5	91.76	-2,740.1	-1,057.6	1,595.6	1,483.4	112.22	14.219	
9,842.5	7,009.1	9,903.6	7,054.1	58.0	58.3	91.76	-2,782.6	-1,057.8	1,595.6	1,481.8	113.81	14.021	
9,900.0	7,008.9	9,961.1	7,053.7	59.1	59.3	91.75	-2,840.1	-1,058.0	1,595.6	1,479.7	115.96	13.760	
9,940.9	7,008.8	10,002.0	7,053.5	59.9	60.0	91.75	-2,881.0	-1,058.2	1,595.6	1,478.1	117.49	13.581	
10,000.0	7,008.6	10,061.1	7,053.1	61.0	61.1	91.74	-2,940.0	-1,058.4	1,595.6	1,475.9	119.71	13.329	
10,039.3	7,008.5	10,100.4	7,052.8	61.7	61.8	91.74	-2,979.4	-1,058.5	1,595.6	1,474.4	121.19	13.167	
10,100.0	7,008.3	10,161.1	7,052.5	62.9	62.9	91.73	-3,040.0	-1,058.7	1,595.6	1,472.2	123.47	12.924	
10,137.8	7,008.2	10,198.9	7,052.2	63.6	63.5	91.73	-3,077.8	-1,058.9	1,595.6	1,470.7	124.89	12.776	
10,200.0	7,008.0	10,261.1	7,051.8	64.8	64.7	91.72	-3,140.0	-1,059.1	1,595.6	1,468.4	127.23	12.541	
10,236.2	7,007.9	10,297.3	7,051.6	65.5	65.3	91.71	-3,176.2	-1,059.3	1,595.6	1,467.0	128.60	12.408	
10,300.0	7,007.6	10,361.1	7,051.2	66.7	66.5	91.71	-3,240.0	-1,059.5	1,595.6	1,464.6	131.01	12.179	
10,334.6	7,007.5	10,395.7	7,051.0	67.3	67.1	91.70	-3,274.7	-1,059.6	1,595.6	1,463.3	132.32	12.059	
10,400.0	7,007.3	10,461.1	7,050.6	68.6	68.3	91.70	-3,340.0	-1,059.9	1,595.6	1,460.8	134.79	11.838	
10,433.0	7,007.2	10,494.1	7,050.4	69.2	68.9	91.69	-3,373.1	-1,060.0	1,595.6	1,459.6	136.04	11.729	
10,500.0	7,007.0	10,561.1	7,049.9	70.5	70.1	91.69	-3,440.0	-1,060.2	1,595.6	1,457.0	138.58	11.514	
10,531.5	7,006.9	10,592.6	7,049.7	71.1	70.7	91.68	-3,471.5	-1,060.3	1,595.6	1,455.9	139.77	11.416	
10,600.0	7,006.7	10,661.1	7,049.3	72.4	72.0	91.67	-3,540.0	-1,060.6	1,595.6	1,453.3	142.37	11.207	
10,629.9	7,006.6	10,691.0	7,049.1	73.0	72.5	91.67	-3,569.9	-1,060.7	1,595.6	1,452.1	143.51	11.119	
10,700.0	7,006.4	10,761.1	7,048.7	74.3	73.8	91.66	-3,640.0	-1,061.0	1,595.6	1,449.5	146.17	10.916	
10,728.3	7,006.3	10,789.4	7,048.5	74.9	74.3	91.66	-3,668.3	-1,061.1	1,595.6	1,448.4	147.25	10.836	
10,772.2	7,006.1	10,833.3	7,048.2	75.7	75.1	91.66	-3,712.2	-1,061.2	1,595.6	1,446.7	148.92	10.714	
10,800.0	7,006.0	10,861.1	7,048.1	76.3	75.6	91.65	-3,740.0	-1,061.3	1,595.6	1,445.6	149.98	10.639	
10,826.7	7,005.9	10,887.8	7,047.9	76.8	76.1	91.65	-3,766.8	-1,061.4	1,595.6	1,444.6	151.00	10.567	
10,900.0	7,005.7	10,961.1	7,047.4	78.2	77.5	91.64	-3,840.0	-1,061.7	1,595.6	1,441.8	153.79	10.375	
10,925.2	7,005.6	10,986.3	7,047.3	78.7	77.9	91.64	-3,865.2	-1,061.8	1,595.6	1,440.9	154.75	10.311	
11,000.0	7,005.4	11,061.1	7,046.8	80.1	79.3	91.63	-3,940.0	-1,062.1	1,595.6	1,438.0	157.60	10.124	
11,023.6	7,005.3	11,084.7	7,046.7	80.6	79.8	91.63	-3,963.6	-1,062.2	1,595.6	1,437.1	158.50	10.067	
11,100.0	7,005.1	11,161.1	7,046.2	82.0	81.2	91.62	-4,040.0	-1,062.4	1,595.6	1,434.2	161.42	9.885	
11,122.0	7,005.0	11,183.1	7,046.0	82.5	81.6	91.62	-4,062.0	-1,062.5	1,595.6	1,433.4	162.26	9.834	
11,200.0	7,004.7	11,261.1	7,045.5	84.0	83.0	91.61	-4,140.0	-1,062.8	1,595.6	1,430.4	165.24	9.656	
11,220.4	7,004.7	11,281.5	7,045.4	84.4	83.4	91.61	-4,160.4	-1,062.9	1,595.6	1,429.6	166.03	9.611	
11,300.0	7,004.4	11,361.1	7,044.9	85.9	84.9	91.60	-4,240.0	-1,063.2	1,595.6	1,426.6	169.07	9.438	
11,318.9	7,004.4	11,379.9	7,044.8	86.3	85.2	91.60	-4,258.9	-1,063.3	1,595.6	1,425.8	169.79	9.398	
11,400.0	7,004.1	11,461.1	7,044.3	87.8	86.7	91.59	-4,340.0	-1,063.6	1,595.6	1,422.7	172.90	9.229	
11,417.3	7,004.0	11,478.4	7,044.2	88.2	87.0	91.59	-4,357.3	-1,063.6	1,595.6	1,422.1	173.56	9.193	
11,500.0	7,003.8	11,561.1	7,043.7	89.8	88.6	91.58	-4,440.0	-1,063.9	1,595.6	1,418.9	176.73	9.029	
11,515.7	7,003.7	11,576.8	7,043.6	90.1	88.9	91.57	-4,455.7	-1,064.0	1,595.6	1,418.3	177.33	8.998	
11,600.0	7,003.4	11,661.1	7,043.0	91.7	90.5	91.57	-4,540.0	-1,064.3	1,595.6	1,415.1	180.56	8.837	
11,614.1	7,003.4	11,675.2	7,042.9	92.0	90.7	91.56	-4,554.1	-1,064.4	1,595.6	1,414.5	181.11	8.810	
11,700.0	7,003.1	11,761.1	7,042.4	93.7	92.3	91.55	-4,640.0	-1,064.7	1,595.6	1,411.2	184.40	8.653	
11,712.6	7,003.1	11,773.6	7,042.3	93.9	92.6	91.55	-4,652.5	-1,064.7	1,595.6	1,410.8	184.88	8.630	
11,800.0	7,002.8	11,861.1	7,041.8	95.6	94.2	91.54	-4,740.0	-1,065.0	1,595.6	1,407.4	188.24	8.477	
11,811.0	7,002.7	11,872.1	7,041.7	95.8	94.4	91.54	-4,751.0	-1,065.1	1,595.6	1,407.0	188.66	8.458	
11,900.0	7,002.5	11,961.1	7,041.1	97.6	96.1	91.53	-4,840.0	-1,065.4	1,595.6	1,403.6	192.08	8.307	
11,909.4	7,002.4	11,970.5	7,041.1	97.7	96.2	91.53	-4,849.4	-1,065.4	1,595.6	1,403.2	192.45	8.291	
12,000.0	7,002.1	12,061.1	7,040.5	99.5	97.9	91.52	-4,940.0	-1,065.8	1,595.6	1,399.7	195.93	8.144	
12,007.8	7,002.1	12,068.9	7,040.5	99.7	98.1	91.52	-4,947.8	-1,065.8	1,595.6	1,399.4	196.23	8.131	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 7G-323 - 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	
12,100.0	7,001.8	12,161.1	7,039.9	101.5	99.8	91.51	-5,040.0	-1,066.2	1,595.7	1,395.9	199.78	7.987	
12,106.3	7,001.8	12,167.3	7,039.8	101.6	99.9	91.51	-5,046.2	-1,066.2	1,595.7	1,395.6	200.02	7.978	
12,200.0	7,001.5	12,261.0	7,039.3	103.4	101.7	91.50	-5,139.9	-1,066.5	1,595.7	1,392.0	203.62	7.836	
12,204.7	7,001.5	12,265.7	7,039.2	103.5	101.8	91.50	-5,144.6	-1,066.5	1,595.7	1,391.9	203.81	7.829	
12,300.0	7,001.2	12,361.0	7,038.6	105.3	103.5	91.49	-5,239.9	-1,066.9	1,595.7	1,388.2	207.47	7.691	
12,303.1	7,001.1	12,364.2	7,038.6	105.4	103.6	91.49	-5,243.1	-1,066.9	1,595.7	1,388.1	207.60	7.686	
12,400.0	7,000.8	12,461.0	7,038.0	107.3	105.4	91.48	-5,339.9	-1,067.3	1,595.7	1,384.3	211.33	7.551	
12,401.5	7,000.8	12,462.6	7,038.0	107.3	105.5	91.48	-5,341.5	-1,067.3	1,595.7	1,384.3	211.39	7.549	
12,500.0	7,000.5	12,561.0	7,037.4	109.3	107.3	91.47	-5,439.9	-1,067.6	1,595.7	1,380.5	215.18	7.415	
12,598.4	7,000.2	12,659.4	7,036.8	111.2	109.2	91.46	-5,538.3	-1,068.0	1,595.7	1,376.7	218.98	7.287	
12,600.0	7,000.2	12,661.0	7,036.7	111.2	109.2	91.46	-5,539.9	-1,068.0	1,595.7	1,376.6	219.04	7.285	
12,696.8	6,999.8	12,757.9	7,036.1	113.1	111.0	91.45	-5,636.7	-1,068.4	1,595.7	1,372.9	222.77	7.163	
12,700.0	6,999.8	12,761.0	7,036.1	113.2	111.1	91.45	-5,639.9	-1,068.4	1,595.7	1,372.8	222.89	7.159	
12,795.2	6,999.5	12,856.3	7,035.5	115.0	112.9	91.44	-5,735.2	-1,068.7	1,595.7	1,369.1	226.57	7.043	
12,800.0	6,999.5	12,861.0	7,035.5	115.1	113.0	91.44	-5,739.9	-1,068.8	1,595.7	1,368.9	226.75	7.037	
12,893.7	6,999.2	12,954.7	7,034.9	116.9	114.7	91.43	-5,833.6	-1,069.1	1,595.7	1,365.3	230.37	6.927	
12,900.0	6,999.2	12,961.0	7,034.9	117.1	114.8	91.42	-5,839.9	-1,069.1	1,595.7	1,365.1	230.61	6.919	
12,992.1	6,998.9	13,053.1	7,034.3	118.9	116.6	91.41	-5,932.0	-1,069.5	1,595.7	1,361.5	234.17	6.814	
13,000.0	6,998.8	13,061.0	7,034.2	119.0	116.7	91.41	-5,939.9	-1,069.5	1,595.7	1,361.2	234.47	6.805	
13,090.5	6,998.6	13,151.6	7,033.7	120.8	118.4	91.40	-6,030.4	-1,069.8	1,595.7	1,357.7	237.97	6.705	
13,100.0	6,998.5	13,161.0	7,033.6	121.0	118.6	91.40	-6,039.9	-1,069.9	1,595.7	1,357.4	238.34	6.695	
13,188.9	6,998.2	13,250.0	7,033.0	122.7	120.3	91.39	-6,128.9	-1,070.2	1,595.7	1,353.9	241.77	6.600	
13,200.0	6,998.2	13,261.0	7,033.0	122.9	120.5	91.39	-6,139.9	-1,070.2	1,595.7	1,353.5	242.20	6.588	
13,287.4	6,997.9	13,348.4	7,032.4	124.6	122.1	91.38	-6,227.3	-1,070.6	1,595.7	1,350.1	245.58	6.498	
13,300.0	6,997.9	13,361.0	7,032.3	124.9	122.4	91.38	-6,239.9	-1,070.6	1,595.7	1,349.7	246.07	6.485	
13,385.8	6,997.6	13,446.8	7,031.8	126.6	124.0	91.37	-6,325.7	-1,070.9	1,595.7	1,346.4	249.38	6.399	
13,400.0	6,997.5	13,461.0	7,031.7	126.9	124.3	91.37	-6,339.9	-1,071.0	1,595.7	1,345.8	249.93	6.385	
13,484.2	6,997.3	13,545.2	7,031.2	128.5	125.9	91.36	-6,424.1	-1,071.3	1,595.7	1,342.6	253.19	6.303	
13,500.0	6,997.2	13,561.0	7,031.1	128.8	126.2	91.36	-6,439.9	-1,071.4	1,595.7	1,341.9	253.80	6.287	
13,582.6	6,996.9	13,643.7	7,030.6	130.4	127.7	91.35	-6,522.5	-1,071.7	1,595.7	1,338.8	256.99	6.209	
13,600.0	6,996.9	13,661.0	7,030.5	130.8	128.1	91.35	-6,539.9	-1,071.7	1,595.8	1,338.1	257.67	6.193	
13,681.1	6,996.6	13,742.1	7,029.9	132.4	129.6	91.34	-6,621.0	-1,072.0	1,595.8	1,335.0	260.80	6.119	
13,700.0	6,996.5	13,761.0	7,029.8	132.7	130.0	91.34	-6,639.9	-1,072.1	1,595.8	1,334.2	261.53	6.102	
13,779.5	6,996.3	13,840.5	7,029.3	134.3	131.5	91.33	-6,719.4	-1,072.4	1,595.8	1,331.2	264.61	6.031	
13,800.0	6,996.2	13,861.0	7,029.2	134.7	131.8	91.33	-6,739.9	-1,072.5	1,595.8	1,330.4	265.40	6.013	
13,877.9	6,995.9	13,938.9	7,028.7	136.2	133.3	91.32	-6,817.8	-1,072.8	1,595.8	1,327.4	268.42	5.945	
13,900.0	6,995.9	13,961.0	7,028.6	136.7	133.7	91.32	-6,839.9	-1,072.9	1,595.8	1,326.5	269.28	5.926	
13,976.3	6,995.6	14,037.4	7,028.1	138.2	135.2	91.31	-6,916.2	-1,073.1	1,595.8	1,323.6	272.23	5.862	
14,000.0	6,995.5	14,061.0	7,027.9	138.6	135.6	91.31	-6,939.9	-1,073.2	1,595.8	1,322.6	273.15	5.842	
14,074.8	6,995.3	14,135.8	7,027.5	140.1	137.0	91.30	-7,014.6	-1,073.5	1,595.8	1,319.8	276.04	5.781	
14,100.0	6,995.2	14,161.0	7,027.3	140.6	137.5	91.30	-7,039.9	-1,073.6	1,595.8	1,318.8	277.02	5.761	
14,130.0	6,995.1	14,191.0	7,027.1	141.2	138.1	91.29	-7,069.8	-1,073.7	1,595.8	1,317.6	278.16	5.737	
14,162.0	6,995.0	14,210.5	7,027.0	141.8	138.5	91.29	-7,089.4	-1,073.8	1,595.9	1,316.7	279.14	5.717 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-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 CC, ES	
1,181.1	1,181.1	1,180.1	1,180.1	2.5	2.5	-153.51	0.0	-30.7	31.7	26.6	5.05	6.282	
1,200.0	1,200.0	1,199.0	1,199.0	2.6	2.6	-153.98	0.0	-30.7	32.2	27.1	5.13	6.285	
1,279.5	1,279.4	1,279.0	1,279.0	2.7	2.7	-155.35	0.9	-30.0	35.1	29.6	5.47	6.410	
1,300.0	1,299.8	1,299.7	1,299.6	2.8	2.8	-155.46	1.4	-29.6	35.9	30.3	5.56	6.459	
1,377.9	1,377.5	1,378.2	1,378.1	3.0	3.0	-155.11	4.5	-27.4	39.4	33.5	5.89	6.693	
1,400.0	1,399.5	1,400.4	1,400.2	3.0	3.0	-154.82	5.6	-26.5	40.5	34.5	5.98	6.773	
1,476.4	1,475.3	1,477.3	1,476.9	3.2	3.2	-153.33	10.8	-22.7	44.7	38.4	6.31	7.084	
1,500.0	1,498.7	1,501.2	1,500.6	3.2	3.2	-152.74	12.7	-21.3	46.1	39.7	6.41	7.193	
1,574.8	1,572.6	1,576.5	1,575.4	3.5	3.4	-150.58	19.9	-16.0	51.0	44.2	6.74	7.562	
1,600.0	1,597.5	1,601.9	1,600.6	3.5	3.5	-149.78	22.6	-13.9	52.8	45.9	6.86	7.698	
1,673.2	1,669.4	1,675.6	1,673.5	3.7	3.7	-147.33	31.7	-7.2	58.4	51.2	7.21	8.105	
1,700.0	1,695.7	1,702.6	1,700.1	3.8	3.8	-146.40	35.4	-4.5	60.7	53.3	7.34	8.265	
1,771.6	1,765.7	1,774.7	1,770.9	4.1	4.0	-143.51	46.2	3.5	66.4	58.7	7.75	8.572	
1,800.0	1,793.4	1,803.2	1,798.8	4.2	4.1	-142.13	50.9	7.0	68.5	60.6	7.91	8.654	
1,870.1	1,862.0	1,873.0	1,867.0	4.4	4.3	-138.89	62.5	15.6	73.7	65.3	8.36	8.816	
1,900.0	1,891.3	1,902.8	1,896.2	4.5	4.4	-137.65	67.5	19.3	76.0	67.4	8.55	8.883	
1,968.5	1,958.3	1,971.0	1,962.9	4.8	4.6	-135.06	78.9	27.7	81.3	72.3	9.02	9.016	
2,000.0	1,989.1	2,002.4	1,993.6	4.9	4.7	-133.99	84.1	31.6	83.8	74.6	9.24	9.075	
2,066.9	2,054.5	2,069.0	2,058.7	5.2	5.0	-131.90	95.3	39.8	89.3	79.5	9.72	9.184	
2,100.0	2,086.9	2,101.9	2,090.9	5.3	5.1	-130.96	100.8	43.9	92.0	82.0	9.96	9.235	
2,165.3	2,150.8	2,167.0	2,154.6	5.6	5.3	-129.26	111.7	52.0	97.4	87.0	10.45	9.323	
2,200.0	2,184.7	2,201.5	2,188.3	5.7	5.5	-128.43	117.4	56.2	100.3	89.6	10.71	9.367	
2,263.8	2,247.1	2,265.0	2,250.4	5.9	5.7	-127.03	128.0	64.1	105.8	94.6	11.20	9.439	
2,300.0	2,282.5	2,301.0	2,285.7	6.1	5.8	-126.30	134.1	68.6	108.9	97.4	11.49	9.478	
2,362.2	2,343.4	2,363.0	2,346.3	6.4	6.1	-125.13	144.4	76.2	114.2	102.3	11.98	9.537	
2,400.0	2,380.3	2,400.6	2,383.1	6.5	6.2	-124.47	150.7	80.9	117.5	105.2	12.28	9.571	
2,460.6	2,439.6	2,461.0	2,442.1	6.8	6.5	-123.49	160.8	88.3	122.8	110.0	12.77	9.620	
2,500.0	2,478.1	2,500.2	2,480.5	6.9	6.6	-122.90	167.4	93.2	126.3	113.2	13.08	9.651	
2,559.0	2,535.9	2,559.0	2,538.0	7.2	6.9	-122.07	177.2	100.5	131.5	117.9	13.57	9.692	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,600.0	2,576.0	2,599.7	2,577.9	7.4	7.0	-121.53	184.0	105.5	135.1	121.2	13.90	9.719	
2,657.5	2,632.2	2,656.9	2,633.8	7.6	7.3	-120.82	193.6	112.6	140.2	125.8	14.38	9.753	
2,700.0	2,673.8	2,699.3	2,675.2	7.8	7.5	-120.33	200.6	117.8	144.0	129.3	14.73	9.778	
2,755.9	2,728.4	2,754.9	2,729.7	8.0	7.7	-119.72	209.9	124.7	149.0	133.8	15.19	9.807	
2,800.0	2,771.6	2,798.8	2,772.6	8.2	7.9	-119.27	217.3	130.1	153.0	137.4	15.56	9.829	
2,854.3	2,824.7	2,852.9	2,825.5	8.4	8.1	-118.75	226.3	136.8	157.9	141.8	16.02	9.855	
2,900.0	2,869.4	2,898.3	2,870.0	8.6	8.3	-118.43	233.7	142.3	162.0	145.6	16.38	9.890	
2,952.7	2,921.0	2,950.7	2,921.4	8.9	8.4	-118.40	241.5	148.0	166.8	150.1	16.75	9.958	
3,000.0	2,967.2	2,997.6	2,967.7	9.1	8.6	-118.64	247.8	152.7	171.2	154.1	17.07	10.025	
3,051.2	3,017.3	3,048.3	3,017.8	9.3	8.7	-119.17	254.0	157.3	175.9	158.5	17.40	10.113	
3,100.0	3,065.0	3,096.7	3,065.7	9.5	8.9	-119.92	259.2	161.1	180.6	162.9	17.70	10.204	
3,149.6	3,113.5	3,145.7	3,114.4	9.7	9.0	-120.89	263.8	164.5	185.4	167.4	17.97	10.315	
3,200.0	3,162.8	3,195.3	3,163.8	9.9	9.1	-122.09	267.8	167.5	190.4	172.2	18.24	10.442	
3,248.0	3,209.8	3,242.5	3,210.8	10.2	9.2	-123.40	270.9	169.8	195.4	176.9	18.46	10.584	
3,300.0	3,260.7	3,293.3	3,261.5	10.4	9.3	-124.99	273.6	171.8	201.0	182.4	18.69	10.759	
3,346.4	3,306.1	3,338.6	3,306.7	10.6	9.4	-126.53	275.4	173.2	206.4	187.5	18.86	10.942	
3,400.0	3,358.5	3,390.5	3,358.6	10.8	9.5	-128.44	276.8	174.2	212.9	193.8	19.04	11.181	
3,444.9	3,402.4	3,433.7	3,401.8	11.0	9.6	-130.13	277.3	174.6	218.7	199.5	19.16	11.411	
3,500.0	3,456.3	3,487.2	3,455.3	11.3	9.6	-132.28	277.4	174.6	226.3	207.0	19.30	11.725	
3,543.3	3,498.6	3,529.5	3,497.6	11.5	9.7	-133.90	277.4	174.6	232.5	213.1	19.41	11.980	
3,600.0	3,554.1	3,585.0	3,553.1	11.7	9.8	-135.90	277.4	174.6	240.9	221.4	19.55	12.322	
3,641.7	3,594.9	3,625.8	3,593.9	11.9	9.9	-137.28	277.4	174.6	247.3	227.7	19.66	12.578	
3,700.0	3,651.9	3,682.8	3,650.9	12.2	10.0	-139.10	277.4	174.6	256.4	236.6	19.81	12.942	
3,740.1	3,691.2	3,722.1	3,690.2	12.3	10.0	-140.29	277.4	174.6	262.9	242.9	19.92	13.196	
3,800.0	3,749.7	3,780.6	3,748.7	12.6	10.1	-141.94	277.4	174.6	272.6	252.5	20.08	13.575	
3,838.6	3,787.5	3,818.3	3,786.5	12.8	10.2	-142.95	277.4	174.6	279.0	258.9	20.19	13.821	
3,900.0	3,847.5	3,878.4	3,846.5	13.0	10.3	-144.46	277.4	174.6	289.4	269.0	20.37	14.211	
3,937.0	3,883.7	3,914.6	3,882.7	13.2	10.4	-145.32	277.4	174.6	295.8	275.3	20.47	14.446	
4,000.0	3,945.4	3,976.2	3,944.4	13.5	10.5	-146.71	277.4	174.6	306.7	286.0	20.66	14.844	
4,035.4	3,980.0	4,010.9	3,979.0	13.7	10.5	-147.44	277.4	174.6	312.9	292.1	20.77	15.066	
4,068.9	4,012.7	4,043.6	4,011.7	13.8	10.6	-148.11	277.4	174.6	318.8	298.0	20.87	15.274	
4,100.0	4,043.2	4,074.1	4,042.2	13.9	10.7	-148.75	277.4	174.6	324.2	303.3	20.97	15.460	
4,133.8	4,076.4	4,107.3	4,075.4	14.0	10.7	-149.39	277.4	174.6	329.8	308.8	21.07	15.653	
4,200.0	4,141.6	4,172.4	4,140.6	14.2	10.8	-150.48	277.4	174.6	339.8	318.6	21.28	15.973	
4,232.3	4,173.4	4,204.3	4,172.4	14.3	10.9	-150.94	277.4	174.6	344.3	322.9	21.38	16.107	
4,300.0	4,240.5	4,271.4	4,239.5	14.5	11.0	-151.76	277.4	174.6	352.6	331.0	21.59	16.331	
4,330.7	4,271.0	4,301.8	4,270.0	14.6	11.1	-152.08	277.4	174.6	356.0	334.3	21.69	16.413	
4,400.0	4,339.9	4,370.7	4,338.9	14.8	11.2	-152.68	277.4	174.6	362.5	340.6	21.91	16.542	
4,429.1	4,368.9	4,399.7	4,367.9	14.8	11.2	-152.89	277.4	174.6	364.8	342.8	22.00	16.578	
4,500.0	4,439.6	4,470.4	4,438.6	15.0	11.4	-153.29	277.4	174.6	369.3	347.1	22.23	16.611	
4,527.5	4,467.1	4,498.0	4,466.1	15.0	11.4	-153.40	277.4	174.6	370.6	348.3	22.32	16.607	
4,600.0	4,539.5	4,570.4	4,538.5	15.1	11.6	-153.61	277.4	174.6	373.0	350.5	22.55	16.544	
4,626.0	4,565.4	4,596.3	4,564.4	15.2	11.6	-153.65	277.4	174.6	373.5	350.8	22.63	16.506	
4,668.9	4,608.4	4,639.3	4,607.4	15.2	11.7	-91.10	277.4	174.6	373.7	351.0	22.74	16.436	
4,700.0	4,639.5	4,670.3	4,638.5	15.3	11.7	-91.10	277.4	174.6	373.7	350.9	22.85	16.354	
4,724.4	4,663.9	4,694.7	4,662.9	15.3	11.8	-91.10	277.4	174.6	373.7	350.8	22.95	16.288	
4,800.0	4,739.5	4,770.3	4,738.5	15.4	11.9	-91.10	277.4	174.6	373.7	350.5	23.23	16.088	
4,822.8	4,762.3	4,793.2	4,761.3	15.4	12.0	-91.10	277.4	174.6	373.7	350.4	23.32	16.028	
4,900.0	4,839.5	4,870.3	4,838.5	15.6	12.1	-91.10	277.4	174.6	373.7	350.1	23.61	15.829	
4,921.2	4,860.7	4,891.6	4,859.7	15.6	12.2	-91.10	277.4	174.6	373.7	350.0	23.69	15.774	
5,000.0	4,939.5	4,970.3	4,938.5	15.7	12.3	-91.10	277.4	174.6	373.7	349.7	23.99	15.576	
5,019.7	4,959.1	4,990.0	4,958.1	15.7	12.4	-91.10	277.4	174.6	373.7	349.7	24.07	15.527	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	5,070.3	5,038.5	15.9	12.5	-91.10	277.4	174.6	373.7	349.4	24.38	15.330	
5,118.1	5,057.6	5,088.4	5,056.6	15.9	12.5	-91.10	277.4	174.6	373.7	349.3	24.45	15.286	
5,200.0	5,139.5	5,170.3	5,138.5	16.0	12.7	-91.10	277.4	174.6	373.7	349.0	24.77	15.090	
5,216.5	5,156.0	5,186.9	5,155.0	16.0	12.7	-91.10	277.4	174.6	373.7	348.9	24.83	15.051	
5,300.0	5,239.5	5,270.3	5,238.5	16.2	12.9	-91.10	277.4	174.6	373.7	348.6	25.16	14.856	
5,314.9	5,254.4	5,285.3	5,253.4	16.2	12.9	-91.10	277.4	174.6	373.7	348.5	25.22	14.822	
5,400.0	5,339.5	5,370.3	5,338.5	16.3	13.1	-91.10	277.4	174.6	373.7	348.2	25.55	14.629	
5,413.4	5,352.8	5,383.7	5,351.8	16.3	13.1	-91.10	277.4	174.6	373.7	348.1	25.60	14.599	
5,500.0	5,439.5	5,470.3	5,438.5	16.5	13.3	-91.10	277.4	174.6	373.7	347.8	25.94	14.407	
5,511.8	5,451.3	5,482.1	5,450.3	16.5	13.3	-91.10	277.4	174.6	373.7	347.8	25.99	14.381	
5,600.0	5,539.5	5,570.3	5,538.5	16.6	13.5	-91.10	277.4	174.6	373.7	347.4	26.34	14.191	
5,610.2	5,549.7	5,580.6	5,548.7	16.6	13.5	-91.10	277.4	174.6	373.7	347.4	26.38	14.169	
5,700.0	5,639.5	5,670.3	5,638.5	16.8	13.7	-91.10	277.4	174.6	373.7	347.0	26.73	13.980	
5,708.6	5,648.1	5,679.0	5,647.1	16.8	13.7	-91.10	277.4	174.6	373.7	347.0	26.77	13.962	
5,800.0	5,739.5	5,770.3	5,738.5	17.0	13.9	-91.10	277.4	174.6	373.7	346.6	27.13	13.775	
5,807.1	5,746.5	5,777.4	5,745.5	17.0	13.9	-91.10	277.4	174.6	373.7	346.6	27.16	13.761	
5,900.0	5,839.5	5,870.3	5,838.5	17.1	14.1	-91.10	277.4	174.6	373.7	346.2	27.53	13.575	
5,905.5	5,845.0	5,875.8	5,844.0	17.1	14.1	-91.10	277.4	174.6	373.7	346.2	27.55	13.564	
6,000.0	5,939.5	5,970.3	5,938.5	17.3	14.3	-91.10	277.4	174.6	373.7	345.8	27.93	13.380	
6,003.9	5,943.4	5,974.3	5,942.4	17.3	14.3	-91.10	277.4	174.6	373.7	345.8	27.95	13.372	
6,100.0	6,039.5	6,070.3	6,038.5	17.4	14.5	-91.10	277.4	174.6	373.7	345.4	28.34	13.190	
6,102.3	6,041.8	6,072.7	6,040.8	17.4	14.5	-91.10	277.4	174.6	373.7	345.4	28.35	13.185	
6,200.0	6,139.5	6,170.3	6,138.5	17.6	14.7	-91.10	277.4	174.6	373.7	345.0	28.74	13.004	
6,200.8	6,140.2	6,171.1	6,139.2	17.6	14.7	-91.10	277.4	174.6	373.7	345.0	28.74	13.003	
6,299.2	6,238.7	6,269.5	6,237.7	17.8	14.9	-91.10	277.4	174.6	373.7	344.6	29.14	12.825	
6,300.0	6,239.5	6,270.3	6,238.5	17.8	14.9	-91.10	277.4	174.6	373.7	344.6	29.15	12.823	
6,301.5	6,241.0	6,271.9	6,240.0	17.8	14.9	-91.10	277.4	174.6	373.7	344.6	29.15	12.820	
6,360.9	6,300.4	6,330.7	6,298.8	17.9	15.0	-91.29	276.2	174.6	373.8	344.4	29.35	12.733	
6,397.6	6,337.1	6,366.8	6,334.8	17.9	15.0	88.17	273.1	174.6	373.8	344.4	29.45	12.695	
6,400.0	6,339.5	6,369.1	6,337.1	17.9	15.0	88.15	272.9	174.6	373.8	344.4	29.45	12.693	
6,450.0	6,389.2	6,418.1	6,385.5	18.0	15.1	87.71	265.7	174.6	373.9	344.4	29.52	12.668	
6,496.0	6,434.7	6,463.1	6,429.5	18.0	15.1	87.31	256.2	174.6	374.1	344.5	29.55	12.657	
6,500.0	6,438.6	6,466.9	6,433.2	18.0	15.1	87.28	255.3	174.5	374.1	344.5	29.55	12.657	
6,550.0	6,487.3	6,515.6	6,479.9	18.0	15.1	86.87	241.7	174.5	374.2	344.6	29.56	12.659	
6,594.5	6,529.8	6,558.7	6,520.4	18.0	15.1	86.51	227.0	174.4	374.3	344.8	29.55	12.668	
6,600.0	6,535.1	6,564.0	6,525.4	18.1	15.1	86.47	225.0	174.4	374.4	344.8	29.55	12.669	
6,650.0	6,581.7	6,612.3	6,569.5	18.0	15.1	86.09	205.4	174.4	374.5	345.0	29.52	12.686	
6,692.9	6,620.6	6,653.6	6,606.1	18.0	15.1	85.78	186.3	174.3	374.7	345.2	29.49	12.703	
6,700.0	6,626.9	6,660.5	6,612.1	18.0	15.1	85.73	182.9	174.3	374.7	345.2	29.49	12.706	
6,750.0	6,670.6	6,708.5	6,652.9	18.0	15.1	85.39	157.7	174.2	374.9	345.4	29.46	12.724	
6,791.3	6,705.4	6,748.0	6,685.3	18.0	15.1	85.13	134.9	174.1	375.0	345.6	29.45	12.734	
6,800.0	6,712.5	6,756.3	6,691.9	18.0	15.1	85.07	129.9	174.1	375.0	345.6	29.45	12.735	
6,850.0	6,752.3	6,804.1	6,728.8	18.0	15.1	84.78	99.7	174.0	375.2	345.7	29.46	12.737	
6,889.7	6,782.5	6,842.0	6,756.6	18.0	15.1	84.56	74.0	173.9	375.3	345.8	29.49	12.726	
6,900.0	6,790.0	6,851.7	6,763.6	18.0	15.1	84.51	67.1	173.9	375.4	345.9	29.50	12.723	
6,950.0	6,825.3	6,900.0	6,796.5	18.0	15.1	84.26	31.8	173.7	375.5	345.9	29.59	12.690	
6,988.2	6,850.5	6,935.5	6,819.1	17.9	15.1	84.10	4.5	173.6	375.6	345.9	29.70	12.646	
7,000.0	6,858.0	6,946.7	6,826.0	17.9	15.1	84.05	-4.4	173.6	375.7	345.9	29.74	12.633	
7,050.0	6,888.0	6,994.1	6,853.5	18.0	15.1	83.86	-42.9	173.5	375.8	345.9	29.94	12.551	
7,086.6	6,908.1	7,028.7	6,871.9	18.0	15.1	83.74	-72.3	173.3	375.9	345.7	30.14	12.472	
7,100.0	6,915.1	7,041.4	6,878.3	18.0	15.2	83.70	-83.2	173.3	375.9	345.7	30.22	12.440	
7,150.0	6,939.2	7,088.6	6,900.4	18.0	15.4	83.57	-124.9	173.2	376.0	345.4	30.57	12.300	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,954.3	7,121.7	6,914.2	18.1	15.5	83.49	-155.0	173.0	376.1	345.2	30.87	12.183	
7,200.0	6,960.3	7,135.8	6,919.6	18.1	15.6	83.46	-168.0	173.0	376.1	345.1	31.00	12.132	
7,250.0	6,978.1	7,183.0	6,936.0	18.3	15.9	83.39	-212.2	172.8	376.1	344.6	31.51	11.936	
7,283.4	6,988.2	7,214.5	6,945.3	18.4	16.1	83.36	-242.4	172.7	376.2	344.3	31.91	11.790	
7,300.0	6,992.6	7,230.1	6,949.4	18.4	16.2	83.35	-257.4	172.7	376.2	344.1	32.11	11.716	
7,350.0	7,003.7	7,277.2	6,959.9	18.7	16.6	83.34	-303.4	172.5	376.2	343.4	32.79	11.474	
7,381.9	7,009.1	7,307.3	6,964.9	18.9	16.8	83.35	-333.0	172.4	376.2	342.9	33.26	11.310	
7,400.0	7,011.4	7,324.4	6,967.3	19.0	17.0	83.36	-349.9	172.3	376.2	342.6	33.54	11.216	
7,450.0	7,015.7	7,371.5	6,971.6	19.3	17.4	83.40	-396.8	172.2	376.1	341.8	34.37	10.945	
7,480.3	7,016.6	7,400.0	6,972.7	19.6	17.7	83.45	-425.3	172.1	376.1	341.2	34.90	10.777	
7,488.2	7,016.6	7,407.5	6,972.8	19.6	17.7	83.46	-432.8	172.0	376.1	341.0	35.04	10.733	
7,496.9	7,016.6	7,415.7	6,972.8	19.7	17.8	83.47	-441.0	172.0	376.1	340.9	35.21	10.682	
7,500.0	7,016.6	7,418.7	6,972.8	19.7	17.9	83.47	-444.0	172.0	376.1	340.8	35.27	10.664	
7,578.7	7,016.3	7,497.3	6,972.1	20.5	18.7	83.40	-522.6	171.7	376.1	339.2	36.91	10.190	
7,600.0	7,016.2	7,518.6	6,971.9	20.7	18.9	83.38	-543.9	171.6	376.2	338.8	37.38	10.064	
7,677.1	7,016.0	7,595.7	6,971.2	21.6	19.9	83.31	-621.0	171.3	376.2	337.0	39.17	9.604	
7,700.0	7,015.9	7,618.6	6,971.0	21.8	20.1	83.29	-643.9	171.3	376.2	336.5	39.72	9.471	
7,775.6	7,015.7	7,694.2	6,970.3	22.7	21.1	83.22	-719.5	171.0	376.3	334.6	41.66	9.033	
7,800.0	7,015.6	7,718.6	6,970.1	23.0	21.5	83.20	-743.9	170.9	376.3	334.0	42.30	8.896	
7,874.0	7,015.4	7,792.6	6,969.4	24.0	22.5	83.13	-817.9	170.6	376.3	332.0	44.34	8.488	
7,900.0	7,015.3	7,818.6	6,969.1	24.4	22.9	83.11	-843.9	170.5	376.4	331.3	45.07	8.350	
7,972.4	7,015.1	7,891.0	6,968.5	25.4	23.9	83.05	-916.3	170.3	376.4	329.2	47.19	7.977	
8,000.0	7,015.0	7,918.6	6,968.2	25.8	24.3	83.02	-943.9	170.2	376.4	328.4	48.01	7.841	
8,070.8	7,014.8	7,989.4	6,967.6	26.8	25.4	82.96	-1,014.7	169.9	376.5	326.3	50.17	7.504	
8,100.0	7,014.7	8,018.6	6,967.3	27.3	25.9	82.93	-1,043.9	169.8	376.5	325.4	51.07	7.372	
8,169.3	7,014.4	8,087.9	6,966.7	28.3	27.0	82.87	-1,113.1	169.5	376.6	323.3	53.27	7.069	
8,200.0	7,014.4	8,118.6	6,966.4	28.8	27.5	82.84	-1,143.9	169.4	376.6	322.3	54.25	6.941	
8,267.7	7,014.1	8,186.3	6,965.8	29.9	28.6	82.78	-1,211.6	169.2	376.6	320.2	56.46	6.670	
8,300.0	7,014.0	8,218.6	6,965.5	30.4	29.2	82.75	-1,243.9	169.1	376.7	319.1	57.53	6.548	
8,366.1	7,013.8	8,284.7	6,964.9	31.5	30.3	82.69	-1,310.0	168.8	376.7	317.0	59.74	6.306	
8,400.0	7,013.7	8,318.6	6,964.6	32.0	30.8	82.66	-1,343.9	168.7	376.7	315.9	60.88	6.189	
8,464.5	7,013.5	8,383.1	6,964.0	33.1	32.0	82.61	-1,408.4	168.5	376.8	313.7	63.08	5.973	
8,500.0	7,013.4	8,418.6	6,963.7	33.7	32.6	82.57	-1,443.8	168.3	376.8	312.5	64.29	5.861	
8,563.0	7,013.2	8,481.5	6,963.1	34.8	33.7	82.52	-1,506.8	168.1	376.9	310.4	66.47	5.669	
8,600.0	7,013.1	8,518.6	6,962.8	35.4	34.3	82.48	-1,543.8	168.0	376.9	309.1	67.76	5.562	
8,661.4	7,012.9	8,580.0	6,962.2	36.5	35.4	82.43	-1,605.2	167.7	376.9	307.0	69.91	5.391	
8,700.0	7,012.8	8,618.6	6,961.9	37.1	36.1	82.40	-1,643.8	167.6	377.0	305.7	71.27	5.289	
8,759.8	7,012.6	8,678.4	6,961.3	38.2	37.2	82.34	-1,703.7	167.4	377.0	303.6	73.40	5.137	
8,800.0	7,012.4	8,718.6	6,961.0	38.9	37.9	82.31	-1,743.8	167.2	377.0	302.2	74.83	5.039	
8,858.2	7,012.3	8,776.8	6,960.4	39.9	39.0	82.25	-1,802.1	167.0	377.1	300.2	76.92	4.903	
8,900.0	7,012.1	8,818.6	6,960.1	40.7	39.7	82.22	-1,843.8	166.9	377.1	298.7	78.42	4.809	
8,956.7	7,011.9	8,875.2	6,959.5	41.7	40.8	82.17	-1,900.5	166.7	377.2	296.7	80.47	4.687	
9,000.0	7,011.8	8,918.6	6,959.2	42.4	41.6	82.13	-1,943.8	166.5	377.2	295.2	82.03	4.598	
9,055.1	7,011.6	8,973.7	6,958.6	43.4	42.6	82.08	-1,998.9	166.3	377.2	293.2	84.04	4.489	
9,100.0	7,011.5	9,018.6	6,958.2	44.2	43.4	82.04	-2,043.8	166.1	377.3	291.6	85.68	4.404	
9,153.5	7,011.3	9,072.1	6,957.8	45.2	44.4	81.99	-2,097.3	165.9	377.3	289.7	87.64	4.306	
9,200.0	7,011.2	9,118.6	6,957.3	46.1	45.3	81.95	-2,143.8	165.8	377.4	288.0	89.34	4.224	
9,251.9	7,011.0	9,170.5	6,956.9	47.0	46.2	81.90	-2,195.7	165.6	377.4	286.2	91.26	4.136	
9,300.0	7,010.9	9,218.6	6,956.4	47.9	47.1	81.86	-2,243.8	165.4	377.5	284.4	93.03	4.057	
9,350.4	7,010.7	9,268.9	6,956.0	48.8	48.1	81.82	-2,294.2	165.2	377.5	282.6	94.89	3.978	
9,400.0	7,010.5	9,318.6	6,955.5	49.7	49.0	81.77	-2,343.8	165.0	377.5	280.8	96.73	3.903	
9,448.8	7,010.4	9,367.4	6,955.1	50.6	50.0	81.73	-2,392.6	164.9	377.6	279.0	98.54	3.832	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	7,010.2	9,418.6	6,954.6	51.6	50.9	81.68	-2,443.8	164.7	377.6	277.2	100.45	3.760	
9,547.2	7,010.1	9,465.8	6,954.2	52.5	51.8	81.64	-2,491.0	164.5	377.7	275.5	102.21	3.695	
9,600.0	7,009.9	9,518.6	6,953.7	53.5	52.8	81.60	-2,543.8	164.3	377.7	273.5	104.17	3.626	
9,645.6	7,009.8	9,564.2	6,953.3	54.3	53.7	81.55	-2,589.4	164.1	377.8	271.9	105.88	3.568	
9,700.0	7,009.6	9,618.6	6,952.8	55.3	54.7	81.51	-2,643.8	163.9	377.8	269.9	107.91	3.501	
9,744.1	7,009.4	9,662.6	6,952.4	56.2	55.6	81.47	-2,687.8	163.8	377.8	268.3	109.57	3.448	
9,800.0	7,009.3	9,718.6	6,951.9	57.2	56.6	81.42	-2,743.8	163.6	377.9	266.2	111.67	3.384	
9,842.5	7,009.1	9,761.1	6,951.5	58.0	57.4	81.38	-2,786.3	163.4	377.9	264.7	113.26	3.337	
9,900.0	7,008.9	9,818.6	6,951.0	59.1	58.5	81.33	-2,843.8	163.2	378.0	262.6	115.42	3.275	
9,940.9	7,008.8	9,859.5	6,950.6	59.9	59.3	81.29	-2,884.7	163.1	378.0	261.0	116.97	3.232	
10,000.0	7,008.6	9,918.6	6,950.0	61.0	60.5	81.24	-2,943.8	162.9	378.1	258.9	119.19	3.172	
10,039.3	7,008.5	9,957.9	6,949.7	61.7	61.2	81.21	-2,983.1	162.7	378.1	257.4	120.68	3.133	
10,100.0	7,008.3	10,018.5	6,949.1	62.9	62.4	81.15	-3,043.7	162.5	378.2	255.2	122.97	3.075	
10,137.8	7,008.2	10,056.3	6,948.8	63.6	63.1	81.12	-3,081.5	162.4	378.2	253.8	124.39	3.040	
10,200.0	7,008.0	10,118.5	6,948.2	64.8	64.3	81.06	-3,143.7	162.1	378.3	251.5	126.75	2.984	
10,236.2	7,007.9	10,154.7	6,947.9	65.5	65.0	81.03	-3,179.9	162.0	378.3	250.2	128.12	2.953	
10,300.0	7,007.6	10,218.5	6,947.3	66.7	66.3	80.98	-3,243.7	161.8	378.3	247.8	130.53	2.899	
10,334.6	7,007.5	10,253.2	6,947.0	67.3	66.9	80.95	-3,278.4	161.6	378.4	246.5	131.84	2.870	
10,400.0	7,007.3	10,318.5	6,946.4	68.6	68.2	80.89	-3,343.7	161.4	378.4	244.1	134.32	2.817	
10,433.0	7,007.2	10,351.6	6,946.1	69.2	68.8	80.86	-3,376.8	161.3	378.5	242.9	135.57	2.792	
10,500.0	7,007.0	10,418.5	6,945.5	70.5	70.1	80.80	-3,443.7	161.0	378.5	240.4	138.11	2.741	
10,531.5	7,006.9	10,450.0	6,945.2	71.1	70.7	80.77	-3,475.2	160.9	378.6	239.3	139.31	2.717	
10,600.0	7,006.7	10,518.5	6,944.6	72.4	72.1	80.71	-3,543.7	160.7	378.6	236.7	141.91	2.668	
10,629.9	7,006.6	10,548.4	6,944.3	73.0	72.7	80.69	-3,573.6	160.6	378.7	235.6	143.05	2.647	
10,700.0	7,006.4	10,618.5	6,943.7	74.3	74.0	80.62	-3,643.7	160.3	378.7	233.0	145.71	2.599	
10,728.3	7,006.3	10,646.9	6,943.4	74.9	74.6	80.60	-3,672.0	160.2	378.8	232.0	146.79	2.580	
10,800.0	7,006.0	10,718.5	6,942.7	76.3	76.0	80.54	-3,743.7	159.9	378.8	229.3	149.52	2.534	
10,826.7	7,005.9	10,745.3	6,942.5	76.8	76.5	80.51	-3,770.5	159.9	378.9	228.3	150.54	2.517	
10,900.0	7,005.7	10,818.5	6,941.8	78.2	77.9	80.45	-3,843.7	159.6	378.9	225.6	153.32	2.471	
10,925.2	7,005.6	10,843.7	6,941.6	78.7	78.4	80.43	-3,868.9	159.5	378.9	224.7	154.28	2.456	
11,000.0	7,005.4	10,918.5	6,940.9	80.1	79.9	80.36	-3,943.7	159.2	379.0	221.9	157.13	2.412	
11,023.6	7,005.3	10,942.1	6,940.7	80.6	80.3	80.34	-3,967.3	159.1	379.0	221.0	158.03	2.399	
11,100.0	7,005.1	11,018.5	6,940.0	82.0	81.8	80.27	-4,043.7	158.9	379.1	218.2	160.94	2.356	
11,122.0	7,005.0	11,040.6	6,939.8	82.5	82.3	80.25	-4,065.7	158.8	379.1	217.4	161.78	2.344	
11,200.0	7,004.7	11,118.5	6,939.1	84.0	83.8	80.19	-4,143.7	158.5	379.2	214.5	164.75	2.302	
11,220.4	7,004.7	11,139.0	6,938.9	84.4	84.2	80.17	-4,164.1	158.4	379.2	213.7	165.53	2.291	
11,300.0	7,004.4	11,218.5	6,938.2	85.9	85.7	80.10	-4,243.7	158.1	379.3	210.8	168.57	2.250	
11,318.9	7,004.4	11,237.4	6,938.0	86.3	86.1	80.08	-4,262.5	158.1	379.3	210.1	169.29	2.241	
11,400.0	7,004.1	11,318.5	6,937.3	87.8	87.7	80.01	-4,343.7	157.8	379.4	207.1	172.38	2.201	
11,417.3	7,004.0	11,335.8	6,937.1	88.2	88.0	80.00	-4,361.0	157.7	379.5	206.4	173.04	2.193	
11,500.0	7,003.8	11,418.5	6,936.4	89.8	89.7	79.92	-4,443.7	157.4	379.5	203.3	176.20	2.154	
11,515.7	7,003.7	11,434.3	6,936.2	90.1	90.0	79.91	-4,459.4	157.4	379.6	202.8	176.80	2.147	
11,600.0	7,003.4	11,518.5	6,935.4	91.7	91.6	79.84	-4,543.7	157.0	379.6	199.6	180.01	2.109	
11,614.1	7,003.4	11,532.7	6,935.3	92.0	91.9	79.82	-4,557.8	157.0	379.7	199.1	180.55	2.103	
11,700.0	7,003.1	11,618.5	6,934.5	93.7	93.6	79.75	-4,643.6	156.7	379.7	195.9	183.83	2.066	
11,712.6	7,003.1	11,631.1	6,934.4	93.9	93.8	79.74	-4,656.2	156.6	379.8	195.5	184.31	2.061	
11,800.0	7,002.8	11,718.5	6,933.6	95.6	95.5	79.66	-4,743.6	156.3	379.9	192.2	187.64	2.024	
11,811.0	7,002.7	11,729.5	6,933.5	95.8	95.8	79.65	-4,754.6	156.3	379.9	191.8	188.06	2.020	
11,900.0	7,002.5	11,818.5	6,932.7	97.6	97.5	79.57	-4,843.6	156.0	380.0	188.5	191.46	1.985	
11,909.4	7,002.4	11,827.9	6,932.6	97.7	97.7	79.57	-4,853.1	155.9	380.0	188.2	191.82	1.981	
12,000.0	7,002.1	11,918.5	6,931.8	99.5	99.5	79.49	-4,943.6	155.6	380.1	184.8	195.27	1.946	
12,007.8	7,002.1	11,926.4	6,931.7	99.7	99.6	79.48	-4,951.5	155.6	380.1	184.5	195.57	1.943	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	7,001.8	12,018.5	6,930.9	101.5	101.4	79.40	-5,043.6	155.2	380.2	181.1	199.09	1.910	
12,106.3	7,001.8	12,024.8	6,930.8	101.6	101.6	79.39	-5,049.9	155.2	380.2	180.9	199.33	1.907	
12,200.0	7,001.5	12,118.5	6,930.0	103.4	103.4	79.31	-5,143.6	154.9	380.3	177.4	202.90	1.874	
12,204.7	7,001.5	12,123.2	6,929.9	103.5	103.5	79.31	-5,148.3	154.9	380.3	177.2	203.08	1.873	
12,300.0	7,001.2	12,218.5	6,929.0	105.3	105.4	79.23	-5,243.6	154.5	380.4	173.7	206.72	1.840	
12,303.1	7,001.1	12,221.6	6,929.0	105.4	105.4	79.22	-5,246.7	154.5	380.4	173.6	206.83	1.839	
12,400.0	7,000.8	12,318.5	6,928.1	107.3	107.4	79.14	-5,343.6	154.2	380.5	170.0	210.53	1.807	
12,401.5	7,000.8	12,320.1	6,928.1	107.3	107.4	79.14	-5,345.2	154.2	380.5	169.9	210.59	1.807	
12,500.0	7,000.5	12,418.5	6,927.2	109.3	109.3	79.05	-5,443.6	153.8	380.6	166.3	214.34	1.776	
12,598.4	7,000.2	12,516.9	6,926.3	111.2	111.3	78.97	-5,542.0	153.4	380.7	162.6	218.09	1.746	
12,600.0	7,000.2	12,518.5	6,926.3	111.2	111.3	78.97	-5,543.6	153.4	380.7	162.6	218.15	1.745	
12,696.8	6,999.8	12,615.3	6,925.4	113.1	113.2	78.88	-5,640.4	153.1	380.9	159.0	221.84	1.717	
12,700.0	6,999.8	12,618.5	6,925.4	113.2	113.3	78.88	-5,643.6	153.1	380.9	158.9	221.96	1.716	
12,795.2	6,999.5	12,713.8	6,924.5	115.0	115.1	78.80	-5,738.8	152.7	381.0	155.4	225.59	1.689	
12,800.0	6,999.5	12,718.5	6,924.5	115.1	115.2	78.79	-5,743.6	152.7	381.0	155.2	225.77	1.687	
12,893.7	6,999.2	12,812.2	6,923.6	116.9	117.1	78.71	-5,837.2	152.4	381.1	151.7	229.34	1.662	
12,900.0	6,999.2	12,818.5	6,923.6	117.1	117.2	78.71	-5,843.6	152.4	381.1	151.5	229.58	1.660	
12,992.1	6,998.9	12,910.6	6,922.7	118.9	119.0	78.63	-5,935.7	152.0	381.2	148.1	233.09	1.635	
13,000.0	6,998.8	12,918.5	6,922.6	119.0	119.2	78.62	-5,943.6	152.0	381.2	147.8	233.39	1.633	
13,090.5	6,998.6	13,009.0	6,921.8	120.8	121.0	78.54	-6,034.1	151.7	381.3	144.5	236.84	1.610	
13,100.0	6,998.5	13,018.5	6,921.7	121.0	121.2	78.53	-6,043.6	151.6	381.3	144.1	237.20	1.608	
13,188.9	6,998.2	13,107.5	6,920.9	122.7	122.9	78.46	-6,132.5	151.3	381.4	140.9	240.58	1.585	
13,200.0	6,998.2	13,118.5	6,920.8	122.9	123.1	78.45	-6,143.6	151.3	381.4	140.4	241.00	1.583	
13,287.4	6,997.9	13,205.9	6,920.0	124.6	124.9	78.37	-6,230.9	151.0	381.6	137.2	244.33	1.562	
13,300.0	6,997.9	13,218.5	6,919.9	124.9	125.1	78.36	-6,243.5	150.9	381.6	136.8	244.81	1.559	
13,385.8	6,997.6	13,304.3	6,919.1	126.6	126.8	78.29	-6,329.3	150.6	381.7	133.6	248.07	1.539	
13,400.0	6,997.5	13,318.5	6,919.0	126.9	127.1	78.28	-6,343.5	150.6	381.7	133.1	248.61	1.535	
13,484.2	6,997.3	13,402.7	6,918.2	128.5	128.8	78.20	-6,427.8	150.3	381.8	130.0	251.81	1.516	
13,500.0	6,997.2	13,418.5	6,918.1	128.8	129.1	78.19	-6,443.5	150.2	381.8	129.4	252.41	1.513	
13,582.6	6,996.9	13,501.2	6,917.3	130.4	130.7	78.12	-6,526.2	149.9	381.9	126.4	255.55	1.494 Level 3	
13,600.0	6,996.9	13,518.5	6,917.1	130.8	131.1	78.10	-6,543.5	149.8	381.9	125.7	256.21	1.491 Level 3	
13,681.1	6,996.6	13,599.6	6,916.4	132.4	132.7	78.03	-6,624.6	149.5	382.0	122.7	259.29	1.473 Level 3	
13,700.0	6,996.5	13,618.5	6,916.2	132.7	133.0	78.02	-6,643.5	149.5	382.1	122.1	260.00	1.469 Level 3	
13,779.5	6,996.3	13,698.0	6,915.5	134.3	134.6	77.95	-6,723.0	149.2	382.2	119.1	263.02	1.453 Level 3	
13,800.0	6,996.2	13,718.5	6,915.3	134.7	135.0	77.93	-6,743.5	149.1	382.2	118.4	263.80	1.449 Level 3	
13,877.9	6,995.9	13,796.4	6,914.6	136.2	136.6	77.87	-6,821.4	148.8	382.3	115.5	266.76	1.433 Level 3	
13,900.0	6,995.9	13,818.5	6,914.4	136.7	137.0	77.85	-6,843.5	148.8	382.3	114.7	267.59	1.429 Level 3	
13,976.3	6,995.6	13,894.8	6,913.7	138.2	138.5	77.78	-6,919.9	148.5	382.4	111.9	270.49	1.414 Level 3	
14,000.0	6,995.5	13,918.5	6,913.5	138.6	139.0	77.76	-6,943.5	148.4	382.4	111.0	271.38	1.409 Level 3	
14,074.8	6,995.3	13,993.3	6,912.8	140.1	140.4	77.70	-7,018.3	148.1	382.5	108.3	274.22	1.395 Level 3	
14,100.0	6,995.2	14,018.5	6,912.6	140.6	140.9	77.68	-7,043.5	148.0	382.6	107.4	275.16	1.390 Level 3	
14,162.0	6,995.0	14,079.0	6,912.0	141.8	142.1	77.62	-7,104.0	147.8	382.6	105.3	277.39	1.379 Level 3, SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-92.0	92.1				
98.4	98.4	95.4	95.4	0.1	0.1	-90.00	0.0	-92.0	92.0	91.8	0.19	488.895	
100.0	100.0	97.0	97.0	0.1	0.1	-90.00	0.0	-92.0	92.0	91.8	0.19	480.468	
196.8	196.8	193.8	193.8	0.3	0.3	-90.00	0.0	-92.0	92.0	91.4	0.62	147.681	
200.0	200.0	197.0	197.0	0.3	0.3	-90.00	0.0	-92.0	92.0	91.4	0.64	144.399	
295.3	295.3	292.3	292.3	0.5	0.5	-90.00	0.0	-92.0	92.0	90.9	1.07	86.356	
300.0	300.0	297.0	297.0	0.5	0.5	-90.00	0.0	-92.0	92.0	90.9	1.09	84.668	
393.7	393.7	390.7	390.7	0.8	0.8	-90.00	0.0	-92.0	92.0	90.5	1.51	61.018	
400.0	400.0	397.0	397.0	0.8	0.8	-90.00	0.0	-92.0	92.0	90.5	1.54	59.893	
492.1	492.1	489.1	489.1	1.0	1.0	-90.00	0.0	-92.0	92.0	90.1	1.95	47.176	
500.0	500.0	497.0	497.0	1.0	1.0	-90.00	0.0	-92.0	92.0	90.0	1.99	46.335	
590.5	590.5	587.5	587.5	1.2	1.2	-90.00	0.0	-92.0	92.0	89.6	2.39	38.453	
600.0	600.0	597.0	597.0	1.2	1.2	-90.00	0.0	-92.0	92.0	89.6	2.44	37.782	
689.0	689.0	686.0	686.0	1.4	1.4	-90.00	0.0	-92.0	92.0	89.2	2.84	32.452	
700.0	700.0	697.0	697.0	1.4	1.4	-90.00	0.0	-92.0	92.0	89.1	2.88	31.895	
787.4	787.4	784.4	784.4	1.6	1.6	-90.00	0.0	-92.0	92.0	88.7	3.28	28.072	
800.0	800.0	797.0	797.0	1.7	1.7	-90.00	0.0	-92.0	92.0	88.7	3.33	27.595	
885.8	885.8	882.8	882.8	1.9	1.9	-90.00	0.0	-92.0	92.0	88.3	3.72	24.733	
900.0	900.0	897.0	897.0	1.9	1.9	-90.00	0.0	-92.0	92.0	88.2	3.78	24.317	
984.2	984.2	981.2	981.2	2.1	2.1	-90.00	0.0	-92.0	92.0	87.9	4.16	22.104	
1,000.0	1,000.0	997.0	997.0	2.1	2.1	-90.00	0.0	-92.0	92.0	87.8	4.23	21.735	
1,082.7	1,082.7	1,079.7	1,079.7	2.3	2.3	-90.00	0.0	-92.0	92.0	87.4	4.61	19.981	
1,100.0	1,100.0	1,097.0	1,097.0	2.3	2.3	-90.00	0.0	-92.0	92.0	87.3	4.68	19.648 CC, ES	
1,181.1	1,181.1	1,178.1	1,178.1	2.5	2.5	-152.88	0.0	-92.0	93.0	88.0	5.04	18.456	
1,200.0	1,200.0	1,197.0	1,197.0	2.6	2.6	-153.05	0.0	-92.0	93.6	88.4	5.12	18.261	
1,279.5	1,279.4	1,274.4	1,274.4	2.7	2.7	-153.68	0.6	-92.8	97.8	92.4	5.46	17.920	
1,300.0	1,299.8	1,294.2	1,294.2	2.8	2.8	-153.80	0.9	-93.3	99.5	94.0	5.55	17.948	
1,377.9	1,377.5	1,369.5	1,369.4	3.0	2.9	-154.08	2.9	-96.1	108.2	102.3	5.87	18.429	
1,400.0	1,399.5	1,390.7	1,390.6	3.0	3.0	-154.12	3.7	-97.2	111.3	105.3	5.96	18.664	
1,476.4	1,475.3	1,463.6	1,463.3	3.2	3.2	-154.12	7.1	-101.8	124.2	117.9	6.28	19.756	
1,500.0	1,498.7	1,486.0	1,485.5	3.2	3.2	-154.08	8.3	-103.6	128.8	122.4	6.38	20.179	
1,574.8	1,572.6	1,556.2	1,555.3	3.5	3.4	-153.88	12.9	-110.0	145.6	138.9	6.70	21.726	
1,600.0	1,597.5	1,579.7	1,578.6	3.5	3.4	-153.79	14.7	-112.4	151.9	145.1	6.81	22.321	
1,673.2	1,669.4	1,647.0	1,645.1	3.7	3.6	-153.48	20.4	-120.2	172.4	165.3	7.12	24.197	
1,700.0	1,695.7	1,671.3	1,669.2	3.8	3.7	-153.35	22.6	-123.4	180.6	173.4	7.24	24.948	
1,771.6	1,765.7	1,735.7	1,732.5	4.1	3.9	-153.10	29.2	-132.5	203.7	196.1	7.57	26.890	
1,800.0	1,793.4	1,760.9	1,757.3	4.2	3.9	-152.95	32.0	-136.4	213.1	205.4	7.71	27.652	
1,870.1	1,862.0	1,824.3	1,819.4	4.4	4.1	-152.48	39.6	-146.9	237.2	229.2	8.05	29.479	
1,900.0	1,891.3	1,852.3	1,846.8	4.5	4.2	-152.28	43.0	-151.6	247.6	239.4	8.20	30.214	
1,968.5	1,958.3	1,916.5	1,909.6	4.8	4.4	-151.89	50.8	-162.4	271.4	262.9	8.54	31.777	
2,000.0	1,989.1	1,946.1	1,938.5	4.9	4.6	-151.73	54.4	-167.4	282.4	273.7	8.70	32.453	
2,066.9	2,054.5	2,008.8	1,999.8	5.2	4.8	-151.44	62.0	-178.0	305.7	296.6	9.05	33.792	
2,100.0	2,086.9	2,039.8	2,030.2	5.3	4.9	-151.31	65.8	-183.2	317.2	308.0	9.22	34.405	
2,165.3	2,150.8	2,101.0	2,090.1	5.6	5.1	-151.07	73.2	-193.5	339.9	330.4	9.56	35.542	
2,200.0	2,184.7	2,133.5	2,121.9	5.7	5.2	-150.96	77.2	-199.0	352.0	342.2	9.75	36.102	
2,263.8	2,247.1	2,193.3	2,180.3	5.9	5.5	-150.77	84.4	-209.1	374.2	364.1	10.09	37.077	
2,300.0	2,282.5	2,227.2	2,213.5	6.1	5.6	-150.68	88.6	-214.8	386.8	376.5	10.29	37.594	
2,362.2	2,343.4	2,285.5	2,270.6	6.4	5.8	-150.53	95.6	-224.7	408.4	397.8	10.63	38.429	
2,400.0	2,380.3	2,321.0	2,305.2	6.5	6.0	-150.44	99.9	-230.6	421.6	410.8	10.84	38.907	
2,460.6	2,439.6	2,377.8	2,360.8	6.8	6.2	-150.32	106.9	-240.2	442.7	431.5	11.17	39.626	
2,500.0	2,478.1	2,414.7	2,396.9	6.9	6.4	-150.24	111.3	-246.4	456.4	445.0	11.39	40.068	
2,559.0	2,535.9	2,470.1	2,451.0	7.2	6.6	-150.14	118.1	-255.8	477.0	465.3	11.72	40.690	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,508.4	2,488.6	7.4	6.8	-150.07	122.7	-262.2	491.3	479.3	11.95	41.101	
2,657.5	2,632.2	2,562.3	2,541.3	7.6	7.0	-149.98	129.3	-271.3	511.3	499.0	12.28	41.641	
2,700.0	2,673.8	2,602.2	2,580.3	7.8	7.1	-149.92	134.1	-278.0	526.1	513.6	12.52	42.022	
2,755.9	2,728.4	2,654.6	2,631.5	8.0	7.4	-149.85	140.5	-286.9	545.5	532.7	12.84	42.493	
2,800.0	2,771.6	2,695.9	2,672.0	8.2	7.5	-149.79	145.5	-293.8	560.9	547.8	13.09	42.848	
2,854.3	2,824.7	2,746.8	2,721.8	8.4	7.8	-149.73	151.7	-302.4	579.8	566.4	13.40	43.260	
2,900.0	2,869.4	2,789.6	2,763.6	8.6	7.9	-149.68	156.9	-309.6	595.7	582.1	13.67	43.591	
2,952.7	2,921.0	2,839.1	2,812.0	8.9	8.1	-149.62	162.9	-318.0	614.1	600.1	13.97	43.953	
3,000.0	2,967.2	2,883.4	2,855.3	9.1	8.3	-149.58	168.3	-325.5	630.6	616.3	14.25	44.264	
3,051.2	3,017.3	2,931.3	2,902.2	9.3	8.5	-149.53	174.2	-333.5	648.4	633.9	14.54	44.582	
3,100.0	3,065.0	2,977.1	2,947.0	9.5	8.7	-149.48	179.7	-341.3	665.4	650.6	14.83	44.874	
3,149.6	3,113.5	3,023.6	2,992.5	9.7	8.9	-149.44	185.4	-349.1	682.7	667.6	15.12	45.155	
3,200.0	3,162.8	3,070.8	3,038.7	9.9	9.1	-149.40	191.1	-357.1	700.2	684.8	15.41	45.429	
3,248.0	3,209.8	3,115.8	3,082.7	10.2	9.3	-149.36	196.6	-364.6	717.0	701.3	15.70	45.679	
3,300.0	3,260.7	3,164.6	3,130.4	10.4	9.6	-149.33	202.5	-372.9	735.1	719.1	16.00	45.937	
3,346.4	3,306.1	3,208.1	3,173.0	10.6	9.7	-149.29	207.8	-380.2	751.3	735.0	16.28	46.158	
3,400.0	3,358.5	3,258.3	3,222.1	10.8	10.0	-149.26	213.9	-388.7	769.9	753.3	16.59	46.402	
3,444.9	3,402.4	3,300.4	3,263.2	11.0	10.1	-149.23	219.0	-395.8	785.6	768.7	16.86	46.599	
3,500.0	3,456.3	3,352.0	3,313.7	11.3	10.4	-149.20	225.3	-404.5	804.8	787.6	17.18	46.830	
3,543.3	3,498.6	3,392.6	3,353.4	11.5	10.6	-149.17	230.2	-411.3	819.9	802.4	17.44	47.004	
3,600.0	3,554.1	3,454.2	3,413.8	11.7	10.8	-149.14	237.6	-421.5	839.5	821.7	17.79	47.180	
3,641.7	3,594.9	3,506.5	3,465.1	11.9	11.0	-149.16	243.3	-429.5	853.3	835.3	18.06	47.247	
3,700.0	3,651.9	3,580.3	3,537.9	12.2	11.2	-149.24	250.5	-439.4	871.6	853.2	18.41	47.342	
3,740.1	3,691.2	3,631.8	3,588.9	12.3	11.4	-149.33	254.8	-445.4	883.6	864.9	18.65	47.377	
3,800.0	3,749.7	3,709.3	3,665.8	12.6	11.6	-149.53	260.3	-453.0	900.3	881.3	19.00	47.384	
3,838.6	3,787.5	3,759.8	3,716.0	12.8	11.7	-149.70	263.2	-457.1	910.4	891.1	19.22	47.368	
3,900.0	3,847.5	3,840.8	3,796.8	13.0	11.8	-150.02	266.8	-462.1	925.3	905.7	19.56	47.302	
3,937.0	3,883.7	3,889.9	3,845.8	13.2	11.9	-150.25	268.4	-464.2	933.6	913.9	19.76	47.238	
4,000.0	3,945.4	3,974.2	3,930.0	13.5	12.1	-150.70	269.9	-466.3	946.6	926.5	20.10	47.107	
4,035.4	3,980.0	4,021.1	3,977.0	13.7	12.1	-150.98	270.1	-466.6	953.3	933.1	20.28	47.016	
4,068.9	4,012.7	4,053.9	4,009.7	13.8	12.2	-151.18	270.1	-466.6	959.4	939.0	20.43	46.956	
4,100.0	4,043.2	4,084.3	4,040.2	13.9	12.2	-151.41	270.1	-466.6	965.0	944.4	20.60	46.852	
4,133.8	4,076.4	4,117.6	4,073.4	14.0	12.3	-151.65	270.1	-466.6	970.7	950.0	20.76	46.749	
4,200.0	4,141.6	4,182.7	4,138.6	14.2	12.4	-152.07	270.1	-466.6	980.9	959.8	21.09	46.507	
4,232.3	4,173.4	4,214.6	4,170.4	14.3	12.4	-152.25	270.1	-466.6	985.4	964.2	21.24	46.386	
4,300.0	4,240.5	4,281.6	4,237.5	14.5	12.5	-152.58	270.1	-466.6	993.9	972.3	21.56	46.100	
4,330.7	4,271.0	4,312.1	4,268.0	14.6	12.6	-152.71	270.1	-466.6	997.2	975.5	21.69	45.968	
4,400.0	4,339.9	4,381.0	4,336.9	14.8	12.7	-152.96	270.1	-466.6	1,003.8	981.8	21.99	45.637	
4,429.1	4,368.9	4,410.0	4,365.9	14.8	12.7	-153.05	270.1	-466.6	1,006.1	983.9	22.11	45.496	
4,500.0	4,439.6	4,480.7	4,436.6	15.0	12.9	-153.22	270.1	-466.6	1,010.6	988.2	22.40	45.119	
4,527.5	4,467.1	4,508.2	4,464.1	15.0	12.9	-153.27	270.1	-466.6	1,011.9	989.4	22.50	44.970	
4,600.0	4,539.5	4,580.6	4,536.5	15.1	13.0	-153.36	270.1	-466.6	1,014.3	991.5	22.77	44.545	
4,626.0	4,565.4	4,606.6	4,562.4	15.2	13.1	-153.38	270.1	-466.6	1,014.7	991.9	22.86	44.388	
4,668.9	4,608.4	4,649.5	4,605.4	15.2	13.1	-90.82	270.1	-466.6	1,015.0	992.0	23.00	44.124	
4,700.0	4,639.5	4,680.6	4,636.5	15.3	13.2	-90.82	270.1	-466.6	1,015.0	991.9	23.12	43.911	
4,724.4	4,663.9	4,705.0	4,660.9	15.3	13.2	-90.82	270.1	-466.6	1,015.0	991.8	23.21	43.740	
4,800.0	4,739.5	4,780.6	4,736.5	15.4	13.4	-90.82	270.1	-466.6	1,015.0	991.5	23.49	43.217	
4,822.8	4,762.3	4,803.4	4,759.3	15.4	13.4	-90.82	270.1	-466.6	1,015.0	991.4	23.57	43.061	
4,900.0	4,839.5	4,880.6	4,836.5	15.6	13.5	-90.82	270.1	-466.6	1,015.0	991.2	23.86	42.540	
4,921.2	4,860.7	4,901.8	4,857.7	15.6	13.6	-90.82	270.1	-466.6	1,015.0	991.1	23.94	42.398	
5,000.0	4,939.5	4,980.6	4,936.5	15.7	13.7	-90.82	270.1	-466.6	1,015.0	990.8	24.24	41.879	
5,019.7	4,959.1	5,000.3	4,956.1	15.7	13.7	-90.82	270.1	-466.6	1,015.0	990.7	24.31	41.751	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	5,080.6	5,036.5	15.9	13.9	-90.82	270.1	-466.6	1,015.0	990.4	24.62	41.234	
5,118.1	5,057.6	5,098.7	5,054.6	15.9	13.9	-90.82	270.1	-466.6	1,015.0	990.3	24.68	41.119	
5,200.0	5,139.5	5,180.6	5,136.5	16.0	14.0	-90.82	270.1	-466.6	1,015.0	990.0	25.00	40.605	
5,216.5	5,156.0	5,197.1	5,153.0	16.0	14.1	-90.82	270.1	-466.6	1,015.0	990.0	25.06	40.503	
5,300.0	5,239.5	5,280.6	5,236.5	16.2	14.2	-90.82	270.1	-466.6	1,015.0	989.6	25.38	39.992	
5,314.9	5,254.4	5,295.5	5,251.4	16.2	14.2	-90.82	270.1	-466.6	1,015.0	989.6	25.44	39.901	
5,400.0	5,339.5	5,380.6	5,336.5	16.3	14.4	-90.82	270.1	-466.6	1,015.0	989.2	25.77	39.393	
5,413.4	5,352.8	5,394.0	5,349.8	16.3	14.4	-90.82	270.1	-466.6	1,015.0	989.2	25.82	39.314	
5,500.0	5,439.5	5,480.6	5,436.5	16.5	14.6	-90.82	270.1	-466.6	1,015.0	988.9	26.15	38.809	
5,511.8	5,451.3	5,492.4	5,448.3	16.5	14.6	-90.82	270.1	-466.6	1,015.0	988.8	26.20	38.741	
5,600.0	5,539.5	5,580.6	5,536.5	16.6	14.8	-90.82	270.1	-466.6	1,015.0	988.5	26.54	38.240	
5,610.2	5,549.7	5,590.8	5,546.7	16.6	14.8	-90.82	270.1	-466.6	1,015.0	988.4	26.58	38.182	
5,700.0	5,639.5	5,680.6	5,636.5	16.8	14.9	-90.82	270.1	-466.6	1,015.0	988.1	26.93	37.684	
5,708.6	5,648.1	5,689.2	5,645.1	16.8	15.0	-90.82	270.1	-466.6	1,015.0	988.0	26.97	37.636	
5,800.0	5,739.5	5,780.6	5,736.5	17.0	15.1	-90.82	270.1	-466.6	1,015.0	987.7	27.33	37.142	
5,807.1	5,746.5	5,787.7	5,743.5	17.0	15.1	-90.82	270.1	-466.6	1,015.0	987.7	27.36	37.104	
5,900.0	5,839.5	5,880.6	5,836.5	17.1	15.3	-90.82	270.1	-466.6	1,015.0	987.3	27.72	36.612	
5,905.5	5,845.0	5,886.1	5,842.0	17.1	15.3	-90.82	270.1	-466.6	1,015.0	987.3	27.74	36.584	
6,000.0	5,939.5	5,980.6	5,936.5	17.3	15.5	-90.82	270.1	-466.6	1,015.0	986.9	28.12	36.096	
6,003.9	5,943.4	5,984.5	5,940.4	17.3	15.5	-90.82	270.1	-466.6	1,015.0	986.9	28.14	36.076	
6,100.0	6,039.5	6,080.6	6,036.5	17.4	15.7	-90.82	270.1	-466.6	1,015.0	986.5	28.52	35.592	
6,102.3	6,041.8	6,082.9	6,038.8	17.4	15.7	-90.82	270.1	-466.6	1,015.0	986.5	28.53	35.580	
6,200.0	6,139.5	6,180.6	6,136.5	17.6	15.9	-90.82	270.1	-466.6	1,015.0	986.1	28.92	35.100	
6,200.8	6,140.2	6,181.4	6,137.2	17.6	15.9	-90.82	270.1	-466.6	1,015.0	986.1	28.92	35.096	
6,299.2	6,238.7	6,279.8	6,235.7	17.8	16.1	-90.82	270.1	-466.6	1,015.0	985.7	29.32	34.624	
6,300.0	6,239.5	6,280.6	6,236.5	17.8	16.1	-90.82	270.1	-466.6	1,015.0	985.7	29.32	34.620	
6,360.9	6,300.4	6,340.4	6,296.3	17.9	16.2	-90.88	268.9	-466.6	1,015.0	985.5	29.54	34.356	
6,397.6	6,337.1	6,376.1	6,331.8	17.9	16.2	88.79	266.0	-466.6	1,015.1	985.4	29.65	34.235	
6,400.0	6,339.5	6,378.4	6,334.1	17.9	16.2	88.78	265.8	-466.6	1,015.1	985.4	29.66	34.228	
6,450.0	6,389.2	6,426.7	6,381.9	18.0	16.2	88.63	258.8	-466.7	1,015.1	985.4	29.75	34.119	
6,496.0	6,434.7	6,471.1	6,425.4	18.0	16.3	88.49	249.6	-466.7	1,015.2	985.4	29.81	34.054	
6,500.0	6,438.6	6,474.9	6,429.1	18.0	16.3	88.48	248.7	-466.7	1,015.2	985.4	29.82	34.049	
6,550.0	6,487.3	6,523.0	6,475.2	18.0	16.3	88.34	235.5	-466.7	1,015.3	985.4	29.85	34.014	
6,594.5	6,529.8	6,565.6	6,515.4	18.0	16.3	88.22	221.2	-466.8	1,015.3	985.5	29.86	34.006	
6,600.0	6,535.1	6,570.9	6,520.3	18.1	16.3	88.21	219.3	-466.8	1,015.3	985.5	29.86	34.006	
6,650.0	6,581.7	6,618.6	6,564.0	18.0	16.3	88.09	200.1	-466.9	1,015.4	985.6	29.85	34.018	
6,692.9	6,620.6	6,659.5	6,600.4	18.0	16.3	87.99	181.5	-466.9	1,015.5	985.6	29.84	34.036	
6,700.0	6,626.9	6,666.3	6,606.3	18.0	16.3	87.97	178.2	-466.9	1,015.5	985.7	29.83	34.039	
6,750.0	6,670.6	6,713.8	6,646.9	18.0	16.3	87.87	153.5	-467.0	1,015.6	985.7	29.82	34.060	
6,791.3	6,705.4	6,753.0	6,679.1	18.0	16.3	87.79	131.2	-467.1	1,015.6	985.8	29.81	34.068	
6,800.0	6,712.5	6,761.2	6,685.7	18.0	16.3	87.77	126.3	-467.1	1,015.6	985.8	29.81	34.068	
6,850.0	6,752.3	6,808.5	6,722.6	18.0	16.3	87.69	96.7	-467.2	1,015.7	985.9	29.83	34.052	
6,889.7	6,782.5	6,846.1	6,750.4	18.0	16.3	87.63	71.4	-467.3	1,015.7	985.9	29.86	34.012	
6,900.0	6,790.0	6,855.8	6,757.3	18.0	16.3	87.61	64.7	-467.4	1,015.7	985.9	29.88	33.999	
6,950.0	6,825.3	6,902.9	6,789.9	18.0	16.2	87.55	30.5	-467.5	1,015.8	985.8	29.97	33.897	
6,988.2	6,850.5	6,938.9	6,813.1	17.9	16.2	87.51	3.1	-467.6	1,015.8	985.7	30.08	33.773	
7,000.0	6,858.0	6,950.0	6,820.0	17.9	16.2	87.50	-5.6	-467.6	1,015.8	985.7	30.11	33.735	
7,050.0	6,888.0	6,997.1	6,847.7	18.0	16.3	87.46	-43.7	-467.8	1,015.9	985.5	30.32	33.502	
7,086.6	6,908.1	7,031.5	6,866.4	18.0	16.3	87.44	-72.6	-467.9	1,015.9	985.3	30.53	33.277	
7,100.0	6,915.1	7,044.1	6,872.9	18.0	16.3	87.43	-83.4	-467.9	1,015.9	985.3	30.61	33.193	
7,150.0	6,939.2	7,091.1	6,895.3	18.0	16.3	87.42	-124.7	-468.1	1,015.9	984.9	30.97	32.805	
7,185.0	6,954.3	7,124.0	6,909.4	18.1	16.4	87.41	-154.4	-468.2	1,015.9	984.6	31.28	32.481	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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-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	6,960.3	7,138.1	6,915.0	18.1	16.4	87.41	-167.3	-468.2	1,015.9	984.5	31.41	32.341	
7,250.0	6,978.1	7,185.1	6,931.9	18.3	16.6	87.42	-211.2	-468.4	1,015.9	983.9	31.94	31.802	
7,283.4	6,988.2	7,216.5	6,941.5	18.4	16.8	87.43	-241.1	-468.5	1,015.9	983.5	32.35	31.400	
7,300.0	6,992.6	7,232.1	6,945.8	18.4	16.9	87.44	-256.1	-468.5	1,015.9	983.3	32.56	31.198	
7,350.0	7,003.7	7,279.1	6,956.8	18.7	17.2	87.47	-301.8	-468.7	1,015.8	982.6	33.27	30.537	
7,381.9	7,009.1	7,309.1	6,962.2	18.9	17.4	87.50	-331.3	-468.8	1,015.8	982.1	33.76	30.090	
7,400.0	7,011.4	7,326.2	6,964.8	19.0	17.5	87.51	-348.2	-468.9	1,015.8	981.8	34.05	29.832	
7,450.0	7,015.7	7,373.3	6,969.7	19.3	18.0	87.57	-395.0	-469.1	1,015.8	980.9	34.91	29.095	
7,480.3	7,016.6	7,401.9	6,971.1	19.6	18.2	87.61	-423.6	-469.2	1,015.7	980.3	35.47	28.640	
7,488.2	7,016.6	7,409.3	6,971.3	19.6	18.3	87.62	-431.0	-469.2	1,015.7	980.1	35.61	28.521	
7,500.0	7,016.6	7,420.5	6,971.5	19.7	18.4	87.63	-442.2	-469.2	1,015.7	979.9	35.84	28.340	
7,517.9	7,016.5	7,438.0	6,971.4	19.9	18.6	87.63	-459.7	-469.3	1,015.7	979.5	36.21	28.051	
7,578.7	7,016.3	7,498.8	6,971.2	20.5	19.2	87.62	-520.5	-469.5	1,015.7	978.2	37.50	27.088	
7,600.0	7,016.2	7,520.1	6,971.1	20.7	19.5	87.62	-541.8	-469.6	1,015.7	977.8	37.97	26.751	
7,677.1	7,016.0	7,597.2	6,970.7	21.6	20.4	87.62	-618.9	-469.9	1,015.7	975.9	39.79	25.528	
7,700.0	7,015.9	7,620.1	6,970.6	21.8	20.7	87.61	-641.8	-470.0	1,015.7	975.4	40.35	25.173	
7,775.6	7,015.7	7,695.7	6,970.3	22.7	21.6	87.61	-717.3	-470.2	1,015.7	973.4	42.30	24.011	
7,800.0	7,015.6	7,720.1	6,970.2	23.0	22.0	87.61	-741.8	-470.3	1,015.7	972.8	42.95	23.648	
7,874.0	7,015.4	7,794.1	6,969.9	24.0	23.0	87.60	-815.8	-470.6	1,015.7	970.7	45.00	22.570	
7,900.0	7,015.3	7,820.1	6,969.8	24.4	23.3	87.60	-841.8	-470.7	1,015.7	970.0	45.74	22.207	
7,972.4	7,015.1	7,892.5	6,969.5	25.4	24.4	87.60	-914.2	-471.0	1,015.8	967.9	47.86	21.224	
8,000.0	7,015.0	7,920.1	6,969.3	25.8	24.8	87.59	-941.7	-471.1	1,015.8	967.1	48.68	20.867	
8,070.8	7,014.8	7,990.9	6,969.0	26.8	25.8	87.59	-1,012.6	-471.3	1,015.8	964.9	50.84	19.978	
8,100.0	7,014.7	8,020.1	6,968.9	27.3	26.3	87.59	-1,041.7	-471.4	1,015.8	964.0	51.74	19.630	
8,169.3	7,014.4	8,089.4	6,968.6	28.3	27.4	87.58	-1,111.0	-471.7	1,015.8	961.8	53.94	18.833	
8,200.0	7,014.4	8,120.1	6,968.5	28.8	27.8	87.58	-1,141.7	-471.8	1,015.8	960.9	54.92	18.497	
8,267.7	7,014.1	8,187.8	6,968.2	29.9	28.9	87.58	-1,209.4	-472.0	1,015.8	958.7	57.12	17.784	
8,300.0	7,014.0	8,220.1	6,968.0	30.4	29.4	87.57	-1,241.7	-472.2	1,015.8	957.6	58.18	17.461	
8,366.1	7,013.8	8,286.2	6,967.7	31.5	30.5	87.57	-1,307.9	-472.4	1,015.8	955.4	60.38	16.824	
8,400.0	7,013.7	8,320.1	6,967.6	32.0	31.1	87.57	-1,341.7	-472.5	1,015.8	954.3	61.51	16.514	
8,464.5	7,013.5	8,384.6	6,967.3	33.1	32.1	87.56	-1,406.3	-472.8	1,015.8	952.1	63.70	15.947	
8,500.0	7,013.4	8,420.1	6,967.1	33.7	32.7	87.56	-1,441.7	-472.9	1,015.8	950.9	64.90	15.650	
8,563.0	7,013.2	8,483.1	6,966.9	34.8	33.8	87.56	-1,504.7	-473.1	1,015.8	948.7	67.07	15.144	
8,600.0	7,013.1	8,520.1	6,966.7	35.4	34.4	87.55	-1,541.7	-473.3	1,015.8	947.4	68.35	14.861	
8,661.4	7,012.9	8,581.5	6,966.4	36.5	35.5	87.55	-1,603.1	-473.5	1,015.8	945.3	70.50	14.409	
8,700.0	7,012.8	8,620.1	6,966.3	37.1	36.1	87.55	-1,641.7	-473.6	1,015.8	944.0	71.85	14.138	
8,759.8	7,012.6	8,679.9	6,966.0	38.2	37.2	87.54	-1,701.6	-473.8	1,015.8	941.8	73.96	13.734	
8,800.0	7,012.4	8,720.1	6,965.8	38.9	37.9	87.54	-1,741.7	-474.0	1,015.8	940.4	75.38	13.475	
8,858.2	7,012.3	8,778.3	6,965.6	39.9	38.9	87.54	-1,800.0	-474.2	1,015.8	938.4	77.46	13.114	
8,900.0	7,012.1	8,820.1	6,965.4	40.7	39.6	87.53	-1,841.7	-474.4	1,015.8	936.9	78.95	12.866	
8,956.7	7,011.9	8,876.8	6,965.1	41.7	40.6	87.53	-1,898.4	-474.6	1,015.8	934.8	80.99	12.543	
9,000.0	7,011.8	8,920.1	6,965.0	42.4	41.4	87.53	-1,941.7	-474.7	1,015.8	933.3	82.55	12.306	
9,055.1	7,011.6	8,975.2	6,964.7	43.4	42.4	87.52	-1,996.8	-474.9	1,015.8	931.3	84.54	12.015	
9,100.0	7,011.5	9,020.1	6,964.5	44.2	43.2	87.52	-2,041.7	-475.1	1,015.8	929.7	86.17	11.788	
9,153.5	7,011.3	9,073.6	6,964.3	45.2	44.1	87.51	-2,095.3	-475.3	1,015.8	927.7	88.12	11.527	
9,200.0	7,011.2	9,120.1	6,964.1	46.1	44.9	87.51	-2,141.7	-475.5	1,015.8	926.0	89.82	11.310	
9,251.9	7,011.0	9,172.0	6,963.8	47.0	45.9	87.51	-2,193.7	-475.7	1,015.8	924.1	91.72	11.075	
9,300.0	7,010.9	9,220.1	6,963.6	47.9	46.7	87.51	-2,241.7	-475.8	1,015.9	922.4	93.49	10.866	
9,350.4	7,010.7	9,270.5	6,963.4	48.8	47.7	87.50	-2,292.1	-476.0	1,015.9	920.5	95.34	10.655	
9,400.0	7,010.5	9,320.1	6,963.2	49.7	48.6	87.50	-2,341.7	-476.2	1,015.9	918.7	97.17	10.455	
9,448.8	7,010.4	9,368.9	6,963.0	50.6	49.4	87.49	-2,390.5	-476.4	1,015.9	916.9	98.97	10.264	
9,500.0	7,010.2	9,420.1	6,962.8	51.6	50.4	87.49	-2,441.7	-476.6	1,015.9	915.0	100.87	10.071	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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-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	
9,547.2	7,010.1	9,467.3	6,962.5	52.5	51.2	87.49	-2,488.9	-476.7	1,015.9	913.3	102.62	9.899	
9,600.0	7,009.9	9,520.1	6,962.3	53.5	52.2	87.48	-2,541.7	-476.9	1,015.9	911.3	104.58	9.714	
9,645.6	7,009.8	9,565.7	6,962.1	54.3	53.0	87.48	-2,587.4	-477.1	1,015.9	909.6	106.28	9.558	
9,700.0	7,009.6	9,620.1	6,961.9	55.3	54.0	87.48	-2,641.7	-477.3	1,015.9	907.6	108.31	9.379	
9,744.1	7,009.4	9,664.2	6,961.7	56.2	54.8	87.47	-2,685.8	-477.5	1,015.9	905.9	109.96	9.239	
9,800.0	7,009.3	9,720.1	6,961.4	57.2	55.9	87.47	-2,741.7	-477.7	1,015.9	903.8	112.05	9.067	
9,842.5	7,009.1	9,762.6	6,961.2	58.0	56.6	87.47	-2,784.2	-477.8	1,015.9	902.3	113.64	8.940	
9,900.0	7,008.9	9,820.1	6,961.0	59.1	57.7	87.46	-2,841.7	-478.0	1,015.9	900.1	115.80	8.773	
9,940.9	7,008.8	9,861.0	6,960.8	59.9	58.5	87.46	-2,882.6	-478.2	1,015.9	898.6	117.33	8.658	
10,000.0	7,008.6	9,920.1	6,960.5	61.0	59.6	87.46	-2,941.7	-478.4	1,015.9	896.4	119.55	8.497	
10,039.3	7,008.5	9,959.4	6,960.4	61.7	60.3	87.45	-2,981.1	-478.5	1,015.9	894.9	121.04	8.394	
10,100.0	7,008.3	10,020.1	6,960.1	62.9	61.4	87.45	-3,041.7	-478.8	1,015.9	892.6	123.32	8.238	
10,137.8	7,008.2	10,057.9	6,959.9	63.6	62.1	87.45	-3,079.5	-478.9	1,015.9	891.2	124.75	8.144	
10,200.0	7,008.0	10,120.1	6,959.7	64.8	63.3	87.44	-3,141.7	-479.1	1,015.9	888.8	127.10	7.994	
10,236.2	7,007.9	10,156.3	6,959.5	65.5	63.9	87.44	-3,177.9	-479.3	1,015.9	887.5	128.46	7.908	
10,300.0	7,007.6	10,220.1	6,959.2	66.7	65.1	87.44	-3,241.7	-479.5	1,015.9	885.1	130.88	7.763	
10,334.6	7,007.5	10,254.7	6,959.1	67.3	65.8	87.43	-3,276.3	-479.6	1,016.0	883.8	132.19	7.686	
10,400.0	7,007.3	10,320.1	6,958.8	68.6	67.0	87.43	-3,341.7	-479.9	1,016.0	881.3	134.66	7.544	
10,433.0	7,007.2	10,353.1	6,958.6	69.2	67.6	87.43	-3,374.8	-480.0	1,016.0	880.0	135.92	7.475	
10,500.0	7,007.0	10,420.1	6,958.3	70.5	68.8	87.42	-3,441.7	-480.2	1,016.0	877.5	138.46	7.338	
10,531.5	7,006.9	10,451.6	6,958.2	71.1	69.4	87.42	-3,473.2	-480.4	1,016.0	876.3	139.65	7.275	
10,600.0	7,006.7	10,520.1	6,957.9	72.4	70.7	87.42	-3,541.7	-480.6	1,016.0	873.7	142.26	7.142	
10,629.9	7,006.6	10,550.0	6,957.8	73.0	71.3	87.41	-3,571.6	-480.7	1,016.0	872.6	143.39	7.085	
10,700.0	7,006.4	10,620.1	6,957.4	74.3	72.6	87.41	-3,641.7	-481.0	1,016.0	869.9	146.06	6.956	
10,728.3	7,006.3	10,648.4	6,957.3	74.9	73.1	87.41	-3,670.0	-481.1	1,016.0	868.9	147.14	6.905	
10,800.0	7,006.0	10,720.1	6,957.0	76.3	74.5	87.40	-3,741.7	-481.3	1,016.0	866.1	149.87	6.779	
10,826.7	7,005.9	10,746.8	6,956.9	76.8	75.0	87.40	-3,768.4	-481.4	1,016.0	865.1	150.89	6.734	
10,900.0	7,005.7	10,820.1	6,956.6	78.2	76.3	87.40	-3,841.7	-481.7	1,016.0	862.3	153.68	6.611	
10,925.2	7,005.6	10,845.3	6,956.4	78.7	76.8	87.39	-3,866.9	-481.8	1,016.0	861.4	154.64	6.570	
11,000.0	7,005.4	10,920.1	6,956.1	80.1	78.2	87.39	-3,941.7	-482.1	1,016.0	858.5	157.50	6.451	
11,023.6	7,005.3	10,943.7	6,956.0	80.6	78.7	87.39	-3,965.3	-482.2	1,016.0	857.6	158.40	6.414	
11,100.0	7,005.1	11,020.1	6,955.7	82.0	80.1	87.38	-4,041.7	-482.4	1,016.0	854.7	161.32	6.298	
11,122.0	7,005.0	11,042.1	6,955.6	82.5	80.5	87.38	-4,063.7	-482.5	1,016.0	853.9	162.16	6.266	
11,200.0	7,004.7	11,120.1	6,955.2	84.0	82.0	87.38	-4,141.7	-482.8	1,016.0	850.9	165.14	6.153	
11,220.4	7,004.7	11,140.5	6,955.1	84.4	82.4	87.37	-4,162.1	-482.9	1,016.1	850.1	165.92	6.124	
11,300.0	7,004.4	11,220.1	6,954.8	85.9	83.9	87.37	-4,241.7	-483.2	1,016.1	847.1	168.97	6.013	
11,318.9	7,004.4	11,239.0	6,954.7	86.3	84.2	87.37	-4,260.6	-483.2	1,016.1	846.4	169.69	5.988	
11,400.0	7,004.1	11,320.1	6,954.3	87.8	85.7	87.36	-4,341.7	-483.5	1,016.1	843.3	172.80	5.880	
11,417.3	7,004.0	11,337.4	6,954.3	88.2	86.1	87.36	-4,359.0	-483.6	1,016.1	842.6	173.46	5.858	
11,500.0	7,003.8	11,420.1	6,953.9	89.8	87.6	87.36	-4,441.7	-483.9	1,016.1	839.5	176.63	5.753	
11,515.7	7,003.7	11,435.8	6,953.8	90.1	87.9	87.36	-4,457.4	-484.0	1,016.1	838.9	177.23	5.733	
11,600.0	7,003.4	11,520.1	6,953.4	91.7	89.5	87.35	-4,541.7	-484.3	1,016.1	835.6	180.47	5.630	
11,614.1	7,003.4	11,534.2	6,953.4	92.0	89.8	87.35	-4,555.8	-484.3	1,016.1	835.1	181.01	5.614	
11,700.0	7,003.1	11,620.1	6,953.0	93.7	91.4	87.34	-4,641.7	-484.6	1,016.1	831.8	184.30	5.513	
11,712.6	7,003.1	11,632.7	6,952.9	93.9	91.6	87.34	-4,654.3	-484.7	1,016.1	831.3	184.79	5.499	
11,800.0	7,002.8	11,720.1	6,952.6	95.6	93.3	87.34	-4,741.7	-485.0	1,016.1	828.0	188.14	5.401	
11,811.0	7,002.7	11,731.1	6,952.5	95.8	93.5	87.34	-4,752.7	-485.1	1,016.1	827.6	188.57	5.389	
11,900.0	7,002.5	11,820.1	6,952.1	97.6	95.2	87.33	-4,841.7	-485.4	1,016.1	824.2	191.99	5.293	
11,909.4	7,002.4	11,829.5	6,952.1	97.7	95.4	87.33	-4,851.1	-485.4	1,016.1	823.8	192.35	5.283	
12,000.0	7,002.1	11,920.1	6,951.7	99.5	97.1	87.32	-4,941.7	-485.7	1,016.2	820.3	195.83	5.189	
12,007.8	7,002.1	11,927.9	6,951.6	99.7	97.2	87.32	-4,949.5	-485.8	1,016.2	820.0	196.13	5.181	
12,100.0	7,001.8	12,020.1	6,951.2	101.5	99.0	87.32	-5,041.7	-486.1	1,016.2	816.5	199.68	5.089	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
12,106.3	7,001.8	12,026.4	6,951.2	101.6	99.1	87.32	-5,047.9	-486.1	1,016.2	816.2	199.92	5.083	
12,200.0	7,001.5	12,120.1	6,950.8	103.4	100.9	87.31	-5,141.7	-486.5	1,016.2	812.7	203.53	4.993	
12,204.7	7,001.5	12,124.8	6,950.8	103.5	101.0	87.31	-5,146.4	-486.5	1,016.2	812.5	203.71	4.988	
12,300.0	7,001.2	12,220.1	6,950.3	105.3	102.8	87.30	-5,241.7	-486.8	1,016.2	808.8	207.37	4.900	
12,303.1	7,001.1	12,223.2	6,950.3	105.4	102.8	87.30	-5,244.8	-486.9	1,016.2	808.7	207.49	4.897	
12,400.0	7,000.8	12,320.1	6,949.9	107.3	104.7	87.30	-5,341.7	-487.2	1,016.2	805.0	211.23	4.811	
12,401.5	7,000.8	12,321.6	6,949.9	107.3	104.7	87.30	-5,343.2	-487.2	1,016.2	804.9	211.29	4.810	
12,500.0	7,000.5	12,420.1	6,949.4	109.3	106.6	87.29	-5,441.7	-487.6	1,016.2	801.1	215.08	4.725	
12,598.4	7,000.2	12,518.5	6,949.0	111.2	108.4	87.28	-5,540.1	-487.9	1,016.2	797.4	218.87	4.643	
12,600.0	7,000.2	12,520.1	6,949.0	111.2	108.4	87.28	-5,541.7	-487.9	1,016.2	797.3	218.93	4.642	
12,696.8	6,999.8	12,616.9	6,948.6	113.1	110.3	87.28	-5,638.5	-488.3	1,016.2	793.6	222.67	4.564	
12,700.0	6,999.8	12,620.1	6,948.5	113.2	110.3	87.28	-5,641.7	-488.3	1,016.3	793.5	222.79	4.562	
12,795.2	6,999.5	12,715.3	6,948.1	115.0	112.2	87.27	-5,736.9	-488.7	1,016.3	789.8	226.46	4.488	
12,800.0	6,999.5	12,720.1	6,948.1	115.1	112.2	87.27	-5,741.7	-488.7	1,016.3	789.6	226.64	4.484	
12,893.7	6,999.2	12,813.8	6,947.7	116.9	114.0	87.26	-5,835.3	-489.0	1,016.3	786.0	230.26	4.414	
12,900.0	6,999.2	12,820.1	6,947.6	117.1	114.1	87.26	-5,841.7	-489.1	1,016.3	785.8	230.50	4.409	
12,992.1	6,998.9	12,912.2	6,947.2	118.9	115.9	87.26	-5,933.8	-489.4	1,016.3	782.2	234.06	4.342	
13,000.0	6,998.8	12,920.1	6,947.2	119.0	116.0	87.26	-5,941.7	-489.4	1,016.3	781.9	234.36	4.336	
13,090.5	6,998.6	13,010.6	6,946.8	120.8	117.8	87.25	-6,032.2	-489.8	1,016.3	778.5	237.86	4.273	
13,100.0	6,998.5	13,020.1	6,946.7	121.0	117.9	87.25	-6,041.7	-489.8	1,016.3	778.1	238.22	4.266	
13,188.9	6,998.2	13,109.0	6,946.3	122.7	119.6	87.24	-6,130.6	-490.1	1,016.3	774.7	241.66	4.206	
13,200.0	6,998.2	13,120.1	6,946.3	122.9	119.9	87.24	-6,141.6	-490.2	1,016.3	774.2	242.08	4.198	
13,287.4	6,997.9	13,207.5	6,945.9	124.6	121.5	87.24	-6,229.0	-490.5	1,016.3	770.9	245.46	4.141	
13,300.0	6,997.9	13,220.1	6,945.8	124.9	121.8	87.24	-6,241.6	-490.5	1,016.3	770.4	245.95	4.132	
13,385.8	6,997.6	13,305.9	6,945.5	126.6	123.4	87.23	-6,327.4	-490.8	1,016.4	767.1	249.26	4.077	
13,400.0	6,997.5	13,320.1	6,945.4	126.9	123.7	87.23	-6,341.6	-490.9	1,016.4	766.5	249.81	4.069	
13,484.2	6,997.3	13,404.3	6,945.0	128.5	125.3	87.22	-6,425.9	-491.2	1,016.4	763.3	253.06	4.016	
13,500.0	6,997.2	13,420.1	6,944.9	128.8	125.6	87.22	-6,441.6	-491.3	1,016.4	762.7	253.67	4.007	
13,582.6	6,996.9	13,502.7	6,944.6	130.4	127.1	87.22	-6,524.3	-491.6	1,016.4	759.5	256.87	3.957	
13,600.0	6,996.9	13,520.1	6,944.5	130.8	127.5	87.22	-6,541.6	-491.6	1,016.4	758.9	257.54	3.947	
13,681.1	6,996.6	13,601.1	6,944.1	132.4	129.0	87.21	-6,622.7	-491.9	1,016.4	755.7	260.67	3.899	
13,700.0	6,996.5	13,620.1	6,944.0	132.7	129.4	87.21	-6,641.6	-492.0	1,016.4	755.0	261.40	3.888	
13,779.5	6,996.3	13,699.6	6,943.7	134.3	130.9	87.20	-6,721.1	-492.3	1,016.4	751.9	264.48	3.843	
13,800.0	6,996.2	13,720.1	6,943.6	134.7	131.3	87.20	-6,741.6	-492.4	1,016.4	751.2	265.27	3.832	
13,877.9	6,995.9	13,798.0	6,943.2	136.2	132.8	87.20	-6,819.6	-492.6	1,016.4	748.2	268.28	3.789	
13,900.0	6,995.9	13,820.1	6,943.1	136.7	133.2	87.20	-6,841.6	-492.7	1,016.4	747.3	269.14	3.777	
13,976.3	6,995.6	13,896.4	6,942.8	138.2	134.6	87.19	-6,918.0	-493.0	1,016.5	744.4	272.09	3.736	
14,000.0	6,995.5	13,920.1	6,942.7	138.6	135.1	87.19	-6,941.6	-493.1	1,016.5	743.5	273.00	3.723	
14,074.8	6,995.3	13,994.8	6,942.4	140.1	136.5	87.18	-7,016.4	-493.4	1,016.5	740.6	275.90	3.684	
14,100.0	6,995.2	14,020.1	6,942.2	140.6	137.0	87.18	-7,041.6	-493.5	1,016.5	739.6	276.87	3.671	
14,132.2	6,995.1	14,052.3	6,942.1	141.2	137.6	87.18	-7,073.8	-493.6	1,016.5	738.4	278.10	3.655	
14,162.0	6,995.0	14,075.1	6,942.0	141.8	138.0	87.18	-7,096.7	-493.7	1,016.5	737.4	279.10	3.642 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-61.3	61.4				
98.4	98.4	96.4	96.4	0.1	0.1	-90.00	0.0	-61.3	61.3	61.2	0.19	324.255	
100.0	100.0	98.0	98.0	0.1	0.1	-90.00	0.0	-61.3	61.3	61.1	0.19	318.694	
196.8	196.8	194.8	194.8	0.3	0.3	-90.00	0.0	-61.3	61.3	60.7	0.63	98.100	
200.0	200.0	198.0	198.0	0.3	0.3	-90.00	0.0	-61.3	61.3	60.7	0.64	95.928	
295.3	295.3	293.3	293.3	0.5	0.5	-90.00	0.0	-61.3	61.3	60.3	1.07	57.450	
300.0	300.0	298.0	298.0	0.5	0.5	-90.00	0.0	-61.3	61.3	60.3	1.09	56.329	
393.7	393.7	391.7	391.7	0.8	0.8	-90.00	0.0	-61.3	61.3	59.8	1.51	40.618	
400.0	400.0	398.0	398.0	0.8	0.8	-90.00	0.0	-61.3	61.3	59.8	1.54	39.871	
492.1	492.1	490.1	490.1	1.0	1.0	-90.00	0.0	-61.3	61.3	59.4	1.95	31.415	
500.0	500.0	498.0	498.0	1.0	1.0	-90.00	0.0	-61.3	61.3	59.4	1.99	30.855	
590.5	590.5	588.5	588.5	1.2	1.2	-90.00	0.0	-61.3	61.3	58.9	2.40	25.611	
600.0	600.0	598.0	598.0	1.2	1.2	-90.00	0.0	-61.3	61.3	58.9	2.44	25.165	
689.0	689.0	687.0	687.0	1.4	1.4	-90.00	0.0	-61.3	61.3	58.5	2.84	21.618	
700.0	700.0	698.0	698.0	1.4	1.4	-90.00	0.0	-61.3	61.3	58.5	2.89	21.247	
787.4	787.4	785.4	785.4	1.6	1.6	-90.00	0.0	-61.3	61.3	58.1	3.28	18.702	
800.0	800.0	798.0	798.0	1.7	1.7	-90.00	0.0	-61.3	61.3	58.0	3.34	18.384	
885.8	885.8	883.8	883.8	1.9	1.9	-90.00	0.0	-61.3	61.3	57.6	3.72	16.479	
900.0	900.0	898.0	898.0	1.9	1.9	-90.00	0.0	-61.3	61.3	57.6	3.79	16.201	
984.2	984.2	982.2	982.2	2.1	2.1	-90.00	0.0	-61.3	61.3	57.2	4.16	14.728	
1,000.0	1,000.0	998.0	998.0	2.1	2.1	-90.00	0.0	-61.3	61.3	57.1	4.24	14.482	
1,082.7	1,082.7	1,080.7	1,080.7	2.3	2.3	-90.00	0.0	-61.3	61.3	56.7	4.61	13.314	
1,100.0	1,100.0	1,098.0	1,098.0	2.3	2.3	-90.00	0.0	-61.3	61.3	56.7	4.69	13.093 CC, ES	
1,181.1	1,181.1	1,179.1	1,179.1	2.5	2.5	-153.04	0.0	-61.3	62.4	57.3	5.04	12.366	
1,200.0	1,200.0	1,198.0	1,198.0	2.6	2.6	-153.29	0.0	-61.3	62.9	57.8	5.13	12.270	
1,279.5	1,279.4	1,277.4	1,277.4	2.7	2.7	-154.76	0.0	-61.3	66.4	60.9	5.47	12.137	
1,300.0	1,299.8	1,297.8	1,297.8	2.8	2.8	-155.24	0.0	-61.3	67.6	62.1	5.56	12.167	
1,377.9	1,377.5	1,375.5	1,375.5	3.0	3.0	-156.53	1.0	-61.4	73.6	67.7	5.89	12.486	
1,400.0	1,399.5	1,397.5	1,397.4	3.0	3.0	-156.68	1.7	-61.5	75.6	69.6	5.98	12.632	
1,476.4	1,475.3	1,473.4	1,473.3	3.2	3.2	-156.59	5.2	-61.7	83.9	77.6	6.31	13.290	
1,500.0	1,498.7	1,496.8	1,496.7	3.2	3.2	-156.39	6.7	-61.8	86.8	80.4	6.41	13.540	
1,574.8	1,572.6	1,570.8	1,570.4	3.5	3.4	-155.40	12.8	-62.3	97.3	90.6	6.73	14.445	
1,600.0	1,597.5	1,595.7	1,595.2	3.5	3.5	-154.97	15.2	-62.5	101.2	94.4	6.84	14.792	
1,673.2	1,669.4	1,667.7	1,666.7	3.7	3.6	-153.50	23.5	-63.1	113.9	106.7	7.17	15.873	
1,700.0	1,695.7	1,693.9	1,692.7	3.8	3.7	-152.92	27.0	-63.4	119.0	111.7	7.29	16.307	
1,771.6	1,765.7	1,763.8	1,761.8	4.1	3.9	-151.24	37.4	-64.1	133.0	125.3	7.66	17.359	
1,800.0	1,793.4	1,791.4	1,789.0	4.2	3.9	-150.47	41.9	-64.5	138.6	130.8	7.81	17.753	
1,870.1	1,862.0	1,859.5	1,855.9	4.4	4.1	-148.39	54.3	-65.4	152.7	144.5	8.19	18.634	
1,900.0	1,891.3	1,888.4	1,884.3	4.5	4.2	-147.44	60.0	-65.8	158.8	150.5	8.36	18.995	
1,968.5	1,958.3	1,955.0	1,949.4	4.8	4.4	-145.31	73.8	-66.9	173.2	164.4	8.77	19.739	
2,000.0	1,989.1	1,985.7	1,979.4	4.9	4.5	-144.44	80.2	-67.3	179.9	170.9	8.97	20.061	
2,066.9	2,054.5	2,050.9	2,043.2	5.2	4.8	-142.79	93.7	-68.4	194.2	184.8	9.39	20.684	
2,100.0	2,086.9	2,083.1	2,074.7	5.3	4.9	-142.06	100.4	-68.9	201.3	191.7	9.60	20.970	
2,165.3	2,150.8	2,146.7	2,136.9	5.6	5.1	-140.76	113.6	-69.8	215.4	205.4	10.03	21.486	
2,200.0	2,184.7	2,180.4	2,169.9	5.7	5.2	-140.14	120.6	-70.4	222.9	212.7	10.25	21.742	
2,263.8	2,247.1	2,242.5	2,230.7	5.9	5.4	-139.10	133.5	-71.3	236.9	226.2	10.68	22.174	
2,300.0	2,282.5	2,277.8	2,265.2	6.1	5.6	-138.56	140.8	-71.9	244.8	233.9	10.93	22.403	
2,362.2	2,343.4	2,338.4	2,324.4	6.4	5.8	-137.71	153.3	-72.8	258.5	247.1	11.35	22.764	
2,400.0	2,380.3	2,375.2	2,360.4	6.5	5.9	-137.24	161.0	-73.4	266.8	255.2	11.62	22.970	
2,460.6	2,439.6	2,434.2	2,418.2	6.8	6.2	-136.54	173.2	-74.3	280.2	268.2	12.04	23.274	
2,500.0	2,478.1	2,472.6	2,455.7	6.9	6.3	-136.12	181.2	-74.9	289.0	276.6	12.32	23.459	
2,559.0	2,535.9	2,530.1	2,511.9	7.2	6.5	-135.53	193.1	-75.8	302.1	289.3	12.74	23.716	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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-403 - 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	2,576.0	2,569.9	2,550.9	7.4	6.7	-135.16	201.4	-76.4	311.2	298.1	13.03	23.883	
2,657.5	2,632.2	2,626.3	2,606.0	7.6	6.9	-134.66	213.0	-77.3	324.0	310.5	13.44	24.107	
2,700.0	2,673.8	2,669.5	2,648.4	7.8	7.1	-134.38	221.6	-77.9	333.3	319.6	13.73	24.272	
2,755.9	2,728.4	2,726.7	2,704.6	8.0	7.2	-134.19	231.8	-78.7	345.2	331.1	14.10	24.481	
2,800.0	2,771.6	2,771.8	2,749.2	8.2	7.4	-134.18	239.2	-79.3	354.3	340.0	14.38	24.644	
2,854.3	2,824.7	2,827.7	2,804.4	8.4	7.5	-134.31	247.3	-79.9	365.2	350.5	14.71	24.826	
2,900.0	2,869.4	2,874.7	2,851.1	8.6	7.6	-134.53	253.2	-80.3	374.1	359.1	14.98	24.965	
2,952.7	2,921.0	2,929.0	2,905.1	8.9	7.8	-134.91	259.2	-80.8	384.0	368.7	15.29	25.116	
3,000.0	2,967.2	2,977.8	2,953.6	9.1	7.9	-135.36	263.7	-81.1	392.6	377.0	15.55	25.242	
3,051.2	3,017.3	3,030.6	3,006.2	9.3	8.0	-135.94	267.6	-81.4	401.6	385.8	15.83	25.375	
3,100.0	3,065.0	3,080.9	3,056.5	9.5	8.1	-136.60	270.4	-81.6	409.9	393.8	16.08	25.498	
3,149.6	3,113.5	3,131.9	3,107.5	9.7	8.2	-137.36	272.4	-81.7	418.2	401.9	16.32	25.626	
3,200.0	3,162.8	3,183.7	3,159.3	9.9	8.3	-138.21	273.5	-81.8	426.3	409.8	16.55	25.756	
3,248.0	3,209.8	3,232.3	3,207.8	10.2	8.4	-139.08	273.7	-81.8	434.0	417.2	16.77	25.883	
3,300.0	3,260.7	3,283.1	3,258.7	10.4	8.5	-139.99	273.7	-81.8	442.3	425.3	17.00	26.023	
3,346.4	3,306.1	3,328.5	3,304.1	10.6	8.5	-140.78	273.7	-81.8	449.8	432.6	17.20	26.146	
3,400.0	3,358.5	3,380.9	3,356.5	10.8	8.6	-141.65	273.7	-81.8	458.5	441.1	17.44	26.289	
3,444.9	3,402.4	3,424.8	3,400.4	11.0	8.7	-142.36	273.7	-81.8	465.9	448.3	17.64	26.411	
3,500.0	3,456.3	3,478.7	3,454.3	11.3	8.8	-143.19	273.7	-81.8	475.1	457.3	17.89	26.564	
3,543.3	3,498.6	3,521.1	3,496.6	11.5	8.9	-143.83	273.7	-81.8	482.4	464.4	18.08	26.686	
3,600.0	3,554.1	3,576.5	3,552.1	11.7	9.0	-144.63	273.7	-81.8	492.1	473.7	18.33	26.848	
3,641.7	3,594.9	3,617.4	3,592.9	11.9	9.1	-145.21	273.7	-81.8	499.2	480.7	18.51	26.968	
3,700.0	3,651.9	3,674.4	3,649.9	12.2	9.2	-145.98	273.7	-81.8	509.3	490.5	18.77	27.137	
3,740.1	3,691.2	3,713.6	3,689.2	12.3	9.2	-146.49	273.7	-81.8	516.3	497.3	18.94	27.254	
3,800.0	3,749.7	3,772.2	3,747.7	12.6	9.4	-147.24	273.7	-81.8	526.8	507.6	19.20	27.429	
3,838.6	3,787.5	3,809.9	3,785.5	12.8	9.4	-147.70	273.7	-81.8	533.6	514.2	19.37	27.542	
3,900.0	3,847.5	3,870.0	3,845.5	13.0	9.5	-148.41	273.7	-81.8	544.5	524.8	19.64	27.722	
3,937.0	3,883.7	3,906.2	3,881.7	13.2	9.6	-148.83	273.7	-81.8	551.1	531.3	19.80	27.830	
4,000.0	3,945.4	3,967.8	3,943.4	13.5	9.7	-149.52	273.7	-81.8	562.4	542.3	20.08	28.012	
4,035.4	3,980.0	4,002.5	3,978.0	13.7	9.8	-149.89	273.7	-81.8	568.8	548.6	20.23	28.115	
4,068.9	4,012.7	4,035.2	4,010.7	13.8	9.9	-150.24	273.7	-81.8	574.9	554.5	20.38	28.211	
4,100.0	4,043.2	4,065.7	4,041.2	13.9	9.9	-150.60	273.7	-81.8	580.4	559.8	20.52	28.284	
4,133.8	4,076.4	4,098.9	4,074.4	14.0	10.0	-150.96	273.7	-81.8	586.0	565.4	20.66	28.362	
4,200.0	4,141.6	4,164.0	4,139.6	14.2	10.1	-151.60	273.7	-81.8	596.2	575.2	20.94	28.466	
4,232.3	4,173.4	4,195.9	4,171.4	14.3	10.2	-151.87	273.7	-81.8	600.7	579.6	21.08	28.501	
4,300.0	4,240.5	4,262.9	4,238.5	14.5	10.3	-152.37	273.7	-81.8	609.1	587.7	21.35	28.526	
4,330.7	4,271.0	4,293.4	4,269.0	14.6	10.4	-152.56	273.7	-81.8	612.4	591.0	21.47	28.523	
4,400.0	4,339.9	4,362.3	4,337.9	14.8	10.5	-152.94	273.7	-81.8	619.0	597.2	21.74	28.470	
4,429.1	4,368.9	4,391.3	4,366.9	14.8	10.5	-153.07	273.7	-81.8	621.3	599.4	21.85	28.435	
4,500.0	4,439.6	4,462.0	4,437.6	15.0	10.7	-153.32	273.7	-81.8	625.8	603.7	22.11	28.303	
4,527.5	4,467.1	4,489.5	4,465.1	15.0	10.7	-153.39	273.7	-81.8	627.1	604.9	22.21	28.240	
4,600.0	4,539.5	4,561.9	4,537.5	15.1	10.9	-153.52	273.7	-81.8	629.5	607.0	22.46	28.030	
4,626.0	4,565.4	4,587.9	4,563.4	15.2	10.9	-153.54	273.7	-81.8	629.9	607.4	22.54	27.943	
4,668.9	4,608.4	4,630.8	4,606.4	15.2	11.0	-90.99	273.7	-81.8	630.2	607.6	22.67	27.798	
4,700.0	4,639.5	4,661.9	4,637.5	15.3	11.1	-90.99	273.7	-81.8	630.2	607.4	22.79	27.658	
4,724.4	4,663.9	4,686.3	4,661.9	15.3	11.1	-90.99	273.7	-81.8	630.2	607.4	22.88	27.546	
4,800.0	4,739.5	4,761.9	4,737.5	15.4	11.3	-90.99	273.7	-81.8	630.2	607.1	23.17	27.203	
4,822.8	4,762.3	4,784.7	4,760.3	15.4	11.3	-90.99	273.7	-81.8	630.2	607.0	23.26	27.101	
4,900.0	4,839.5	4,861.9	4,837.5	15.6	11.5	-90.99	273.7	-81.8	630.2	606.7	23.55	26.760	
4,921.2	4,860.7	4,883.2	4,858.7	15.6	11.5	-90.99	273.7	-81.8	630.2	606.6	23.63	26.668	
5,000.0	4,939.5	4,961.9	4,937.5	15.7	11.7	-90.99	273.7	-81.8	630.2	606.3	23.94	26.329	
5,019.7	4,959.1	4,981.6	4,957.1	15.7	11.7	-90.99	273.7	-81.8	630.2	606.2	24.01	26.246	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	5,061.9	5,037.5	15.9	11.9	-90.99	273.7	-81.8	630.2	605.9	24.32	25.910	
5,118.1	5,057.6	5,080.0	5,055.6	15.9	11.9	-90.99	273.7	-81.8	630.2	605.8	24.39	25.835	
5,200.0	5,139.5	5,161.9	5,137.5	16.0	12.1	-90.99	273.7	-81.8	630.2	605.5	24.71	25.501	
5,216.5	5,156.0	5,178.4	5,154.0	16.0	12.1	-90.99	273.7	-81.8	630.2	605.5	24.78	25.434	
5,300.0	5,239.5	5,261.9	5,237.5	16.2	12.3	-90.99	273.7	-81.8	630.2	605.1	25.11	25.103	
5,314.9	5,254.4	5,276.9	5,252.4	16.2	12.3	-90.99	273.7	-81.8	630.2	605.1	25.16	25.044	
5,400.0	5,339.5	5,361.9	5,337.5	16.3	12.5	-90.99	273.7	-81.8	630.2	604.7	25.50	24.715	
5,413.4	5,352.8	5,375.3	5,350.8	16.3	12.5	-90.99	273.7	-81.8	630.2	604.7	25.55	24.664	
5,500.0	5,439.5	5,461.9	5,437.5	16.5	12.7	-90.99	273.7	-81.8	630.2	604.3	25.90	24.338	
5,511.8	5,451.3	5,473.7	5,449.3	16.5	12.7	-90.99	273.7	-81.8	630.2	604.3	25.94	24.294	
5,600.0	5,539.5	5,561.9	5,537.5	16.6	12.9	-90.99	273.7	-81.8	630.2	603.9	26.29	23.970	
5,610.2	5,549.7	5,572.1	5,547.7	16.6	12.9	-90.99	273.7	-81.8	630.2	603.9	26.33	23.933	
5,700.0	5,639.5	5,661.9	5,637.5	16.8	13.1	-90.99	273.7	-81.8	630.2	603.5	26.69	23.612	
5,708.6	5,648.1	5,670.6	5,646.1	16.8	13.1	-90.99	273.7	-81.8	630.2	603.5	26.73	23.582	
5,800.0	5,739.5	5,761.9	5,737.5	17.0	13.3	-90.99	273.7	-81.8	630.2	603.1	27.09	23.263	
5,807.1	5,746.5	5,769.0	5,744.5	17.0	13.3	-90.99	273.7	-81.8	630.2	603.1	27.12	23.239	
5,900.0	5,839.5	5,861.9	5,837.5	17.1	13.5	-90.99	273.7	-81.8	630.2	602.7	27.49	22.923	
5,905.5	5,845.0	5,867.4	5,843.0	17.1	13.5	-90.99	273.7	-81.8	630.2	602.7	27.52	22.905	
6,000.0	5,939.5	5,961.9	5,937.5	17.3	13.7	-90.99	273.7	-81.8	630.2	602.3	27.90	22.592	
6,003.9	5,943.4	5,965.8	5,941.4	17.3	13.7	-90.99	273.7	-81.8	630.2	602.3	27.91	22.579	
6,100.0	6,039.5	6,061.9	6,037.5	17.4	13.9	-90.99	273.7	-81.8	630.2	601.9	28.30	22.268	
6,102.3	6,041.8	6,064.3	6,039.8	17.4	14.0	-90.99	273.7	-81.8	630.2	601.9	28.31	22.261	
6,200.0	6,139.5	6,161.9	6,137.5	17.6	14.2	-90.99	273.7	-81.8	630.2	601.5	28.71	21.953	
6,200.8	6,140.2	6,162.7	6,138.2	17.6	14.2	-90.99	273.7	-81.8	630.2	601.5	28.71	21.951	
6,299.2	6,238.7	6,261.1	6,236.7	17.8	14.4	-90.99	273.7	-81.8	630.2	601.1	29.11	21.649	
6,300.0	6,239.5	6,261.9	6,237.5	17.8	14.4	-90.99	273.7	-81.8	630.2	601.1	29.12	21.646	
6,360.9	6,300.4	6,322.8	6,298.4	17.9	14.5	-90.99	273.7	-81.8	630.2	600.9	29.36	21.463	
6,397.6	6,337.1	6,359.5	6,335.1	17.9	14.6	88.89	273.7	-81.8	630.2	600.7	29.52	21.351	
6,400.0	6,339.5	6,361.9	6,337.5	17.9	14.6	88.90	273.7	-81.8	630.2	600.7	29.53	21.344	
6,450.0	6,389.2	6,411.7	6,387.2	18.0	14.7	89.31	273.7	-81.8	630.1	600.4	29.71	21.210	
6,496.0	6,434.7	6,457.1	6,432.7	18.0	14.8	89.93	273.4	-81.8	630.1	600.2	29.86	21.099	
6,500.0	6,438.6	6,461.0	6,436.6	18.0	14.8	89.98	273.3	-81.8	630.1	600.2	29.88	21.091	
6,501.1	6,439.7	6,462.1	6,437.7	18.0	14.8	90.00	273.2	-81.8	630.1	600.2	29.88	21.089	
6,550.0	6,487.3	6,510.7	6,486.1	18.0	14.8	90.70	269.8	-81.9	630.1	600.1	30.00	21.007	
6,594.5	6,529.8	6,555.3	6,530.3	18.0	14.9	91.33	263.8	-81.9	630.3	600.2	30.08	20.956	
6,600.0	6,535.1	6,560.9	6,535.8	18.1	14.9	91.41	262.9	-81.9	630.3	600.2	30.08	20.952	
6,650.0	6,581.7	6,611.6	6,585.4	18.0	14.9	92.13	252.3	-81.9	630.5	600.4	30.14	20.923	
6,692.9	6,620.6	6,655.7	6,627.8	18.0	14.9	92.73	240.4	-82.0	630.8	600.7	30.16	20.916	
6,700.0	6,626.9	6,663.0	6,634.8	18.0	14.9	92.83	238.1	-82.0	630.9	600.7	30.16	20.916	
6,750.0	6,670.6	6,714.9	6,683.5	18.0	14.9	93.53	220.2	-82.0	631.3	601.2	30.17	20.928	
6,791.3	6,705.4	6,758.4	6,723.2	18.0	14.9	94.09	202.5	-82.1	631.7	601.6	30.16	20.946	
6,800.0	6,712.5	6,767.5	6,731.4	18.0	14.9	94.21	198.4	-82.1	631.8	601.7	30.16	20.951	
6,850.0	6,752.3	6,820.7	6,778.1	18.0	14.9	94.87	172.9	-82.2	632.4	602.3	30.15	20.977	
6,889.7	6,782.5	6,863.5	6,814.2	18.0	14.9	95.38	150.0	-82.3	632.9	602.8	30.15	20.995	
6,900.0	6,790.0	6,874.6	6,823.3	18.0	14.9	95.51	143.7	-82.3	633.1	602.9	30.15	20.999	
6,950.0	6,825.3	6,929.0	6,866.6	18.0	14.9	96.13	110.7	-82.4	633.8	603.6	30.17	21.006	
6,988.2	6,850.5	6,971.0	6,898.3	17.9	15.0	96.58	83.1	-82.5	634.3	604.1	30.22	20.992	
7,000.0	6,858.0	6,984.1	6,907.8	17.9	15.0	96.72	74.2	-82.6	634.5	604.3	30.24	20.985	
7,050.0	6,888.0	7,039.8	6,946.4	18.0	15.0	97.27	34.1	-82.7	635.3	604.9	30.36	20.927	
7,086.6	6,908.1	7,080.9	6,972.9	18.0	15.1	97.65	2.6	-82.8	635.8	605.3	30.50	20.848	
7,100.0	6,915.1	7,096.0	6,982.2	18.0	15.1	97.79	-9.3	-82.9	636.0	605.5	30.55	20.821	
7,150.0	6,939.2	7,152.9	7,014.7	18.0	15.3	98.26	-55.9	-83.0	636.8	605.9	30.83	20.655	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,954.3	7,193.0	7,035.4	18.1	15.4	98.57	-90.2	-83.2	637.3	606.2	31.09	20.497	
7,200.0	6,960.3	7,210.2	7,043.7	18.1	15.5	98.70	-105.3	-83.2	637.5	606.3	31.21	20.423	
7,250.0	6,978.1	7,268.0	7,068.8	18.3	15.7	99.08	-157.4	-83.4	638.2	606.4	31.71	20.125	
7,283.4	6,988.2	7,306.9	7,083.3	18.4	15.9	99.31	-193.5	-83.6	638.6	606.5	32.11	19.887	
7,300.0	6,992.6	7,326.2	7,089.8	18.4	16.1	99.42	-211.7	-83.6	638.7	606.4	32.32	19.762	
7,350.0	7,003.7	7,384.8	7,106.4	18.7	16.5	99.70	-267.9	-83.8	639.3	606.2	33.06	19.339	
7,381.9	7,009.1	7,422.4	7,114.6	18.9	16.7	99.85	-304.5	-84.0	639.6	606.0	33.59	19.040	
7,400.0	7,011.4	7,443.8	7,118.4	19.0	16.9	99.93	-325.5	-84.0	639.7	605.8	33.91	18.867	
7,450.0	7,015.7	7,502.9	7,125.6	19.3	17.4	100.10	-384.2	-84.3	640.0	605.2	34.87	18.355	
7,480.3	7,016.6	7,538.9	7,127.6	19.6	17.8	100.18	-420.1	-84.4	640.2	604.7	35.51	18.029	
7,488.2	7,016.6	7,548.2	7,127.9	19.6	17.8	100.19	-429.5	-84.4	640.2	604.5	35.67	17.946	
7,500.0	7,016.6	7,562.3	7,128.0	19.7	18.0	100.21	-443.5	-84.5	640.2	604.3	35.93	17.821	
7,578.7	7,016.3	7,641.1	7,127.8	20.5	18.8	100.21	-522.3	-84.8	640.2	602.7	37.58	17.035	
7,600.0	7,016.2	7,662.4	7,127.8	20.7	19.1	100.21	-543.6	-84.8	640.2	602.2	38.04	16.830	
7,677.1	7,016.0	7,739.5	7,127.6	21.6	19.9	100.22	-620.8	-85.1	640.3	600.5	39.77	16.097	
7,700.0	7,015.9	7,762.4	7,127.5	21.8	20.2	100.22	-643.6	-85.2	640.3	600.0	40.28	15.895	
7,775.6	7,015.7	7,837.9	7,127.4	22.7	21.0	100.23	-719.2	-85.5	640.3	598.2	42.08	15.216	
7,800.0	7,015.6	7,862.4	7,127.3	23.0	21.3	100.23	-743.6	-85.6	640.3	597.6	42.67	15.004	
7,874.0	7,015.4	7,936.4	7,127.1	24.0	22.2	100.23	-817.6	-85.8	640.3	595.7	44.63	14.347	
7,900.0	7,015.3	7,962.4	7,127.1	24.4	22.6	100.24	-843.6	-85.9	640.3	594.9	45.35	14.120	
7,972.4	7,015.1	8,034.8	7,126.9	25.4	23.6	100.24	-916.0	-86.2	640.3	592.9	47.43	13.501	
8,000.0	7,015.0	8,062.4	7,126.9	25.8	24.0	100.24	-943.6	-86.3	640.3	592.1	48.23	13.277	
8,070.8	7,014.8	8,133.2	7,126.7	26.8	25.1	100.25	-1,014.5	-86.6	640.3	590.0	50.35	12.717	
8,100.0	7,014.7	8,162.4	7,126.6	27.3	25.5	100.25	-1,043.6	-86.7	640.3	589.1	51.24	12.497	
8,169.3	7,014.4	8,231.6	7,126.5	28.3	26.6	100.26	-1,112.9	-86.9	640.3	586.9	53.39	11.994	
8,200.0	7,014.4	8,262.4	7,126.4	28.8	27.1	100.26	-1,143.6	-87.0	640.3	586.0	54.35	11.782	
8,267.7	7,014.1	8,330.1	7,126.3	29.9	28.2	100.27	-1,211.3	-87.3	640.4	583.8	56.51	11.331	
8,300.0	7,014.0	8,362.4	7,126.2	30.4	28.7	100.27	-1,243.6	-87.4	640.4	582.8	57.55	11.126	
8,366.1	7,013.8	8,428.5	7,126.0	31.5	29.8	100.27	-1,309.7	-87.6	640.4	580.7	59.72	10.723	
8,400.0	7,013.7	8,462.4	7,126.0	32.0	30.3	100.28	-1,343.6	-87.8	640.4	579.5	60.83	10.527	
8,464.5	7,013.5	8,526.9	7,125.8	33.1	31.4	100.28	-1,408.2	-88.0	640.4	577.4	62.98	10.167	
8,500.0	7,013.4	8,562.4	7,125.7	33.7	32.0	100.28	-1,443.6	-88.1	640.4	576.2	64.17	9.979	
8,563.0	7,013.2	8,625.3	7,125.6	34.8	33.1	100.29	-1,506.6	-88.4	640.4	574.1	66.31	9.658	
8,600.0	7,013.1	8,662.4	7,125.5	35.4	33.7	100.29	-1,543.6	-88.5	640.4	572.8	67.57	9.478	
8,661.4	7,012.9	8,723.8	7,125.4	36.5	34.8	100.30	-1,605.0	-88.7	640.4	570.7	69.67	9.192	
8,700.0	7,012.8	8,762.4	7,125.3	37.1	35.4	100.30	-1,643.6	-88.9	640.4	569.4	71.01	9.019	
8,759.8	7,012.6	8,822.2	7,125.1	38.2	36.5	100.30	-1,703.4	-89.1	640.4	567.4	73.08	8.763	
8,800.0	7,012.4	8,862.4	7,125.1	38.9	37.2	100.31	-1,743.6	-89.2	640.4	566.0	74.48	8.598	
8,858.2	7,012.3	8,920.6	7,124.9	39.9	38.2	100.31	-1,801.9	-89.4	640.5	563.9	76.53	8.369	
8,900.0	7,012.1	8,962.4	7,124.8	40.7	38.9	100.32	-1,843.6	-89.6	640.5	562.5	78.00	8.211	
8,956.7	7,011.9	9,019.0	7,124.7	41.7	39.9	100.32	-1,900.3	-89.8	640.5	560.5	80.00	8.006	
9,000.0	7,011.8	9,062.4	7,124.6	42.4	40.7	100.32	-1,943.6	-90.0	640.5	558.9	81.54	7.855	
9,055.1	7,011.6	9,117.5	7,124.5	43.4	41.7	100.33	-1,998.7	-90.2	640.5	557.0	83.51	7.670	
9,100.0	7,011.5	9,162.4	7,124.4	44.2	42.5	100.33	-2,043.6	-90.3	640.5	555.4	85.11	7.526	
9,153.5	7,011.3	9,215.9	7,124.3	45.2	43.4	100.34	-2,097.1	-90.5	640.5	553.5	87.03	7.360	
9,200.0	7,011.2	9,262.4	7,124.1	46.1	44.3	100.34	-2,143.6	-90.7	640.5	551.8	88.70	7.221	
9,251.9	7,011.0	9,314.3	7,124.0	47.0	45.2	100.34	-2,195.5	-90.9	640.5	550.0	90.58	7.072	
9,300.0	7,010.9	9,362.4	7,123.9	47.9	46.1	100.35	-2,243.6	-91.1	640.5	548.2	92.31	6.939	
9,350.4	7,010.7	9,412.7	7,123.8	48.8	47.0	100.35	-2,294.0	-91.2	640.5	546.4	94.14	6.804	
9,400.0	7,010.5	9,462.4	7,123.7	49.7	47.9	100.36	-2,343.6	-91.4	640.6	544.6	95.94	6.676	
9,448.8	7,010.4	9,511.2	7,123.6	50.6	48.8	100.36	-2,392.4	-91.6	640.6	542.8	97.72	6.555	
9,500.0	7,010.2	9,562.4	7,123.5	51.6	49.7	100.37	-2,443.6	-91.8	640.6	541.0	99.59	6.432	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	7,010.1	9,609.6	7,123.4	52.5	50.6	100.37	-2,490.8	-92.0	640.6	539.3	101.32	6.323	
9,600.0	7,009.9	9,662.4	7,123.2	53.5	51.6	100.37	-2,543.6	-92.2	640.6	537.3	103.25	6.204	
9,645.6	7,009.8	9,708.0	7,123.1	54.3	52.4	100.38	-2,589.2	-92.3	640.6	535.7	104.92	6.105	
9,700.0	7,009.6	9,762.4	7,123.0	55.3	53.4	100.38	-2,643.6	-92.5	640.6	533.7	106.92	5.992	
9,744.1	7,009.4	9,806.4	7,122.9	56.2	54.2	100.39	-2,687.7	-92.7	640.6	532.1	108.54	5.902	
9,800.0	7,009.3	9,862.4	7,122.8	57.2	55.2	100.39	-2,743.6	-92.9	640.6	530.0	110.60	5.792	
9,842.5	7,009.1	9,904.9	7,122.7	58.0	56.0	100.39	-2,786.1	-93.0	640.6	528.5	112.17	5.711	
9,900.0	7,008.9	9,962.4	7,122.6	59.1	57.1	100.40	-2,843.6	-93.3	640.7	526.4	114.30	5.605	
9,940.9	7,008.8	10,003.3	7,122.5	59.9	57.8	100.40	-2,884.5	-93.4	640.7	524.9	115.81	5.532	
10,000.0	7,008.6	10,062.4	7,122.3	61.0	58.9	100.41	-2,943.6	-93.6	640.7	522.7	118.00	5.429	
10,039.3	7,008.5	10,101.7	7,122.3	61.7	59.7	100.41	-2,982.9	-93.8	640.7	521.2	119.46	5.363	
10,100.0	7,008.3	10,162.4	7,122.1	62.9	60.8	100.41	-3,043.6	-94.0	640.7	519.0	121.71	5.264	
10,137.8	7,008.2	10,200.1	7,122.0	63.6	61.5	100.42	-3,081.4	-94.1	640.7	517.6	123.12	5.204	
10,200.0	7,008.0	10,262.4	7,121.9	64.8	62.6	100.42	-3,143.6	-94.4	640.7	515.3	125.43	5.108	
10,236.2	7,007.9	10,298.6	7,121.8	65.5	63.3	100.43	-3,179.8	-94.5	640.7	513.9	126.78	5.054	
10,300.0	7,007.6	10,362.4	7,121.7	66.7	64.5	100.43	-3,243.6	-94.7	640.7	511.6	129.16	4.961	
10,334.6	7,007.5	10,397.0	7,121.6	67.3	65.2	100.43	-3,278.2	-94.8	640.7	510.3	130.45	4.912	
10,400.0	7,007.3	10,462.4	7,121.4	68.6	66.4	100.44	-3,343.6	-95.1	640.8	507.9	132.89	4.822	
10,433.0	7,007.2	10,495.4	7,121.4	69.2	67.0	100.44	-3,376.6	-95.2	640.8	506.6	134.13	4.777	
10,500.0	7,007.0	10,562.4	7,121.2	70.5	68.2	100.45	-3,443.6	-95.5	640.8	504.1	136.63	4.690	
10,531.5	7,006.9	10,593.8	7,121.1	71.1	68.8	100.45	-3,475.1	-95.6	640.8	503.0	137.81	4.650	
10,600.0	7,006.7	10,662.4	7,121.0	72.4	70.1	100.46	-3,543.6	-95.8	640.8	500.4	140.37	4.565	
10,629.9	7,006.6	10,692.3	7,120.9	73.0	70.7	100.46	-3,573.5	-95.9	640.8	499.3	141.49	4.529	
10,700.0	7,006.4	10,762.4	7,120.8	74.3	72.0	100.47	-3,643.6	-96.2	640.8	496.7	144.12	4.446	
10,728.3	7,006.3	10,790.7	7,120.7	74.9	72.5	100.47	-3,671.9	-96.3	640.8	495.6	145.19	4.414	
10,800.0	7,006.0	10,862.4	7,120.5	76.3	73.9	100.47	-3,743.6	-96.5	640.8	493.0	147.88	4.334	
10,826.7	7,005.9	10,889.1	7,120.5	76.8	74.4	100.48	-3,770.3	-96.6	640.8	492.0	148.88	4.304	
10,900.0	7,005.7	10,962.4	7,120.3	78.2	75.7	100.48	-3,843.6	-96.9	640.9	489.2	151.63	4.226	
10,925.2	7,005.6	10,987.5	7,120.3	78.7	76.2	100.48	-3,868.8	-97.0	640.9	488.3	152.58	4.200	
11,000.0	7,005.4	11,062.4	7,120.1	80.1	77.6	100.49	-3,943.6	-97.3	640.9	485.5	155.40	4.124	
11,023.6	7,005.3	11,086.0	7,120.0	80.6	78.1	100.49	-3,967.2	-97.4	640.9	484.6	156.28	4.101	
11,100.0	7,005.1	11,162.4	7,119.9	82.0	79.5	100.50	-4,043.6	-97.6	640.9	481.7	159.16	4.027	
11,122.0	7,005.0	11,184.4	7,119.8	82.5	79.9	100.50	-4,065.6	-97.7	640.9	480.9	159.99	4.006	
11,200.0	7,004.7	11,262.4	7,119.6	84.0	81.4	100.51	-4,143.6	-98.0	640.9	478.0	162.93	3.934	
11,220.4	7,004.7	11,282.8	7,119.6	84.4	81.8	100.51	-4,164.0	-98.1	640.9	477.2	163.70	3.915	
11,300.0	7,004.4	11,362.4	7,119.4	85.9	83.3	100.52	-4,243.6	-98.4	641.0	474.3	166.70	3.845	
11,318.9	7,004.4	11,381.2	7,119.4	86.3	83.6	100.52	-4,262.5	-98.4	641.0	473.5	167.41	3.829	
11,400.0	7,004.1	11,462.4	7,119.2	87.8	85.2	100.53	-4,343.6	-98.7	641.0	470.5	170.47	3.760	
11,417.3	7,004.0	11,479.7	7,119.1	88.2	85.5	100.53	-4,360.9	-98.8	641.0	469.9	171.13	3.746	
11,500.0	7,003.8	11,562.4	7,119.0	89.8	87.1	100.53	-4,443.6	-99.1	641.0	466.7	174.25	3.679	
11,515.7	7,003.7	11,578.1	7,118.9	90.1	87.4	100.54	-4,459.3	-99.2	641.0	466.2	174.84	3.666	
11,600.0	7,003.4	11,662.4	7,118.7	91.7	89.0	100.54	-4,543.6	-99.5	641.0	463.0	178.03	3.601	
11,614.1	7,003.4	11,676.5	7,118.7	92.0	89.2	100.54	-4,557.7	-99.5	641.0	462.5	178.56	3.590	
11,700.0	7,003.1	11,762.4	7,118.5	93.7	90.8	100.55	-4,643.6	-99.8	641.0	459.2	181.81	3.526	
11,712.6	7,003.1	11,774.9	7,118.5	93.9	91.1	100.55	-4,656.2	-99.9	641.0	458.8	182.29	3.517	
11,800.0	7,002.8	11,862.4	7,118.3	95.6	92.7	100.56	-4,743.6	-100.2	641.1	455.5	185.60	3.454	
11,811.0	7,002.7	11,873.4	7,118.3	95.8	92.9	100.56	-4,754.6	-100.2	641.1	455.1	186.01	3.446	
11,900.0	7,002.5	11,962.4	7,118.1	97.6	94.6	100.57	-4,843.6	-100.6	641.1	451.7	189.38	3.385	
11,909.4	7,002.4	11,971.8	7,118.0	97.7	94.8	100.57	-4,853.0	-100.6	641.1	451.4	189.74	3.379	
12,000.0	7,002.1	12,062.4	7,117.8	99.5	96.5	100.58	-4,943.6	-100.9	641.1	447.9	193.17	3.319	
12,007.8	7,002.1	12,070.2	7,117.8	99.7	96.7	100.58	-4,951.4	-101.0	641.1	447.7	193.47	3.314	
12,100.0	7,001.8	12,162.4	7,117.6	101.5	98.4	100.59	-5,043.6	-101.3	641.1	444.2	196.96	3.255	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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-403 - 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
12,106.3	7,001.8	12,168.6	7,117.6	101.6	98.5	100.59	-5,049.9	-101.3	641.1	443.9	197.20	3.251	
12,200.0	7,001.5	12,262.4	7,117.4	103.4	100.3	100.60	-5,143.6	-101.7	641.2	440.4	200.75	3.194	
12,204.7	7,001.5	12,267.1	7,117.4	103.5	100.4	100.60	-5,148.3	-101.7	641.2	440.2	200.93	3.191	
12,300.0	7,001.2	12,362.4	7,117.2	105.3	102.2	100.61	-5,243.6	-102.0	641.2	436.6	204.54	3.135	
12,303.1	7,001.1	12,365.5	7,117.2	105.4	102.3	100.61	-5,246.7	-102.0	641.2	436.5	204.66	3.133	
12,400.0	7,000.8	12,462.4	7,116.9	107.3	104.1	100.61	-5,343.6	-102.4	641.2	432.9	208.34	3.078	
12,401.5	7,000.8	12,463.9	7,116.9	107.3	104.1	100.61	-5,345.1	-102.4	641.2	432.8	208.39	3.077	
12,500.0	7,000.5	12,562.4	7,116.7	109.3	106.0	100.62	-5,443.6	-102.7	641.2	429.1	212.13	3.023	
12,598.4	7,000.2	12,660.8	7,116.5	111.2	107.9	100.63	-5,542.0	-103.1	641.3	425.4	215.87	2.971	
12,600.0	7,000.2	12,662.4	7,116.5	111.2	107.9	100.63	-5,543.6	-103.1	641.3	425.3	215.93	2.970	
12,696.8	6,999.8	12,759.2	7,116.3	113.1	109.8	100.64	-5,640.4	-103.5	641.3	421.7	219.60	2.920	
12,700.0	6,999.8	12,762.4	7,116.3	113.2	109.8	100.64	-5,643.6	-103.5	641.3	421.6	219.73	2.919	
12,795.2	6,999.5	12,857.6	7,116.0	115.0	111.6	100.65	-5,738.8	-103.8	641.3	418.0	223.34	2.871	
12,800.0	6,999.5	12,862.4	7,116.0	115.1	111.7	100.65	-5,743.6	-103.8	641.3	417.8	223.52	2.869	
12,893.7	6,999.2	12,956.1	7,115.8	116.9	113.5	100.66	-5,837.2	-104.2	641.3	414.3	227.08	2.824	
12,900.0	6,999.2	12,962.4	7,115.8	117.1	113.6	100.66	-5,843.6	-104.2	641.3	414.0	227.32	2.821	
12,992.1	6,998.9	13,054.5	7,115.6	118.9	115.4	100.67	-5,935.7	-104.5	641.4	410.5	230.82	2.779	
13,000.0	6,998.8	13,062.4	7,115.6	119.0	115.5	100.67	-5,943.6	-104.6	641.4	410.2	231.13	2.775	
13,090.5	6,998.6	13,152.9	7,115.4	120.8	117.2	100.68	-6,034.1	-104.9	641.4	406.8	234.57	2.734	
13,100.0	6,998.5	13,162.4	7,115.4	121.0	117.4	100.68	-6,043.6	-104.9	641.4	406.5	234.93	2.730	
13,188.9	6,998.2	13,251.3	7,115.2	122.7	119.1	100.69	-6,132.5	-105.3	641.4	403.1	238.31	2.691	
13,200.0	6,998.2	13,262.4	7,115.1	122.9	119.3	100.69	-6,143.6	-105.3	641.4	402.7	238.73	2.687	
13,287.4	6,997.9	13,349.8	7,114.9	124.6	121.0	100.70	-6,230.9	-105.6	641.4	399.4	242.05	2.650	
13,300.0	6,997.9	13,362.4	7,114.9	124.9	121.2	100.70	-6,243.6	-105.7	641.4	398.9	242.53	2.645	
13,385.8	6,997.6	13,448.2	7,114.7	126.6	122.9	100.70	-6,329.4	-106.0	641.5	395.7	245.80	2.610	
13,400.0	6,997.5	13,462.4	7,114.7	126.9	123.1	100.71	-6,343.6	-106.0	641.5	395.1	246.34	2.604	
13,484.2	6,997.3	13,546.6	7,114.5	128.5	124.7	100.71	-6,427.8	-106.3	641.5	391.9	249.54	2.571	
13,500.0	6,997.2	13,562.4	7,114.5	128.8	125.0	100.72	-6,443.6	-106.4	641.5	391.3	250.14	2.564	
13,582.6	6,996.9	13,645.0	7,114.3	130.4	126.6	100.72	-6,526.2	-106.7	641.5	388.2	253.29	2.533	
13,600.0	6,996.9	13,662.4	7,114.2	130.8	126.9	100.72	-6,543.6	-106.7	641.5	387.6	253.95	2.526	
13,681.1	6,996.6	13,743.5	7,114.1	132.4	128.5	100.73	-6,624.6	-107.0	641.5	384.5	257.03	2.496	
13,700.0	6,996.5	13,762.4	7,114.0	132.7	128.9	100.73	-6,643.6	-107.1	641.5	383.8	257.75	2.489	
13,779.5	6,996.3	13,841.9	7,113.8	134.3	130.4	100.74	-6,723.1	-107.4	641.6	380.8	260.78	2.460	
13,800.0	6,996.2	13,862.4	7,113.8	134.7	130.8	100.74	-6,743.6	-107.5	641.6	380.0	261.56	2.453	
13,877.9	6,995.9	13,940.3	7,113.6	136.2	132.2	100.75	-6,821.5	-107.8	641.6	377.1	264.53	2.425	
13,900.0	6,995.9	13,962.4	7,113.6	136.7	132.7	100.75	-6,843.6	-107.8	641.6	376.2	265.37	2.418	
13,976.3	6,995.6	14,038.7	7,113.4	138.2	134.1	100.76	-6,919.9	-108.1	641.6	373.3	268.28	2.392	
14,000.0	6,995.5	14,062.4	7,113.4	138.6	134.6	100.76	-6,943.6	-108.2	641.6	372.4	269.18	2.384	
14,074.8	6,995.3	14,137.2	7,113.2	140.1	136.0	100.77	-7,018.3	-108.5	641.6	369.6	272.02	2.359	
14,100.0	6,995.2	14,162.4	7,113.1	140.6	136.5	100.77	-7,043.6	-108.6	641.7	368.7	272.99	2.350	
14,132.6	6,995.1	14,195.0	7,113.1	141.2	137.1	100.77	-7,076.2	-108.7	641.7	367.5	274.21	2.340	
14,162.0	6,995.0	14,219.1	7,113.0	141.8	137.6	100.78	-7,100.3	-108.8	641.7	366.5	275.21	2.332 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	89.98	0.0	27.9	27.9				
98.4	98.4	99.4	99.4	0.1	0.1	89.98	0.0	27.9	27.9	27.7	0.19	145.151	
100.0	100.0	101.0	101.0	0.1	0.1	89.98	0.0	27.9	27.9	27.7	0.20	141.773	
196.8	196.8	197.8	197.8	0.3	0.3	89.98	0.0	27.9	27.9	27.3	0.63	44.115	
200.0	200.0	201.0	201.0	0.3	0.3	89.98	0.0	27.9	27.9	27.2	0.65	43.148	
295.3	295.3	296.3	296.3	0.5	0.5	89.98	0.0	27.9	27.9	26.8	1.07	25.950	
300.0	300.0	301.0	301.0	0.5	0.5	89.98	0.0	27.9	27.9	26.8	1.10	25.447	
393.7	393.7	394.7	394.7	0.8	0.8	89.98	0.0	27.9	27.9	26.4	1.52	18.381	
400.0	400.0	401.0	401.0	0.8	0.8	89.98	0.0	27.9	27.9	26.3	1.55	18.044	
492.1	492.1	493.1	493.1	1.0	1.0	89.98	0.0	27.9	27.9	25.9	1.96	14.230	
500.0	500.0	501.0	501.0	1.0	1.0	89.98	0.0	27.9	27.9	25.9	1.99	13.978	
590.5	590.5	591.5	591.5	1.2	1.2	89.98	0.0	27.9	27.9	25.5	2.40	11.609	
600.0	600.0	601.0	601.0	1.2	1.2	89.98	0.0	27.9	27.9	25.4	2.44	11.407	
689.0	689.0	690.0	690.0	1.4	1.4	89.98	0.0	27.9	27.9	25.0	2.84	9.803	
700.0	700.0	701.0	701.0	1.4	1.4	89.98	0.0	27.9	27.9	25.0	2.89	9.635	
787.4	787.4	788.4	788.4	1.6	1.6	89.98	0.0	27.9	27.9	24.6	3.29	8.483	
800.0	800.0	801.0	801.0	1.7	1.7	89.98	0.0	27.9	27.9	24.5	3.34	8.340	
885.8	885.8	886.8	886.8	1.9	1.9	89.98	0.0	27.9	27.9	24.2	3.73	7.477	
900.0	900.0	901.0	901.0	1.9	1.9	89.98	0.0	27.9	27.9	24.1	3.79	7.351	
984.2	984.2	985.2	985.2	2.1	2.1	89.98	0.0	27.9	27.9	23.7	4.17	6.684	
989.4	989.4	990.4	990.4	2.1	2.1	89.98	0.0	27.9	27.9	23.7	4.19	6.647 CC	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	89.98	0.0	27.9	27.9	23.6	4.24	6.572	
1,082.7	1,082.7	1,082.9	1,082.9	2.3	2.3	89.18	0.4	29.0	29.0	24.4	4.61	6.302	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	88.83	0.6	29.5	29.5	24.9	4.68	6.311	
1,181.1	1,181.1	1,180.3	1,180.2	2.5	2.5	24.89	1.9	33.2	32.3	27.3	5.02	6.426	
1,200.0	1,200.0	1,199.0	1,198.8	2.6	2.5	24.67	2.4	34.4	32.9	27.8	5.10	6.454	
1,279.5	1,279.4	1,277.5	1,277.1	2.7	2.7	24.12	4.6	40.5	35.7	30.3	5.43	6.575	
1,300.0	1,299.8	1,297.7	1,297.2	2.8	2.8	24.07	5.3	42.4	36.5	30.9	5.52	6.608	
1,377.9	1,377.5	1,374.7	1,373.6	3.0	3.0	24.10	8.3	50.9	39.3	33.4	5.84	6.723	
1,400.0	1,399.5	1,396.4	1,395.2	3.0	3.0	24.18	9.3	53.6	40.1	34.2	5.94	6.757	
1,476.4	1,475.3	1,471.7	1,469.6	3.2	3.2	24.64	13.2	64.3	43.0	36.7	6.26	6.864	
1,500.0	1,498.7	1,495.0	1,492.5	3.2	3.3	24.84	14.5	68.0	43.9	37.5	6.36	6.898	
1,574.8	1,572.6	1,568.6	1,564.9	3.5	3.5	25.60	19.2	80.8	46.8	40.1	6.69	6.993	
1,600.0	1,597.5	1,593.4	1,589.2	3.5	3.6	25.90	20.9	85.5	47.7	41.0	6.80	7.026	
1,673.2	1,669.4	1,666.5	1,660.6	3.7	3.8	27.19	26.0	99.7	50.0	42.8	7.13	7.003	
1,700.0	1,695.7	1,693.3	1,686.9	3.8	3.9	27.88	27.9	105.0	50.4	43.1	7.26	6.938	
1,771.6	1,765.7	1,764.9	1,756.9	4.1	4.2	29.87	33.0	119.0	51.2	43.6	7.64	6.703	
1,800.0	1,793.4	1,793.2	1,784.6	4.2	4.3	30.64	35.0	124.5	51.6	43.8	7.79	6.616	
1,870.1	1,862.0	1,863.2	1,853.1	4.4	4.6	32.50	40.0	138.2	52.4	44.3	8.19	6.405	
1,900.0	1,891.3	1,893.2	1,882.4	4.5	4.7	33.27	42.1	144.0	52.8	44.5	8.36	6.323	
1,968.5	1,958.3	1,961.6	1,949.3	4.8	5.0	35.00	47.0	157.4	53.8	45.0	8.77	6.136	
2,000.0	1,989.1	1,993.1	1,980.1	4.9	5.1	35.78	49.2	163.6	54.2	45.3	8.96	6.055	
2,066.9	2,054.5	2,060.0	2,045.6	5.2	5.3	37.38	53.9	176.7	55.2	45.9	9.38	5.888	
2,100.0	2,086.9	2,093.1	2,077.9	5.3	5.5	38.15	56.3	183.1	55.7	46.1	9.59	5.809	
2,165.3	2,150.8	2,158.4	2,141.8	5.6	5.8	39.63	60.9	195.9	56.8	46.7	10.03	5.660	
2,200.0	2,184.7	2,193.0	2,175.7	5.7	5.9	40.39	63.4	202.7	57.3	47.1	10.26	5.585	
2,263.8	2,247.1	2,256.8	2,238.1	5.9	6.2	41.76	67.9	215.1	58.4	47.7	10.71	5.453	
2,300.0	2,282.5	2,293.0	2,273.5	6.1	6.3	42.51	70.4	222.2	59.0	48.0	10.96	5.381	
2,362.2	2,343.4	2,355.2	2,334.3	6.4	6.6	43.77	74.8	234.4	60.1	48.7	11.41	5.263	
2,400.0	2,380.3	2,393.0	2,371.3	6.5	6.7	44.51	77.5	241.8	60.7	49.0	11.69	5.196	
2,460.6	2,439.6	2,453.6	2,430.5	6.8	7.0	45.67	81.8	253.6	61.8	49.7	12.14	5.091	
2,500.0	2,478.1	2,492.9	2,469.0	6.9	7.2	46.40	84.6	261.3	62.6	50.1	12.44	5.027	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	2,552.0	2,526.8	7.2	7.4	47.46	88.8	272.8	63.7	50.8	12.90	4.935	
2,600.0	2,576.0	2,592.9	2,566.8	7.4	7.6	48.18	91.7	280.8	64.4	51.2	13.22	4.874	
2,657.5	2,632.2	2,650.3	2,623.0	7.6	7.8	49.15	95.8	292.1	65.5	51.9	13.67	4.793	
2,700.0	2,673.8	2,692.9	2,664.6	7.8	8.0	49.85	98.8	300.4	66.4	52.4	14.01	4.736	
2,755.9	2,728.4	2,748.7	2,719.3	8.0	8.3	50.75	102.7	311.3	67.5	53.0	14.47	4.664	
2,800.0	2,771.6	2,792.8	2,762.4	8.2	8.5	51.43	105.8	319.9	68.4	53.5	14.83	4.610	
2,854.3	2,824.7	2,847.1	2,815.5	8.4	8.7	52.25	109.7	330.5	69.5	54.2	15.28	4.547	
2,900.0	2,869.4	2,892.8	2,860.2	8.6	8.9	52.92	112.9	339.5	70.4	54.7	15.66	4.497	
2,952.7	2,921.0	2,945.5	2,911.7	8.9	9.1	53.68	116.7	349.8	71.5	55.4	16.10	4.441	
3,000.0	2,967.2	2,992.7	2,957.9	9.1	9.3	54.33	120.0	359.0	72.5	56.0	16.50	4.394	
3,051.2	3,017.3	3,043.9	3,008.0	9.3	9.6	55.02	123.6	369.0	73.6	56.6	16.93	4.345	
3,100.0	3,065.0	3,092.7	3,055.7	9.5	9.8	55.65	127.1	378.5	74.6	57.3	17.35	4.300	
3,149.6	3,113.5	3,142.3	3,104.2	9.7	10.0	56.28	130.6	388.2	75.7	57.9	17.78	4.257	
3,200.0	3,162.8	3,192.7	3,153.5	9.9	10.2	56.91	134.2	398.1	76.8	58.6	18.22	4.215	
3,248.0	3,209.8	3,240.7	3,200.4	10.2	10.4	57.48	137.6	407.5	77.8	59.2	18.63	4.177	
3,300.0	3,260.7	3,292.6	3,251.3	10.4	10.7	58.09	141.3	417.6	79.0	59.9	19.09	4.138	
3,346.4	3,306.1	3,339.1	3,296.7	10.6	10.9	58.61	144.5	426.7	80.0	60.5	19.50	4.104	
3,400.0	3,358.5	3,392.6	3,349.0	10.8	11.1	59.21	148.3	437.2	81.2	61.2	19.97	4.067	
3,444.9	3,402.4	3,437.5	3,392.9	11.0	11.3	59.69	151.5	445.9	82.2	61.9	20.37	4.037	
3,500.0	3,456.3	3,492.6	3,446.8	11.3	11.6	60.26	155.4	456.7	83.5	62.6	20.85	4.002	
3,543.3	3,498.6	3,535.8	3,489.2	11.5	11.8	60.70	158.5	465.2	84.5	63.2	21.24	3.976	
3,600.0	3,554.1	3,592.5	3,544.6	11.7	12.0	61.27	162.5	476.3	85.8	64.0	21.75	3.944	
3,641.7	3,594.9	3,634.2	3,585.4	11.9	12.2	61.67	165.5	484.4	86.7	64.6	22.12	3.920	
3,700.0	3,651.9	3,692.5	3,642.4	12.2	12.5	62.21	169.6	495.8	88.1	65.4	22.64	3.890	
3,740.1	3,691.2	3,732.6	3,681.6	12.3	12.6	62.58	172.4	503.6	89.0	66.0	23.00	3.869	
3,800.0	3,749.7	3,792.5	3,740.2	12.6	12.9	63.11	176.7	515.3	90.4	66.9	23.54	3.840	
3,838.6	3,787.5	3,831.0	3,777.9	12.8	13.1	63.45	179.4	522.9	91.3	67.4	23.89	3.822	
3,900.0	3,847.5	3,892.4	3,837.9	13.0	13.4	63.97	183.7	534.9	92.8	68.3	24.45	3.794	
3,937.0	3,883.7	3,929.4	3,874.1	13.2	13.5	64.28	186.4	542.1	93.6	68.9	24.78	3.778	
4,000.0	3,945.4	3,992.4	3,935.7	13.5	13.8	64.78	190.8	554.4	95.1	69.8	25.35	3.752	
4,035.4	3,980.0	4,027.8	3,970.3	13.7	14.0	65.06	193.3	561.3	96.0	70.3	25.68	3.738	
4,068.9	4,012.7	4,061.2	4,003.1	13.8	14.1	65.32	195.7	567.9	96.8	70.8	25.98	3.725	
4,100.0	4,043.2	4,092.3	4,033.5	13.9	14.3	65.48	197.9	574.0	97.6	71.4	26.24	3.720	
4,133.8	4,076.4	4,126.2	4,066.6	14.0	14.4	65.45	200.3	580.6	98.6	72.2	26.48	3.726	
4,200.0	4,141.6	4,192.3	4,131.2	14.2	14.7	64.81	205.0	593.5	101.2	74.3	26.87	3.766	
4,232.3	4,173.4	4,224.5	4,162.7	14.3	14.8	64.24	207.3	599.8	102.7	75.7	27.01	3.801	
4,300.0	4,240.5	4,292.0	4,228.8	14.5	15.2	62.54	212.1	613.0	106.3	79.1	27.24	3.904	
4,330.7	4,271.0	4,322.6	4,258.7	14.6	15.3	61.56	214.2	619.0	108.3	81.0	27.30	3.967	
4,400.0	4,339.9	4,391.5	4,326.1	14.8	15.6	58.98	219.1	632.4	113.4	86.1	27.35	4.147	
4,429.1	4,368.9	4,420.4	4,354.4	14.8	15.7	57.77	221.2	638.1	115.9	88.6	27.34	4.241	
4,500.0	4,439.6	4,490.6	4,423.1	15.0	16.1	54.58	226.1	651.8	122.9	95.7	27.24	4.513	
4,527.5	4,467.1	4,517.8	4,449.7	15.0	16.2	53.27	228.1	657.1	126.0	98.9	27.17	4.639	
4,600.0	4,539.5	4,589.2	4,519.5	15.1	16.5	49.75	233.1	671.1	135.3	108.4	26.94	5.023	
4,626.0	4,565.4	4,614.7	4,544.4	15.2	16.6	48.48	234.9	676.1	139.1	112.2	26.84	5.180	
4,668.9	4,608.4	4,656.8	4,585.6	15.2	16.8	108.95	237.9	684.3	145.8	119.1	26.63	5.472	
4,700.0	4,639.5	4,687.2	4,615.3	15.3	16.9	107.42	240.1	690.2	150.9	124.4	26.52	5.690	
4,724.4	4,663.9	4,711.0	4,638.7	15.3	17.0	106.29	241.7	694.9	155.0	128.5	26.44	5.862	
4,800.0	4,739.5	4,785.0	4,711.0	15.4	17.4	103.15	247.0	709.4	168.0	141.8	26.25	6.401	
4,822.8	4,762.3	4,807.3	4,732.8	15.4	17.5	102.29	248.6	713.7	172.0	145.8	26.21	6.564	
4,900.0	4,839.5	4,882.8	4,806.7	15.6	17.8	99.66	253.9	728.5	185.9	159.8	26.12	7.117	
4,921.2	4,860.7	4,903.6	4,827.0	15.6	17.9	99.01	255.4	732.5	189.8	163.6	26.11	7.268	
5,000.0	4,939.5	4,980.6	4,902.4	15.7	18.3	96.80	260.8	747.6	204.3	178.2	26.11	7.826	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	4,959.1	4,999.9	4,921.2	15.7	18.4	96.29	262.2	751.4	208.0	181.9	26.12	7.964	
5,100.0	5,039.5	5,083.3	5,003.0	15.9	18.7	94.38	267.8	766.9	222.5	196.3	26.17	8.499	
5,118.1	5,057.6	5,102.5	5,021.8	15.9	18.8	94.01	269.0	770.2	225.5	199.3	26.20	8.606	
5,200.0	5,139.5	5,189.8	5,107.9	16.0	19.0	92.61	273.9	783.6	237.7	211.4	26.32	9.032	
5,216.5	5,156.0	5,207.5	5,125.5	16.0	19.1	92.37	274.8	786.0	240.0	213.6	26.36	9.105	
5,300.0	5,239.5	5,297.5	5,214.7	16.2	19.3	91.38	278.6	796.7	249.8	223.2	26.55	9.408	
5,314.9	5,254.4	5,313.6	5,230.8	16.2	19.3	91.23	279.2	798.3	251.3	224.7	26.59	9.451	
5,400.0	5,339.5	5,406.0	5,322.8	16.3	19.5	90.57	282.0	806.0	258.3	231.5	26.83	9.630	
5,413.4	5,352.8	5,420.6	5,337.4	16.3	19.6	90.50	282.4	807.0	259.2	232.4	26.87	9.649	
5,500.0	5,439.5	5,515.2	5,431.9	16.5	19.7	90.13	284.0	811.5	263.4	236.2	27.14	9.704	
5,511.8	5,451.3	5,528.1	5,444.8	16.5	19.7	90.10	284.2	811.9	263.8	236.6	27.18	9.703	
5,600.0	5,539.5	5,623.9	5,540.5	16.6	19.9	90.00	284.6	813.2	264.9	237.4	27.49	9.635	
5,610.2	5,549.7	5,634.1	5,550.7	16.6	19.9	90.00	284.6	813.2	264.9	237.4	27.53	9.622	
5,700.0	5,639.5	5,723.9	5,640.5	16.8	20.0	90.00	284.6	813.2	264.9	237.0	27.85	9.509	
5,708.6	5,648.1	5,732.5	5,649.1	16.8	20.0	90.00	284.6	813.2	264.9	237.0	27.89	9.498	
5,800.0	5,739.5	5,823.9	5,740.5	17.0	20.1	90.00	284.6	813.2	264.9	236.7	28.23	9.384	
5,807.1	5,746.5	5,830.9	5,747.5	17.0	20.1	90.00	284.6	813.2	264.9	236.6	28.25	9.375	
5,900.0	5,839.5	5,923.9	5,840.5	17.1	20.2	90.00	284.6	813.2	264.9	236.3	28.60	9.261	
5,905.5	5,845.0	5,929.4	5,846.0	17.1	20.3	90.00	284.6	813.2	264.9	236.3	28.62	9.255	
6,000.0	5,939.5	6,023.9	5,940.5	17.3	20.4	90.00	284.6	813.2	264.9	235.9	28.98	9.141	
6,003.9	5,943.4	6,027.8	5,944.4	17.3	20.4	90.00	284.6	813.2	264.9	235.9	28.99	9.136	
6,100.0	6,039.5	6,123.9	6,040.5	17.4	20.5	90.00	284.6	813.2	264.9	235.5	29.36	9.023	
6,102.3	6,041.8	6,126.2	6,042.8	17.4	20.5	90.00	284.6	813.2	264.9	235.5	29.36	9.021	
6,200.0	6,139.5	6,223.9	6,140.5	17.6	20.7	90.00	284.6	813.2	264.9	235.1	29.74	8.908	
6,200.8	6,140.2	6,224.6	6,141.2	17.6	20.7	90.00	284.6	813.2	264.9	235.1	29.74	8.907	
6,299.2	6,238.7	6,323.1	6,239.7	17.8	20.8	90.00	284.6	813.2	264.9	234.8	30.11	8.796	
6,300.0	6,239.5	6,323.9	6,240.5	17.8	20.8	90.00	284.6	813.2	264.9	234.8	30.12	8.795	
6,352.3	6,291.7	6,376.1	6,292.7	17.9	20.9	90.20	283.7	813.2	264.9	234.6	30.33	8.734	
6,360.9	6,300.4	6,384.8	6,301.4	17.9	20.9	90.30	283.2	813.2	264.9	234.5	30.37	8.721	
6,397.6	6,337.1	6,421.3	6,337.8	17.9	20.9	-89.41	280.0	813.2	264.9	234.3	30.57	8.666	
6,400.0	6,339.5	6,423.7	6,340.1	17.9	20.9	-89.38	279.7	813.2	264.9	234.3	30.58	8.663	
6,450.0	6,389.2	6,473.3	6,389.1	18.0	20.9	-88.71	272.2	813.1	264.9	234.2	30.77	8.612	
6,496.0	6,434.7	6,518.8	6,433.6	18.0	21.0	-88.10	262.4	813.1	265.0	234.1	30.90	8.576	
6,500.0	6,438.6	6,522.7	6,437.3	18.0	21.0	-88.05	261.4	813.1	265.0	234.1	30.91	8.573	
6,550.0	6,487.3	6,571.9	6,484.5	18.0	21.0	-87.40	247.4	813.0	265.2	234.1	31.02	8.547	
6,594.5	6,529.8	6,615.5	6,525.3	18.0	21.0	-86.83	232.3	813.0	265.3	234.2	31.09	8.533	
6,600.0	6,535.1	6,620.9	6,530.3	18.1	21.0	-86.76	230.2	813.0	265.3	234.2	31.10	8.532	
6,650.0	6,581.7	6,669.7	6,574.7	18.0	21.0	-86.15	210.1	812.9	265.5	234.3	31.14	8.526	
6,692.9	6,620.6	6,711.4	6,611.6	18.0	21.0	-85.63	190.5	812.8	265.7	234.5	31.15	8.528	
6,700.0	6,626.9	6,718.3	6,617.5	18.0	20.9	-85.55	187.0	812.8	265.7	234.5	31.15	8.529	
6,750.0	6,670.6	6,766.7	6,658.5	18.0	20.9	-84.97	161.2	812.7	265.9	234.8	31.15	8.537	
6,791.3	6,705.4	6,806.6	6,690.9	18.0	20.9	-84.51	137.9	812.6	266.1	235.0	31.14	8.546	
6,800.0	6,712.5	6,815.0	6,697.5	18.0	20.9	-84.42	132.8	812.6	266.1	235.0	31.13	8.548	
6,850.0	6,752.3	6,863.1	6,734.4	18.0	20.9	-83.90	101.9	812.5	266.4	235.3	31.13	8.559	
6,889.7	6,782.5	6,901.3	6,762.1	18.0	20.9	-83.50	75.7	812.4	266.6	235.5	31.13	8.564	
6,900.0	6,790.0	6,911.1	6,769.1	18.0	20.9	-83.40	68.7	812.4	266.6	235.5	31.13	8.565	
6,950.0	6,825.3	6,958.9	6,801.3	18.0	20.9	-82.94	33.4	812.3	266.9	235.7	31.17	8.563	
6,988.2	6,850.5	6,995.3	6,824.2	17.9	20.9	-82.61	5.1	812.2	267.1	235.9	31.23	8.553	
7,000.0	6,858.0	7,006.6	6,831.1	17.9	20.9	-82.52	-3.9	812.1	267.2	235.9	31.25	8.550	
7,050.0	6,888.0	7,054.2	6,858.2	18.0	20.9	-82.13	-43.0	812.0	267.4	236.0	31.40	8.517	
7,086.6	6,908.1	7,089.0	6,876.3	18.0	20.9	-81.86	-72.6	811.9	267.6	236.0	31.56	8.479	
7,100.0	6,915.1	7,101.7	6,882.6	18.0	20.9	-81.77	-83.7	811.8	267.6	236.0	31.61	8.467	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,939.2	7,150.0	6,904.6	18.0	21.0	-81.45	-126.7	811.7	267.9	235.9	31.92	8.393	
7,185.0	6,954.3	7,182.2	6,917.7	18.1	21.0	-81.26	-156.1	811.6	268.0	235.8	32.19	8.325	
7,200.0	6,960.3	7,196.4	6,923.0	18.1	21.1	-81.18	-169.2	811.5	268.1	235.7	32.31	8.295	
7,250.0	6,978.1	7,243.6	6,938.9	18.3	21.2	-80.94	-213.7	811.4	268.2	235.4	32.82	8.177	
7,283.4	6,988.2	7,275.2	6,947.8	18.4	21.3	-80.81	-244.0	811.2	268.3	235.1	33.22	8.073	
7,300.0	6,992.6	7,290.8	6,951.7	18.4	21.3	-80.75	-259.1	811.2	268.4	234.9	33.43	8.028	
7,350.0	7,003.7	7,337.9	6,961.6	18.7	21.5	-80.60	-305.2	811.0	268.5	234.3	34.14	7.863	
7,381.9	7,009.1	7,368.0	6,966.2	18.9	21.6	-80.52	-334.9	810.9	268.5	233.9	34.66	7.748	
7,400.0	7,011.4	7,385.0	6,968.3	19.0	21.7	-80.49	-351.8	810.9	268.6	233.6	34.97	7.681	
7,450.0	7,015.7	7,432.1	6,972.0	19.3	22.0	-80.42	-398.7	810.7	268.6	232.7	35.88	7.486	
7,480.3	7,016.6	7,460.6	6,972.8	19.6	22.2	-80.40	-427.2	810.6	268.6	232.2	36.48	7.364	
7,488.2	7,016.6	7,468.0	6,972.8	19.6	22.2	-80.40	-434.6	810.5	268.6	232.0	36.64	7.332	
7,500.0	7,016.6	7,479.6	6,972.7	19.7	22.3	-80.39	-446.2	810.5	268.7	231.8	36.87	7.287	
7,578.7	7,016.3	7,558.4	6,972.0	20.5	22.9	-80.29	-524.9	810.2	268.7	230.3	38.48	6.984	
7,600.0	7,016.2	7,579.6	6,971.8	20.7	23.1	-80.26	-546.2	810.1	268.8	229.8	38.92	6.906	
7,677.1	7,016.0	7,656.8	6,971.1	21.6	23.8	-80.17	-623.4	809.9	268.8	228.2	40.65	6.614	
7,700.0	7,015.9	7,679.6	6,970.9	21.8	24.0	-80.14	-646.2	809.8	268.9	227.7	41.16	6.532	
7,775.6	7,015.7	7,755.2	6,970.2	22.7	24.8	-80.04	-721.8	809.5	268.9	225.9	43.02	6.252	
7,800.0	7,015.6	7,779.6	6,970.0	23.0	25.1	-80.01	-746.2	809.4	269.0	225.3	43.62	6.165	
7,874.0	7,015.4	7,853.6	6,969.3	24.0	26.0	-79.92	-820.2	809.1	269.0	223.4	45.58	5.902	
7,900.0	7,015.3	7,879.6	6,969.1	24.4	26.3	-79.89	-846.2	809.0	269.1	222.8	46.28	5.814	
7,972.4	7,015.1	7,952.1	6,968.4	25.4	27.2	-79.80	-918.6	808.8	269.1	220.8	48.32	5.570	
8,000.0	7,015.0	7,979.6	6,968.2	25.8	27.5	-79.76	-946.2	808.7	269.2	220.1	49.10	5.482	
8,070.8	7,014.8	8,050.5	6,967.5	26.8	28.5	-79.68	-1,017.0	808.4	269.2	218.1	51.19	5.260	
8,100.0	7,014.7	8,079.6	6,967.2	27.3	28.9	-79.64	-1,046.2	808.3	269.3	217.2	52.05	5.173	
8,169.3	7,014.4	8,148.9	6,966.6	28.3	29.8	-79.55	-1,115.5	808.1	269.3	215.2	54.17	4.972	
8,200.0	7,014.4	8,179.6	6,966.3	28.8	30.3	-79.52	-1,146.2	807.9	269.4	214.3	55.12	4.887	
8,267.7	7,014.1	8,247.3	6,965.7	29.9	31.2	-79.43	-1,213.9	807.7	269.5	212.2	57.26	4.706	
8,300.0	7,014.0	8,279.6	6,965.4	30.4	31.7	-79.39	-1,246.2	807.6	269.5	211.2	58.28	4.624	
8,366.1	7,013.8	8,345.7	6,964.8	31.5	32.7	-79.31	-1,312.3	807.3	269.6	209.1	60.42	4.461	
8,400.0	7,013.7	8,379.6	6,964.5	32.0	33.2	-79.27	-1,346.2	807.2	269.6	208.1	61.52	4.382	
8,464.5	7,013.5	8,444.2	6,963.9	33.1	34.2	-79.19	-1,410.7	807.0	269.7	206.0	63.65	4.237	
8,500.0	7,013.4	8,479.6	6,963.6	33.7	34.8	-79.15	-1,446.2	806.9	269.7	204.9	64.83	4.160	
8,563.0	7,013.2	8,542.6	6,963.0	34.8	35.8	-79.07	-1,509.1	806.6	269.8	202.8	66.95	4.030	
8,600.0	7,013.1	8,579.6	6,962.7	35.4	36.4	-79.02	-1,546.2	806.5	269.8	201.6	68.19	3.957	
8,661.4	7,012.9	8,641.0	6,962.1	36.5	37.3	-78.95	-1,607.5	806.3	269.9	199.6	70.29	3.840	
8,700.0	7,012.8	8,679.6	6,961.8	37.1	38.0	-78.90	-1,646.1	806.1	269.9	198.3	71.61	3.770	
8,759.8	7,012.6	8,739.4	6,961.3	38.2	39.0	-78.83	-1,706.0	805.9	270.0	196.3	73.67	3.665	
8,800.0	7,012.4	8,779.6	6,960.9	38.9	39.6	-78.78	-1,746.1	805.8	270.1	195.0	75.06	3.598	
8,858.2	7,012.3	8,837.9	6,960.4	39.9	40.6	-78.70	-1,804.4	805.5	270.1	193.0	77.09	3.504	
8,900.0	7,012.1	8,879.6	6,960.0	40.7	41.3	-78.65	-1,846.1	805.4	270.2	191.6	78.55	3.440	
8,956.7	7,011.9	8,936.3	6,959.5	41.7	42.3	-78.58	-1,902.8	805.2	270.2	189.7	80.54	3.355	
9,000.0	7,011.8	8,979.6	6,959.1	42.4	43.0	-78.53	-1,946.1	805.0	270.3	188.2	82.07	3.293	
9,055.1	7,011.6	9,034.7	6,958.6	43.4	43.9	-78.46	-2,001.2	804.8	270.3	186.3	84.02	3.218	
9,100.0	7,011.5	9,079.6	6,958.2	44.2	44.7	-78.41	-2,046.1	804.7	270.4	184.8	85.61	3.158	
9,153.5	7,011.3	9,133.1	6,957.7	45.2	45.6	-78.34	-2,099.6	804.5	270.5	182.9	87.52	3.090	
9,200.0	7,011.2	9,179.6	6,957.3	46.1	46.4	-78.29	-2,146.1	804.3	270.5	181.3	89.18	3.033	
9,251.9	7,011.0	9,231.5	6,956.8	47.0	47.4	-78.22	-2,198.1	804.1	270.6	179.5	91.04	2.972	
9,300.0	7,010.9	9,279.6	6,956.3	47.9	48.2	-78.16	-2,246.1	803.9	270.6	177.9	92.77	2.917	
9,350.4	7,010.7	9,330.0	6,955.9	48.8	49.1	-78.10	-2,296.5	803.8	270.7	176.1	94.58	2.862	
9,400.0	7,010.5	9,379.6	6,955.4	49.7	50.0	-78.04	-2,346.1	803.6	270.8	174.4	96.37	2.810	
9,448.8	7,010.4	9,428.4	6,955.0	50.6	50.8	-77.98	-2,394.9	803.4	270.8	172.7	98.14	2.760	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,500.0	7,010.2	9,479.6	6,954.5	51.6	51.7	-77.92	-2,446.1	803.2	270.9	170.9	99.99	2.709	
9,547.2	7,010.1	9,526.8	6,954.1	52.5	52.6	-77.86	-2,493.3	803.0	270.9	169.2	101.70	2.664	
9,600.0	7,009.9	9,579.6	6,953.6	53.5	53.5	-77.80	-2,546.1	802.9	271.0	167.4	103.62	2.615	
9,645.6	7,009.8	9,625.2	6,953.2	54.3	54.4	-77.74	-2,591.7	802.7	271.1	165.8	105.28	2.575	
9,700.0	7,009.6	9,679.6	6,952.7	55.3	55.3	-77.68	-2,646.1	802.5	271.1	163.9	107.26	2.528	
9,744.1	7,009.4	9,723.7	6,952.3	56.2	56.1	-77.62	-2,690.1	802.3	271.2	162.3	108.87	2.491	
9,800.0	7,009.3	9,779.6	6,951.8	57.2	57.2	-77.55	-2,746.1	802.1	271.3	160.4	110.92	2.446	
9,842.5	7,009.1	9,822.1	6,951.4	58.0	57.9	-77.50	-2,788.6	802.0	271.3	158.9	112.47	2.412	
9,900.0	7,008.9	9,879.6	6,950.9	59.1	59.0	-77.43	-2,846.1	801.8	271.4	156.8	114.58	2.369	
9,940.9	7,008.8	9,920.5	6,950.5	59.9	59.7	-77.38	-2,887.0	801.6	271.4	155.4	116.08	2.339	
10,000.0	7,008.6	9,979.6	6,950.0	61.0	60.8	-77.31	-2,946.1	801.4	271.5	153.3	118.24	2.296	
10,039.3	7,008.5	10,018.9	6,949.6	61.7	61.5	-77.26	-2,985.4	801.3	271.6	151.9	119.69	2.269	
10,100.0	7,008.3	10,079.6	6,949.1	62.9	62.7	-77.19	-3,046.0	801.0	271.7	149.7	121.92	2.228	
10,137.8	7,008.2	10,117.4	6,948.7	63.6	63.4	-77.15	-3,083.8	800.9	271.7	148.4	123.31	2.203	
10,200.0	7,008.0	10,179.6	6,948.2	64.8	64.5	-77.07	-3,146.0	800.7	271.8	146.2	125.60	2.164	
10,236.2	7,007.9	10,215.8	6,947.8	65.5	65.2	-77.03	-3,182.2	800.6	271.8	144.9	126.93	2.142	
10,300.0	7,007.6	10,279.6	6,947.2	66.7	66.4	-76.95	-3,246.0	800.3	271.9	142.6	129.28	2.103	
10,334.6	7,007.5	10,314.2	6,946.9	67.3	67.0	-76.91	-3,280.7	800.2	272.0	141.4	130.56	2.083	
10,400.0	7,007.3	10,379.6	6,946.3	68.6	68.2	-76.83	-3,346.0	800.0	272.1	139.1	132.97	2.046	
10,433.0	7,007.2	10,412.6	6,946.0	69.2	68.8	-76.79	-3,379.1	799.8	272.1	137.9	134.19	2.028	
10,500.0	7,007.0	10,479.6	6,945.4	70.5	70.1	-76.71	-3,446.0	799.6	272.2	135.5	136.66	1.992	
10,531.5	7,006.9	10,511.0	6,945.1	71.1	70.7	-76.67	-3,477.5	799.5	272.2	134.4	137.82	1.975	
10,600.0	7,006.7	10,579.6	6,944.5	72.4	72.0	-76.59	-3,546.0	799.2	272.3	132.0	140.35	1.940	
10,629.9	7,006.6	10,609.5	6,944.2	73.0	72.5	-76.55	-3,575.9	799.1	272.4	130.9	141.46	1.925	
10,700.0	7,006.4	10,679.6	6,943.6	74.3	73.8	-76.47	-3,646.0	798.9	272.5	128.4	144.05	1.892	
10,728.3	7,006.3	10,707.9	6,943.3	74.9	74.4	-76.43	-3,674.3	798.8	272.5	127.4	145.09	1.878	
10,800.0	7,006.0	10,779.6	6,942.7	76.3	75.7	-76.35	-3,746.0	798.5	272.6	124.9	147.74	1.845	
10,826.7	7,005.9	10,806.3	6,942.5	76.8	76.2	-76.32	-3,772.7	798.4	272.6	123.9	148.73	1.833	
10,900.0	7,005.7	10,879.6	6,941.8	78.2	77.6	-76.23	-3,846.0	798.2	272.7	121.3	151.44	1.801	
10,925.2	7,005.6	10,904.7	6,941.6	78.7	78.1	-76.20	-3,871.2	798.1	272.8	120.4	152.37	1.790	
11,000.0	7,005.4	10,979.6	6,940.9	80.1	79.5	-76.11	-3,946.0	797.8	272.9	117.8	155.14	1.759	
11,023.6	7,005.3	11,003.2	6,940.7	80.6	79.9	-76.08	-3,969.6	797.7	272.9	116.9	156.01	1.749	
11,100.0	7,005.1	11,079.6	6,940.0	82.0	81.4	-75.99	-4,046.0	797.4	273.0	114.2	158.84	1.719	
11,122.0	7,005.0	11,101.6	6,939.8	82.5	81.8	-75.96	-4,068.0	797.4	273.1	113.4	159.65	1.710	
11,200.0	7,004.7	11,179.6	6,939.1	84.0	83.3	-75.87	-4,146.0	797.1	273.2	110.6	162.53	1.681	
11,220.4	7,004.7	11,200.0	6,938.9	84.4	83.6	-75.85	-4,166.4	797.0	273.2	109.9	163.29	1.673	
11,300.0	7,004.4	11,279.6	6,938.1	85.9	85.1	-75.75	-4,246.0	796.7	273.3	107.1	166.23	1.644	
11,318.9	7,004.4	11,298.4	6,938.0	86.3	85.5	-75.73	-4,264.8	796.7	273.3	106.4	166.93	1.638	
11,400.0	7,004.1	11,379.5	6,937.2	87.8	87.0	-75.63	-4,346.0	796.4	273.5	103.5	169.93	1.609	
11,417.3	7,004.0	11,396.8	6,937.1	88.2	87.4	-75.61	-4,363.3	796.3	273.5	102.9	170.57	1.603	
11,500.0	7,003.8	11,479.5	6,936.3	89.8	88.9	-75.51	-4,445.9	796.0	273.6	100.0	173.63	1.576	
11,515.7	7,003.7	11,495.3	6,936.2	90.1	89.2	-75.49	-4,461.7	795.9	273.6	99.4	174.21	1.571	
11,600.0	7,003.4	11,579.5	6,935.4	91.7	90.9	-75.39	-4,545.9	795.6	273.8	96.4	177.32	1.544	
11,614.1	7,003.4	11,593.7	6,935.3	92.0	91.1	-75.38	-4,560.1	795.6	273.8	95.9	177.85	1.539	
11,700.0	7,003.1	11,679.5	6,934.5	93.7	92.8	-75.28	-4,645.9	795.3	273.9	92.9	181.02	1.513	
11,712.6	7,003.1	11,692.1	6,934.4	93.9	93.0	-75.26	-4,658.5	795.2	273.9	92.5	181.48	1.509	
11,800.0	7,002.8	11,779.5	6,933.6	95.6	94.7	-75.16	-4,745.9	794.9	274.1	89.4	184.71	1.484 Level 3	
11,811.0	7,002.7	11,790.5	6,933.5	95.8	94.9	-75.15	-4,756.9	794.9	274.1	89.0	185.12	1.481 Level 3	
11,900.0	7,002.5	11,879.5	6,932.7	97.6	96.6	-75.04	-4,845.9	794.6	274.2	85.8	188.40	1.455 Level 3	
11,909.4	7,002.4	11,889.0	6,932.6	97.7	96.8	-75.03	-4,855.3	794.5	274.2	85.5	188.75	1.453 Level 3	
12,000.0	7,002.1	11,979.5	6,931.8	99.5	98.5	-74.92	-4,945.9	794.2	274.4	82.3	192.09	1.428 Level 3	
12,007.8	7,002.1	11,987.4	6,931.7	99.7	98.6	-74.91	-4,953.8	794.2	274.4	82.0	192.38	1.426 Level 3	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
12,100.0	7,001.8	12,079.5	6,930.9	101.5	100.4	-74.80	-5,045.9	793.9	274.5	78.7	195.78	1.402	Level 3
12,106.3	7,001.8	12,085.8	6,930.8	101.6	100.5	-74.80	-5,052.2	793.8	274.5	78.5	196.01	1.401	Level 3
12,200.0	7,001.5	12,179.5	6,929.9	103.4	102.3	-74.69	-5,145.9	793.5	274.7	75.2	199.47	1.377	Level 3
12,204.7	7,001.5	12,184.2	6,929.9	103.5	102.4	-74.68	-5,150.6	793.5	274.7	75.0	199.64	1.376	Level 3
12,300.0	7,001.2	12,279.5	6,929.0	105.3	104.2	-74.57	-5,245.9	793.1	274.8	71.7	203.15	1.353	Level 3
12,303.1	7,001.1	12,282.7	6,929.0	105.4	104.3	-74.57	-5,249.0	793.1	274.8	71.6	203.27	1.352	Level 3
12,400.0	7,000.8	12,379.5	6,928.1	107.3	106.2	-74.45	-5,345.9	792.8	275.0	68.2	206.83	1.330	Level 3
12,401.5	7,000.8	12,381.1	6,928.1	107.3	106.2	-74.45	-5,347.4	792.8	275.0	68.1	206.89	1.329	Level 3
12,500.0	7,000.5	12,479.5	6,927.2	109.3	108.1	-74.34	-5,445.9	792.4	275.2	64.6	210.51	1.307	Level 3
12,598.4	7,000.2	12,577.9	6,926.3	111.2	110.0	-74.22	-5,544.3	792.1	275.3	61.2	214.13	1.286	Level 3
12,600.0	7,000.2	12,579.5	6,926.3	111.2	110.0	-74.22	-5,545.9	792.1	275.3	61.1	214.19	1.285	Level 3
12,696.8	6,999.8	12,676.3	6,925.4	113.1	111.9	-74.11	-5,642.7	791.7	275.5	57.7	217.74	1.265	Level 3
12,700.0	6,999.8	12,679.5	6,925.4	113.2	111.9	-74.10	-5,645.9	791.7	275.5	57.6	217.86	1.264	Level 3
12,795.2	6,999.5	12,774.8	6,924.5	115.0	113.8	-73.99	-5,741.1	791.4	275.6	54.3	221.36	1.245	Level 2
12,800.0	6,999.5	12,779.5	6,924.5	115.1	113.8	-73.99	-5,745.9	791.4	275.6	54.1	221.53	1.244	Level 2
12,893.7	6,999.2	12,873.2	6,923.6	116.9	115.6	-73.88	-5,839.5	791.0	275.8	50.8	224.97	1.226	Level 2
12,900.0	6,999.2	12,879.5	6,923.6	117.1	115.8	-73.87	-5,845.8	791.0	275.8	50.6	225.20	1.225	Level 2
12,992.1	6,998.9	12,971.6	6,922.7	118.9	117.5	-73.76	-5,937.9	790.7	276.0	47.4	228.57	1.207	Level 2
13,000.0	6,998.8	12,979.5	6,922.6	119.0	117.7	-73.75	-5,945.8	790.6	276.0	47.1	228.86	1.206	Level 2
13,090.5	6,998.6	13,070.0	6,921.8	120.8	119.4	-73.65	-6,036.4	790.3	276.1	43.9	232.18	1.189	Level 2
13,100.0	6,998.5	13,079.5	6,921.7	121.0	119.6	-73.64	-6,045.8	790.3	276.1	43.6	232.52	1.188	Level 2
13,188.9	6,998.2	13,168.5	6,920.9	122.7	121.3	-73.53	-6,134.8	790.0	276.3	40.5	235.78	1.172	Level 2
13,200.0	6,998.2	13,179.5	6,920.8	122.9	121.6	-73.52	-6,145.8	789.9	276.3	40.1	236.18	1.170	Level 2
13,287.4	6,997.9	13,266.9	6,920.0	124.6	123.2	-73.42	-6,233.2	789.6	276.4	37.1	239.37	1.155	Level 2
13,300.0	6,997.9	13,279.5	6,919.9	124.9	123.5	-73.41	-6,245.8	789.6	276.5	36.6	239.84	1.153	Level 2
13,385.8	6,997.6	13,365.3	6,919.1	126.6	125.1	-73.31	-6,331.6	789.3	276.6	33.6	242.97	1.138	Level 2
13,400.0	6,997.5	13,379.5	6,919.0	126.9	125.4	-73.29	-6,345.8	789.2	276.6	33.1	243.49	1.136	Level 2
13,484.2	6,997.3	13,463.7	6,918.2	128.5	127.0	-73.19	-6,430.0	788.9	276.8	30.2	246.56	1.123	Level 2
13,500.0	6,997.2	13,479.5	6,918.1	128.8	127.3	-73.17	-6,445.8	788.9	276.8	29.7	247.13	1.120	Level 2
13,582.6	6,996.9	13,562.1	6,917.3	130.4	128.9	-73.08	-6,528.4	788.6	276.9	26.8	250.15	1.107	Level 2
13,600.0	6,996.9	13,579.5	6,917.2	130.8	129.3	-73.06	-6,545.8	788.5	277.0	26.2	250.78	1.104	Level 2
13,681.1	6,996.6	13,660.6	6,916.4	132.4	130.8	-72.97	-6,626.9	788.2	277.1	23.4	253.73	1.092	Level 2
13,700.0	6,996.5	13,679.5	6,916.3	132.7	131.2	-72.94	-6,645.8	788.2	277.1	22.7	254.42	1.089	Level 2
13,779.5	6,996.3	13,759.0	6,915.5	134.3	132.7	-72.85	-6,725.3	787.9	277.3	20.0	257.31	1.078	Level 2
13,800.0	6,996.2	13,779.5	6,915.3	134.7	133.1	-72.83	-6,745.8	787.8	277.3	19.3	258.06	1.075	Level 2
13,877.9	6,995.9	13,857.4	6,914.6	136.2	134.7	-72.74	-6,823.7	787.5	277.5	16.6	260.89	1.064	Level 2
13,900.0	6,995.9	13,879.5	6,914.4	136.7	135.1	-72.72	-6,845.8	787.5	277.5	15.8	261.69	1.060	Level 2
13,976.3	6,995.6	13,955.8	6,913.7	138.2	136.6	-72.63	-6,922.1	787.2	277.6	13.2	264.46	1.050	Level 2
14,000.0	6,995.5	13,979.5	6,913.5	138.6	137.0	-72.60	-6,945.8	787.1	277.7	12.4	265.32	1.047	Level 2
14,074.8	6,995.3	14,054.3	6,912.8	140.1	138.5	-72.52	-7,020.5	786.8	277.8	9.8	268.03	1.036	Level 2
14,100.0	6,995.2	14,079.5	6,912.6	140.6	139.0	-72.49	-7,045.8	786.7	277.8	8.9	268.94	1.033	Level 2
14,162.0	6,995.0	14,141.5	6,912.0	141.8	140.1	-72.42	-7,107.8	786.5	278.0	6.8	271.12	1.025	Level 2, ES, SF

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	-155.38	-3,511.9	-1,609.1	3,863.4				
98.4	98.4	35.9	35.9	0.1	0.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,862.4	0.56	6,847.154	
100.0	100.0	37.5	37.5	0.1	0.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,862.3	0.59	6,586.576	
196.8	196.8	134.3	134.3	0.3	2.1	-155.38	-3,511.9	-1,609.1	3,862.9	3,860.5	2.40	1,610.728	
200.0	200.0	137.5	137.5	0.3	2.2	-155.38	-3,511.9	-1,609.1	3,862.9	3,860.5	2.48	1,559.688	
295.3	295.3	232.8	232.8	0.5	4.3	-155.38	-3,511.9	-1,609.1	3,862.9	3,858.1	4.79	806.784	
300.0	300.0	237.5	237.5	0.5	4.4	-155.38	-3,511.9	-1,609.1	3,862.9	3,858.0	4.90	788.871	
393.7	393.7	331.2	331.2	0.8	6.3	-155.38	-3,511.9	-1,609.1	3,862.9	3,855.9	7.04	548.557	
400.0	400.0	337.5	337.5	0.8	6.4	-155.38	-3,511.9	-1,609.1	3,862.9	3,855.7	7.18	537.655	
492.1	492.1	429.6	429.6	1.0	8.3	-155.38	-3,511.9	-1,609.1	3,862.9	3,853.7	9.27	416.764	
500.0	500.0	437.5	437.5	1.0	8.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,853.5	9.45	408.934	
590.5	590.5	528.0	528.0	1.2	10.3	-155.38	-3,511.9	-1,609.1	3,862.9	3,851.4	11.49	336.339	
600.0	600.0	537.5	537.5	1.2	10.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,851.2	11.70	330.233	
689.0	689.0	626.5	626.5	1.4	12.3	-155.38	-3,511.9	-1,609.1	3,862.9	3,849.2	13.70	282.041	
700.0	700.0	637.5	637.5	1.4	12.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,849.0	13.94	277.037	
787.4	787.4	724.9	724.9	1.6	14.3	-155.38	-3,511.9	-1,609.1	3,862.9	3,847.0	15.90	242.883	
800.0	800.0	737.5	737.5	1.7	14.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,846.7	16.19	238.645	
885.8	885.8	823.3	823.3	1.9	16.2	-155.38	-3,511.9	-1,609.1	3,862.9	3,844.8	18.11	213.295	
900.0	900.0	837.5	837.5	1.9	16.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,844.5	18.43	209.619	
984.2	984.2	921.7	921.7	2.1	18.2	-155.38	-3,511.9	-1,609.1	3,862.9	3,842.6	20.32	190.145	
1,000.0	1,000.0	937.5	937.5	2.1	18.5	-155.38	-3,511.9	-1,609.1	3,862.9	3,842.3	20.67	186.900	
1,082.7	1,082.7	1,020.2	1,020.2	2.3	20.2	-155.38	-3,511.9	-1,609.1	3,862.9	3,840.4	22.52	171.535	
1,100.0	1,100.0	1,037.5	1,037.5	2.3	20.6	-155.38	-3,511.9	-1,609.1	3,862.9	3,840.0	22.91	168.631	
1,181.1	1,181.1	1,118.6	1,118.6	2.5	22.2	142.05	-3,511.9	-1,609.1	3,863.8	3,839.1	24.71	156.356	
1,200.0	1,200.0	1,137.5	1,137.5	2.6	22.6	142.05	-3,511.9	-1,609.1	3,864.3	3,839.2	25.13	153.773	
1,279.5	1,279.4	1,216.9	1,216.9	2.7	24.2	142.04	-3,511.9	-1,609.1	3,867.4	3,840.5	26.88	143.888	
1,300.0	1,299.8	1,237.3	1,237.3	2.8	24.6	142.04	-3,511.9	-1,609.1	3,868.4	3,841.1	27.32	141.574	
1,377.9	1,377.5	1,315.0	1,315.0	3.0	26.2	142.04	-3,511.9	-1,609.1	3,873.6	3,844.5	29.02	133.485	
1,400.0	1,399.5	1,337.0	1,337.0	3.0	26.6	142.04	-3,511.9	-1,609.1	3,875.3	3,845.8	29.49	131.394	
1,476.4	1,475.3	1,412.8	1,412.8	3.2	28.1	142.03	-3,511.9	-1,609.1	3,882.4	3,851.3	31.13	124.703	
1,500.0	1,498.7	1,436.2	1,436.2	3.2	28.6	142.03	-3,511.9	-1,609.1	3,885.0	3,853.3	31.63	122.807	
1,574.8	1,572.6	1,510.1	1,510.1	3.5	30.1	142.02	-3,511.9	-1,609.1	3,894.0	3,860.7	33.22	117.224	
1,600.0	1,597.5	1,535.0	1,535.0	3.5	30.6	142.02	-3,511.9	-1,609.1	3,897.3	3,863.6	33.74	115.496	
1,673.2	1,669.4	1,606.9	1,606.9	3.7	32.0	142.00	-3,511.9	-1,609.1	3,908.2	3,872.9	35.27	110.802	
1,700.0	1,695.7	1,633.2	1,633.2	3.8	32.6	142.00	-3,511.9	-1,609.1	3,912.5	3,876.7	35.82	109.219	
1,771.6	1,765.7	1,703.2	1,703.2	4.1	34.0	142.13	-3,511.9	-1,609.1	3,924.3	3,886.9	37.41	104.893	
1,800.0	1,793.4	1,730.9	1,730.9	4.2	34.5	142.18	-3,511.9	-1,609.1	3,929.0	3,891.0	38.04	103.284	
1,870.1	1,862.0	1,799.5	1,799.5	4.4	35.9	142.31	-3,511.9	-1,609.1	3,940.6	3,901.0	39.60	99.499	
1,900.0	1,891.3	1,828.8	1,828.8	4.5	36.5	142.37	-3,511.9	-1,609.1	3,945.6	3,905.3	40.27	97.979	
1,968.5	1,958.3	1,895.8	1,895.8	4.8	37.8	142.49	-3,511.9	-1,609.1	3,957.0	3,915.2	41.80	94.659	
2,000.0	1,989.1	1,926.6	1,926.6	4.9	38.5	142.55	-3,511.9	-1,609.1	3,962.2	3,919.7	42.51	93.214	
2,066.9	2,054.5	1,992.0	1,992.0	5.2	39.8	142.67	-3,511.9	-1,609.1	3,973.4	3,929.4	44.01	90.287	
2,100.0	2,086.9	2,024.4	2,024.4	5.3	40.4	142.73	-3,511.9	-1,609.1	3,978.9	3,934.1	44.75	88.914	
2,165.3	2,150.8	2,088.3	2,088.3	5.6	41.7	142.85	-3,511.9	-1,609.1	3,989.8	3,943.6	46.22	86.324	
2,200.0	2,184.7	2,122.2	2,122.2	5.7	42.4	142.91	-3,511.9	-1,609.1	3,995.6	3,948.6	47.00	85.017	
2,263.8	2,247.1	2,184.6	2,184.6	5.9	43.6	143.02	-3,511.9	-1,609.1	4,006.3	3,957.8	48.43	82.717	
2,300.0	2,282.5	2,220.0	2,220.0	6.1	44.4	143.09	-3,511.9	-1,609.1	4,012.3	3,963.1	49.25	81.470	
2,362.2	2,343.4	2,280.9	2,280.9	6.4	45.6	143.20	-3,511.9	-1,609.1	4,022.8	3,972.1	50.65	79.421	
2,400.0	2,380.3	2,317.8	2,317.8	6.5	46.3	143.26	-3,511.9	-1,609.1	4,029.1	3,977.6	51.50	78.230	
2,460.6	2,439.6	2,377.1	2,377.1	6.8	47.5	143.37	-3,511.9	-1,609.1	4,039.3	3,986.4	52.87	76.399	
2,500.0	2,478.1	2,415.6	2,415.6	6.9	48.3	143.44	-3,511.9	-1,609.1	4,045.9	3,992.1	53.76	75.260	
2,559.0	2,535.9	2,473.4	2,473.4	7.2	49.5	143.54	-3,511.9	-1,609.1	4,055.9	4,000.8	55.09	73.619	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	2,513.5	2,513.5	7.4	50.3	143.61	-3,511.9	-1,609.1	4,062.8	4,006.7	56.02	72.527	
2,657.5	2,632.2	2,569.7	2,569.7	7.6	51.4	143.71	-3,511.9	-1,609.1	4,072.5	4,015.1	57.32	71.053	
2,700.0	2,673.8	2,611.3	2,611.3	7.8	52.2	143.78	-3,511.9	-1,609.1	4,079.6	4,021.4	58.28	70.005	
2,755.9	2,728.4	2,665.9	2,665.9	8.0	53.3	143.88	-3,511.9	-1,609.1	4,089.1	4,029.6	59.54	68.678	
2,800.0	2,771.6	2,709.1	2,709.1	8.2	54.2	143.95	-3,511.9	-1,609.1	4,096.6	4,036.0	60.54	67.671	
2,854.3	2,824.7	2,762.2	2,762.2	8.4	55.3	144.05	-3,511.9	-1,609.1	4,105.8	4,044.0	61.76	66.474	
2,900.0	2,869.4	2,806.9	2,806.9	8.6	56.2	144.12	-3,511.9	-1,609.1	4,113.5	4,050.7	62.80	65.505	
2,952.7	2,921.0	2,858.5	2,858.5	8.9	57.2	144.21	-3,511.9	-1,609.1	4,122.5	4,058.5	63.99	64.423	
3,000.0	2,967.2	2,904.7	2,904.7	9.1	58.1	144.29	-3,511.9	-1,609.1	4,130.5	4,065.5	65.06	63.489	
3,051.2	3,017.3	2,954.8	2,954.8	9.3	59.1	144.38	-3,511.9	-1,609.1	4,139.2	4,073.0	66.22	62.511	
3,100.0	3,065.0	3,002.5	3,002.5	9.5	60.1	144.46	-3,511.9	-1,609.1	4,147.5	4,080.2	67.32	61.609	
3,149.6	3,113.5	3,051.0	3,051.0	9.7	61.1	144.54	-3,511.9	-1,609.1	4,156.0	4,087.6	68.44	60.723	
3,200.0	3,162.8	3,100.3	3,100.3	9.9	62.1	144.62	-3,511.9	-1,609.1	4,164.6	4,095.0	69.58	59.852	
3,248.0	3,209.8	3,147.3	3,147.3	10.2	63.0	144.70	-3,511.9	-1,609.1	4,172.8	4,102.1	70.67	59.048	
3,300.0	3,260.7	3,198.2	3,198.2	10.4	64.0	144.79	-3,511.9	-1,609.1	4,181.7	4,109.9	71.84	58.206	
3,346.4	3,306.1	3,243.6	3,243.6	10.6	64.9	144.86	-3,511.9	-1,609.1	4,189.6	4,116.8	72.89	57.477	
3,400.0	3,358.5	3,296.0	3,296.0	10.8	66.0	144.95	-3,511.9	-1,609.1	4,198.8	4,124.7	74.10	56.661	
3,444.9	3,402.4	3,339.9	3,339.9	11.0	66.9	145.02	-3,511.9	-1,609.1	4,206.5	4,131.4	75.12	55.998	
3,500.0	3,456.3	3,393.8	3,393.8	11.3	68.0	145.11	-3,511.9	-1,609.1	4,216.0	4,139.6	76.36	55.209	
3,543.3	3,498.6	3,436.1	3,436.1	11.5	68.8	145.18	-3,511.9	-1,609.1	4,223.4	4,146.1	77.34	54.606	
3,600.0	3,554.1	3,491.6	3,491.6	11.7	69.9	145.27	-3,511.9	-1,609.1	4,233.2	4,154.5	78.63	53.840	
3,641.7	3,594.9	3,532.4	3,532.4	11.9	70.8	145.34	-3,511.9	-1,609.1	4,240.4	4,160.8	79.57	53.292	
3,700.0	3,651.9	3,589.4	3,589.4	12.2	71.9	145.43	-3,511.9	-1,609.1	4,250.4	4,169.5	80.89	52.549	
3,740.1	3,691.2	3,628.7	3,628.7	12.3	72.7	145.49	-3,511.9	-1,609.1	4,257.3	4,175.5	81.79	52.050	
3,800.0	3,749.7	3,687.2	3,687.2	12.6	73.9	145.59	-3,511.9	-1,609.1	4,267.7	4,184.5	83.14	51.328	
3,838.6	3,787.5	3,725.0	3,725.0	12.8	74.6	145.65	-3,511.9	-1,609.1	4,274.3	4,190.3	84.02	50.875	
3,900.0	3,847.5	3,785.0	3,785.0	13.0	75.8	145.74	-3,511.9	-1,609.1	4,284.9	4,199.5	85.40	50.173	
3,937.0	3,883.7	3,821.2	3,821.2	13.2	76.6	145.80	-3,511.9	-1,609.1	4,291.3	4,205.1	86.24	49.761	
4,000.0	3,945.4	3,882.9	3,882.9	13.5	77.8	145.90	-3,511.9	-1,609.1	4,302.3	4,214.6	87.66	49.078	
4,035.4	3,980.0	3,917.5	3,917.5	13.7	78.5	145.95	-3,511.9	-1,609.1	4,308.4	4,219.9	88.46	48.703	
4,068.9	4,012.7	3,950.2	3,950.2	13.8	79.2	146.00	-3,511.9	-1,609.1	4,314.2	4,225.0	89.22	48.356	
4,100.0	4,043.2	3,980.7	3,980.7	13.9	79.8	146.11	-3,511.9	-1,609.1	4,319.5	4,229.5	90.02	47.981	
4,133.8	4,076.4	4,013.9	4,013.9	14.0	80.4	146.22	-3,511.9	-1,609.1	4,324.9	4,234.0	90.88	47.588	
4,200.0	4,141.6	4,079.1	4,079.1	14.2	81.8	146.41	-3,511.9	-1,609.1	4,334.5	4,242.0	92.55	46.836	
4,232.3	4,173.4	4,110.9	4,110.9	14.3	82.4	146.49	-3,511.9	-1,609.1	4,338.8	4,245.4	93.35	46.480	
4,300.0	4,240.5	4,178.0	4,178.0	14.5	83.7	146.65	-3,511.9	-1,609.1	4,346.7	4,251.7	95.01	45.749	
4,330.7	4,271.0	4,208.5	4,208.5	14.6	84.4	146.71	-3,511.9	-1,609.1	4,349.9	4,254.1	95.76	45.427	
4,400.0	4,339.9	4,277.4	4,277.4	14.8	85.7	146.83	-3,511.9	-1,609.1	4,356.0	4,258.6	97.41	44.717	
4,429.1	4,368.9	4,306.4	4,306.4	14.8	86.3	146.88	-3,511.9	-1,609.1	4,358.2	4,260.1	98.10	44.428	
4,500.0	4,439.6	4,377.1	4,377.1	15.0	87.7	146.96	-3,511.9	-1,609.1	4,362.4	4,262.7	99.74	43.740	
4,527.5	4,467.1	4,404.6	4,404.6	15.0	88.3	146.98	-3,511.9	-1,609.1	4,363.7	4,263.3	100.36	43.481	
4,600.0	4,539.5	4,477.0	4,477.0	15.1	89.8	147.03	-3,511.9	-1,609.1	4,365.9	4,263.9	101.97	42.814	
4,626.0	4,565.4	4,502.9	4,502.9	15.2	90.3	147.03	-3,511.9	-1,609.1	4,366.3	4,263.8	102.54	42.583	
4,668.9	4,608.4	4,545.9	4,545.9	15.2	91.1	-150.39	-3,511.9	-1,609.1	4,366.6	4,263.1	103.48	42.199	
4,700.0	4,639.5	4,577.0	4,577.0	15.3	91.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,262.5	104.15	41.925	
4,724.4	4,663.9	4,601.4	4,601.4	15.3	92.3	-150.39	-3,511.9	-1,609.1	4,366.6	4,261.9	104.69	41.711	
4,800.0	4,739.5	4,677.0	4,677.0	15.4	93.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,260.3	106.34	41.063	
4,822.8	4,762.3	4,699.8	4,699.8	15.4	94.2	-150.39	-3,511.9	-1,609.1	4,366.6	4,259.8	106.84	40.871	
4,900.0	4,839.5	4,777.0	4,777.0	15.6	95.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,258.1	108.53	40.235	
4,921.2	4,860.7	4,798.2	4,798.2	15.6	96.2	-150.39	-3,511.9	-1,609.1	4,366.6	4,257.6	108.99	40.063	
5,000.0	4,939.5	4,877.0	4,877.0	15.7	97.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,255.9	110.72	39.439	
5,019.7	4,959.1	4,896.6	4,896.6	15.7	98.2	-150.39	-3,511.9	-1,609.1	4,366.6	4,255.5	111.15	39.286	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	4,977.0	4,977.0	15.9	99.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,253.7	112.91	38.673	
5,118.1	5,057.6	4,995.1	4,995.1	15.9	100.2	-150.39	-3,511.9	-1,609.1	4,366.6	4,253.3	113.31	38.538	
5,200.0	5,139.5	5,077.0	5,077.0	16.0	101.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,251.5	115.10	37.936	
5,216.5	5,156.0	5,093.5	5,093.5	16.0	102.2	-150.39	-3,511.9	-1,609.1	4,366.6	4,251.1	115.47	37.817	
5,300.0	5,239.5	5,177.0	5,177.0	16.2	103.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,249.3	117.30	37.227	
5,314.9	5,254.4	5,191.9	5,191.9	16.2	104.1	-150.39	-3,511.9	-1,609.1	4,366.6	4,249.0	117.63	37.123	
5,400.0	5,339.5	5,277.0	5,277.0	16.3	105.8	-150.39	-3,511.9	-1,609.1	4,366.6	4,247.1	119.49	36.543	
5,413.4	5,352.8	5,290.3	5,290.3	16.3	106.1	-150.39	-3,511.9	-1,609.1	4,366.6	4,246.8	119.79	36.453	
5,500.0	5,439.5	5,377.0	5,377.0	16.5	107.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,244.9	121.69	35.883	
5,511.8	5,451.3	5,388.8	5,388.8	16.5	108.1	-150.39	-3,511.9	-1,609.1	4,366.6	4,244.7	121.95	35.807	
5,600.0	5,539.5	5,477.0	5,477.0	16.6	109.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,242.7	123.89	35.246	
5,610.2	5,549.7	5,487.2	5,487.2	16.6	110.1	-150.39	-3,511.9	-1,609.1	4,366.6	4,242.5	124.11	35.183	
5,700.0	5,639.5	5,577.0	5,577.0	16.8	111.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,240.5	126.09	34.632	
5,708.6	5,648.1	5,585.6	5,585.6	16.8	112.0	-150.39	-3,511.9	-1,609.1	4,366.6	4,240.3	126.28	34.580	
5,800.0	5,739.5	5,677.0	5,677.0	17.0	113.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,238.3	128.29	34.038	
5,807.1	5,746.5	5,684.0	5,684.0	17.0	114.0	-150.39	-3,511.9	-1,609.1	4,366.6	4,238.2	128.44	33.997	
5,900.0	5,839.5	5,777.0	5,777.0	17.1	115.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,236.1	130.49	33.464	
5,905.5	5,845.0	5,782.5	5,782.5	17.1	116.0	-150.39	-3,511.9	-1,609.1	4,366.6	4,236.0	130.61	33.433	
6,000.0	5,939.5	5,877.0	5,877.0	17.3	117.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,233.9	132.69	32.908	
6,003.9	5,943.4	5,880.9	5,880.9	17.3	118.0	-150.39	-3,511.9	-1,609.1	4,366.6	4,233.8	132.78	32.887	
6,100.0	6,039.5	5,977.0	5,977.0	17.4	119.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,231.7	134.89	32.371	
6,102.3	6,041.8	5,979.3	5,979.3	17.4	120.0	-150.39	-3,511.9	-1,609.1	4,366.6	4,231.7	134.94	32.359	
6,200.0	6,139.5	6,077.0	6,077.0	17.6	121.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,229.5	137.10	31.851	
6,200.8	6,140.2	6,077.7	6,077.7	17.6	121.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,229.5	137.11	31.847	
6,299.2	6,238.7	6,176.2	6,176.2	17.8	123.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,227.3	139.28	31.350	
6,300.0	6,239.5	6,177.0	6,177.0	17.8	123.9	-150.39	-3,511.9	-1,609.1	4,366.6	4,227.3	139.30	31.347	
6,360.9	6,300.4	6,237.9	6,237.9	17.9	125.2	-150.39	-3,511.9	-1,609.1	4,366.6	4,226.0	140.64	31.047	
6,397.6	6,337.1	6,274.6	6,274.6	17.9	125.9	29.44	-3,511.9	-1,609.1	4,365.8	4,224.5	141.25	30.909	
6,400.0	6,339.5	6,277.0	6,277.0	17.9	126.0	29.44	-3,511.9	-1,609.1	4,365.7	4,224.4	141.28	30.901	
6,450.0	6,389.2	6,326.7	6,326.7	18.0	127.0	29.62	-3,511.9	-1,609.1	4,361.8	4,220.2	141.62	30.798	
6,496.0	6,434.7	6,372.2	6,372.2	18.0	127.9	29.92	-3,511.9	-1,609.1	4,355.5	4,214.1	141.48	30.786	
6,500.0	6,438.6	6,376.1	6,376.1	18.0	127.9	29.95	-3,511.9	-1,609.1	4,354.9	4,213.4	141.44	30.789	
6,550.0	6,487.3	6,424.8	6,424.8	18.0	128.9	30.43	-3,511.9	-1,609.1	4,345.0	4,204.3	140.76	30.869	
6,594.5	6,529.8	6,467.3	6,467.3	18.0	129.8	30.99	-3,511.9	-1,609.1	4,333.8	4,194.0	139.75	31.011	
6,600.0	6,535.1	6,472.6	6,472.6	18.1	129.9	31.07	-3,511.9	-1,609.1	4,332.2	4,192.6	139.60	31.034	
6,650.0	6,581.7	6,519.2	6,519.2	18.0	130.8	31.88	-3,511.9	-1,609.1	4,316.6	4,178.5	138.02	31.275	
6,692.9	6,620.6	6,558.1	6,558.1	18.0	131.6	32.73	-3,511.9	-1,609.1	4,300.9	4,164.5	136.39	31.533	
6,700.0	6,626.9	6,564.4	6,564.4	18.0	131.7	32.88	-3,511.9	-1,609.1	4,298.2	4,162.0	136.10	31.580	
6,750.0	6,670.6	6,608.1	6,608.1	18.0	132.6	34.08	-3,511.9	-1,609.1	4,277.1	4,143.1	133.96	31.927	
6,791.3	6,705.4	6,642.9	6,642.9	18.0	133.3	35.24	-3,511.9	-1,609.1	4,257.7	4,125.6	132.12	32.226	
6,800.0	6,712.5	6,650.0	6,650.0	18.0	133.5	35.50	-3,511.9	-1,609.1	4,253.5	4,121.7	131.74	32.288	
6,850.0	6,752.3	6,689.8	6,689.8	18.0	134.3	37.17	-3,511.9	-1,609.1	4,227.4	4,097.8	129.60	32.618	
6,889.7	6,782.5	6,720.0	6,720.0	18.0	134.9	38.70	-3,511.9	-1,609.1	4,205.1	4,077.0	128.12	32.822	
6,900.0	6,790.0	6,727.5	6,727.5	18.0	135.0	39.12	-3,511.9	-1,609.1	4,199.1	4,071.3	127.78	32.862	
6,950.0	6,825.3	6,762.8	6,762.8	18.0	135.7	41.38	-3,511.9	-1,609.1	4,168.7	4,042.2	126.50	32.953	
6,988.2	6,850.5	6,788.0	6,788.0	17.9	136.2	43.34	-3,511.9	-1,609.1	4,144.1	4,018.1	126.07	32.873	
7,000.0	6,858.0	6,795.5	6,795.5	17.9	136.4	43.99	-3,511.9	-1,609.1	4,136.3	4,010.3	126.03	32.819	
7,050.0	6,888.0	6,825.5	6,825.5	18.0	137.0	46.98	-3,511.9	-1,609.1	4,102.2	3,975.6	126.60	32.403	
7,086.6	6,908.1	6,845.6	6,845.6	18.0	137.4	49.44	-3,511.9	-1,609.1	4,076.2	3,948.4	127.75	31.908	
7,100.0	6,915.1	6,852.6	6,852.6	18.0	137.5	50.40	-3,511.9	-1,609.1	4,066.4	3,938.1	128.35	31.682	
7,150.0	6,939.2	6,876.7	6,876.7	18.0	138.0	54.26	-3,511.9	-1,609.1	4,029.3	3,898.0	131.34	30.679	
7,185.0	6,954.3	6,891.8	6,891.8	18.1	138.3	57.25	-3,511.9	-1,609.1	4,002.6	3,868.5	134.10	29.849	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,960.3	6,897.8	6,897.8	18.1	138.4	58.60	-3,511.9	-1,609.1	3,991.0	3,855.6	135.41	29.473	
7,250.0	6,978.1	6,915.6	6,915.6	18.3	138.8	63.39	-3,511.9	-1,609.1	3,951.7	3,811.4	140.26	28.175	
7,283.4	6,988.2	6,925.7	6,925.7	18.4	139.0	66.83	-3,511.9	-1,609.1	3,924.9	3,781.2	143.69	27.316	
7,300.0	6,992.6	6,930.1	6,930.1	18.4	139.1	68.60	-3,511.9	-1,609.1	3,911.5	3,766.2	145.37	26.908	
7,350.0	7,003.7	6,941.2	6,941.2	18.7	139.3	74.16	-3,511.9	-1,609.1	3,870.9	3,720.7	150.16	25.779	
7,381.9	7,009.1	6,946.6	6,946.6	18.9	139.4	77.83	-3,511.9	-1,609.1	3,844.7	3,692.0	152.78	25.166	
7,400.0	7,011.4	6,948.9	6,948.9	19.0	139.5	79.95	-3,511.9	-1,609.1	3,829.8	3,675.8	154.05	24.862	
7,450.0	7,015.7	6,953.2	6,953.2	19.3	139.6	85.82	-3,511.9	-1,609.1	3,788.7	3,632.1	156.60	24.194	
7,480.3	7,016.6	6,954.1	6,954.1	19.6	139.6	89.35	-3,511.9	-1,609.1	3,763.7	3,606.3	157.40	23.912	
7,488.2	7,016.6	6,954.1	6,954.1	19.6	139.6	90.26	-3,511.9	-1,609.1	3,757.3	3,599.8	157.51	23.854	
7,500.0	7,016.6	6,954.1	6,954.1	19.7	139.6	90.26	-3,511.9	-1,609.1	3,747.6	3,589.9	157.62	23.775	
7,578.7	7,016.3	6,953.8	6,953.8	20.5	139.6	90.25	-3,511.9	-1,609.1	3,683.3	3,524.8	158.45	23.246	
7,600.0	7,016.2	6,953.7	6,953.7	20.7	139.6	90.25	-3,511.9	-1,609.1	3,666.0	3,507.3	158.67	23.104	
7,677.1	7,016.0	6,953.5	6,953.5	21.6	139.6	90.24	-3,511.9	-1,609.1	3,603.7	3,444.1	159.58	22.583	
7,700.0	7,015.9	6,953.4	6,953.4	21.8	139.6	90.24	-3,511.9	-1,609.1	3,585.3	3,425.5	159.85	22.430	
7,775.6	7,015.7	6,953.2	6,953.2	22.7	139.6	90.24	-3,511.9	-1,609.1	3,525.0	3,364.2	160.82	21.919	
7,800.0	7,015.6	6,953.1	6,953.1	23.0	139.5	90.23	-3,511.9	-1,609.1	3,505.7	3,344.5	161.14	21.755	
7,874.0	7,015.4	6,952.9	6,952.9	24.0	139.5	90.23	-3,511.9	-1,609.1	3,447.4	3,285.2	162.17	21.258	
7,900.0	7,015.3	6,952.8	6,952.8	24.4	139.5	90.23	-3,511.9	-1,609.1	3,427.1	3,264.6	162.53	21.086	
7,972.4	7,015.1	6,952.6	6,952.6	25.4	139.5	90.22	-3,511.9	-1,609.1	3,370.9	3,207.3	163.60	20.605	
8,000.0	7,015.0	6,952.5	6,952.5	25.8	139.5	90.22	-3,511.9	-1,609.1	3,349.6	3,185.6	164.00	20.424	
8,070.8	7,014.8	6,952.3	6,952.3	26.8	139.5	90.21	-3,511.9	-1,609.1	3,295.5	3,130.4	165.09	19.962	
8,100.0	7,014.7	6,952.2	6,952.2	27.3	139.5	90.21	-3,511.9	-1,609.1	3,273.4	3,107.9	165.54	19.774	
8,169.3	7,014.4	6,951.9	6,951.9	28.3	139.5	90.20	-3,511.9	-1,609.1	3,221.4	3,054.7	166.64	19.331	
8,200.0	7,014.4	6,951.9	6,951.9	28.8	139.5	90.20	-3,511.9	-1,609.1	3,198.5	3,031.4	167.13	19.138	
8,267.7	7,014.1	6,951.6	6,951.6	29.9	139.5	90.19	-3,511.9	-1,609.1	3,148.6	2,980.4	168.24	18.715	
8,300.0	7,014.0	6,951.5	6,951.5	30.4	139.5	90.19	-3,511.9	-1,609.1	3,125.0	2,956.2	168.77	18.516	
8,366.1	7,013.8	6,951.3	6,951.3	31.5	139.5	90.19	-3,511.9	-1,609.1	3,077.2	2,907.3	169.88	18.114	
8,400.0	7,013.7	6,951.2	6,951.2	32.0	139.5	90.18	-3,511.9	-1,609.1	3,053.0	2,882.6	170.45	17.911	
8,464.5	7,013.5	6,951.0	6,951.0	33.1	139.5	90.18	-3,511.9	-1,609.1	3,007.4	2,835.8	171.56	17.530	
8,500.0	7,013.4	6,950.9	6,950.9	33.7	139.5	90.18	-3,511.9	-1,609.1	2,982.6	2,810.5	172.16	17.324	
8,563.0	7,013.2	6,950.7	6,950.7	34.8	139.5	90.17	-3,511.9	-1,609.1	2,939.2	2,765.9	173.26	16.964	
8,600.0	7,013.1	6,950.6	6,950.6	35.4	139.5	90.17	-3,511.9	-1,609.1	2,914.0	2,740.1	173.90	16.756	
8,661.4	7,012.9	6,950.4	6,950.4	36.5	139.5	90.16	-3,511.9	-1,609.1	2,872.7	2,697.8	174.99	16.417	
8,700.0	7,012.8	6,950.3	6,950.3	37.1	139.5	90.16	-3,511.9	-1,609.1	2,847.2	2,671.5	175.67	16.208	
8,759.8	7,012.6	6,950.1	6,950.1	38.2	139.5	90.15	-3,511.9	-1,609.1	2,808.2	2,631.4	176.73	15.889	
8,800.0	7,012.4	6,949.9	6,949.9	38.9	139.5	90.15	-3,511.9	-1,609.1	2,782.4	2,604.9	177.45	15.680	
8,858.2	7,012.3	6,949.8	6,949.8	39.9	139.5	90.15	-3,511.9	-1,609.1	2,745.6	2,567.1	178.50	15.382	
8,900.0	7,012.1	6,949.6	6,949.6	40.7	139.5	90.14	-3,511.9	-1,609.1	2,719.7	2,540.5	179.25	15.172	
8,956.7	7,011.9	6,949.4	6,949.4	41.7	139.5	90.14	-3,511.9	-1,609.1	2,685.2	2,504.9	180.28	14.894	
9,000.0	7,011.8	6,949.3	6,949.3	42.4	139.5	90.13	-3,511.9	-1,609.1	2,659.3	2,478.3	181.07	14.687	
9,055.1	7,011.6	6,949.1	6,949.1	43.4	139.5	90.13	-3,511.9	-1,609.1	2,627.1	2,445.0	182.08	14.428	
9,100.0	7,011.5	6,949.0	6,949.0	44.2	139.5	90.13	-3,511.9	-1,609.1	2,601.4	2,418.5	182.90	14.223	
9,153.5	7,011.3	6,948.8	6,948.8	45.2	139.5	90.12	-3,511.9	-1,609.1	2,571.4	2,387.6	183.89	13.984	
9,200.0	7,011.2	6,948.7	6,948.7	46.1	139.5	90.12	-3,511.9	-1,609.1	2,546.1	2,361.3	184.75	13.781	
9,251.9	7,011.0	6,948.5	6,948.5	47.0	139.5	90.11	-3,511.9	-1,609.1	2,518.4	2,332.7	185.71	13.561	
9,300.0	7,010.9	6,948.4	6,948.4	47.9	139.5	90.11	-3,511.9	-1,609.1	2,493.5	2,306.9	186.60	13.363	
9,350.4	7,010.7	6,948.2	6,948.2	48.8	139.5	90.10	-3,511.9	-1,609.1	2,468.2	2,280.6	187.54	13.161	
9,400.0	7,010.5	6,948.0	6,948.0	49.7	139.4	90.10	-3,511.9	-1,609.1	2,443.9	2,255.5	188.46	12.968	
9,448.8	7,010.4	6,947.9	6,947.9	50.6	139.4	90.10	-3,511.9	-1,609.1	2,420.9	2,231.5	189.38	12.784	
9,500.0	7,010.2	6,947.7	6,947.7	51.6	139.4	90.09	-3,511.9	-1,609.1	2,397.5	2,207.2	190.33	12.596	
9,547.2	7,010.1	6,947.6	6,947.6	52.5	139.4	90.09	-3,511.9	-1,609.1	2,376.7	2,185.5	191.22	12.429	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,600.0	7,009.9	6,947.4	6,947.4	53.5	139.4	90.08	-3,511.9	-1,609.1	2,354.4	2,162.2	192.21	12.249	
9,645.6	7,009.8	6,947.3	6,947.3	54.3	139.4	90.08	-3,511.9	-1,609.1	2,335.9	2,142.8	193.07	12.099	
9,700.0	7,009.6	6,947.1	6,947.1	55.3	139.4	90.07	-3,511.9	-1,609.1	2,314.8	2,120.7	194.10	11.926	
9,744.1	7,009.4	6,946.9	6,946.9	56.2	139.4	90.07	-3,511.9	-1,609.1	2,298.6	2,103.6	194.93	11.792	
9,800.0	7,009.3	6,946.8	6,946.8	57.2	139.4	90.07	-3,511.9	-1,609.1	2,279.0	2,083.0	195.99	11.628	
9,842.5	7,009.1	6,946.6	6,946.6	58.0	139.4	90.06	-3,511.9	-1,609.1	2,264.9	2,068.1	196.79	11.509	
9,900.0	7,008.9	6,946.4	6,946.4	59.1	139.4	90.06	-3,511.9	-1,609.1	2,247.0	2,049.1	197.89	11.355	
9,940.9	7,008.8	6,946.3	6,946.3	59.9	139.4	90.05	-3,511.9	-1,609.1	2,235.0	2,036.4	198.66	11.250	
10,000.0	7,008.6	6,946.1	6,946.1	61.0	139.4	90.05	-3,511.9	-1,609.1	2,219.0	2,019.2	199.79	11.107	
10,039.3	7,008.5	6,946.0	6,946.0	61.7	139.4	90.05	-3,511.9	-1,609.1	2,209.2	2,008.6	200.54	11.016	
10,100.0	7,008.3	6,945.8	6,945.8	62.9	139.4	90.04	-3,511.9	-1,609.1	2,195.3	1,993.6	201.69	10.884	
10,137.8	7,008.2	6,945.7	6,945.7	63.6	139.4	90.04	-3,511.9	-1,609.1	2,187.4	1,985.0	202.41	10.807	
10,200.0	7,008.0	6,945.5	6,945.5	64.8	139.4	90.03	-3,511.9	-1,609.1	2,175.9	1,972.3	203.60	10.687	
10,236.2	7,007.9	6,945.4	6,945.4	65.5	139.4	90.03	-3,511.9	-1,609.1	2,170.0	1,965.7	204.29	10.622	
10,300.0	7,007.6	6,945.1	6,945.1	66.7	139.4	90.02	-3,511.9	-1,609.1	2,160.9	1,955.4	205.52	10.515	
10,334.6	7,007.5	6,945.0	6,945.0	67.3	139.4	90.02	-3,511.9	-1,609.1	2,156.8	1,950.6	206.18	10.461	
10,400.0	7,007.3	6,944.8	6,944.8	68.6	139.4	90.01	-3,511.9	-1,609.1	2,150.6	1,943.1	207.43	10.367	
10,433.0	7,007.2	6,944.7	6,944.7	69.2	139.4	90.01	-3,511.9	-1,609.1	2,148.1	1,940.1	208.07	10.324	
10,500.0	7,007.0	6,944.5	6,944.5	70.5	139.4	90.01	-3,511.9	-1,609.1	2,144.8	1,935.4	209.35	10.245	
10,531.5	7,006.9	6,944.4	6,944.4	71.1	139.4	90.00	-3,511.9	-1,609.1	2,143.9	1,934.0	209.96	10.211	
10,574.0	7,006.8	6,944.3	6,944.3	71.9	139.4	90.00	-3,511.9	-1,609.1	2,143.5	1,932.7	210.78	10.170 CC	
10,600.0	7,006.7	6,944.2	6,944.2	72.4	139.4	90.00	-3,511.9	-1,609.1	2,143.7	1,932.4	211.28	10.146	
10,629.9	7,006.6	6,944.1	6,944.1	73.0	139.4	90.00	-3,511.9	-1,609.1	2,144.2	1,932.4	211.85	10.121 ES	
10,700.0	7,006.4	6,943.9	6,943.9	74.3	139.4	89.99	-3,511.9	-1,609.1	2,147.2	1,934.0	213.20	10.071	
10,728.3	7,006.3	6,943.8	6,943.8	74.9	139.4	89.99	-3,511.9	-1,609.1	2,149.1	1,935.3	213.75	10.054	
10,800.0	7,006.0	6,943.5	6,943.5	76.3	139.4	89.98	-3,511.9	-1,609.1	2,155.4	1,940.3	215.13	10.019	
10,826.7	7,005.9	6,943.4	6,943.4	76.8	139.4	89.98	-3,511.9	-1,609.1	2,158.4	1,942.7	215.65	10.009	
10,900.0	7,005.7	6,943.2	6,943.2	78.2	139.4	89.97	-3,511.9	-1,609.1	2,168.2	1,951.1	217.06	9.989	
10,925.2	7,005.6	6,943.1	6,943.1	78.7	139.3	89.97	-3,511.9	-1,609.1	2,172.1	1,954.5	217.55	9.984	
11,000.0	7,005.4	6,942.9	6,942.9	80.1	139.3	89.96	-3,511.9	-1,609.1	2,185.4	1,966.4	218.99	9.980 SF	
11,023.6	7,005.3	6,942.8	6,942.8	80.6	139.3	89.96	-3,511.9	-1,609.1	2,190.2	1,970.7	219.45	9.980	
11,100.0	7,005.1	6,942.6	6,942.6	82.0	139.3	89.95	-3,511.9	-1,609.1	2,207.1	1,986.2	220.93	9.990	
11,122.0	7,005.0	6,942.5	6,942.5	82.5	139.3	89.95	-3,511.9	-1,609.1	2,212.5	1,991.1	221.35	9.995	
11,200.0	7,004.7	6,942.2	6,942.2	84.0	139.3	89.95	-3,511.9	-1,609.1	2,233.0	2,010.2	222.86	10.020	
11,220.4	7,004.7	6,942.2	6,942.2	84.4	139.3	89.94	-3,511.9	-1,609.1	2,238.9	2,015.6	223.26	10.028	
11,300.0	7,004.4	6,941.9	6,941.9	85.9	139.3	89.94	-3,511.9	-1,609.1	2,263.1	2,038.3	224.80	10.067	
11,318.9	7,004.4	6,941.9	6,941.9	86.3	139.3	89.94	-3,511.9	-1,609.1	2,269.2	2,044.1	225.16	10.078	
11,400.0	7,004.1	6,941.6	6,941.6	87.8	139.3	89.93	-3,511.9	-1,609.1	2,297.2	2,070.4	226.74	10.131	
11,417.3	7,004.0	6,941.5	6,941.5	88.2	139.3	89.93	-3,511.9	-1,609.1	2,303.4	2,076.4	227.07	10.144	
11,500.0	7,003.8	6,941.3	6,941.3	89.8	139.3	89.92	-3,511.9	-1,609.1	2,335.0	2,106.3	228.68	10.211	
11,515.7	7,003.7	6,941.2	6,941.2	90.1	139.3	89.92	-3,511.9	-1,609.1	2,341.3	2,112.3	228.98	10.225	
11,600.0	7,003.4	6,940.9	6,940.9	91.7	139.3	89.91	-3,511.9	-1,609.1	2,376.4	2,145.8	230.62	10.304	
11,614.1	7,003.4	6,940.9	6,940.9	92.0	139.3	89.91	-3,511.9	-1,609.1	2,382.6	2,151.7	230.90	10.319	
11,700.0	7,003.1	6,940.6	6,940.6	93.7	139.3	89.90	-3,511.9	-1,609.1	2,421.3	2,188.7	232.56	10.411	
11,712.6	7,003.1	6,940.6	6,940.6	93.9	139.3	89.90	-3,511.9	-1,609.1	2,427.1	2,194.3	232.81	10.426	
11,800.0	7,002.8	6,940.3	6,940.3	95.6	139.3	89.89	-3,511.9	-1,609.1	2,469.4	2,234.9	234.51	10.530	
11,811.0	7,002.7	6,940.2	6,940.2	95.8	139.3	89.89	-3,511.9	-1,609.1	2,474.8	2,240.1	234.72	10.544	
11,900.0	7,002.5	6,940.0	6,940.0	97.6	139.3	89.88	-3,511.9	-1,609.1	2,520.5	2,284.1	236.45	10.660	
11,909.4	7,002.4	6,939.9	6,939.9	97.7	139.3	89.88	-3,511.9	-1,609.1	2,525.5	2,288.8	236.64	10.672	
12,000.0	7,002.1	6,939.6	6,939.6	99.5	139.3	89.88	-3,511.9	-1,609.1	2,574.5	2,336.1	238.40	10.799	
12,007.8	7,002.1	6,939.6	6,939.6	99.7	139.3	89.87	-3,511.9	-1,609.1	2,578.9	2,340.3	238.55	10.811	
12,100.0	7,001.8	6,939.3	6,939.3	101.5	139.3	89.87	-3,511.9	-1,609.1	2,631.2	2,390.9	240.35	10.948	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,106.3	7,001.8	6,939.3	6,939.3	101.6	139.3	89.87	-3,511.9	-1,609.1	2,634.9	2,394.4	240.47	10.957	
12,200.0	7,001.5	6,939.0	6,939.0	103.4	139.3	89.86	-3,511.9	-1,609.1	2,690.5	2,448.2	242.30	11.104	
12,204.7	7,001.5	6,939.0	6,939.0	103.5	139.3	89.86	-3,511.9	-1,609.1	2,693.3	2,450.9	242.39	11.112	
12,300.0	7,001.2	6,938.7	6,938.7	105.3	139.3	89.85	-3,511.9	-1,609.1	2,752.1	2,507.8	244.24	11.268	
12,303.1	7,001.1	6,938.6	6,938.6	105.4	139.3	89.85	-3,511.9	-1,609.1	2,754.0	2,509.7	244.31	11.273	
12,400.0	7,000.8	6,938.3	6,938.3	107.3	139.3	89.84	-3,511.9	-1,609.1	2,815.9	2,569.7	246.19	11.437	
12,401.5	7,000.8	6,938.3	6,938.3	107.3	139.3	89.84	-3,511.9	-1,609.1	2,816.9	2,570.6	246.23	11.440	
12,500.0	7,000.5	6,938.0	6,938.0	109.3	139.2	89.83	-3,511.9	-1,609.1	2,881.7	2,633.6	248.15	11.613	
12,598.4	7,000.2	6,937.7	6,937.7	111.2	139.2	89.82	-3,511.9	-1,609.1	2,948.4	2,698.3	250.07	11.790	
12,600.0	7,000.2	6,937.7	6,937.7	111.2	139.2	89.82	-3,511.9	-1,609.1	2,949.5	2,699.4	250.10	11.793	
12,696.8	6,999.8	6,937.3	6,937.3	113.1	139.2	89.81	-3,511.9	-1,609.1	3,016.8	2,764.8	251.99	11.972	
12,700.0	6,999.8	6,937.3	6,937.3	113.2	139.2	89.81	-3,511.9	-1,609.1	3,019.0	2,767.0	252.05	11.978	
12,795.2	6,999.5	6,937.0	6,937.0	115.0	139.2	89.80	-3,511.9	-1,609.1	3,086.9	2,833.0	253.91	12.157	
12,800.0	6,999.5	6,937.0	6,937.0	115.1	139.2	89.80	-3,511.9	-1,609.1	3,090.3	2,836.3	254.00	12.166	
12,893.7	6,999.2	6,936.7	6,936.7	116.9	139.2	89.80	-3,511.9	-1,609.1	3,158.4	2,902.6	255.83	12.346	
12,900.0	6,999.2	6,936.7	6,936.7	117.1	139.2	89.80	-3,511.9	-1,609.1	3,163.1	2,907.1	255.96	12.358	
12,992.1	6,998.9	6,936.4	6,936.4	118.9	139.2	89.79	-3,511.9	-1,609.1	3,231.4	2,973.7	257.76	12.537	
13,000.0	6,998.8	6,936.3	6,936.3	119.0	139.2	89.79	-3,511.9	-1,609.1	3,237.3	2,979.4	257.91	12.552	
13,090.5	6,998.6	6,936.1	6,936.1	120.8	139.2	89.78	-3,511.9	-1,609.1	3,305.7	3,046.0	259.68	12.730	
13,100.0	6,998.5	6,936.0	6,936.0	121.0	139.2	89.78	-3,511.9	-1,609.1	3,312.9	3,053.1	259.87	12.749	
13,188.9	6,998.2	6,935.7	6,935.7	122.7	139.2	89.77	-3,511.9	-1,609.1	3,381.2	3,119.6	261.60	12.925	
13,200.0	6,998.2	6,935.7	6,935.7	122.9	139.2	89.77	-3,511.9	-1,609.1	3,389.8	3,128.0	261.82	12.947	
13,287.4	6,997.9	6,935.4	6,935.4	124.6	139.2	89.76	-3,511.9	-1,609.1	3,457.9	3,194.4	263.53	13.122	
13,300.0	6,997.9	6,935.4	6,935.4	124.9	139.2	89.76	-3,511.9	-1,609.1	3,467.8	3,204.1	263.78	13.147	
13,385.8	6,997.6	6,935.1	6,935.1	126.6	139.2	89.75	-3,511.9	-1,609.1	3,535.7	3,270.2	265.46	13.319	
13,400.0	6,997.5	6,935.0	6,935.0	126.9	139.2	89.75	-3,511.9	-1,609.1	3,547.0	3,281.3	265.73	13.348	
13,484.2	6,997.3	6,934.8	6,934.8	128.5	139.2	89.74	-3,511.9	-1,609.1	3,614.5	3,347.1	267.38	13.518	
13,500.0	6,997.2	6,934.7	6,934.7	128.8	139.2	89.74	-3,511.9	-1,609.1	3,627.2	3,359.5	267.69	13.550	
13,582.6	6,996.9	6,934.4	6,934.4	130.4	139.2	89.73	-3,511.9	-1,609.1	3,694.2	3,424.9	269.31	13.717	
13,600.0	6,996.9	6,934.4	6,934.4	130.8	139.2	89.73	-3,511.9	-1,609.1	3,708.3	3,438.7	269.65	13.752	
13,681.1	6,996.6	6,934.1	6,934.1	132.4	139.2	89.72	-3,511.9	-1,609.1	3,774.8	3,503.5	271.23	13.917	
13,700.0	6,996.5	6,934.0	6,934.0	132.7	139.2	89.72	-3,511.9	-1,609.1	3,790.4	3,518.8	271.60	13.955	
13,779.5	6,996.3	6,933.8	6,933.8	134.3	139.2	89.72	-3,511.9	-1,609.1	3,856.2	3,583.0	273.16	14.117	
13,800.0	6,996.2	6,933.7	6,933.7	134.7	139.2	89.71	-3,511.9	-1,609.1	3,873.2	3,599.7	273.56	14.159	
13,877.9	6,995.9	6,933.4	6,933.4	136.2	139.2	89.71	-3,511.9	-1,609.1	3,938.4	3,663.3	275.09	14.317	
13,900.0	6,995.9	6,933.4	6,933.4	136.7	139.2	89.70	-3,511.9	-1,609.1	3,956.9	3,681.4	275.52	14.362	
13,976.3	6,995.6	6,933.1	6,933.1	138.2	139.1	89.70	-3,511.9	-1,609.1	4,021.3	3,744.3	277.02	14.516	
14,000.0	6,995.5	6,933.0	6,933.0	138.6	139.1	89.70	-3,511.9	-1,609.1	4,041.3	3,763.9	277.48	14.564	
14,074.8	6,995.3	6,932.8	6,932.8	140.1	139.1	89.69	-3,511.9	-1,609.1	4,104.9	3,826.0	278.95	14.716	
14,100.0	6,995.2	6,932.7	6,932.7	140.6	139.1	89.69	-3,511.9	-1,609.1	4,126.5	3,847.0	279.44	14.767	
14,162.0	6,995.0	6,932.5	6,932.5	141.8	139.1	89.68	-3,511.9	-1,609.1	4,179.6	3,899.0	280.61	14.894	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						
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	-158.63	-655.8	-256.5	704.8				
98.4	98.4	68.6	68.6	0.1	0.0	-158.61	-655.7	-256.8	704.2	704.0	0.14	4,868.661	
100.0	100.0	70.2	70.2	0.1	0.1	-158.61	-655.7	-256.8	704.2	704.0	0.15	4,773.158	
196.8	196.8	170.3	170.3	0.3	0.2	-158.54	-655.2	-257.6	704.1	703.6	0.48	1,462.568	
200.0	200.0	173.6	173.6	0.3	0.2	-158.54	-655.2	-257.6	704.0	703.6	0.49	1,428.271	
295.3	295.3	266.1	266.1	0.5	0.3	-158.49	-654.7	-258.0	703.7	702.9	0.79	893.572	
300.0	300.0	270.6	270.6	0.5	0.3	-158.49	-654.7	-258.0	703.7	702.9	0.80	878.358	
393.7	393.7	366.9	366.9	0.8	0.3	-158.43	-654.4	-258.7	703.7	702.6	1.08	654.470	
400.0	400.0	373.6	373.6	0.8	0.3	-158.43	-654.3	-258.7	703.6	702.6	1.09	643.346	
492.1	492.1	470.2	470.1	1.0	0.4	-158.35	-653.3	-259.3	702.9	701.6	1.36	516.594	
500.0	500.0	478.4	478.3	1.0	0.4	-158.34	-653.2	-259.3	702.8	701.4	1.38	508.059	
590.5	590.5	573.8	573.8	1.2	0.4	-158.29	-651.7	-259.5	701.5	699.9	1.64	426.730	
600.0	600.0	583.8	583.8	1.2	0.5	-158.28	-651.4	-259.5	701.3	699.7	1.67	419.683	
689.0	689.0	670.3	670.2	1.4	0.5	-158.19	-649.6	-260.0	699.7	697.8	1.92	364.495	
700.0	700.0	680.8	680.8	1.4	0.5	-158.18	-649.4	-260.1	699.6	697.6	1.95	358.687	
787.4	787.4	770.3	770.3	1.6	0.6	-158.07	-647.6	-260.7	698.2	696.0	2.19	318.367	
800.0	800.0	783.5	783.4	1.7	0.6	-158.06	-647.3	-260.8	698.0	695.8	2.23	313.261	
885.8	885.8	868.8	868.7	1.9	0.6	-157.98	-645.5	-261.1	696.4	693.9	2.46	282.817	
900.0	900.0	882.7	882.6	1.9	0.6	-157.96	-645.2	-261.2	696.2	693.7	2.50	278.361	
984.2	984.2	962.3	962.2	2.1	0.6	-157.91	-643.9	-261.4	694.9	692.2	2.73	254.861	
1,000.0	1,000.0	977.0	976.9	2.1	0.7	-157.90	-643.7	-261.4	694.8	692.0	2.77	250.933	
1,082.7	1,082.7	1,058.2	1,058.1	2.3	0.7	-157.86	-643.0	-261.6	694.2	691.2	2.99	232.101	
1,100.0	1,100.0	1,075.6	1,075.5	2.3	0.7	-157.85	-642.8	-261.7	694.0	691.0	3.04	228.496	
1,127.6	1,127.6	1,103.4	1,103.2	2.4	0.7	139.61	-642.5	-261.9	693.9	690.9	3.07	225.717 CC, ES	
1,181.1	1,181.1	1,158.0	1,157.9	2.5	0.7	139.70	-642.0	-262.1	694.3	691.1	3.21	216.185	
1,200.0	1,200.0	1,177.3	1,177.2	2.6	0.7	139.73	-641.7	-262.1	694.6	691.3	3.26	213.050	
1,279.5	1,279.4	1,256.7	1,256.6	2.7	0.8	139.93	-640.9	-262.0	696.7	693.3	3.46	201.102	
1,300.0	1,299.8	1,276.9	1,276.8	2.8	0.8	140.00	-640.7	-262.0	697.6	694.1	3.52	198.321	
1,377.9	1,377.5	1,352.2	1,352.0	3.0	0.8	140.29	-640.1	-262.0	702.0	698.2	3.72	188.676	
1,400.0	1,399.5	1,373.2	1,373.1	3.0	0.8	140.38	-640.0	-261.9	703.6	699.8	3.78	186.257	
1,476.4	1,475.3	1,448.9	1,448.7	3.2	0.8	140.75	-639.8	-261.8	710.3	706.3	3.98	178.372	
1,500.0	1,498.7	1,472.7	1,472.6	3.2	0.8	140.89	-639.6	-261.8	712.6	708.6	4.04	176.215	
1,574.8	1,572.6	1,545.4	1,545.2	3.5	0.9	141.37	-639.2	-262.0	721.2	716.9	4.26	169.481	
1,600.0	1,597.5	1,569.3	1,569.2	3.5	0.9	141.54	-639.1	-262.1	724.5	720.2	4.33	167.475	
1,673.2	1,669.4	1,640.3	1,640.2	3.7	0.9	142.08	-638.9	-262.4	735.2	730.7	4.55	161.646	
1,700.0	1,695.7	1,666.8	1,666.6	3.8	0.9	142.30	-638.8	-262.5	739.6	734.9	4.63	159.777	
1,771.6	1,765.7	1,737.5	1,737.4	4.1	0.9	143.02	-638.6	-262.8	751.4	746.6	4.85	155.085	
1,800.0	1,793.4	1,765.6	1,765.4	4.2	0.9	143.29	-638.6	-262.8	756.1	751.2	4.93	153.409	
1,870.1	1,862.0	1,832.6	1,832.4	4.4	0.9	143.93	-638.4	-262.8	767.8	762.7	5.14	149.395	
1,900.0	1,891.3	1,860.1	1,860.0	4.5	0.9	144.18	-638.5	-262.8	772.9	767.7	5.22	147.984	
1,968.5	1,958.3	1,926.1	1,926.0	4.8	0.9	144.76	-638.8	-262.7	784.9	779.5	5.43	144.617	
2,000.0	1,989.1	1,958.9	1,958.8	4.9	0.9	145.03	-639.0	-262.5	790.4	784.8	5.52	143.115	
2,066.9	2,054.5	2,025.1	2,025.0	5.2	1.0	145.56	-639.2	-262.0	801.8	796.1	5.73	139.965	
2,100.0	2,086.9	2,055.3	2,055.2	5.3	1.0	145.79	-639.4	-261.7	807.6	801.8	5.83	138.505	
2,165.3	2,150.8	2,115.8	2,115.7	5.6	1.0	146.26	-640.0	-261.4	819.3	813.3	6.04	135.747	
2,200.0	2,184.7	2,149.3	2,149.2	5.7	1.0	146.51	-640.3	-261.3	825.6	819.4	6.14	134.378	
2,263.8	2,247.1	2,210.8	2,210.6	5.9	1.0	146.98	-640.9	-261.2	837.2	830.9	6.34	131.960	
2,300.0	2,282.5	2,245.6	2,245.5	6.1	1.0	147.24	-641.3	-261.2	843.9	837.4	6.46	130.690	
2,362.2	2,343.4	2,305.4	2,305.2	6.4	1.0	147.67	-641.9	-261.2	855.5	848.8	6.65	128.596	
2,400.0	2,380.3	2,341.8	2,341.6	6.5	1.0	147.93	-642.4	-261.2	862.5	855.8	6.77	127.397	
2,460.6	2,439.6	2,400.1	2,399.9	6.8	1.0	148.34	-643.1	-261.2	874.0	867.0	6.96	125.547	
2,500.0	2,478.1	2,439.8	2,439.6	6.9	1.0	148.61	-643.6	-261.2	881.4	874.3	7.08	124.436	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	2,499.3	2,499.2	7.2	1.0	149.02	-644.2	-261.4	892.5	885.3	7.27	122.812	
2,600.0	2,576.0	2,540.2	2,540.0	7.4	1.0	149.30	-644.5	-261.5	900.2	892.8	7.39	121.754	
2,657.5	2,632.2	2,597.6	2,597.4	7.6	1.0	149.69	-644.8	-261.7	910.9	903.3	7.57	120.309	
2,700.0	2,673.8	2,639.4	2,639.2	7.8	1.0	149.97	-644.9	-261.9	918.8	911.1	7.70	119.285	
2,755.9	2,728.4	2,694.2	2,694.1	8.0	1.0	150.34	-645.1	-262.2	929.3	921.4	7.88	117.985	
2,800.0	2,771.6	2,735.6	2,735.4	8.2	1.0	150.61	-645.2	-262.5	937.5	929.5	8.01	116.991	
2,854.3	2,824.7	2,786.2	2,786.0	8.4	1.1	150.94	-645.4	-262.9	947.9	939.7	8.18	115.822	
2,900.0	2,869.4	2,830.3	2,830.1	8.6	1.1	151.23	-645.7	-263.3	956.7	948.4	8.33	114.896	
2,952.7	2,921.0	2,882.1	2,881.9	8.9	1.1	151.55	-646.0	-263.7	966.9	958.4	8.49	113.861	
3,000.0	2,967.2	2,931.8	2,931.6	9.1	1.1	151.85	-646.3	-264.1	976.0	967.4	8.63	113.062	
3,051.2	3,017.3	2,988.0	2,987.8	9.3	1.1	152.18	-646.5	-264.2	985.6	976.8	8.78	112.248	
3,100.0	3,065.0	3,037.8	3,037.6	9.5	1.1	152.46	-646.4	-264.1	994.6	985.7	8.92	111.448	
3,149.6	3,113.5	3,087.3	3,087.1	9.7	1.1	152.74	-646.3	-264.0	1,003.7	994.6	9.07	110.614	
3,200.0	3,162.8	3,134.2	3,134.1	9.9	1.1	153.00	-646.2	-264.0	1,012.9	1,003.7	9.22	109.817	
3,248.0	3,209.8	3,177.8	3,177.7	10.2	1.1	153.24	-646.1	-264.1	1,021.9	1,012.5	9.37	109.092	
3,300.0	3,260.7	3,227.3	3,227.1	10.4	1.1	153.51	-646.2	-264.3	1,031.8	1,022.3	9.52	108.341	
3,346.4	3,306.1	3,273.4	3,273.2	10.6	1.1	153.74	-646.4	-264.4	1,040.7	1,031.0	9.66	107.681	
3,400.0	3,358.5	3,329.2	3,329.0	10.8	1.1	154.02	-646.6	-264.3	1,050.8	1,041.0	9.82	106.953	
3,444.9	3,402.4	3,378.3	3,378.1	11.0	1.1	154.25	-646.7	-264.0	1,059.1	1,049.2	9.96	106.358	
3,500.0	3,456.3	3,432.8	3,432.6	11.3	1.1	154.51	-646.6	-263.6	1,069.2	1,059.0	10.12	105.604	
3,543.3	3,498.6	3,473.0	3,472.8	11.5	1.1	154.70	-646.5	-263.4	1,077.1	1,066.9	10.26	105.011	
3,600.0	3,554.1	3,527.5	3,527.3	11.7	1.1	154.95	-646.4	-263.3	1,087.7	1,077.3	10.43	104.278	
3,641.7	3,594.9	3,569.2	3,569.0	11.9	1.1	155.13	-646.5	-263.0	1,095.5	1,084.9	10.56	103.752	
3,700.0	3,651.9	3,626.5	3,626.3	12.2	1.1	155.36	-646.8	-262.3	1,106.3	1,095.6	10.74	103.022	
3,740.1	3,691.2	3,665.2	3,665.0	12.3	1.1	155.50	-647.0	-261.8	1,113.8	1,103.0	10.86	102.535	
3,800.0	3,749.7	3,723.3	3,723.0	12.6	1.2	155.72	-647.5	-261.0	1,125.0	1,114.0	11.05	101.832	
3,838.6	3,787.5	3,761.1	3,760.9	12.8	1.2	155.85	-647.8	-260.4	1,132.3	1,121.1	11.17	101.391	
3,900.0	3,847.5	3,823.6	3,823.3	13.0	1.2	156.06	-648.4	-259.4	1,143.8	1,132.5	11.36	100.717	
3,937.0	3,883.7	3,863.7	3,863.5	13.2	1.2	156.20	-648.6	-258.7	1,150.6	1,139.2	11.47	100.321	
4,000.0	3,945.4	3,926.8	3,926.6	13.5	1.2	156.42	-648.7	-257.7	1,162.1	1,150.4	11.66	99.647	
4,035.4	3,980.0	3,958.9	3,958.6	13.7	1.2	156.53	-648.8	-257.2	1,168.6	1,156.8	11.77	99.280	
4,068.9	4,012.7	3,989.1	3,988.9	13.8	1.2	156.64	-648.9	-256.8	1,174.8	1,162.9	11.87	98.948	
4,100.0	4,043.2	4,018.3	4,018.0	13.9	1.2	156.78	-649.0	-256.4	1,180.5	1,168.5	11.94	98.844	
4,133.8	4,076.4	4,050.7	4,050.5	14.0	1.2	156.93	-649.2	-256.0	1,186.3	1,174.3	12.01	98.819	
4,200.0	4,141.6	4,114.3	4,114.1	14.2	1.2	157.18	-649.6	-255.2	1,196.8	1,184.7	12.13	98.697	
4,232.3	4,173.4	4,145.4	4,145.1	14.3	1.2	157.29	-649.9	-254.9	1,201.5	1,189.3	12.18	98.635	
4,300.0	4,240.5	4,211.7	4,211.4	14.5	1.2	157.49	-650.3	-254.3	1,210.2	1,197.9	12.30	98.426	
4,330.7	4,271.0	4,243.9	4,243.7	14.6	1.2	157.58	-650.5	-254.1	1,213.7	1,201.3	12.34	98.326	
4,400.0	4,339.9	4,315.6	4,315.3	14.8	1.2	157.74	-650.7	-253.5	1,220.2	1,207.8	12.45	97.992	
4,429.1	4,368.9	4,343.9	4,343.6	14.8	1.3	157.78	-650.8	-253.2	1,222.5	1,210.0	12.50	97.840	
4,500.0	4,439.6	4,413.1	4,412.9	15.0	1.3	157.86	-651.3	-252.3	1,227.0	1,214.4	12.60	97.367	
4,527.5	4,467.1	4,440.8	4,440.6	15.0	1.3	157.87	-651.5	-251.9	1,228.3	1,215.7	12.64	97.171	
4,600.0	4,539.5	4,512.4	4,512.1	15.1	1.3	157.89	-652.0	-251.1	1,230.6	1,217.9	12.74	96.559	
4,626.0	4,565.4	4,535.8	4,535.5	15.2	1.3	157.89	-652.2	-250.9	1,231.1	1,218.3	12.78	96.340	
4,668.9	4,608.4	4,574.6	4,574.3	15.2	1.3	-139.55	-652.5	-250.7	1,231.4	1,218.6	12.85	95.846	
4,700.0	4,639.5	4,603.1	4,602.8	15.3	1.3	-139.56	-652.7	-250.6	1,231.6	1,218.7	12.91	95.434	
4,724.4	4,663.9	4,628.6	4,628.3	15.3	1.3	-139.56	-652.8	-250.6	1,231.7	1,218.8	12.95	95.080	
4,800.0	4,739.5	4,707.0	4,706.7	15.4	1.3	-139.57	-653.2	-250.7	1,232.0	1,218.9	13.11	93.993	
4,822.8	4,762.3	4,728.9	4,728.6	15.4	1.3	-139.57	-653.3	-250.7	1,232.1	1,218.9	13.15	93.669	
4,900.0	4,839.5	4,802.8	4,802.5	15.6	1.3	-139.59	-653.7	-250.7	1,232.4	1,219.1	13.31	92.592	
4,921.2	4,860.7	4,823.2	4,822.9	15.6	1.3	-139.59	-653.9	-250.7	1,232.6	1,219.2	13.35	92.299	
5,000.0	4,939.5	4,900.0	4,899.7	15.7	1.3	-139.61	-654.7	-250.7	1,233.2	1,219.7	13.52	91.240	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						
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
5,019.7	4,959.1	4,919.0	4,918.7	15.7	1.3	-139.62	-654.9	-250.7	1,233.4	1,219.8	13.56	90.984	
5,100.0	5,039.5	5,000.8	5,000.5	15.9	1.4	-139.62	-655.4	-251.1	1,234.0	1,220.3	13.72	89.953	
5,118.1	5,057.6	5,019.2	5,018.9	15.9	1.4	-139.62	-655.5	-251.3	1,234.2	1,220.4	13.76	89.719	
5,200.0	5,139.5	5,102.4	5,102.1	16.0	1.4	-139.62	-655.9	-251.7	1,234.7	1,220.8	13.92	88.673	
5,216.5	5,156.0	5,118.8	5,118.4	16.0	1.4	-139.62	-656.0	-251.7	1,234.8	1,220.9	13.96	88.461	
5,300.0	5,239.5	5,201.6	5,201.3	16.2	1.4	-139.62	-656.5	-252.1	1,235.4	1,221.3	14.13	87.412	
5,314.9	5,254.4	5,217.4	5,217.0	16.2	1.4	-139.62	-656.5	-252.1	1,235.5	1,221.3	14.16	87.224	
5,400.0	5,339.5	5,306.5	5,306.2	16.3	1.4	-139.62	-656.8	-252.4	1,235.9	1,221.6	14.34	86.157	
5,413.4	5,352.8	5,319.4	5,319.1	16.3	1.4	-139.62	-656.8	-252.5	1,235.9	1,221.6	14.37	85.991	
5,500.0	5,439.5	5,403.3	5,403.0	16.5	1.4	-139.62	-657.2	-252.6	1,236.3	1,221.8	14.56	84.939	
5,511.8	5,451.3	5,414.6	5,414.3	16.5	1.4	-139.62	-657.2	-252.7	1,236.4	1,221.8	14.58	84.798	
5,600.0	5,539.5	5,500.0	5,499.7	16.6	1.4	-139.62	-657.7	-253.2	1,237.1	1,222.3	14.77	83.779	
5,610.2	5,549.7	5,508.3	5,508.0	16.6	1.4	-139.61	-657.7	-253.3	1,237.2	1,222.4	14.79	83.664	
5,700.0	5,639.5	5,592.3	5,592.0	16.8	1.5	-139.59	-658.2	-254.3	1,238.3	1,223.3	14.98	82.670	
5,708.6	5,648.1	5,600.5	5,600.1	16.8	1.5	-139.59	-658.3	-254.4	1,238.4	1,223.4	15.00	82.576	
5,800.0	5,739.5	5,700.0	5,699.7	17.0	1.5	-139.58	-658.9	-255.4	1,239.5	1,224.3	15.20	81.568	
5,807.1	5,746.5	5,706.5	5,706.2	17.0	1.5	-139.58	-659.0	-255.4	1,239.5	1,224.3	15.21	81.490	
5,900.0	5,839.5	5,789.2	5,788.9	17.1	1.5	-139.56	-659.6	-256.4	1,240.7	1,225.3	15.41	80.513	
5,905.5	5,845.0	5,794.1	5,793.8	17.1	1.5	-139.56	-659.6	-256.4	1,240.8	1,225.4	15.42	80.457	
6,000.0	5,939.5	5,901.2	5,900.8	17.3	1.5	-139.53	-660.3	-257.8	1,242.0	1,226.4	15.63	79.467	
6,003.9	5,943.4	5,905.0	5,904.7	17.3	1.5	-139.53	-660.3	-257.8	1,242.1	1,226.4	15.64	79.426	
6,100.0	6,039.5	6,000.0	5,999.6	17.4	1.5	-139.51	-660.6	-258.7	1,242.9	1,227.0	15.85	78.427	
6,102.3	6,041.8	6,001.7	6,001.3	17.4	1.5	-139.51	-660.6	-258.7	1,242.9	1,227.0	15.85	78.404	
6,200.0	6,139.5	6,114.1	6,113.8	17.6	1.5	-139.47	-660.2	-259.6	1,243.1	1,227.0	16.06	77.411	
6,200.8	6,140.2	6,114.9	6,114.6	17.6	1.5	-139.47	-660.2	-259.6	1,243.1	1,227.0	16.06	77.403	
6,299.2	6,238.7	6,215.2	6,214.8	17.8	1.6	-139.39	-658.8	-260.5	1,242.6	1,226.4	16.27	76.392	
6,300.0	6,239.5	6,216.0	6,215.6	17.8	1.6	-139.39	-658.8	-260.5	1,242.6	1,226.4	16.27	76.384	
6,360.9	6,300.4	6,271.3	6,270.9	17.9	1.6	-139.34	-657.9	-261.3	1,242.5	1,226.1	16.40	75.782	
6,397.6	6,337.1	6,305.1	6,304.7	17.9	1.6	40.55	-657.4	-261.9	1,241.8	1,225.4	16.41	75.656	
6,400.0	6,339.5	6,307.4	6,307.0	17.9	1.6	40.56	-657.4	-262.0	1,241.7	1,225.3	16.42	75.640	
6,450.0	6,389.2	6,356.5	6,356.1	18.0	1.6	40.92	-656.7	-262.9	1,238.5	1,222.0	16.47	75.207	
6,496.0	6,434.7	6,400.0	6,399.6	18.0	1.6	41.45	-656.2	-263.8	1,233.2	1,216.7	16.53	74.613	
6,500.0	6,438.6	6,400.0	6,399.6	18.0	1.6	41.48	-656.2	-263.8	1,232.7	1,216.1	16.53	74.555	
6,550.0	6,487.3	6,445.2	6,444.8	18.0	1.6	42.28	-655.8	-264.7	1,224.5	1,207.9	16.60	73.752	
6,594.5	6,529.8	6,481.0	6,480.6	18.0	1.6	43.15	-655.9	-265.3	1,215.4	1,198.7	16.66	72.954	
6,600.0	6,535.1	6,485.5	6,485.0	18.1	1.6	43.27	-655.9	-265.4	1,214.1	1,197.5	16.67	72.853	
6,650.0	6,581.7	6,529.6	6,529.2	18.0	1.6	44.54	-656.4	-266.2	1,201.6	1,184.9	16.72	71.879	
6,692.9	6,620.6	6,568.9	6,568.4	18.0	1.6	45.87	-656.8	-266.8	1,189.2	1,172.4	16.75	70.978	
6,700.0	6,626.9	6,575.3	6,574.8	18.0	1.6	46.11	-656.9	-266.9	1,186.9	1,170.2	16.76	70.828	
6,750.0	6,670.6	6,618.5	6,618.0	18.0	1.6	47.96	-657.4	-267.6	1,170.2	1,153.4	16.79	69.690	
6,791.3	6,705.4	6,652.0	6,651.5	18.0	1.6	49.68	-657.8	-268.2	1,154.9	1,138.1	16.82	68.667	
6,800.0	6,712.5	6,658.9	6,658.4	18.0	1.6	50.06	-657.8	-268.3	1,151.5	1,134.7	16.82	68.451	
6,850.0	6,752.3	6,697.4	6,696.9	18.0	1.6	52.45	-658.3	-269.0	1,131.3	1,114.4	16.86	67.098	
6,889.7	6,782.5	6,728.5	6,728.0	18.0	1.6	54.61	-658.7	-269.6	1,114.1	1,097.2	16.90	65.920	
6,900.0	6,790.0	6,736.3	6,735.8	18.0	1.6	55.19	-658.8	-269.8	1,109.5	1,092.6	16.91	65.617	
6,950.0	6,825.3	6,772.7	6,772.2	18.0	1.7	58.20	-659.1	-270.6	1,086.6	1,069.6	16.98	64.004	
6,988.2	6,850.5	6,798.6	6,798.1	17.9	1.7	60.65	-659.2	-271.2	1,068.4	1,051.4	17.05	62.675	
7,000.0	6,858.0	6,806.6	6,806.1	17.9	1.7	61.44	-659.2	-271.4	1,062.7	1,045.6	17.06	62.275	
7,050.0	6,888.0	6,839.0	6,838.5	18.0	1.7	64.91	-659.4	-272.1	1,038.2	1,021.0	17.17	60.455	
7,086.6	6,908.1	6,861.0	6,860.4	18.0	1.7	67.52	-659.6	-272.5	1,020.0	1,002.7	17.26	59.111	
7,100.0	6,915.1	6,868.6	6,868.1	18.0	1.7	68.49	-659.6	-272.6	1,013.3	996.0	17.30	58.585	
7,150.0	6,939.2	6,895.2	6,894.6	18.0	1.7	72.08	-659.9	-273.0	988.5	971.0	17.44	56.692	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
7,185.0	6,954.3	6,913.1	6,912.6	18.1	1.7	74.64	-660.1	-273.1	971.3	953.7	17.55	55.352	
7,200.0	6,960.3	6,920.4	6,919.9	18.1	1.7	75.72	-660.2	-273.2	964.0	946.4	17.59	54.793	
7,250.0	6,978.1	6,942.0	6,941.5	18.3	1.7	79.16	-660.3	-273.3	940.3	922.5	17.79	52.871	
7,283.4	6,988.2	6,954.1	6,953.6	18.4	1.7	81.29	-660.4	-273.4	925.1	907.1	17.95	51.545	
7,300.0	6,992.6	6,959.4	6,958.9	18.4	1.7	82.29	-660.4	-273.4	917.8	899.7	18.03	50.901	
7,350.0	7,003.7	6,972.6	6,972.0	18.7	1.7	85.01	-660.5	-273.4	896.8	878.4	18.35	48.878	
7,381.9	7,009.1	6,978.8	6,978.2	18.9	1.7	86.51	-660.5	-273.5	884.4	865.8	18.60	47.561	
7,400.0	7,011.4	6,981.6	6,981.0	19.0	1.7	87.28	-660.5	-273.5	877.8	859.0	18.74	46.833	
7,450.0	7,015.7	6,986.5	6,985.9	19.3	1.7	89.04	-660.5	-273.5	861.0	841.8	19.21	44.830	
7,480.3	7,016.6	6,987.4	6,986.9	19.6	1.7	89.86	-660.5	-273.5	852.1	832.5	19.51	43.665	
7,488.2	7,016.6	6,987.5	6,986.9	19.6	1.7	90.04	-660.5	-273.5	849.9	830.3	19.59	43.376	
7,500.0	7,016.6	6,987.4	6,986.9	19.7	1.7	90.03	-660.5	-273.5	846.8	827.1	19.71	42.964	
7,578.7	7,016.3	6,987.1	6,986.5	20.5	1.7	90.01	-660.5	-273.5	830.0	809.5	20.54	40.418	
7,600.0	7,016.2	6,987.0	6,986.4	20.7	1.7	90.00	-660.5	-273.5	826.7	806.0	20.76	39.824	
7,677.1	7,016.0	6,986.7	6,986.1	21.6	1.7	89.98	-660.5	-273.5	819.3	797.6	21.67	37.805	
7,700.0	7,015.9	6,986.6	6,986.0	21.8	1.7	89.98	-660.5	-273.5	818.5	796.5	21.94	37.303	
7,717.8	7,015.9	6,986.5	6,986.0	22.0	1.7	89.97	-660.5	-273.5	818.3	796.1	22.17	36.905	
7,775.6	7,015.7	6,986.3	6,985.7	22.7	1.7	89.96	-660.5	-273.5	820.3	797.4	22.92	35.785	
7,800.0	7,015.6	6,986.2	6,985.6	23.0	1.7	89.95	-660.5	-273.5	822.4	799.2	23.24	35.386	
7,874.0	7,015.4	6,985.9	6,985.4	24.0	1.7	89.93	-660.5	-273.5	833.1	808.8	24.27	34.319	
7,900.0	7,015.3	6,985.8	6,985.3	24.4	1.7	89.92	-660.5	-273.5	838.3	813.7	24.64	34.027	
7,972.4	7,015.1	6,985.5	6,985.0	25.4	1.7	89.90	-660.5	-273.5	857.0	831.3	25.71	33.338	
8,000.0	7,015.0	6,985.4	6,984.9	25.8	1.7	89.90	-660.5	-273.5	865.6	839.5	26.11	33.147	
8,070.8	7,014.8	6,985.2	6,984.6	26.8	1.7	89.88	-660.5	-273.5	891.2	864.0	27.21	32.756	
8,100.0	7,014.7	6,985.1	6,984.5	27.3	1.7	89.87	-660.5	-273.5	903.2	875.5	27.66	32.655	
8,169.3	7,014.4	6,984.8	6,984.3	28.3	1.7	89.85	-660.5	-273.5	934.6	905.8	28.76	32.490	
8,200.0	7,014.4	6,984.7	6,984.2	28.8	1.7	89.85	-660.5	-273.5	949.8	920.5	29.26	32.465	
8,267.7	7,014.1	6,984.5	6,983.9	29.9	1.7	89.83	-660.5	-273.5	985.9	955.5	30.37	32.463 SF	
8,300.0	7,014.0	6,984.4	6,983.8	30.4	1.7	89.82	-660.5	-273.5	1,004.3	973.4	30.90	32.499	
8,366.1	7,013.8	6,984.2	6,983.6	31.5	1.7	89.81	-660.5	-273.5	1,044.0	1,012.0	32.02	32.609	
8,400.0	7,013.7	6,984.0	6,983.5	32.0	1.7	89.80	-660.5	-273.5	1,065.4	1,032.8	32.59	32.694	
8,464.5	7,013.5	6,983.8	6,983.3	33.1	1.7	89.78	-660.5	-273.5	1,107.8	1,074.1	33.69	32.878	
8,500.0	7,013.4	6,983.7	6,983.2	33.7	1.7	89.78	-660.5	-273.5	1,132.0	1,097.7	34.30	33.000	
8,563.0	7,013.2	6,983.5	6,983.0	34.8	1.7	89.76	-660.5	-273.5	1,176.4	1,141.0	35.40	33.229	
8,600.0	7,013.1	6,983.4	6,982.9	35.4	1.7	89.75	-660.5	-273.5	1,203.3	1,167.2	36.05	33.379	
8,661.4	7,012.9	6,983.2	6,982.7	36.5	1.7	89.74	-660.5	-273.5	1,249.0	1,211.9	37.14	33.633	
8,700.0	7,012.8	6,983.1	6,982.6	37.1	1.7	89.73	-660.5	-273.5	1,278.4	1,240.6	37.82	33.803	
8,759.8	7,012.6	6,982.9	6,982.4	38.2	1.7	89.72	-660.5	-273.5	1,324.9	1,286.0	38.89	34.069	
8,800.0	7,012.4	6,982.8	6,982.3	38.9	1.7	89.71	-660.5	-273.5	1,356.7	1,317.1	39.61	34.253	
8,858.2	7,012.3	6,982.6	6,982.1	39.9	1.7	89.70	-660.5	-273.5	1,403.7	1,363.0	40.66	34.520	
8,900.0	7,012.1	6,982.5	6,982.0	40.7	1.7	89.69	-660.5	-273.5	1,437.8	1,396.4	41.42	34.714	
8,956.7	7,011.9	6,982.3	6,981.8	41.7	1.7	89.68	-660.5	-273.5	1,484.7	1,442.3	42.45	34.975	
9,000.0	7,011.8	6,982.2	6,981.7	42.4	1.7	89.67	-660.5	-273.5	1,521.1	1,477.8	43.24	35.177	
9,055.1	7,011.6	6,982.1	6,981.5	43.4	1.7	89.66	-660.5	-273.5	1,567.8	1,523.5	44.25	35.428	
9,100.0	7,011.5	6,982.0	6,981.4	44.2	1.7	89.65	-660.5	-273.5	1,606.3	1,561.2	45.08	35.633	
9,153.5	7,011.3	6,981.8	6,981.3	45.2	1.7	89.64	-660.5	-273.5	1,652.6	1,606.5	46.07	35.872	
9,200.0	7,011.2	6,981.7	6,981.1	46.1	1.7	89.63	-660.5	-273.5	1,693.1	1,646.2	46.93	36.079	
9,251.9	7,011.0	6,981.5	6,981.0	47.0	1.7	89.62	-660.5	-273.5	1,738.7	1,690.9	47.89	36.304	
9,300.0	7,010.9	6,981.4	6,980.9	47.9	1.7	89.61	-660.5	-273.5	1,781.3	1,732.5	48.79	36.511	
9,350.4	7,010.7	6,981.3	6,980.7	48.8	1.7	89.60	-660.5	-273.5	1,826.2	1,776.4	49.73	36.723	
9,400.0	7,010.5	6,981.2	6,980.6	49.7	1.7	89.59	-660.5	-273.5	1,870.7	1,820.0	50.66	36.929	
9,448.8	7,010.4	6,981.0	6,980.5	50.6	1.7	89.59	-660.5	-273.5	1,914.7	1,863.1	51.57	37.126	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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									
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
9,500.0	7,010.2	6,980.9	6,980.4	51.6	1.7	89.58	-660.5	-273.5	1,961.1	1,908.6	52.53	37.330	
9,547.2	7,010.1	6,980.8	6,980.3	52.5	1.7	89.57	-660.5	-273.5	2,004.1	1,950.7	53.42	37.514	
9,600.0	7,009.9	6,980.7	6,980.1	53.5	1.7	89.56	-660.5	-273.5	2,052.4	1,998.0	54.42	37.715	
9,645.6	7,009.8	6,980.6	6,980.0	54.3	1.7	89.55	-660.5	-273.5	2,094.3	2,039.1	55.28	37.885	
9,700.0	7,009.6	6,980.4	6,979.9	55.3	1.7	89.54	-660.5	-273.5	2,144.5	2,088.2	56.31	38.084	
9,744.1	7,009.4	6,980.3	6,979.8	56.2	1.7	89.53	-660.5	-273.5	2,185.3	2,128.1	57.15	38.241	
9,800.0	7,009.3	6,980.2	6,979.7	57.2	1.7	89.53	-660.5	-273.5	2,237.2	2,179.0	58.21	38.436	
9,842.5	7,009.1	6,980.1	6,979.6	58.0	1.7	89.52	-660.5	-273.5	2,276.8	2,217.8	59.02	38.581	
9,900.0	7,008.9	6,980.0	6,979.4	59.1	1.7	89.51	-660.5	-273.5	2,330.6	2,270.5	60.11	38.773	
9,940.9	7,008.8	6,979.9	6,979.3	59.9	1.7	89.50	-660.5	-273.5	2,368.9	2,308.1	60.89	38.905	
10,000.0	7,008.6	6,979.7	6,979.2	61.0	1.7	89.49	-660.5	-273.5	2,424.5	2,362.5	62.02	39.094	
10,039.3	7,008.5	6,979.7	6,979.1	61.7	1.7	89.49	-660.5	-273.5	2,461.6	2,398.8	62.77	39.216	
10,100.0	7,008.3	6,979.5	6,979.0	62.9	1.7	89.48	-660.5	-273.5	2,518.8	2,454.9	63.93	39.401	
10,137.8	7,008.2	6,979.4	6,978.9	63.6	1.7	89.47	-660.5	-273.5	2,554.6	2,489.9	64.65	39.513	
10,200.0	7,008.0	6,979.3	6,978.8	64.8	1.7	89.46	-660.5	-273.5	2,613.6	2,547.8	65.84	39.694	
10,236.2	7,007.9	6,979.2	6,978.7	65.5	1.7	89.46	-660.5	-273.5	2,648.0	2,581.5	66.54	39.796	
10,300.0	7,007.6	6,979.1	6,978.6	66.7	1.7	89.45	-660.5	-273.5	2,708.8	2,641.0	67.76	39.973	
10,334.6	7,007.5	6,979.0	6,978.5	67.3	1.7	89.44	-660.5	-273.5	2,741.8	2,673.4	68.43	40.067	
10,400.0	7,007.3	6,978.9	6,978.4	68.6	1.7	89.43	-660.5	-273.5	2,804.3	2,734.6	69.69	40.240	
10,433.0	7,007.2	6,978.8	6,978.3	69.2	1.7	89.43	-660.5	-273.5	2,835.9	2,765.6	70.32	40.326	
10,500.0	7,007.0	6,978.7	6,978.2	70.5	1.7	89.42	-660.5	-273.5	2,900.0	2,828.4	71.61	40.496	
10,531.5	7,006.9	6,978.6	6,978.1	71.1	1.7	89.41	-660.5	-273.5	2,930.3	2,858.0	72.22	40.574	
10,600.0	7,006.7	6,978.5	6,978.0	72.4	1.7	89.40	-660.5	-273.5	2,996.1	2,922.6	73.54	40.740	
10,629.9	7,006.6	6,978.5	6,977.9	73.0	1.7	89.40	-660.5	-273.5	3,024.9	2,950.8	74.12	40.811	
10,700.0	7,006.4	6,978.3	6,977.8	74.3	1.7	89.39	-660.5	-273.5	3,092.4	3,017.0	75.47	40.973	
10,728.3	7,006.3	6,978.3	6,977.7	74.9	1.7	89.39	-660.5	-273.5	3,119.8	3,043.7	76.02	41.038	
10,800.0	7,006.0	6,978.1	6,977.6	76.3	1.7	89.38	-660.5	-273.5	3,189.0	3,111.6	77.41	41.197	
10,826.7	7,005.9	6,978.1	6,977.5	76.8	1.7	89.37	-660.5	-273.5	3,214.8	3,136.9	77.93	41.255	
10,900.0	7,005.7	6,977.9	6,977.4	78.2	1.7	89.36	-660.5	-273.5	3,285.7	3,206.4	79.34	41.411	
10,925.2	7,005.6	6,977.9	6,977.4	78.7	1.7	89.36	-660.5	-273.5	3,310.1	3,230.3	79.83	41.463	
11,000.0	7,005.4	6,977.8	6,977.2	80.1	1.7	89.35	-660.5	-273.5	3,382.7	3,301.4	81.28	41.616	
11,023.6	7,005.3	6,977.7	6,977.2	80.6	1.7	89.35	-660.5	-273.5	3,405.6	3,323.8	81.74	41.663	
11,100.0	7,005.1	6,977.6	6,977.0	82.0	1.7	89.34	-660.5	-273.5	3,479.8	3,396.6	83.22	41.813	
11,122.0	7,005.0	6,977.6	6,977.0	82.5	1.7	89.33	-660.5	-273.5	3,501.2	3,417.6	83.65	41.855	
11,200.0	7,004.7	6,977.4	6,976.9	84.0	1.7	89.32	-660.5	-273.5	3,577.1	3,491.9	85.17	42.001	
11,220.4	7,004.7	6,977.4	6,976.8	84.4	1.7	89.32	-660.5	-273.5	3,597.0	3,511.4	85.56	42.039	
11,300.0	7,004.4	6,977.2	6,976.7	85.9	1.7	89.31	-660.5	-273.5	3,674.5	3,587.4	87.11	42.183	
11,318.9	7,004.4	6,977.2	6,976.7	86.3	1.7	89.31	-660.5	-273.5	3,692.9	3,605.4	87.48	42.216	
11,400.0	7,004.1	6,977.1	6,976.5	87.8	1.7	89.30	-660.5	-273.5	3,772.0	3,683.0	89.05	42.357	
11,417.3	7,004.0	6,977.0	6,976.5	88.2	1.7	89.30	-660.5	-273.5	3,788.9	3,699.5	89.39	42.386	
11,500.0	7,003.8	6,976.9	6,976.4	89.8	1.7	89.29	-660.5	-273.5	3,869.7	3,778.7	91.00	42.524	
11,515.7	7,003.7	6,976.9	6,976.3	90.1	1.7	89.28	-660.5	-273.5	3,885.1	3,793.8	91.31	42.549	
11,600.0	7,003.4	6,976.8	6,976.2	91.7	1.7	89.27	-660.5	-273.4	3,967.5	3,874.6	92.95	42.685	
11,614.1	7,003.4	6,976.7	6,976.2	92.0	1.7	89.27	-660.5	-273.4	3,981.4	3,888.1	93.23	42.707	
11,700.0	7,003.1	6,976.6	6,976.1	93.7	1.7	89.26	-660.5	-273.4	4,065.4	3,970.5	94.90	42.840	
11,712.6	7,003.1	6,976.6	6,976.0	93.9	1.7	89.26	-660.5	-273.4	4,077.7	3,982.6	95.14	42.859	
11,800.0	7,002.8	6,976.4	6,975.9	95.6	1.7	89.25	-660.5	-273.4	4,163.4	4,066.6	96.85	42.989	
11,811.0	7,002.7	6,976.4	6,975.9	95.8	1.7	89.25	-660.5	-273.4	4,174.2	4,077.1	97.06	43.005	
11,900.0	7,002.5	6,976.3	6,975.7	97.6	1.7	89.24	-660.5	-273.4	4,261.5	4,162.7	98.80	43.132	
11,909.4	7,002.4	6,976.3	6,975.7	97.7	1.7	89.24	-660.5	-273.4	4,270.8	4,171.8	98.99	43.146	
12,000.0	7,002.1	6,976.1	6,975.6	99.5	1.7	89.23	-660.5	-273.4	4,359.7	4,258.9	100.75	43.271	
12,007.8	7,002.1	6,976.1	6,975.6	99.7	1.7	89.23	-660.5	-273.4	4,367.4	4,266.5	100.91	43.281	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,100.0	7,001.8	6,976.0	6,975.4	101.5	1.7	89.22	-660.5	-273.4	4,458.0	4,355.3	102.71	43.404	
12,106.3	7,001.8	6,976.0	6,975.4	101.6	1.7	89.22	-660.5	-273.4	4,464.1	4,361.3	102.83	43.413	
12,200.0	7,001.5	6,975.8	6,975.3	103.4	1.7	89.21	-660.5	-273.4	4,556.3	4,451.6	104.66	43.533	
12,204.7	7,001.5	6,975.8	6,975.3	103.5	1.7	89.20	-660.5	-273.4	4,560.9	4,456.2	104.75	43.539	
12,300.0	7,001.2	6,975.7	6,975.2	105.3	1.7	89.19	-660.5	-273.4	4,654.7	4,548.1	106.62	43.658	
12,303.1	7,001.1	6,975.7	6,975.2	105.4	1.7	89.19	-660.5	-273.4	4,657.8	4,551.1	106.68	43.662	
12,400.0	7,000.8	6,975.6	6,975.0	107.3	1.7	89.18	-660.5	-273.4	4,753.2	4,644.6	108.57	43.778	
12,401.5	7,000.8	6,975.6	6,975.0	107.3	1.7	89.18	-660.5	-273.4	4,754.7	4,646.1	108.60	43.780	
12,500.0	7,000.5	6,975.4	6,974.9	109.3	1.7	89.17	-660.5	-273.4	4,851.7	4,741.2	110.53	43.894	
12,598.4	7,000.2	6,975.3	6,974.8	111.2	1.7	89.16	-660.5	-273.4	4,948.7	4,836.3	112.46	44.005	
12,600.0	7,000.2	6,975.3	6,974.7	111.2	1.7	89.16	-660.5	-273.4	4,950.3	4,837.8	112.49	44.007	
12,696.8	6,999.8	6,975.2	6,974.6	113.1	1.7	89.15	-660.5	-273.4	5,045.8	4,931.4	114.39	44.112	
12,700.0	6,999.8	6,975.2	6,974.6	113.2	1.7	89.15	-660.5	-273.4	5,049.0	4,934.5	114.45	44.116	
12,795.2	6,999.5	6,975.0	6,974.5	115.0	1.7	89.14	-660.5	-273.4	5,143.0	5,026.7	116.31	44.216	
12,800.0	6,999.5	6,975.0	6,974.5	115.1	1.7	89.14	-660.5	-273.4	5,147.7	5,031.3	116.41	44.221	
12,893.7	6,999.2	6,974.9	6,974.4	116.9	1.7	89.13	-660.5	-273.4	5,240.2	5,121.9	118.24	44.317	
12,900.0	6,999.2	6,974.9	6,974.4	117.1	1.7	89.13	-660.5	-273.4	5,246.4	5,128.1	118.37	44.323	
12,992.1	6,998.9	6,974.8	6,974.2	118.9	1.7	89.12	-660.5	-273.4	5,337.4	5,217.2	120.17	44.414	
13,000.0	6,998.8	6,974.8	6,974.2	119.0	1.7	89.12	-660.5	-273.4	5,345.2	5,224.9	120.33	44.422	
13,090.5	6,998.6	6,974.7	6,974.1	120.8	1.7	89.11	-660.5	-273.4	5,434.7	5,312.6	122.10	44.509	
13,100.0	6,998.5	6,974.6	6,974.1	121.0	1.7	89.11	-660.5	-273.4	5,444.1	5,321.8	122.29	44.518	
13,188.9	6,998.2	6,974.5	6,974.0	122.7	1.7	89.10	-660.5	-273.4	5,532.0	5,408.0	124.03	44.601	
13,200.0	6,998.2	6,974.5	6,974.0	122.9	1.7	89.10	-660.5	-273.4	5,543.0	5,418.7	124.25	44.611	
13,287.4	6,997.9	6,974.4	6,973.9	124.6	1.7	89.10	-660.5	-273.4	5,629.4	5,503.4	125.97	44.690	
13,300.0	6,997.9	6,974.4	6,973.9	124.9	1.7	89.09	-660.5	-273.4	5,641.9	5,515.7	126.21	44.701	
13,385.8	6,997.6	6,974.3	6,973.8	126.6	1.7	89.09	-660.5	-273.4	5,726.8	5,598.9	127.90	44.776	
13,400.0	6,997.5	6,974.3	6,973.7	126.9	1.7	89.08	-660.5	-273.4	5,740.8	5,612.7	128.18	44.789	
13,484.2	6,997.3	6,974.2	6,973.6	128.5	1.7	89.08	-660.5	-273.4	5,824.2	5,694.4	129.83	44.860	
13,500.0	6,997.2	6,974.2	6,973.6	128.8	1.7	89.07	-660.5	-273.4	5,839.8	5,709.7	130.14	44.874	
13,582.6	6,996.9	6,974.1	6,973.5	130.4	1.7	89.07	-660.5	-273.4	5,921.7	5,789.9	131.76	44.942	
13,600.0	6,996.9	6,974.1	6,973.5	130.8	1.7	89.07	-660.5	-273.4	5,938.9	5,806.8	132.10	44.956	
13,681.1	6,996.6	6,974.0	6,973.4	132.4	1.7	89.06	-660.5	-273.4	6,019.2	5,885.5	133.70	45.022	
13,700.0	6,996.5	6,973.9	6,973.4	132.7	1.7	89.06	-660.5	-273.4	6,037.9	5,903.9	134.07	45.037	
13,779.5	6,996.3	6,973.9	6,973.3	134.3	1.7	89.05	-660.5	-273.4	6,116.7	5,981.1	135.63	45.099	
13,800.0	6,996.2	6,973.8	6,973.3	134.7	1.7	89.05	-660.5	-273.4	6,137.0	6,001.0	136.03	45.115	
13,877.9	6,995.9	6,973.7	6,973.2	136.2	1.7	89.04	-660.5	-273.4	6,214.3	6,076.7	137.56	45.174	
13,900.0	6,995.9	6,973.7	6,973.2	136.7	1.7	89.04	-660.5	-273.4	6,236.1	6,098.1	138.00	45.191	
13,976.3	6,995.6	6,973.6	6,973.1	138.2	1.7	89.03	-660.5	-273.4	6,311.8	6,172.3	139.50	45.247	
14,000.0	6,995.5	6,973.6	6,973.1	138.6	1.7	89.03	-660.5	-273.4	6,335.3	6,195.3	139.96	45.264	
14,074.8	6,995.3	6,973.5	6,973.0	140.1	1.7	89.02	-660.5	-273.4	6,409.4	6,268.0	141.43	45.318	
14,100.0	6,995.2	6,973.5	6,973.0	140.6	1.7	89.02	-660.5	-273.4	6,434.5	6,292.5	141.93	45.336	
14,162.0	6,995.0	6,973.4	6,972.9	141.8	1.7	89.02	-660.5	-273.4	6,496.0	6,352.9	143.11	45.392	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
0.0	0.0	1.5	1.5	0.0	0.0	137.90	-564.7	510.3	761.1				
98.4	98.4	97.1	97.1	0.1	0.0	137.90	-564.9	510.3	761.3	761.1	0.13	5,854.888	
100.0	100.0	100.0	100.0	0.1	0.0	137.90	-564.9	510.3	761.3	761.1	0.13	5,731.429	
196.8	196.8	198.8	198.8	0.3	0.2	137.92	-565.1	510.3	761.4	760.9	0.48	1,584.812	
200.0	200.0	202.0	202.0	0.3	0.2	137.92	-565.1	510.3	761.4	760.9	0.49	1,550.601	
242.0	242.0	243.5	243.5	0.4	0.2	137.93	-565.2	510.2	761.4	760.8	0.63	1,215.461	
295.3	295.3	296.2	296.2	0.5	0.3	137.94	-565.3	510.1	761.4	760.6	0.80	953.753	
300.0	300.0	300.9	300.9	0.5	0.3	137.94	-565.3	510.1	761.4	760.6	0.81	936.125	
393.7	393.7	395.4	395.4	0.8	0.3	137.96	-565.5	509.9	761.5	760.4	1.09	696.722	
400.0	400.0	401.8	401.8	0.8	0.3	137.96	-565.5	509.9	761.5	760.3	1.11	685.036	
492.1	492.1	495.6	495.6	1.0	0.4	137.97	-565.5	509.7	761.3	759.9	1.38	552.399	
500.0	500.0	503.4	503.4	1.0	0.4	137.97	-565.5	509.6	761.3	759.9	1.40	543.800	
550.0	550.0	551.5	551.5	1.1	0.4	137.99	-565.6	509.5	761.2	759.7	1.53	497.490	
590.5	590.5	590.5	590.5	1.2	0.4	138.00	-565.7	509.4	761.3	759.6	1.64	465.395	
600.0	600.0	600.0	600.0	1.2	0.4	138.00	-565.7	509.4	761.3	759.6	1.66	458.464	
689.0	689.0	687.5	687.5	1.4	0.5	138.03	-566.2	509.3	761.6	759.7	1.91	399.720	
700.0	700.0	698.4	698.4	1.4	0.5	138.03	-566.3	509.3	761.6	759.7	1.94	393.474	
787.4	787.4	782.5	782.5	1.6	0.5	138.06	-566.9	509.4	762.2	760.0	2.17	351.839	
800.0	800.0	794.7	794.7	1.7	0.5	138.06	-567.0	509.5	762.3	760.1	2.20	346.575	
885.8	885.8	882.3	882.3	1.9	0.6	138.08	-567.7	509.7	763.0	760.5	2.43	314.466	
900.0	900.0	896.9	896.9	1.9	0.6	138.09	-567.8	509.7	763.0	760.6	2.46	309.722	
984.2	984.2	982.9	982.9	2.1	0.6	138.14	-568.6	509.5	763.5	760.8	2.69	284.264	
1,000.0	1,000.0	999.0	999.0	2.1	0.6	138.15	-568.8	509.4	763.5	760.8	2.73	279.958	
1,082.7	1,082.7	1,082.9	1,082.9	2.3	0.7	138.23	-569.6	508.7	763.7	760.8	2.95	259.018	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	0.7	138.25	-569.8	508.6	763.7	760.8	2.99	255.035	
1,181.1	1,181.1	1,179.7	1,179.6	2.5	0.7	75.84	-570.6	508.0	763.7	760.5	3.18	240.292	
1,200.0	1,200.0	1,198.1	1,198.1	2.6	0.7	75.90	-570.8	507.8	763.6	760.4	3.23	236.732	
1,279.5	1,279.4	1,275.7	1,275.7	2.7	0.8	76.24	-571.6	507.6	763.1	759.7	3.42	223.032	
1,300.0	1,299.8	1,295.7	1,295.6	2.8	0.8	76.35	-571.8	507.6	763.0	759.5	3.47	219.741	
1,377.9	1,377.5	1,372.8	1,372.8	3.0	0.8	76.87	-572.6	507.7	762.1	758.4	3.67	207.377	
1,400.0	1,399.5	1,394.6	1,394.6	3.0	0.8	77.05	-572.8	507.7	761.7	758.0	3.73	204.098	
1,476.4	1,475.3	1,472.2	1,472.2	3.2	0.8	77.75	-573.3	508.0	760.3	756.4	3.93	193.405	
1,500.0	1,498.7	1,496.3	1,496.2	3.2	0.8	77.99	-573.3	508.2	759.8	755.8	3.99	190.260	
1,574.8	1,572.6	1,573.4	1,573.3	3.5	0.8	78.86	-573.1	508.7	757.7	753.5	4.21	179.880	
1,600.0	1,597.5	1,599.2	1,599.2	3.5	0.8	79.20	-573.1	508.8	756.9	752.6	4.29	176.555	
1,673.2	1,669.4	1,676.0	1,676.0	3.7	0.8	80.31	-572.8	508.7	754.2	749.6	4.53	166.640	
1,700.0	1,695.7	1,703.6	1,703.6	3.8	0.8	80.75	-572.6	508.6	753.0	748.4	4.61	163.209	
1,771.6	1,765.7	1,770.1	1,770.0	4.1	0.9	81.79	-572.3	508.4	750.3	745.4	4.86	154.261	
1,800.0	1,793.4	1,796.4	1,796.3	4.2	0.9	82.21	-572.3	508.3	749.4	744.4	4.96	150.959	
1,870.1	1,862.0	1,868.8	1,868.7	4.4	0.9	83.39	-572.3	507.7	747.2	742.0	5.23	142.782	
1,900.0	1,891.3	1,899.8	1,899.7	4.5	0.9	83.91	-572.3	507.3	746.2	740.9	5.35	139.490	
1,968.5	1,958.3	1,973.1	1,973.0	4.8	0.9	85.15	-572.0	505.9	743.9	738.3	5.63	132.226	
2,000.0	1,989.1	2,005.8	2,005.7	4.9	0.9	85.71	-571.7	505.1	742.7	737.0	5.75	129.093	
2,066.9	2,054.5	2,067.2	2,067.1	5.2	0.9	86.77	-571.3	503.8	740.6	734.6	6.03	122.846	
2,100.0	2,086.9	2,100.0	2,099.9	5.3	0.9	87.33	-571.2	503.1	739.8	733.6	6.17	119.980	
2,165.3	2,150.8	2,161.1	2,161.0	5.6	1.0	88.40	-571.1	501.8	738.5	732.0	6.44	114.634	
2,200.0	2,184.7	2,194.8	2,194.7	5.7	1.0	89.00	-571.1	500.9	737.9	731.3	6.59	111.987	
2,263.8	2,247.1	2,254.6	2,254.4	5.9	1.0	90.08	-571.3	499.4	737.1	730.3	6.86	107.393	
2,300.0	2,282.5	2,288.4	2,288.2	6.1	1.0	90.69	-571.5	498.5	736.9	729.9	7.02	104.973	
2,330.2	2,312.0	2,317.0	2,316.8	6.2	1.0	91.22	-571.7	497.7	736.9	729.7	7.15	103.027	
2,362.2	2,343.4	2,347.5	2,347.3	6.4	1.0	91.78	-572.0	496.8	736.9	729.6	7.29	101.053	
2,400.0	2,380.3	2,383.6	2,383.4	6.5	1.0	92.46	-572.5	495.6	737.1	729.7	7.46	98.834	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						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	2,439.6	2,446.2	2,446.0	6.8	1.1	93.65	-573.2	493.4	737.6	729.9	7.73	95.462	
2,500.0	2,478.1	2,488.2	2,487.9	6.9	1.1	94.44	-573.5	491.9	737.8	729.9	7.90	93.389	
2,559.0	2,535.9	2,550.1	2,549.7	7.2	1.1	95.58	-573.4	489.7	738.1	729.9	8.16	90.439	
2,600.0	2,576.0	2,592.9	2,592.6	7.4	1.1	96.34	-573.1	488.5	738.2	729.9	8.34	88.504	
2,657.5	2,632.2	2,649.6	2,649.3	7.6	1.1	97.34	-572.3	487.0	738.4	729.8	8.59	85.929	
2,700.0	2,673.8	2,691.3	2,690.9	7.8	1.1	98.06	-571.8	486.0	738.7	729.9	8.78	84.143	
2,755.9	2,728.4	2,745.0	2,744.6	8.0	1.1	98.99	-571.0	484.7	739.3	730.3	9.02	81.925	
2,800.0	2,771.6	2,787.2	2,786.8	8.2	1.2	99.73	-570.5	483.7	740.0	730.7	9.22	80.288	
2,854.3	2,824.7	2,840.4	2,839.9	8.4	1.2	100.66	-570.0	482.2	741.0	731.5	9.45	78.385	
2,900.0	2,869.4	2,885.4	2,885.0	8.6	1.2	101.45	-569.4	481.0	742.0	732.3	9.65	76.879	
2,952.7	2,921.0	2,936.6	2,936.2	8.9	1.2	102.33	-568.8	479.7	743.3	733.4	9.88	75.235	
3,000.0	2,967.2	2,982.2	2,981.7	9.1	1.2	103.12	-568.3	478.6	744.6	734.5	10.08	73.853	
3,051.2	3,017.3	3,034.2	3,033.7	9.3	1.2	103.99	-567.6	477.5	746.2	735.9	10.30	72.442	
3,100.0	3,065.0	3,085.2	3,084.7	9.5	1.2	104.82	-566.6	476.7	747.7	737.2	10.51	71.161	
3,149.6	3,113.5	3,133.7	3,133.1	9.7	1.2	105.59	-565.5	476.1	749.2	738.5	10.72	69.908	
3,200.0	3,162.8	3,181.5	3,180.9	9.9	1.3	106.36	-564.5	475.5	751.0	740.0	10.93	68.714	
3,248.0	3,209.8	3,226.2	3,225.6	10.2	1.3	107.07	-563.7	474.8	752.9	741.7	11.13	67.642	
3,300.0	3,260.7	3,274.1	3,273.5	10.4	1.3	107.83	-562.9	474.2	755.3	743.9	11.35	66.560	
3,346.4	3,306.1	3,317.6	3,317.0	10.6	1.3	108.51	-562.4	473.8	757.7	746.2	11.54	65.657	
3,400.0	3,358.5	3,369.2	3,368.6	10.8	1.3	109.32	-561.9	473.1	760.7	749.0	11.76	64.684	
3,444.9	3,402.4	3,412.8	3,412.2	11.0	1.3	110.00	-561.5	472.5	763.4	751.5	11.94	63.918	
3,500.0	3,456.3	3,467.4	3,466.8	11.3	1.3	110.88	-561.0	471.4	766.9	754.7	12.17	63.034	
3,543.3	3,498.6	3,509.7	3,509.1	11.5	1.3	111.56	-560.6	470.3	769.7	757.3	12.34	62.377	
3,600.0	3,554.1	3,562.8	3,562.1	11.7	1.4	112.45	-560.2	468.6	773.6	761.0	12.56	61.575	
3,641.7	3,594.9	3,601.9	3,601.2	11.9	1.4	113.12	-560.1	467.1	776.7	764.0	12.73	61.030	
3,700.0	3,651.9	3,662.1	3,661.4	12.2	1.4	114.13	-559.7	464.7	781.2	768.2	12.95	60.323	
3,740.1	3,691.2	3,703.6	3,702.9	12.3	1.4	114.81	-559.3	463.3	784.2	771.1	13.10	59.853	
3,800.0	3,749.7	3,763.5	3,762.7	12.6	1.4	115.75	-558.5	461.6	788.8	775.5	13.33	59.184	
3,838.6	3,787.5	3,802.1	3,801.3	12.8	1.4	116.32	-557.9	460.9	791.8	778.3	13.47	58.771	
3,900.0	3,847.5	3,859.7	3,858.9	13.0	1.4	117.17	-557.1	459.8	796.8	783.1	13.70	58.143	
3,937.0	3,883.7	3,894.3	3,893.5	13.2	1.5	117.68	-556.7	459.1	800.0	786.1	13.84	57.794	
4,000.0	3,945.4	3,954.7	3,953.8	13.5	1.5	118.57	-556.1	457.8	805.6	791.6	14.07	57.242	
4,035.4	3,980.0	3,988.7	3,987.9	13.7	1.5	119.05	-555.8	457.2	809.0	794.8	14.20	56.951	
4,068.9	4,012.7	4,021.2	4,020.4	13.8	1.5	119.51	-555.6	456.6	812.2	797.8	14.33	56.691	
4,100.0	4,043.2	4,051.7	4,050.8	13.9	1.5	119.98	-555.3	456.1	815.1	800.7	14.42	56.543	
4,133.8	4,076.4	4,084.9	4,084.0	14.0	1.5	120.46	-555.0	455.6	818.2	803.7	14.49	56.463	
4,200.0	4,141.6	4,145.2	4,144.3	14.2	1.5	121.24	-554.7	454.8	823.8	809.2	14.64	56.273	
4,232.3	4,173.4	4,173.9	4,173.1	14.3	1.5	121.58	-554.7	454.5	826.5	811.8	14.70	56.210	
4,300.0	4,240.5	4,240.5	4,239.6	14.5	1.6	122.26	-554.9	453.9	831.8	817.0	14.84	56.056	
4,330.7	4,271.0	4,272.8	4,271.9	14.6	1.6	122.54	-554.9	453.7	833.9	819.0	14.89	55.997	
4,400.0	4,339.9	4,344.6	4,343.7	14.8	1.6	123.07	-554.8	453.3	837.8	822.8	15.02	55.791	
4,429.1	4,368.9	4,374.4	4,373.5	14.8	1.6	123.26	-554.7	453.0	839.1	824.1	15.06	55.712	
4,500.0	4,439.6	4,443.3	4,442.5	15.0	1.6	123.64	-554.3	452.2	841.7	826.5	15.18	55.462	
4,527.5	4,467.1	4,469.4	4,468.5	15.0	1.6	123.75	-554.3	452.0	842.5	827.3	15.21	55.375	
4,600.0	4,539.5	4,541.3	4,540.4	15.1	1.6	123.95	-554.4	451.6	844.0	828.7	15.32	55.094	
4,626.0	4,565.4	4,568.1	4,567.3	15.2	1.6	123.99	-554.3	451.5	844.3	829.0	15.35	54.992	
4,668.9	4,608.4	4,612.5	4,611.6	15.2	1.7	-173.41	-554.3	451.4	844.5	829.0	15.42	54.748	
4,700.0	4,639.5	4,644.6	4,643.7	15.3	1.7	-173.40	-554.2	451.3	844.4	828.9	15.47	54.577	
4,724.4	4,663.9	4,669.8	4,668.9	15.3	1.7	-173.40	-554.1	451.2	844.3	828.8	15.51	54.428	
4,800.0	4,739.5	4,746.5	4,745.6	15.4	1.7	-173.39	-553.7	451.2	843.9	828.3	15.64	53.957	
4,822.8	4,762.3	4,769.4	4,768.5	15.4	1.7	-173.39	-553.5	451.2	843.8	828.1	15.68	53.814	
4,900.0	4,839.5	4,844.5	4,843.6	15.6	1.7	-173.37	-553.2	451.0	843.4	827.6	15.81	53.350	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						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	4,860.7	4,864.7	4,863.8	15.6	1.7	-173.37	-553.1	450.9	843.3	827.5	15.84	53.226	
4,954.6	4,894.1	4,896.5	4,895.6	15.6	1.7	-173.36	-553.0	450.8	843.3	827.4	15.90	53.037	
5,000.0	4,939.5	4,940.2	4,939.3	15.7	1.7	-173.34	-553.1	450.5	843.4	827.4	15.98	52.783	
5,019.7	4,959.1	4,959.2	4,958.3	15.7	1.7	-173.34	-553.1	450.4	843.4	827.4	16.01	52.673	
5,100.0	5,039.5	5,042.0	5,041.1	15.9	1.7	-173.32	-553.3	450.1	843.6	827.5	16.15	52.244	
5,118.1	5,057.6	5,062.0	5,061.1	15.9	1.7	-173.31	-553.3	450.0	843.6	827.4	16.18	52.145	
5,200.0	5,139.5	5,146.8	5,145.9	16.0	1.8	-173.29	-552.8	449.8	843.2	826.8	16.32	51.667	
5,216.5	5,156.0	5,163.0	5,162.1	16.0	1.8	-173.28	-552.7	449.7	843.1	826.7	16.35	51.569	
5,290.9	5,230.4	5,232.8	5,231.9	16.1	1.8	-173.26	-552.4	449.4	842.8	826.3	16.48	51.147	
5,300.0	5,239.5	5,240.9	5,240.0	16.2	1.8	-173.25	-552.4	449.3	842.8	826.3	16.49	51.099	
5,314.9	5,254.4	5,254.2	5,253.3	16.2	1.8	-173.25	-552.4	449.2	842.8	826.3	16.52	51.022	
5,400.0	5,339.5	5,335.1	5,334.1	16.3	1.8	-173.17	-552.8	448.1	843.5	826.8	16.67	50.610	
5,413.4	5,352.8	5,349.0	5,348.0	16.3	1.8	-173.16	-552.9	447.8	843.6	826.9	16.69	50.544	
5,500.0	5,439.5	5,439.5	5,438.6	16.5	1.8	-173.03	-553.2	445.9	844.0	827.2	16.84	50.116	
5,511.8	5,451.3	5,451.9	5,451.0	16.5	1.8	-173.01	-553.2	445.6	844.1	827.2	16.86	50.056	
5,600.0	5,539.5	5,541.9	5,540.9	16.6	1.9	-172.86	-552.9	443.4	844.1	827.1	17.02	49.603	
5,610.2	5,549.7	5,551.9	5,550.9	16.6	1.9	-172.85	-552.9	443.2	844.1	827.0	17.03	49.550	
5,700.0	5,639.5	5,642.6	5,641.6	16.8	1.9	-172.73	-552.7	441.5	844.1	826.9	17.19	49.091	
5,708.6	5,648.1	5,651.6	5,650.6	16.8	1.9	-172.72	-552.7	441.4	844.1	826.9	17.21	49.046	
5,800.0	5,739.5	5,746.5	5,745.5	17.0	1.9	-172.65	-552.3	440.4	843.8	826.4	17.38	48.562	
5,807.1	5,746.5	5,753.9	5,752.9	17.0	1.9	-172.65	-552.2	440.4	843.8	826.4	17.39	48.524	
5,900.0	5,839.5	5,847.0	5,846.0	17.1	1.9	-172.64	-551.6	440.3	843.1	825.6	17.56	48.014	
5,905.5	5,845.0	5,852.4	5,851.4	17.1	1.9	-172.64	-551.5	440.3	843.1	825.5	17.57	47.984	
6,000.0	5,939.5	5,946.8	5,945.8	17.3	2.0	-172.65	-551.1	440.5	842.6	824.9	17.75	47.474	
6,003.9	5,943.4	5,950.9	5,949.9	17.3	2.0	-172.65	-551.1	440.5	842.6	824.9	17.76	47.453	
6,100.0	6,039.5	6,051.0	6,050.0	17.4	2.0	-172.67	-550.3	440.9	841.9	823.9	17.94	46.920	
6,102.3	6,041.8	6,053.4	6,052.4	17.4	2.0	-172.67	-550.3	440.9	841.8	823.9	17.95	46.906	
6,200.0	6,139.5	6,151.7	6,150.7	17.6	2.0	-172.73	-549.2	441.9	840.6	822.5	18.14	46.345	
6,200.8	6,140.2	6,152.5	6,151.5	17.6	2.0	-172.73	-549.2	441.9	840.6	822.5	18.14	46.341	
6,299.2	6,238.7	6,249.7	6,248.7	17.8	2.0	-172.80	-548.3	443.0	839.6	821.3	18.33	45.794	
6,300.0	6,239.5	6,250.5	6,249.5	17.8	2.0	-172.80	-548.3	443.0	839.6	821.3	18.34	45.790	
6,360.9	6,300.4	6,311.7	6,310.7	17.9	2.0	-172.85	-547.8	443.9	839.0	820.5	18.46	45.454	
6,397.6	6,337.1	6,348.2	6,347.1	17.9	2.0	6.93	-547.5	444.4	837.6	819.1	18.50	45.288	
6,400.0	6,339.5	6,350.5	6,349.5	17.9	2.0	6.93	-547.4	444.4	837.5	819.0	18.50	45.270	
6,450.0	6,389.2	6,400.0	6,399.0	18.0	2.0	6.98	-547.0	445.0	832.6	814.0	18.60	44.765	
6,496.0	6,434.7	6,445.3	6,444.3	18.0	1.9	7.06	-546.7	445.8	825.0	806.3	18.71	44.100	
6,500.0	6,438.6	6,449.2	6,448.1	18.0	1.9	7.07	-546.6	445.8	824.2	805.5	18.72	44.036	
6,550.0	6,487.3	6,497.7	6,496.6	18.0	1.9	7.22	-546.3	446.9	812.5	793.6	18.83	43.149	
6,594.5	6,529.8	6,539.3	6,538.2	18.0	1.9	7.40	-546.0	448.0	799.2	780.3	18.91	42.273	
6,600.0	6,535.1	6,544.4	6,543.3	18.1	1.9	7.42	-546.0	448.1	797.4	778.5	18.91	42.160	
6,650.0	6,581.7	6,589.9	6,588.8	18.0	1.9	7.72	-545.8	449.2	779.2	760.2	18.96	41.102	
6,692.9	6,620.6	6,629.3	6,628.2	18.0	1.9	8.04	-545.6	450.2	761.0	742.0	18.96	40.144	
6,700.0	6,626.9	6,635.8	6,634.7	18.0	1.9	8.11	-545.6	450.4	757.8	738.8	18.95	39.981	
6,750.0	6,670.6	6,680.6	6,679.4	18.0	1.9	8.59	-545.4	451.7	733.2	714.3	18.90	38.800	
6,791.3	6,705.4	6,714.3	6,713.1	18.0	1.9	9.08	-545.2	452.9	710.7	691.9	18.81	37.780	
6,800.0	6,712.5	6,720.7	6,719.6	18.0	1.9	9.20	-545.2	453.1	705.7	687.0	18.79	37.563	
6,850.0	6,752.3	6,757.1	6,755.9	18.0	1.9	9.95	-545.1	454.3	675.6	657.0	18.63	36.275	
6,889.7	6,782.5	6,784.8	6,783.6	18.0	1.9	10.70	-545.2	455.2	649.9	631.4	18.46	35.200	
6,900.0	6,790.0	6,791.7	6,790.5	18.0	1.9	10.92	-545.3	455.5	643.0	624.6	18.42	34.917	
6,950.0	6,825.3	6,827.8	6,826.6	18.0	1.9	12.21	-545.5	456.6	608.0	589.8	18.17	33.459	
6,988.2	6,850.5	6,854.4	6,853.2	17.9	1.9	13.46	-545.6	457.6	579.6	561.7	17.97	32.256	
7,000.0	6,858.0	6,862.3	6,861.1	17.9	1.9	13.90	-545.7	458.0	570.6	552.7	17.90	31.871	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
7,050.0	6,888.0	6,893.8	6,892.5	18.0	1.9	16.13	-545.7	459.3	531.0	513.3	17.63	30.120	
7,086.6	6,908.1	6,913.4	6,912.1	18.0	1.9	18.17	-545.8	460.3	500.7	483.3	17.43	28.725	
7,100.0	6,915.1	6,920.0	6,918.7	18.0	1.9	19.03	-545.8	460.6	489.4	472.1	17.38	28.161	
7,150.0	6,939.2	6,943.1	6,941.7	18.0	1.9	22.97	-545.9	461.6	446.3	429.1	17.21	25.928	
7,185.0	6,954.3	6,957.6	6,956.3	18.1	1.9	26.61	-546.0	462.3	415.3	398.1	17.19	24.159	
7,200.0	6,960.3	6,963.4	6,962.0	18.1	1.9	28.45	-546.1	462.6	401.8	384.6	17.21	23.343	
7,250.0	6,978.1	6,980.9	6,979.5	18.3	1.9	36.10	-546.3	463.4	356.2	338.7	17.48	20.378	
7,283.4	6,988.2	6,990.9	6,989.5	18.4	1.9	42.77	-546.4	463.9	325.2	307.4	17.83	18.240	
7,300.0	6,992.6	6,995.4	6,994.0	18.4	1.9	46.56	-546.5	464.1	309.8	291.8	18.04	17.176	
7,350.0	7,003.7	7,000.0	6,998.6	18.7	1.9	56.43	-546.5	464.3	263.2	244.6	18.59	14.161	
7,381.9	7,009.1	7,000.0	6,998.6	18.9	1.9	61.75	-546.5	464.3	233.7	214.8	18.88	12.380	
7,400.0	7,011.4	7,000.0	6,998.6	19.0	1.9	64.69	-546.5	464.3	217.1	198.1	19.03	11.412	
7,450.0	7,015.7	7,000.0	6,998.6	19.3	1.9	72.11	-546.5	464.3	172.5	153.0	19.41	8.885	
7,480.3	7,016.6	7,000.0	6,998.6	19.6	1.9	75.85	-546.5	464.3	146.8	127.1	19.65	7.470	
7,488.2	7,016.6	7,000.0	6,998.6	19.6	1.9	76.71	-546.5	464.3	140.3	120.6	19.71	7.121	
7,500.0	7,016.6	7,000.0	6,998.6	19.7	1.9	76.71	-546.5	464.3	131.0	111.2	19.82	6.610	
7,578.7	7,016.3	7,000.0	6,998.6	20.5	1.9	76.71	-546.5	464.3	86.2	65.6	20.62	4.179	
7,600.0	7,016.2	7,000.0	6,998.6	20.7	1.9	76.71	-546.5	464.3	83.2	62.4	20.84	3.993	
7,601.2	7,016.2	7,000.0	6,998.6	20.7	1.9	76.71	-546.5	464.3	83.2	62.3	20.85	3.990 CC, ES, SF	
7,677.1	7,016.0	7,000.0	6,998.6	21.6	1.9	76.71	-546.5	464.3	112.6	90.9	21.72	5.185	
7,700.0	7,015.9	7,000.0	6,998.6	21.8	1.9	76.71	-546.5	464.3	129.2	107.2	21.99	5.874	
7,775.6	7,015.7	7,000.0	6,998.6	22.7	1.9	76.71	-546.5	464.3	193.2	170.3	22.94	8.421	
7,800.0	7,015.6	7,000.0	6,998.6	23.0	1.9	76.71	-546.5	464.3	215.5	192.2	23.25	9.268	
7,874.0	7,015.4	7,000.0	6,998.6	24.0	1.9	76.71	-546.5	464.3	285.2	260.9	24.26	11.756	
7,900.0	7,015.3	7,000.0	6,998.6	24.4	1.9	76.71	-546.5	464.3	310.2	285.5	24.61	12.601	
7,972.4	7,015.1	7,000.0	6,998.6	25.4	1.9	76.71	-546.5	464.3	380.4	354.8	25.66	14.827	
8,000.0	7,015.0	7,000.0	6,998.6	25.8	1.9	76.71	-546.5	464.3	407.4	381.3	26.06	15.635	
8,070.8	7,014.8	7,000.0	6,998.6	26.8	1.9	76.71	-546.5	464.3	477.0	449.8	27.12	17.584	
8,100.0	7,014.7	7,000.0	6,998.6	27.3	1.9	76.71	-546.5	464.3	505.7	478.1	27.56	18.346	
8,169.3	7,014.4	7,000.0	6,998.6	28.3	1.9	76.71	-546.5	464.3	574.1	545.5	28.65	20.041	
8,200.0	7,014.4	7,000.0	6,998.6	28.8	1.9	76.70	-546.5	464.3	604.5	575.4	29.13	20.755	
8,267.7	7,014.1	7,000.0	6,998.6	29.9	1.9	76.70	-546.5	464.3	671.7	641.4	30.22	22.227	
8,300.0	7,014.0	7,000.0	6,998.6	30.4	1.9	76.70	-546.5	464.3	703.7	673.0	30.74	22.894	
8,366.1	7,013.8	7,000.0	6,998.6	31.5	1.9	76.70	-546.5	464.3	769.4	737.6	31.83	24.175	
8,400.0	7,013.7	7,000.0	6,998.6	32.0	1.9	76.70	-546.5	464.3	803.1	770.7	32.39	24.798	
8,464.5	7,013.5	7,000.0	6,998.6	33.1	1.9	76.70	-546.5	464.3	867.3	833.9	33.47	25.913	
8,500.0	7,013.4	7,000.0	6,998.6	33.7	1.9	76.70	-546.5	464.3	902.6	868.6	34.07	26.496	
8,563.0	7,013.2	7,000.0	6,998.6	34.8	1.9	76.70	-546.5	464.3	965.4	930.2	35.14	27.470	
8,600.0	7,013.1	7,000.0	6,998.6	35.4	1.9	76.70	-546.5	464.3	1,002.2	966.5	35.77	28.016	
8,661.4	7,012.9	7,000.0	6,998.6	36.5	1.9	76.70	-546.5	464.3	1,063.4	1,026.6	36.84	28.868	
8,700.0	7,012.8	7,000.0	6,998.6	37.1	1.9	76.70	-546.5	464.3	1,101.9	1,064.4	37.51	29.380	
8,759.8	7,012.6	7,000.0	6,998.6	38.2	1.9	76.70	-546.5	464.3	1,161.6	1,123.0	38.55	30.129	
8,800.0	7,012.4	7,000.0	6,998.6	38.9	1.9	76.69	-546.5	464.3	1,201.7	1,162.4	39.26	30.610	
8,858.2	7,012.3	7,000.0	6,998.6	39.9	1.9	76.69	-546.5	464.3	1,259.8	1,219.5	40.29	31.269	
8,900.0	7,012.1	7,000.0	6,998.6	40.7	1.9	76.69	-546.5	464.3	1,301.5	1,260.4	41.03	31.722	
8,956.7	7,011.9	7,000.0	6,998.6	41.7	1.9	76.69	-546.5	464.3	1,358.0	1,316.0	42.04	32.305	
9,000.0	7,011.8	7,000.0	6,998.6	42.4	1.9	76.69	-546.5	464.3	1,401.3	1,358.5	42.81	32.732	
9,055.1	7,011.6	7,000.0	6,998.6	43.4	1.9	76.69	-546.5	464.3	1,456.3	1,412.5	43.80	33.247	
9,100.0	7,011.5	7,000.0	6,998.6	44.2	1.9	76.68	-546.5	464.3	1,501.1	1,456.5	44.61	33.651	
9,153.5	7,011.3	7,000.0	6,998.6	45.2	1.9	76.68	-546.5	464.3	1,554.5	1,509.0	45.58	34.109	
9,200.0	7,011.2	7,000.0	6,998.6	46.1	1.9	76.68	-546.5	464.3	1,601.0	1,554.5	46.42	34.491	
9,251.9	7,011.0	7,000.0	6,998.6	47.0	1.9	76.68	-546.5	464.3	1,652.8	1,605.5	47.36	34.898	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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						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	
9,300.0	7,010.9	7,000.0	6,998.6	47.9	1.9	76.68	-546.5	464.3	1,700.8	1,652.6	48.23	35.261	
9,350.4	7,010.7	7,000.0	6,998.6	48.8	1.9	76.68	-546.5	464.3	1,751.1	1,702.0	49.16	35.624	
9,400.0	7,010.5	7,000.0	6,998.6	49.7	1.9	76.67	-546.5	464.3	1,800.7	1,750.6	50.06	35.969	
9,448.8	7,010.4	7,000.0	6,998.6	50.6	1.9	76.67	-546.5	464.3	1,849.5	1,798.5	50.96	36.294	
9,500.0	7,010.2	7,000.0	6,998.6	51.6	1.9	76.67	-546.5	464.3	1,900.6	1,848.7	51.90	36.622	
9,547.2	7,010.1	7,000.0	6,998.6	52.5	1.9	76.67	-546.5	464.3	1,947.8	1,895.0	52.77	36.912	
9,600.0	7,009.9	7,000.0	6,998.6	53.5	1.9	76.67	-546.5	464.3	2,000.5	1,946.8	53.74	37.226	
9,645.6	7,009.8	7,000.0	6,998.6	54.3	1.9	76.67	-546.5	464.3	2,046.1	1,991.5	54.58	37.485	
9,700.0	7,009.6	7,000.0	6,998.6	55.3	1.9	76.66	-546.5	464.3	2,100.4	2,044.8	55.59	37.785	
9,744.1	7,009.4	7,000.0	6,998.6	56.2	1.9	76.66	-546.5	464.3	2,144.5	2,088.1	56.41	38.018	
9,800.0	7,009.3	7,000.0	6,998.6	57.2	1.9	76.66	-546.5	464.3	2,200.4	2,142.9	57.44	38.304	
9,842.5	7,009.1	7,000.0	6,998.6	58.0	1.9	76.66	-546.5	464.3	2,242.8	2,184.6	58.23	38.514	
9,900.0	7,008.9	7,000.0	6,998.6	59.1	1.9	76.65	-546.5	464.3	2,300.3	2,241.0	59.30	38.788	
9,940.9	7,008.8	7,000.0	6,998.6	59.9	1.9	76.65	-546.5	464.3	2,341.2	2,281.1	60.07	38.976	
10,000.0	7,008.6	7,000.0	6,998.6	61.0	1.9	76.65	-546.5	464.3	2,400.2	2,339.1	61.17	39.240	
10,039.3	7,008.5	7,000.0	6,998.6	61.7	1.9	76.65	-546.5	464.3	2,439.6	2,377.7	61.90	39.409	
10,100.0	7,008.3	7,000.0	6,998.6	62.9	1.9	76.64	-546.5	464.3	2,500.2	2,437.1	63.04	39.662	
10,137.8	7,008.2	7,000.0	6,998.6	63.6	1.9	76.64	-546.5	464.3	2,537.9	2,474.2	63.74	39.814	
10,200.0	7,008.0	7,000.0	6,998.6	64.8	1.9	76.64	-546.5	464.3	2,600.1	2,535.2	64.91	40.058	
10,236.2	7,007.9	7,000.0	6,998.6	65.5	1.9	76.64	-546.5	464.3	2,636.3	2,570.7	65.59	40.195	
10,300.0	7,007.6	7,000.0	6,998.6	66.7	1.9	76.63	-546.5	464.3	2,700.1	2,633.3	66.78	40.430	
10,334.6	7,007.5	7,000.0	6,998.6	67.3	1.9	76.63	-546.5	464.3	2,734.7	2,667.2	67.44	40.553	
10,400.0	7,007.3	7,000.0	6,998.6	68.6	1.9	76.62	-546.5	464.3	2,800.0	2,731.4	68.66	40.779	
10,433.0	7,007.2	7,000.0	6,998.6	69.2	1.9	76.62	-546.5	464.3	2,833.1	2,763.8	69.29	40.890	
10,500.0	7,007.0	7,000.0	6,998.6	70.5	1.9	76.62	-546.5	464.3	2,900.0	2,829.4	70.54	41.108	
10,531.5	7,006.9	7,000.0	6,998.6	71.1	1.9	76.62	-546.5	464.3	2,931.4	2,860.3	71.14	41.208	
10,600.0	7,006.7	7,000.0	6,998.6	72.4	1.9	76.61	-546.5	464.3	2,999.9	2,927.5	72.43	41.419	
10,629.9	7,006.6	7,000.0	6,998.6	73.0	1.9	76.61	-546.5	464.3	3,029.8	2,956.8	72.99	41.508	
10,700.0	7,006.4	7,000.0	6,998.6	74.3	1.9	76.61	-546.5	464.3	3,099.9	3,025.6	74.32	41.713	
10,728.3	7,006.3	7,000.0	6,998.6	74.9	1.9	76.61	-546.5	464.3	3,128.2	3,053.4	74.85	41.793	
10,800.0	7,006.0	7,000.0	6,998.6	76.3	1.9	76.60	-546.5	464.3	3,199.9	3,123.7	76.20	41.991	
10,826.7	7,005.9	7,000.0	6,998.6	76.8	1.9	76.60	-546.5	464.3	3,226.6	3,149.9	76.71	42.062	
10,900.0	7,005.7	7,000.0	6,998.6	78.2	1.9	76.59	-546.5	464.3	3,299.8	3,221.7	78.10	42.254	
10,925.2	7,005.6	7,000.0	6,998.6	78.7	1.9	76.59	-546.5	464.3	3,325.0	3,246.4	78.57	42.318	
11,000.0	7,005.4	7,000.0	6,998.6	80.1	1.9	76.59	-546.5	464.3	3,399.8	3,319.8	79.99	42.504	
11,023.6	7,005.3	7,000.0	6,998.6	80.6	1.9	76.59	-546.5	464.3	3,423.4	3,343.0	80.44	42.561	
11,100.0	7,005.1	7,000.0	6,998.6	82.0	1.9	76.58	-546.5	464.3	3,499.8	3,417.9	81.88	42.742	
11,122.0	7,005.0	7,000.0	6,998.6	82.5	1.9	76.58	-546.5	464.3	3,521.8	3,439.5	82.30	42.792	
11,200.0	7,004.7	7,000.0	6,998.6	84.0	1.9	76.57	-546.5	464.3	3,599.8	3,516.0	83.78	42.968	
11,220.4	7,004.7	7,000.0	6,998.6	84.4	1.9	76.57	-546.5	464.3	3,620.2	3,536.0	84.17	43.012	
11,300.0	7,004.4	7,000.0	6,998.6	85.9	1.9	76.56	-546.5	464.3	3,699.7	3,614.1	85.68	43.183	
11,318.9	7,004.4	7,000.0	6,998.6	86.3	1.9	76.56	-546.5	464.3	3,718.6	3,632.6	86.03	43.222	
11,400.0	7,004.1	7,000.0	6,998.6	87.8	1.9	76.55	-546.5	464.3	3,799.7	3,712.1	87.57	43.388	
11,417.3	7,004.0	7,000.0	6,998.6	88.2	1.9	76.55	-546.5	464.3	3,817.0	3,729.1	87.90	43.423	
11,500.0	7,003.8	7,000.0	6,998.6	89.8	1.9	76.55	-546.5	464.3	3,899.7	3,810.2	89.47	43.584	
11,515.7	7,003.7	7,000.0	6,998.6	90.1	1.9	76.55	-546.5	464.3	3,915.4	3,825.6	89.77	43.614	
11,600.0	7,003.4	7,000.0	6,998.6	91.7	1.9	76.54	-546.5	464.3	3,999.7	3,908.3	91.38	43.772	
11,614.1	7,003.4	7,000.0	6,998.6	92.0	1.9	76.54	-546.5	464.3	4,013.8	3,922.2	91.64	43.797	
11,700.0	7,003.1	7,000.0	6,998.6	93.7	1.9	76.53	-546.5	464.3	4,099.6	4,006.4	93.28	43.951	
11,712.6	7,003.1	7,000.0	6,998.6	93.9	1.9	76.53	-546.5	464.3	4,112.2	4,018.7	93.52	43.973	
11,800.0	7,002.8	7,000.0	6,998.6	95.6	1.9	76.52	-546.5	464.3	4,199.6	4,104.4	95.18	44.123	
11,811.0	7,002.7	7,000.0	6,998.6	95.8	1.9	76.52	-546.5	464.3	4,210.6	4,115.2	95.39	44.141	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
11,900.0	7,002.5	7,000.0	6,998.6	97.6	1.9	76.51	-546.5	464.3	4,299.6	4,202.5	97.08	44.287	
11,909.4	7,002.4	7,000.0	6,998.6	97.7	1.9	76.51	-546.5	464.3	4,309.0	4,211.8	97.26	44.302	
12,000.0	7,002.1	7,000.0	6,998.6	99.5	1.9	76.50	-546.5	464.3	4,399.6	4,300.6	98.99	44.445	
12,007.8	7,002.1	7,000.0	6,998.6	99.7	1.9	76.50	-546.5	464.3	4,407.4	4,308.3	99.14	44.457	
12,100.0	7,001.8	7,000.0	6,998.6	101.5	1.9	76.49	-546.5	464.3	4,499.6	4,398.7	100.89	44.597	
12,106.3	7,001.8	7,000.0	6,998.6	101.6	1.9	76.49	-546.5	464.3	4,505.8	4,404.8	101.01	44.606	
12,200.0	7,001.5	7,000.0	6,998.6	103.4	1.9	76.48	-546.5	464.3	4,599.5	4,496.7	102.80	44.742	
12,204.7	7,001.5	7,000.0	6,998.6	103.5	1.9	76.48	-546.5	464.3	4,604.2	4,501.4	102.89	44.749	
12,300.0	7,001.2	7,000.0	6,998.6	105.3	1.9	76.47	-546.5	464.3	4,699.5	4,594.8	104.71	44.882	
12,303.1	7,001.1	7,000.0	6,998.6	105.4	1.9	76.47	-546.5	464.3	4,702.7	4,597.9	104.77	44.887	
12,400.0	7,000.8	7,000.0	6,998.6	107.3	1.9	76.46	-546.5	464.3	4,799.5	4,692.9	106.62	45.017	
12,401.5	7,000.8	7,000.0	6,998.6	107.3	1.9	76.46	-546.5	464.3	4,801.1	4,694.4	106.64	45.019	
12,500.0	7,000.5	7,000.0	6,998.6	109.3	1.9	76.45	-546.5	464.3	4,899.5	4,791.0	108.52	45.147	
12,598.4	7,000.2	7,000.0	6,998.6	111.2	1.9	76.45	-546.5	464.3	4,997.9	4,887.5	110.40	45.269	
12,600.0	7,000.2	7,000.0	6,998.6	111.2	1.9	76.44	-546.5	464.3	4,999.5	4,889.1	110.43	45.272	
12,696.8	6,999.8	7,000.0	6,998.6	113.1	1.9	76.44	-546.5	464.3	5,096.3	4,984.0	112.28	45.388	
12,700.0	6,999.8	7,000.0	6,998.6	113.2	1.9	76.43	-546.5	464.3	5,099.5	4,987.1	112.34	45.393	
12,795.2	6,999.5	7,000.0	6,998.6	115.0	1.9	76.43	-546.5	464.3	5,194.7	5,080.5	114.16	45.502	
12,800.0	6,999.5	7,000.0	6,998.6	115.1	1.9	76.42	-546.5	464.3	5,199.5	5,085.2	114.25	45.509	
12,893.7	6,999.2	7,000.0	6,998.6	116.9	1.9	76.42	-546.5	464.3	5,293.1	5,177.1	116.04	45.613	
12,900.0	6,999.2	7,000.0	6,998.6	117.1	1.9	76.41	-546.5	464.3	5,299.4	5,183.3	116.16	45.622	
12,992.1	6,998.9	7,000.0	6,998.6	118.9	1.9	76.41	-546.5	464.3	5,391.5	5,273.6	117.92	45.721	
13,000.0	6,998.8	7,000.0	6,998.6	119.0	1.9	76.40	-546.5	464.3	5,399.4	5,281.4	118.07	45.731	
13,090.5	6,998.6	7,000.0	6,998.6	120.8	1.9	76.40	-546.5	464.3	5,489.9	5,370.1	119.80	45.825	
13,100.0	6,998.5	7,000.0	6,998.6	121.0	1.9	76.39	-546.5	464.3	5,499.4	5,379.4	119.98	45.836	
13,188.9	6,998.2	7,000.0	6,998.6	122.7	1.9	76.39	-546.5	464.3	5,588.4	5,466.7	121.68	45.925	
13,200.0	6,998.2	7,000.0	6,998.6	122.9	1.9	76.37	-546.5	464.3	5,599.4	5,477.5	121.89	45.938	
13,287.4	6,997.9	7,000.0	6,998.6	124.6	1.9	76.37	-546.5	464.3	5,686.8	5,563.2	123.57	46.022	
13,300.0	6,997.9	7,000.0	6,998.6	124.9	1.9	76.36	-546.5	464.3	5,699.4	5,575.6	123.80	46.036	
13,385.8	6,997.6	7,000.0	6,998.6	126.6	1.9	76.36	-546.5	464.3	5,785.2	5,659.7	125.45	46.117	
13,400.0	6,997.5	7,000.0	6,998.6	126.9	1.9	76.35	-546.5	464.3	5,799.4	5,673.7	125.71	46.132	
13,484.2	6,997.3	7,000.0	6,998.6	128.5	1.9	76.35	-546.5	464.3	5,883.6	5,756.3	127.33	46.208	
13,500.0	6,997.2	7,000.0	6,998.6	128.8	1.9	76.34	-546.5	464.3	5,899.4	5,771.8	127.63	46.224	
13,582.6	6,996.9	7,000.0	6,998.6	130.4	1.9	76.34	-546.5	464.3	5,982.0	5,852.8	129.21	46.297	
13,600.0	6,996.9	7,000.0	6,998.6	130.8	1.9	76.32	-546.5	464.3	5,999.4	5,869.8	129.54	46.314	
13,681.1	6,996.6	7,000.0	6,998.6	132.4	1.9	76.32	-546.5	464.3	6,080.4	5,949.3	131.09	46.383	
13,700.0	6,996.5	7,000.0	6,998.6	132.7	1.9	76.31	-546.5	464.3	6,099.4	5,967.9	131.45	46.401	
13,779.5	6,996.3	7,000.0	6,998.6	134.3	1.9	76.31	-546.5	464.3	6,178.9	6,045.9	132.97	46.467	
13,800.0	6,996.2	7,000.0	6,998.6	134.7	1.9	76.30	-546.5	464.3	6,199.3	6,066.0	133.36	46.486	
13,877.9	6,995.9	7,000.0	6,998.6	136.2	1.9	76.30	-546.5	464.3	6,277.3	6,142.4	134.85	46.548	
13,900.0	6,995.9	7,000.0	6,998.6	136.7	1.9	76.28	-546.5	464.3	6,299.3	6,164.1	135.27	46.568	
13,976.3	6,995.6	7,000.0	6,998.6	138.2	1.9	76.28	-546.5	464.3	6,375.7	6,238.9	136.74	46.627	
14,000.0	6,995.5	7,000.0	6,998.6	138.6	1.9	76.27	-546.5	464.3	6,399.3	6,262.1	137.18	46.648	
14,074.8	6,995.3	7,000.0	6,998.6	140.1	1.9	76.27	-546.5	464.3	6,474.1	6,335.5	138.62	46.704	
14,100.0	6,995.2	7,000.0	6,998.6	140.6	1.9	76.26	-546.5	464.3	6,499.3	6,360.2	139.10	46.725	
14,162.0	6,995.0	7,000.0	6,998.6	141.8	1.9	76.25	-546.5	464.3	6,561.3	6,421.1	140.24	46.785	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	-156.99	-1,595.7	-677.6	1,733.7					
98.4	98.4	74.7	74.7	0.1	0.0	-156.99	-1,595.6	-677.8	1,733.6	1,733.4	0.14	N/A		
100.0	100.0	76.2	76.2	0.1	0.0	-156.99	-1,595.6	-677.8	1,733.6	1,733.4	0.14	N/A		
196.8	196.8	161.5	161.5	0.3	0.1	-156.97	-1,595.7	-678.2	1,733.9	1,733.5	0.44	3,917.125		
200.0	200.0	164.2	164.2	0.3	0.1	-156.97	-1,595.7	-678.2	1,733.9	1,733.5	0.45	3,831.394		
295.3	295.3	263.6	263.6	0.5	0.2	-156.97	-1,596.5	-678.6	1,734.8	1,734.0	0.77	2,257.732		
300.0	300.0	269.2	269.2	0.5	0.2	-156.97	-1,596.6	-678.6	1,734.8	1,734.0	0.78	2,210.845		
393.7	393.7	370.9	370.9	0.8	0.3	-156.96	-1,596.6	-678.9	1,735.0	1,733.9	1.05	1,650.522		
400.0	400.0	377.4	377.4	0.8	0.3	-156.96	-1,596.6	-678.9	1,735.0	1,733.9	1.07	1,625.051		
427.6	427.6	405.5	405.5	0.8	0.3	-156.95	-1,596.5	-679.2	1,735.0	1,733.8	1.14	1,520.667		
492.1	492.1	465.8	465.8	1.0	0.4	-156.94	-1,596.3	-679.7	1,735.0	1,733.7	1.32	1,312.577		
500.0	500.0	473.2	473.2	1.0	0.4	-156.93	-1,596.3	-679.7	1,735.0	1,733.7	1.34	1,291.026		
590.5	590.5	566.1	566.1	1.2	0.4	-156.92	-1,596.3	-680.3	1,735.3	1,733.7	1.60	1,085.840		
600.0	600.0	576.2	576.2	1.2	0.4	-156.91	-1,596.3	-680.4	1,735.3	1,733.7	1.62	1,068.107		
689.0	689.0	661.9	661.9	1.4	0.5	-156.89	-1,596.1	-681.1	1,735.4	1,733.5	1.87	929.324		
700.0	700.0	672.2	672.2	1.4	0.5	-156.89	-1,596.1	-681.2	1,735.4	1,733.5	1.90	914.753		
787.4	787.4	767.2	767.2	1.6	0.5	-156.86	-1,596.0	-681.9	1,735.6	1,733.5	2.13	813.216		
800.0	800.0	781.9	781.9	1.7	0.5	-156.86	-1,595.9	-682.0	1,735.6	1,733.4	2.17	800.360		
858.1	858.1	835.5	835.5	1.8	0.5	-156.84	-1,595.6	-682.5	1,735.4	1,733.1	2.32	748.290		
885.8	885.8	858.5	858.5	1.9	0.6	-156.84	-1,595.6	-682.7	1,735.5	1,733.1	2.39	726.228		
900.0	900.0	870.3	870.3	1.9	0.6	-156.83	-1,595.5	-682.8	1,735.5	1,733.1	2.43	715.442		
984.2	984.2	948.8	948.8	2.1	0.6	-156.81	-1,595.8	-683.7	1,736.1	1,733.5	2.65	656.087		
1,000.0	1,000.0	964.7	964.6	2.1	0.6	-156.80	-1,595.8	-683.9	1,736.2	1,733.5	2.69	645.888		
1,082.7	1,082.7	1,049.2	1,049.1	2.3	0.6	-156.78	-1,596.1	-684.6	1,736.8	1,733.9	2.91	597.546		
1,100.0	1,100.0	1,067.1	1,067.1	2.3	0.6	-156.78	-1,596.2	-684.8	1,736.9	1,734.0	2.95	588.379		
1,181.1	1,181.1	1,148.2	1,148.2	2.5	0.7	140.66	-1,596.6	-685.1	1,738.3	1,735.1	3.17	549.113		
1,200.0	1,200.0	1,166.7	1,166.6	2.6	0.7	140.67	-1,596.7	-685.1	1,738.8	1,735.6	3.21	540.940		
1,279.5	1,279.4	1,244.9	1,244.8	2.7	0.7	140.70	-1,597.2	-685.2	1,742.4	1,738.9	3.42	509.311		
1,300.0	1,299.8	1,265.1	1,265.1	2.8	0.7	140.71	-1,597.3	-685.3	1,743.6	1,740.1	3.47	501.799		
1,377.9	1,377.5	1,347.1	1,347.1	3.0	0.8	140.79	-1,597.8	-685.5	1,749.1	1,745.4	3.68	474.895		
1,400.0	1,399.5	1,371.5	1,371.5	3.0	0.8	140.82	-1,597.9	-685.6	1,750.9	1,747.2	3.74	467.965		
1,476.4	1,475.3	1,451.7	1,451.7	3.2	0.8	140.93	-1,597.9	-685.9	1,758.0	1,754.1	3.95	445.120		
1,500.0	1,498.7	1,475.8	1,475.8	3.2	0.8	140.97	-1,597.8	-686.0	1,760.5	1,756.5	4.01	438.669		
1,574.8	1,572.6	1,555.0	1,554.9	3.5	0.8	141.12	-1,597.6	-686.4	1,769.3	1,765.1	4.23	418.674		
1,600.0	1,597.5	1,582.1	1,582.0	3.5	0.8	141.18	-1,597.4	-686.6	1,772.6	1,768.3	4.30	412.570		
1,673.2	1,669.4	1,649.2	1,649.1	3.7	0.9	141.33	-1,596.9	-687.2	1,783.1	1,778.5	4.52	394.778		
1,700.0	1,695.7	1,672.4	1,672.4	3.8	0.9	141.37	-1,596.8	-687.4	1,787.3	1,782.7	4.60	388.870		
1,771.6	1,765.7	1,735.6	1,735.5	4.1	0.9	141.66	-1,596.7	-688.0	1,799.3	1,794.5	4.82	373.450		
1,800.0	1,793.4	1,760.9	1,760.9	4.2	0.9	141.77	-1,596.6	-688.3	1,804.1	1,799.2	4.91	367.772		
1,870.1	1,862.0	1,825.3	1,825.3	4.4	0.9	142.07	-1,596.6	-689.4	1,816.1	1,811.0	5.13	353.906		
1,900.0	1,891.3	1,854.2	1,854.1	4.5	0.9	142.21	-1,596.6	-690.0	1,821.3	1,816.1	5.23	348.539		
1,968.5	1,958.3	1,921.5	1,921.4	4.8	1.0	142.53	-1,596.4	-691.7	1,833.2	1,827.8	5.45	336.417		
2,000.0	1,989.1	1,953.8	1,953.7	4.9	1.0	142.68	-1,596.3	-692.4	1,838.7	1,833.2	5.55	331.223		
2,066.9	2,054.5	2,030.1	2,030.0	5.2	1.0	143.03	-1,596.1	-693.9	1,850.3	1,844.5	5.77	320.682		
2,100.0	2,086.9	2,075.4	2,075.2	5.3	1.0	143.23	-1,595.6	-694.6	1,855.7	1,849.9	5.87	315.884		
2,165.3	2,150.8	2,138.3	2,138.2	5.6	1.0	143.51	-1,594.6	-695.4	1,866.2	1,860.1	6.09	306.685		
2,200.0	2,184.7	2,166.4	2,166.2	5.7	1.0	143.63	-1,594.3	-695.8	1,871.9	1,865.7	6.20	302.097		
2,263.8	2,247.1	2,226.0	2,225.8	5.9	1.1	143.89	-1,593.9	-696.7	1,882.7	1,876.3	6.41	293.895		
2,300.0	2,282.5	2,268.5	2,268.4	6.1	1.1	144.07	-1,593.4	-697.3	1,888.8	1,882.2	6.53	289.397		
2,362.2	2,343.4	2,332.5	2,332.4	6.4	1.1	144.35	-1,592.5	-698.2	1,898.9	1,892.2	6.73	282.091		
2,400.0	2,380.3	2,367.3	2,367.1	6.5	1.1	144.49	-1,592.1	-698.6	1,905.2	1,898.3	6.86	277.913		
2,460.6	2,439.6	2,425.7	2,425.5	6.8	1.1	144.74	-1,591.4	-699.4	1,915.3	1,908.2	7.06	271.354		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
2,500.0	2,478.1	2,466.3	2,466.1	6.9	1.1	144.91	-1,590.9	-700.0	1,921.8	1,914.6	7.19	267.324	
2,559.0	2,535.9	2,525.5	2,525.3	7.2	1.2	145.16	-1,590.0	-700.8	1,931.6	1,924.2	7.39	261.551	
2,600.0	2,576.0	2,565.3	2,565.0	7.4	1.2	145.32	-1,589.4	-701.4	1,938.4	1,930.9	7.52	257.747	
2,657.5	2,632.2	2,620.3	2,620.1	7.6	1.2	145.55	-1,588.6	-702.2	1,948.0	1,940.3	7.71	252.600	
2,700.0	2,673.8	2,660.3	2,660.0	7.8	1.2	145.71	-1,588.1	-702.8	1,955.1	1,947.3	7.85	248.959	
2,755.9	2,728.4	2,714.5	2,714.3	8.0	1.2	145.92	-1,587.5	-703.4	1,964.6	1,956.5	8.04	244.359	
2,800.0	2,771.6	2,761.7	2,761.4	8.2	1.2	146.11	-1,586.8	-704.1	1,972.0	1,963.8	8.19	240.898	
2,854.3	2,824.7	2,815.9	2,815.6	8.4	1.3	146.33	-1,585.9	-705.0	1,981.1	1,972.7	8.37	236.785	
2,900.0	2,869.4	2,855.1	2,854.8	8.6	1.3	146.49	-1,585.3	-705.7	1,988.8	1,980.3	8.52	233.483	
2,952.7	2,921.0	2,900.5	2,900.2	8.9	1.3	146.67	-1,584.7	-706.4	1,997.9	1,989.2	8.69	229.820	
3,000.0	2,967.2	2,955.1	2,954.8	9.1	1.3	146.87	-1,584.1	-707.1	2,006.0	1,997.2	8.85	226.671	
3,051.2	3,017.3	3,010.9	3,010.6	9.3	1.3	147.08	-1,583.3	-707.7	2,014.6	2,005.6	9.02	223.366	
3,100.0	3,065.0	3,054.3	3,054.0	9.5	1.3	147.25	-1,582.7	-708.2	2,022.9	2,013.7	9.18	220.362	
3,149.6	3,113.5	3,100.0	3,099.7	9.7	1.4	147.41	-1,582.1	-708.7	2,031.4	2,022.1	9.34	217.425	
3,200.0	3,162.8	3,152.0	3,151.7	9.9	1.4	147.60	-1,581.6	-709.2	2,040.1	2,030.6	9.51	214.620	
3,248.0	3,209.8	3,200.0	3,199.7	10.2	1.4	147.76	-1,581.2	-709.2	2,048.3	2,038.6	9.66	212.014	
3,300.0	3,260.7	3,246.9	3,246.5	10.4	1.4	147.90	-1,581.1	-708.9	2,057.2	2,047.3	9.83	209.305	
3,346.4	3,306.1	3,286.2	3,285.8	10.6	1.4	148.01	-1,581.2	-708.6	2,065.3	2,055.3	9.98	206.945	
3,400.0	3,358.5	3,342.5	3,342.2	10.8	1.4	148.16	-1,581.5	-707.9	2,074.7	2,064.6	10.16	204.262	
3,444.9	3,402.4	3,393.9	3,393.6	11.0	1.4	148.30	-1,581.6	-707.2	2,082.5	2,072.2	10.31	202.066	
3,500.0	3,456.3	3,452.7	3,452.3	11.3	1.4	148.47	-1,581.5	-706.5	2,091.9	2,081.4	10.48	199.529	
3,543.3	3,498.6	3,498.4	3,498.1	11.5	1.4	148.61	-1,581.1	-706.3	2,099.2	2,088.6	10.62	197.668	
3,600.0	3,554.1	3,557.1	3,556.8	11.7	1.4	148.79	-1,580.3	-706.4	2,108.7	2,097.9	10.80	195.214	
3,641.7	3,594.9	3,600.3	3,599.9	11.9	1.4	148.94	-1,579.5	-706.7	2,115.7	2,104.7	10.94	193.447	
3,700.0	3,651.9	3,660.9	3,660.5	12.2	1.4	149.15	-1,578.2	-707.2	2,125.3	2,114.2	11.12	191.042	
3,740.1	3,691.2	3,700.0	3,699.6	12.3	1.4	149.28	-1,577.3	-707.4	2,131.9	2,120.7	11.25	189.429	
3,800.0	3,749.7	3,753.5	3,753.1	12.6	1.4	149.46	-1,576.2	-707.8	2,141.9	2,130.4	11.45	187.077	
3,838.6	3,787.5	3,786.5	3,786.1	12.8	1.4	149.57	-1,575.6	-708.1	2,148.4	2,136.8	11.57	185.616	
3,900.0	3,847.5	3,841.4	3,841.0	13.0	1.5	149.76	-1,574.6	-708.8	2,159.0	2,147.2	11.77	183.356	
3,937.0	3,883.7	3,875.0	3,874.6	13.2	1.5	149.87	-1,574.0	-709.3	2,165.4	2,153.5	11.90	182.035	
4,000.0	3,945.4	3,929.7	3,929.3	13.5	1.5	150.05	-1,573.1	-710.1	2,176.5	2,164.4	12.10	179.863	
4,035.4	3,980.0	3,959.3	3,958.9	13.7	1.5	150.15	-1,572.7	-710.7	2,182.9	2,170.7	12.22	178.684	
4,068.9	4,012.7	3,987.2	3,986.8	13.8	1.5	150.25	-1,572.3	-711.3	2,189.0	2,176.6	12.33	177.600	
4,100.0	4,043.2	4,012.7	4,012.2	13.9	1.5	150.39	-1,572.0	-711.9	2,194.5	2,182.1	12.40	176.978	
4,133.8	4,076.4	4,039.9	4,039.5	14.0	1.5	150.53	-1,571.8	-712.5	2,200.4	2,187.9	12.47	176.512	
4,200.0	4,141.6	4,100.0	4,099.5	14.2	1.5	150.81	-1,571.6	-713.8	2,211.1	2,198.5	12.59	175.558	
4,232.3	4,173.4	4,119.3	4,118.8	14.3	1.5	150.90	-1,571.7	-714.2	2,215.9	2,203.3	12.65	175.140	
4,300.0	4,240.5	4,173.8	4,173.3	14.5	1.6	151.11	-1,572.1	-715.3	2,225.4	2,212.7	12.77	174.210	
4,330.7	4,271.0	4,200.0	4,199.5	14.6	1.6	151.19	-1,572.4	-715.7	2,229.4	2,216.6	12.82	173.837	
4,400.0	4,339.9	4,266.1	4,265.6	14.8	1.6	151.37	-1,573.4	-717.0	2,237.4	2,224.5	12.94	172.900	
4,429.1	4,368.9	4,294.7	4,294.1	14.8	1.6	151.44	-1,573.8	-717.6	2,240.4	2,227.4	12.99	172.531	
4,500.0	4,439.6	4,355.3	4,354.7	15.0	1.6	151.56	-1,574.8	-718.9	2,246.6	2,233.5	13.09	171.589	
4,527.5	4,467.1	4,378.6	4,378.0	15.0	1.6	151.60	-1,575.3	-719.3	2,248.7	2,235.6	13.13	171.253	
4,600.0	4,539.5	4,448.1	4,447.5	15.1	1.6	151.67	-1,577.2	-720.4	2,253.3	2,240.0	13.23	170.254	
4,626.0	4,565.4	4,474.6	4,474.0	15.2	1.6	151.68	-1,578.0	-720.7	2,254.5	2,241.2	13.27	169.894	
4,668.9	4,608.4	4,516.6	4,515.9	15.2	1.6	-145.75	-1,579.3	-721.0	2,256.1	2,242.8	13.34	169.075	
4,700.0	4,639.5	4,545.0	4,544.3	15.3	1.6	-145.75	-1,580.2	-721.2	2,257.1	2,243.7	13.40	168.411	
4,724.4	4,663.9	4,567.3	4,566.6	15.3	1.6	-145.76	-1,580.9	-721.5	2,257.9	2,244.4	13.45	167.849	
4,800.0	4,739.5	4,640.6	4,639.9	15.4	1.6	-145.77	-1,583.3	-722.5	2,260.5	2,246.9	13.61	166.130	
4,822.8	4,762.3	4,663.9	4,663.2	15.4	1.6	-145.78	-1,584.0	-722.7	2,261.2	2,247.6	13.65	165.610	
4,900.0	4,839.5	4,740.6	4,739.9	15.6	1.7	-145.80	-1,586.6	-723.5	2,263.8	2,250.0	13.81	163.878	
4,921.2	4,860.7	4,761.3	4,760.5	15.6	1.7	-145.80	-1,587.3	-723.8	2,264.6	2,250.7	13.86	163.406	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	4,939.5	4,846.7	4,845.8	15.7	1.7	-145.83	-1,590.3	-724.5	2,267.2	2,253.2	14.02	161.658		
5,019.7	4,959.1	4,870.3	4,869.4	15.7	1.7	-145.84	-1,591.1	-724.7	2,267.8	2,253.8	14.07	161.213		
5,100.0	5,039.5	4,953.7	4,952.8	15.9	1.7	-145.87	-1,593.7	-725.0	2,270.1	2,255.9	14.24	159.446		
5,118.1	5,057.6	4,971.2	4,970.3	15.9	1.7	-145.87	-1,594.2	-725.1	2,270.6	2,256.3	14.28	159.056		
5,200.0	5,139.5	5,072.7	5,071.7	16.0	1.7	-145.90	-1,597.0	-725.6	2,272.7	2,258.3	14.45	157.255		
5,216.5	5,156.0	5,095.7	5,094.8	16.0	1.7	-145.91	-1,597.6	-725.5	2,273.0	2,258.6	14.49	156.880		
5,300.0	5,239.5	5,184.8	5,183.8	16.2	1.7	-145.95	-1,599.5	-725.1	2,274.3	2,259.7	14.67	155.064		
5,314.9	5,254.4	5,200.5	5,199.6	16.2	1.7	-145.95	-1,599.8	-725.1	2,274.6	2,259.9	14.70	154.743		
5,400.0	5,339.5	5,294.3	5,293.3	16.3	1.7	-145.99	-1,601.6	-724.6	2,275.6	2,260.7	14.88	152.919		
5,413.4	5,352.8	5,311.3	5,310.3	16.3	1.7	-145.99	-1,601.9	-724.4	2,275.7	2,260.8	14.91	152.633		
5,500.0	5,439.5	5,421.4	5,420.4	16.5	1.7	-146.04	-1,603.1	-723.1	2,275.9	2,260.8	15.09	150.800		
5,511.8	5,451.3	5,432.5	5,431.5	16.5	1.7	-146.04	-1,603.1	-723.0	2,275.9	2,260.8	15.12	150.558		
5,561.4	5,500.8	5,479.4	5,478.3	16.6	1.7	-146.06	-1,603.5	-722.3	2,275.9	2,260.7	15.22	149.547		
5,600.0	5,539.5	5,517.8	5,516.8	16.6	1.7	-146.08	-1,603.9	-721.8	2,275.9	2,260.6	15.30	148.768		
5,610.2	5,549.7	5,528.7	5,527.7	16.6	1.7	-146.08	-1,604.0	-721.6	2,275.9	2,260.6	15.32	148.562		
5,700.0	5,639.5	5,630.4	5,629.4	16.8	1.7	-146.11	-1,604.6	-720.5	2,275.7	2,260.2	15.50	146.786		
5,708.6	5,648.1	5,642.0	5,641.0	16.8	1.7	-146.12	-1,604.6	-720.4	2,275.7	2,260.1	15.52	146.620		
5,800.0	5,739.5	5,744.2	5,743.1	17.0	1.7	-146.13	-1,603.8	-719.4	2,274.6	2,258.9	15.70	144.878		
5,807.1	5,746.5	5,750.7	5,749.6	17.0	1.7	-146.13	-1,603.8	-719.4	2,274.6	2,258.8	15.71	144.744		
5,900.0	5,839.5	5,838.0	5,837.0	17.1	1.7	-146.13	-1,603.1	-718.9	2,273.7	2,257.8	15.90	143.032		
5,905.5	5,845.0	5,843.4	5,842.3	17.1	1.7	-146.13	-1,603.0	-718.9	2,273.6	2,257.7	15.91	142.931		
6,000.0	5,939.5	5,937.6	5,936.5	17.3	1.7	-146.14	-1,602.6	-718.1	2,272.8	2,256.7	16.10	141.192		
6,003.9	5,943.4	5,941.6	5,940.6	17.3	1.7	-146.14	-1,602.6	-718.1	2,272.8	2,256.7	16.11	141.120		
6,100.0	6,039.5	6,040.1	6,039.0	17.4	1.7	-146.16	-1,602.4	-716.7	2,271.9	2,255.6	16.30	139.370		
6,102.3	6,041.8	6,042.4	6,041.4	17.4	1.7	-146.16	-1,602.4	-716.7	2,271.9	2,255.6	16.31	139.327		
6,200.0	6,139.5	6,154.9	6,153.8	17.6	1.7	-146.19	-1,601.9	-715.0	2,270.8	2,254.3	16.51	137.557		
6,200.8	6,140.2	6,156.0	6,154.9	17.6	1.7	-146.19	-1,601.9	-715.0	2,270.8	2,254.3	16.51	137.542		
6,299.2	6,238.7	6,287.5	6,286.4	17.8	1.7	-146.24	-1,600.5	-711.5	2,268.4	2,251.7	16.72	135.694		
6,300.0	6,239.5	6,288.6	6,287.4	17.8	1.7	-146.25	-1,600.5	-711.5	2,268.4	2,251.7	16.72	135.679		
6,360.9	6,300.4	6,364.4	6,363.2	17.9	1.7	-146.29	-1,599.2	-708.7	2,266.3	2,249.4	16.85	134.513		
6,397.6	6,337.1	6,409.0	6,407.8	17.9	1.7	33.59	-1,598.3	-706.9	2,264.1	2,247.2	16.87	134.217		
6,400.0	6,339.5	6,411.8	6,410.6	17.9	1.7	33.60	-1,598.2	-706.8	2,263.9	2,247.0	16.87	134.184		
6,450.0	6,389.2	6,469.9	6,468.6	18.0	1.7	33.92	-1,596.7	-704.6	2,258.0	2,241.1	16.94	133.332		
6,496.0	6,434.7	6,514.9	6,513.6	18.0	1.7	34.37	-1,595.2	-703.1	2,249.9	2,232.9	17.01	132.266		
6,500.0	6,438.6	6,517.9	6,516.5	18.0	1.7	34.42	-1,595.1	-703.0	2,249.1	2,232.1	17.02	132.170		
6,550.0	6,487.3	6,554.8	6,553.4	18.0	1.7	35.08	-1,593.9	-702.0	2,237.6	2,220.5	17.10	130.869		
6,594.5	6,529.8	6,587.0	6,585.6	18.0	1.7	35.82	-1,592.9	-701.3	2,225.3	2,208.2	17.16	129.668		
6,600.0	6,535.1	6,600.0	6,598.6	18.1	1.7	35.97	-1,592.5	-701.1	2,223.7	2,206.5	17.17	129.517		
6,650.0	6,581.7	6,625.4	6,624.0	18.0	1.7	36.95	-1,591.8	-700.7	2,207.2	2,190.0	17.22	128.205		
6,692.9	6,620.6	6,653.9	6,652.5	18.0	1.7	37.99	-1,591.1	-700.4	2,191.3	2,174.1	17.24	127.099		
6,700.0	6,626.9	6,658.6	6,657.1	18.0	1.7	38.18	-1,591.0	-700.3	2,188.5	2,171.3	17.24	126.925		
6,750.0	6,670.6	6,700.0	6,698.5	18.0	1.7	39.72	-1,590.2	-700.0	2,167.6	2,150.4	17.25	125.655		
6,791.3	6,705.4	6,716.3	6,714.8	18.0	1.7	41.00	-1,589.9	-700.0	2,148.7	2,131.5	17.25	124.586		
6,800.0	6,712.5	6,721.5	6,720.1	18.0	1.7	41.30	-1,589.8	-699.9	2,144.6	2,127.3	17.24	124.369		
6,850.0	6,752.3	6,751.2	6,749.7	18.0	1.7	43.24	-1,589.4	-699.9	2,119.6	2,102.4	17.23	122.986		
6,889.7	6,782.5	6,773.7	6,772.2	18.0	1.7	44.96	-1,589.2	-699.9	2,098.4	2,081.2	17.23	121.754		
6,900.0	6,790.0	6,779.3	6,777.8	18.0	1.8	45.43	-1,589.2	-699.9	2,092.8	2,075.5	17.23	121.441		
6,950.0	6,825.3	6,807.2	6,805.7	18.0	1.8	47.94	-1,589.0	-699.9	2,064.2	2,047.0	17.25	119.658		
6,988.2	6,850.5	6,830.7	6,829.2	17.9	1.8	50.13	-1,589.0	-700.0	2,041.4	2,024.1	17.29	118.053		
7,000.0	6,858.0	6,837.7	6,836.2	17.9	1.8	50.85	-1,588.9	-700.0	2,034.1	2,016.8	17.30	117.567		
7,050.0	6,888.0	6,865.8	6,864.4	18.0	1.8	54.08	-1,588.9	-700.0	2,002.6	1,985.2	17.39	115.163		
7,086.6	6,908.1	6,884.8	6,883.3	18.0	1.8	56.64	-1,589.0	-700.0	1,978.8	1,961.3	17.47	113.286		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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									
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
7,100.0	6,915.1	6,891.4	6,889.9	18.0	1.8	57.62	-1,589.0	-700.0	1,969.9	1,952.4	17.51	112.471	
7,150.0	6,939.2	6,912.6	6,911.2	18.0	1.8	61.41	-1,589.0	-700.0	1,936.1	1,918.5	17.67	109.560	
7,185.0	6,954.3	6,925.3	6,923.9	18.1	1.8	64.19	-1,589.1	-700.0	1,912.0	1,894.2	17.80	107.416	
7,200.0	6,960.3	6,930.4	6,928.9	18.1	1.8	65.41	-1,589.2	-700.0	1,901.6	1,883.8	17.85	106.507	
7,250.0	6,978.1	6,945.7	6,944.2	18.3	1.8	69.60	-1,589.3	-699.9	1,866.6	1,848.5	18.06	103.380	
7,283.4	6,988.2	6,954.5	6,953.0	18.4	1.8	72.47	-1,589.4	-699.9	1,843.0	1,824.8	18.20	101.236	
7,300.0	6,992.6	6,958.4	6,956.9	18.4	1.8	73.90	-1,589.4	-699.9	1,831.2	1,813.0	18.28	100.203	
7,350.0	7,003.7	6,968.3	6,966.9	18.7	1.8	78.22	-1,589.5	-699.9	1,795.8	1,777.3	18.53	96.929	
7,381.9	7,009.1	6,973.2	6,971.8	18.9	1.8	80.94	-1,589.6	-699.9	1,773.3	1,754.5	18.72	94.715	
7,400.0	7,011.4	6,975.5	6,974.0	19.0	1.8	82.46	-1,589.6	-699.9	1,760.5	1,741.7	18.84	93.439	
7,450.0	7,015.7	6,979.7	6,978.3	19.3	1.8	86.54	-1,589.7	-699.9	1,725.6	1,706.3	19.26	89.591	
7,480.3	7,016.6	6,980.9	6,979.4	19.6	1.8	88.90	-1,589.7	-699.9	1,704.7	1,685.1	19.58	87.052	
7,488.2	7,016.6	6,981.0	6,979.5	19.6	1.8	89.50	-1,589.7	-699.9	1,699.3	1,679.6	19.67	86.380	
7,500.0	7,016.6	6,981.1	6,979.6	19.7	1.8	89.50	-1,589.7	-699.9	1,691.2	1,671.5	19.79	85.469	
7,578.7	7,016.3	6,981.9	6,980.4	20.5	1.8	89.54	-1,589.7	-699.9	1,638.8	1,618.2	20.62	79.489	
7,600.0	7,016.2	6,982.1	6,980.6	20.7	1.8	89.55	-1,589.7	-699.9	1,625.0	1,604.1	20.84	77.972	
7,677.1	7,016.0	6,982.9	6,981.4	21.6	1.8	89.58	-1,589.7	-699.9	1,576.3	1,554.6	21.75	72.459	
7,700.0	7,015.9	6,983.1	6,981.7	21.8	1.8	89.59	-1,589.7	-699.9	1,562.3	1,540.3	22.03	70.934	
7,775.6	7,015.7	6,983.9	6,982.5	22.7	1.8	89.63	-1,589.8	-699.9	1,517.6	1,494.6	23.01	65.959	
7,800.0	7,015.6	6,984.2	6,982.7	23.0	1.8	89.64	-1,589.8	-699.9	1,503.7	1,480.4	23.33	64.463	
7,874.0	7,015.4	6,985.0	6,983.5	24.0	1.8	89.68	-1,589.8	-699.9	1,463.2	1,438.9	24.36	60.062	
7,900.0	7,015.3	6,985.3	6,983.8	24.4	1.8	89.69	-1,589.8	-699.9	1,449.6	1,424.9	24.73	58.628	
7,972.4	7,015.1	6,986.1	6,984.6	25.4	1.8	89.73	-1,589.8	-699.9	1,413.6	1,387.8	25.80	54.796	
8,000.0	7,015.0	6,986.4	6,984.9	25.8	1.8	89.74	-1,589.8	-699.9	1,400.6	1,374.4	26.20	53.447	
8,070.8	7,014.8	6,987.2	6,985.7	26.8	1.8	89.78	-1,589.8	-699.9	1,369.2	1,341.9	27.30	50.153	
8,100.0	7,014.7	6,987.5	6,986.0	27.3	1.8	89.80	-1,589.8	-699.9	1,357.2	1,329.4	27.75	48.905	
8,169.3	7,014.4	6,988.3	6,986.8	28.3	1.8	89.83	-1,589.8	-699.9	1,330.7	1,301.8	28.86	46.106	
8,200.0	7,014.4	6,988.7	6,987.2	28.8	1.8	89.85	-1,589.8	-699.9	1,319.9	1,290.6	29.35	44.967	
8,267.7	7,014.1	6,989.5	6,988.0	29.9	1.8	89.89	-1,589.8	-699.9	1,298.5	1,268.0	30.47	42.616	
8,300.0	7,014.0	6,989.9	6,988.4	30.4	1.8	89.91	-1,589.8	-699.9	1,289.3	1,258.3	31.00	41.590	
8,366.1	7,013.8	6,990.7	6,989.2	31.5	1.8	89.94	-1,589.9	-699.9	1,273.1	1,240.9	32.12	39.638	
8,400.0	7,013.7	6,991.1	6,989.6	32.0	1.8	89.96	-1,589.9	-699.9	1,266.0	1,233.3	32.69	38.728	
8,464.5	7,013.5	6,991.9	6,990.5	33.1	1.8	90.00	-1,589.9	-699.9	1,254.9	1,221.1	33.80	37.127	
8,500.0	7,013.4	6,992.4	6,990.9	33.7	1.8	90.02	-1,589.9	-699.9	1,250.2	1,215.8	34.41	36.332	
8,563.0	7,013.2	6,993.2	6,991.7	34.8	1.8	90.06	-1,589.9	-699.9	1,244.2	1,208.7	35.51	35.039	
8,600.0	7,013.1	6,993.7	6,992.2	35.4	1.8	90.08	-1,589.9	-699.9	1,242.2	1,206.1	36.16	34.356	
8,648.8	7,012.9	6,994.3	6,992.9	36.2	1.8	90.11	-1,589.9	-699.9	1,241.3	1,204.3	37.02	33.528 CC	
8,661.4	7,012.9	6,994.5	6,993.0	36.5	1.8	90.12	-1,589.9	-699.9	1,241.4	1,204.1	37.25	33.328 ES	
8,700.0	7,012.8	6,995.0	6,993.5	37.1	1.8	90.14	-1,589.9	-699.9	1,242.3	1,204.4	37.93	32.753	
8,759.8	7,012.6	6,995.8	6,994.4	38.2	1.8	90.18	-1,589.9	-699.8	1,246.2	1,207.2	39.00	31.952	
8,800.0	7,012.4	6,996.4	6,994.9	38.9	1.8	90.21	-1,590.0	-699.8	1,250.5	1,210.7	39.72	31.479	
8,858.2	7,012.3	6,997.2	6,995.7	39.9	1.8	90.25	-1,590.0	-699.8	1,258.8	1,218.1	40.78	30.870	
8,900.0	7,012.1	6,997.8	6,996.3	40.7	1.8	90.27	-1,590.0	-699.8	1,266.4	1,224.9	41.54	30.491	
8,956.7	7,011.9	6,998.6	6,997.2	41.7	1.8	90.31	-1,590.0	-699.8	1,278.9	1,236.3	42.57	30.042	
9,000.0	7,011.8	6,999.3	6,997.8	42.4	1.8	90.34	-1,590.0	-699.8	1,290.0	1,246.6	43.36	29.750	
9,055.1	7,011.6	7,000.1	6,998.6	43.4	1.8	90.38	-1,590.0	-699.8	1,306.1	1,261.7	44.38	29.432	
9,100.0	7,011.5	7,000.8	6,999.3	44.2	1.8	90.41	-1,590.0	-699.8	1,320.7	1,275.5	45.20	29.219	
9,153.5	7,011.3	7,001.6	7,000.1	45.2	1.8	90.45	-1,590.0	-699.8	1,340.0	1,293.8	46.19	29.008	
9,200.0	7,011.2	7,002.3	7,000.9	46.1	1.8	90.48	-1,590.1	-699.8	1,358.2	1,311.1	47.05	28.864	
9,251.9	7,011.0	7,003.2	7,001.7	47.0	1.8	90.52	-1,590.1	-699.8	1,380.0	1,332.0	48.02	28.738	
9,300.0	7,010.9	7,003.9	7,002.5	47.9	1.8	90.56	-1,590.1	-699.8	1,401.7	1,352.8	48.92	28.655	
9,350.4	7,010.7	7,004.8	7,003.3	48.8	1.8	90.59	-1,590.1	-699.8	1,425.8	1,375.9	49.86	28.596	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
9,400.0	7,010.5	7,005.6	7,004.1	49.7	1.8	90.63	-1,590.1	-699.8	1,450.9	1,400.1	50.79	28.567	
9,448.8	7,010.4	7,006.4	7,004.9	50.6	1.8	90.67	-1,590.1	-699.8	1,476.7	1,425.0	51.71	28.560 SF	
9,500.0	7,010.2	7,007.3	7,005.8	51.6	1.8	90.71	-1,590.1	-699.8	1,505.1	1,452.4	52.67	28.576	
9,547.2	7,010.1	7,008.0	6,998.5	52.5	1.8	90.37	-1,590.0	-699.8	1,532.3	1,478.7	53.55	28.615	
9,600.0	7,009.9	7,000.0	6,998.5	53.5	1.8	90.37	-1,590.0	-699.8	1,563.8	1,509.3	54.54	28.671	
9,645.6	7,009.8	7,000.0	6,998.5	54.3	1.8	90.37	-1,590.0	-699.8	1,592.0	1,536.6	55.41	28.733	
9,700.0	7,009.6	7,000.0	6,998.5	55.3	1.8	90.37	-1,590.0	-699.8	1,626.6	1,570.1	56.44	28.822	
9,744.1	7,009.4	7,000.0	6,998.5	56.2	1.8	90.37	-1,590.0	-699.8	1,655.4	1,598.1	57.27	28.904	
9,800.0	7,009.3	7,000.0	6,998.5	57.2	1.8	90.37	-1,590.0	-699.8	1,692.9	1,634.6	58.33	29.022	
9,842.5	7,009.1	7,000.0	6,998.5	58.0	1.8	90.37	-1,590.0	-699.8	1,722.1	1,663.0	59.14	29.118	
9,900.0	7,008.9	7,000.0	6,998.5	59.1	1.8	90.37	-1,590.0	-699.8	1,762.4	1,702.2	60.24	29.259	
9,940.9	7,008.8	7,000.0	6,998.5	59.9	1.8	90.37	-1,590.0	-699.8	1,791.7	1,730.7	61.02	29.364	
10,000.0	7,008.6	7,000.0	6,998.5	61.0	1.8	90.37	-1,590.0	-699.8	1,834.8	1,772.6	62.14	29.525	
10,039.3	7,008.5	7,000.0	6,998.5	61.7	1.8	90.37	-1,590.0	-699.8	1,864.0	1,801.1	62.90	29.635	
10,100.0	7,008.3	7,000.0	6,998.5	62.9	1.8	90.37	-1,590.0	-699.8	1,909.6	1,845.6	64.06	29.812	
10,137.8	7,008.2	7,000.0	6,998.5	63.6	1.8	90.37	-1,590.0	-699.8	1,938.5	1,873.7	64.78	29.924	
10,200.0	7,008.0	7,000.0	6,998.5	64.8	1.8	90.37	-1,590.0	-699.8	1,986.7	1,920.7	65.97	30.113	
10,236.2	7,007.9	7,000.0	6,998.5	65.5	1.8	90.37	-1,590.0	-699.8	2,015.1	1,948.4	66.67	30.225	
10,300.0	7,007.6	7,000.0	6,998.5	66.7	1.8	90.37	-1,590.0	-699.8	2,065.7	1,997.8	67.89	30.426	
10,334.6	7,007.5	7,000.0	6,998.5	67.3	1.8	90.37	-1,590.0	-699.8	2,093.5	2,024.9	68.56	30.535	
10,400.0	7,007.3	7,000.0	6,998.5	68.6	1.8	90.37	-1,590.0	-699.8	2,146.5	2,076.7	69.82	30.744	
10,433.0	7,007.2	7,000.0	6,998.5	69.2	1.8	90.37	-1,590.0	-699.8	2,173.5	2,103.1	70.45	30.850	
10,500.0	7,007.0	7,000.0	6,998.5	70.5	1.8	90.37	-1,590.0	-699.8	2,228.8	2,157.1	71.74	31.066	
10,531.5	7,006.9	7,000.0	6,998.5	71.1	1.8	90.37	-1,590.0	-699.8	2,255.0	2,182.7	72.35	31.168	
10,600.0	7,006.7	7,000.0	6,998.5	72.4	1.8	90.37	-1,590.0	-699.8	2,312.5	2,238.9	73.67	31.389	
10,629.9	7,006.6	7,000.0	6,998.5	73.0	1.8	90.37	-1,590.0	-699.8	2,337.8	2,263.6	74.25	31.485	
10,700.0	7,006.4	7,000.0	6,998.5	74.3	1.8	90.37	-1,590.0	-699.8	2,397.5	2,321.9	75.61	31.711	
10,728.3	7,006.3	7,000.0	6,998.5	74.9	1.8	90.37	-1,590.0	-699.8	2,421.8	2,345.6	76.15	31.802	
10,800.0	7,006.0	7,000.0	6,998.5	76.3	1.8	90.37	-1,590.0	-699.8	2,483.6	2,406.1	77.54	32.030	
10,826.7	7,005.9	7,000.0	6,998.5	76.8	1.8	90.37	-1,590.0	-699.8	2,506.8	2,428.8	78.06	32.115	
10,900.0	7,005.7	7,000.0	6,998.5	78.2	1.8	90.37	-1,590.0	-699.8	2,570.7	2,491.2	79.48	32.345	
10,925.2	7,005.6	7,000.0	6,998.5	78.7	1.8	90.37	-1,590.0	-699.8	2,592.8	2,512.8	79.96	32.424	
11,000.0	7,005.4	7,000.0	6,998.5	80.1	1.8	90.37	-1,590.0	-699.8	2,658.7	2,577.3	81.42	32.656	
11,023.6	7,005.3	7,000.0	6,998.5	80.6	1.8	90.37	-1,590.0	-699.8	2,679.6	2,597.7	81.87	32.729	
11,100.0	7,005.1	7,000.0	6,998.5	82.0	1.8	90.37	-1,590.0	-699.8	2,747.5	2,664.2	83.36	32.961	
11,122.0	7,005.0	7,000.0	6,998.5	82.5	1.8	90.37	-1,590.0	-699.8	2,767.2	2,683.4	83.78	33.028	
11,200.0	7,004.7	7,000.0	6,998.5	84.0	1.8	90.37	-1,590.0	-699.8	2,837.1	2,751.8	85.30	33.261	
11,220.4	7,004.7	7,000.0	6,998.5	84.4	1.8	90.37	-1,590.0	-699.8	2,855.5	2,769.8	85.70	33.321	
11,300.0	7,004.4	7,000.0	6,998.5	85.9	1.8	90.37	-1,590.0	-699.8	2,927.4	2,840.1	87.24	33.554	
11,318.9	7,004.4	7,000.0	6,998.5	86.3	1.8	90.37	-1,590.0	-699.8	2,944.5	2,856.9	87.61	33.609	
11,400.0	7,004.1	7,000.0	6,998.5	87.8	1.8	90.37	-1,590.0	-699.8	3,018.2	2,929.0	89.19	33.841	
11,417.3	7,004.0	7,000.0	6,998.5	88.2	1.8	90.37	-1,590.0	-699.8	3,034.0	2,944.5	89.53	33.890	
11,500.0	7,003.8	7,000.0	6,998.5	89.8	1.8	90.37	-1,590.0	-699.8	3,109.7	3,018.5	91.14	34.121	
11,515.7	7,003.7	7,000.0	6,998.5	90.1	1.8	90.37	-1,590.0	-699.8	3,124.1	3,032.6	91.44	34.164	
11,600.0	7,003.4	7,000.0	6,998.5	91.7	1.8	90.37	-1,590.0	-699.8	3,201.6	3,108.5	93.09	34.394	
11,614.1	7,003.4	7,000.0	6,998.5	92.0	1.8	90.37	-1,590.0	-699.8	3,214.6	3,121.3	93.36	34.432	
11,700.0	7,003.1	7,000.0	6,998.5	93.7	1.8	90.37	-1,590.0	-699.8	3,294.0	3,199.0	95.04	34.661	
11,712.6	7,003.1	7,000.0	6,998.5	93.9	1.8	90.37	-1,590.0	-699.8	3,305.7	3,210.4	95.28	34.694	
11,800.0	7,002.8	7,000.0	6,998.5	95.6	1.8	90.37	-1,590.0	-699.8	3,386.8	3,289.9	96.99	34.921	
11,811.0	7,002.7	7,000.0	6,998.5	95.8	1.8	90.37	-1,590.0	-699.8	3,397.1	3,299.9	97.20	34.949	
11,900.0	7,002.5	7,000.0	6,998.5	97.6	1.8	90.37	-1,590.0	-699.8	3,480.1	3,381.1	98.94	35.174	
11,909.4	7,002.4	7,000.0	6,998.5	97.7	1.8	90.37	-1,590.0	-699.8	3,488.9	3,389.8	99.12	35.198	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
12,000.0	7,002.1	7,000.0	6,998.5	99.5	1.8	90.37	-1,590.0	-699.8	3,573.7	3,472.8	100.89	35.421		
12,007.8	7,002.1	7,000.0	6,998.5	99.7	1.8	90.37	-1,590.0	-699.8	3,581.0	3,480.0	101.05	35.440		
12,100.0	7,001.8	7,000.0	6,998.5	101.5	1.8	90.37	-1,590.0	-699.8	3,667.6	3,564.8	102.85	35.661		
12,106.3	7,001.8	7,000.0	6,998.5	101.6	1.8	90.37	-1,590.0	-699.8	3,673.5	3,570.6	102.97	35.676		
12,200.0	7,001.5	7,000.0	6,998.5	103.4	1.8	90.37	-1,590.0	-699.8	3,761.9	3,657.1	104.80	35.895		
12,204.7	7,001.5	7,000.0	6,998.5	103.5	1.8	90.37	-1,590.0	-699.8	3,766.3	3,661.4	104.89	35.906		
12,300.0	7,001.2	7,000.0	6,998.5	105.3	1.8	90.37	-1,590.0	-699.8	3,856.4	3,749.7	106.76	36.123		
12,303.1	7,001.1	7,000.0	6,998.5	105.4	1.8	90.37	-1,590.0	-699.8	3,859.4	3,752.5	106.82	36.130		
12,400.0	7,000.8	7,000.0	6,998.5	107.3	1.8	90.36	-1,590.0	-699.8	3,951.2	3,842.5	108.71	36.345		
12,401.5	7,000.8	7,000.0	6,998.5	107.3	1.8	90.36	-1,590.0	-699.8	3,952.7	3,843.9	108.75	36.348		
12,500.0	7,000.5	7,000.0	6,998.5	109.3	1.8	90.36	-1,590.0	-699.8	4,046.3	3,935.6	110.67	36.561		
12,598.4	7,000.2	7,000.0	6,998.5	111.2	1.8	90.36	-1,590.0	-699.8	4,140.0	4,027.4	112.60	36.768		
12,600.0	7,000.2	7,000.0	6,998.5	111.2	1.8	90.36	-1,590.0	-699.8	4,141.6	4,028.9	112.63	36.771		
12,696.8	6,999.8	7,000.0	6,998.5	113.1	1.8	90.36	-1,590.0	-699.8	4,234.0	4,119.5	114.53	36.969		
12,700.0	6,999.8	7,000.0	6,998.5	113.2	1.8	90.36	-1,590.0	-699.8	4,237.1	4,122.5	114.59	36.976		
12,795.2	6,999.5	7,000.0	6,998.5	115.0	1.8	90.36	-1,590.0	-699.8	4,328.2	4,211.8	116.46	37.166		
12,800.0	6,999.5	7,000.0	6,998.5	115.1	1.8	90.36	-1,590.0	-699.8	4,332.8	4,216.2	116.55	37.175		
12,893.7	6,999.2	7,000.0	6,998.5	116.9	1.8	90.36	-1,590.0	-699.8	4,422.6	4,304.2	118.39	37.357		
12,900.0	6,999.2	7,000.0	6,998.5	117.1	1.8	90.36	-1,590.0	-699.8	4,428.7	4,310.2	118.51	37.369		
12,992.1	6,998.9	7,000.0	6,998.5	118.9	1.8	90.36	-1,590.0	-699.8	4,517.2	4,396.9	120.32	37.544		
13,000.0	6,998.8	7,000.0	6,998.5	119.0	1.8	90.36	-1,590.0	-699.8	4,524.8	4,404.3	120.47	37.559		
13,090.5	6,998.6	7,000.0	6,998.5	120.8	1.8	90.36	-1,590.0	-699.8	4,611.9	4,489.6	122.25	37.726		
13,100.0	6,998.5	7,000.0	6,998.5	121.0	1.8	90.36	-1,590.0	-699.8	4,621.0	4,498.6	122.43	37.743		
13,188.9	6,998.2	7,000.0	6,998.5	122.7	1.8	90.36	-1,590.0	-699.8	4,706.8	4,582.6	124.18	37.903		
13,200.0	6,998.2	7,000.0	6,998.5	122.9	1.8	90.36	-1,590.0	-699.8	4,717.4	4,593.0	124.40	37.922		
13,287.4	6,997.9	7,000.0	6,998.5	124.6	1.8	90.36	-1,590.0	-699.8	4,801.8	4,675.7	126.11	38.076		
13,300.0	6,997.9	7,000.0	6,998.5	124.9	1.8	90.36	-1,590.0	-699.8	4,814.0	4,687.6	126.36	38.097		
13,385.8	6,997.6	7,000.0	6,998.5	126.6	1.8	90.36	-1,590.0	-699.8	4,896.9	4,768.9	128.04	38.244		
13,400.0	6,997.5	7,000.0	6,998.5	126.9	1.8	90.36	-1,590.0	-699.8	4,910.7	4,782.3	128.32	38.268		
13,484.2	6,997.3	7,000.0	6,998.5	128.5	1.8	90.36	-1,590.0	-699.8	4,992.2	4,862.2	129.98	38.408		
13,500.0	6,997.2	7,000.0	6,998.5	128.8	1.8	90.36	-1,590.0	-699.8	5,007.5	4,877.2	130.29	38.434		
13,582.6	6,996.9	7,000.0	6,998.5	130.4	1.8	90.36	-1,590.0	-699.8	5,087.6	4,955.7	131.91	38.569		
13,600.0	6,996.9	7,000.0	6,998.5	130.8	1.8	90.36	-1,590.0	-699.8	5,104.4	4,972.2	132.25	38.596		
13,681.1	6,996.6	7,000.0	6,998.5	132.4	1.8	90.36	-1,590.0	-699.8	5,183.1	5,049.3	133.84	38.725		
13,700.0	6,996.5	7,000.0	6,998.5	132.7	1.8	90.36	-1,590.0	-699.8	5,201.5	5,067.3	134.22	38.755		
13,779.5	6,996.3	7,000.0	6,998.5	134.3	1.8	90.36	-1,590.0	-699.8	5,278.7	5,142.9	135.78	38.877		
13,800.0	6,996.2	7,000.0	6,998.5	134.7	1.8	90.36	-1,590.0	-699.8	5,298.6	5,162.5	136.18	38.909		
13,877.9	6,995.9	7,000.0	6,998.5	136.2	1.8	90.36	-1,590.0	-699.8	5,374.4	5,236.7	137.71	39.026		
13,900.0	6,995.9	7,000.0	6,998.5	136.7	1.8	90.36	-1,590.0	-699.8	5,395.9	5,257.8	138.15	39.059		
13,976.3	6,995.6	7,000.0	6,998.5	138.2	1.8	90.36	-1,590.0	-699.8	5,470.2	5,330.6	139.65	39.172		
14,000.0	6,995.5	7,000.0	6,998.5	138.6	1.8	90.36	-1,590.0	-699.8	5,493.3	5,353.2	140.11	39.206		
14,074.8	6,995.3	7,000.0	6,998.5	140.1	1.8	90.36	-1,590.0	-699.8	5,566.1	5,424.6	141.58	39.314		
14,100.0	6,995.2	7,000.0	6,998.5	140.6	1.8	90.35	-1,590.0	-699.8	5,590.7	5,448.7	142.08	39.349		
14,162.0	6,995.0	7,000.0	6,998.5	141.8	1.8	90.35	-1,590.0	-699.8	5,651.2	5,508.0	143.26	39.448		

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	167.94	-1,683.1	359.7	1,721.1				
98.4	98.4	88.1	88.1	0.1	0.0	167.94	-1,683.2	359.5	1,721.2	1,721.0	0.14	N/A	
100.0	100.0	89.6	89.6	0.1	0.0	167.94	-1,683.2	359.5	1,721.2	1,721.0	0.14	N/A	
196.8	196.8	180.9	180.9	0.3	0.2	167.96	-1,683.6	359.1	1,721.5	1,721.0	0.49	3,541.602	
200.0	200.0	183.9	183.9	0.3	0.2	167.96	-1,683.6	359.1	1,721.5	1,721.0	0.50	3,458.801	
295.3	295.3	288.1	288.1	0.5	0.3	167.97	-1,684.0	358.9	1,721.8	1,721.0	0.79	2,191.440	
300.0	300.0	293.4	293.4	0.5	0.3	167.97	-1,684.0	358.9	1,721.8	1,721.0	0.80	2,154.205	
331.0	331.0	323.5	323.5	0.6	0.3	167.97	-1,684.0	358.8	1,721.8	1,720.9	0.88	1,954.658	
393.7	393.7	382.0	382.0	0.8	0.3	167.97	-1,684.1	358.7	1,721.9	1,720.8	1.04	1,651.521	
400.0	400.0	387.9	387.9	0.8	0.3	167.98	-1,684.1	358.7	1,721.9	1,720.8	1.06	1,626.204	
492.1	492.1	487.9	487.9	1.0	0.3	167.98	-1,684.2	358.7	1,722.0	1,720.7	1.27	1,355.719	
500.0	500.0	496.6	496.6	1.0	0.3	167.98	-1,684.2	358.7	1,722.0	1,720.7	1.29	1,337.075	
541.6	541.6	534.1	534.1	1.1	0.3	167.97	-1,684.1	358.8	1,721.9	1,720.5	1.38	1,246.503	
590.5	590.5	577.4	577.4	1.2	0.3	167.98	-1,684.2	358.7	1,722.0	1,720.5	1.49	1,154.611	
600.0	600.0	585.8	585.8	1.2	0.3	167.98	-1,684.2	358.7	1,722.0	1,720.5	1.51	1,138.419	
689.0	689.0	680.7	680.7	1.4	0.3	167.98	-1,684.5	358.5	1,722.3	1,720.5	1.75	984.910	
700.0	700.0	692.9	692.9	1.4	0.3	167.99	-1,684.6	358.5	1,722.3	1,720.5	1.78	968.176	
719.9	719.9	712.6	712.6	1.5	0.4	167.99	-1,684.6	358.4	1,722.3	1,720.4	1.83	939.716	
787.4	787.4	775.6	775.5	1.6	0.4	168.00	-1,684.7	358.2	1,722.4	1,720.3	2.01	855.215	
800.0	800.0	787.3	787.3	1.7	0.4	168.00	-1,684.7	358.2	1,722.4	1,720.3	2.05	841.103	
885.8	885.8	873.6	873.6	1.9	0.4	168.01	-1,685.0	358.0	1,722.7	1,720.4	2.29	753.621	
900.0	900.0	888.0	888.0	1.9	0.5	168.01	-1,685.1	358.0	1,722.7	1,720.4	2.33	740.820	
984.2	984.2	974.4	974.4	2.1	0.5	168.02	-1,685.3	357.7	1,722.9	1,720.3	2.56	673.242	
1,000.0	1,000.0	990.6	990.6	2.1	0.5	168.02	-1,685.3	357.7	1,722.9	1,720.3	2.60	661.963	
1,082.7	1,082.7	1,067.7	1,067.7	2.3	0.5	168.02	-1,685.6	357.6	1,723.1	1,720.3	2.82	612.047	
1,100.0	1,100.0	1,083.7	1,083.7	2.3	0.6	168.02	-1,685.6	357.7	1,723.2	1,720.3	2.86	602.632	
1,181.1	1,181.1	1,159.5	1,159.4	2.5	0.6	105.47	-1,686.1	357.7	1,724.0	1,721.0	3.08	560.412	
1,200.0	1,200.0	1,177.2	1,177.2	2.6	0.6	105.49	-1,686.3	357.7	1,724.4	1,721.2	3.13	551.547	
1,279.5	1,279.4	1,260.6	1,260.6	2.7	0.6	105.59	-1,687.0	357.6	1,726.1	1,722.7	3.34	517.199	
1,300.0	1,299.8	1,283.1	1,283.1	2.8	0.6	105.63	-1,687.2	357.6	1,726.6	1,723.2	3.39	509.030	
1,377.9	1,377.5	1,359.8	1,359.8	3.0	0.7	105.80	-1,687.6	357.5	1,728.7	1,725.1	3.60	479.816	
1,400.0	1,399.5	1,380.9	1,380.9	3.0	0.7	105.85	-1,687.7	357.5	1,729.5	1,725.8	3.66	472.241	
1,476.4	1,475.3	1,453.9	1,453.8	3.2	0.7	106.08	-1,688.3	357.4	1,732.5	1,728.6	3.88	446.412	
1,500.0	1,498.7	1,476.4	1,476.4	3.2	0.7	106.15	-1,688.5	357.4	1,733.6	1,729.7	3.95	439.002	
1,574.8	1,572.6	1,549.0	1,548.9	3.5	0.8	106.43	-1,689.1	357.5	1,737.5	1,733.3	4.18	415.366	
1,600.0	1,597.5	1,573.6	1,573.6	3.5	0.8	106.53	-1,689.4	357.5	1,739.0	1,734.7	4.26	407.982	
1,673.2	1,669.4	1,646.0	1,646.0	3.7	0.8	106.87	-1,690.1	357.5	1,743.7	1,739.1	4.52	386.162	
1,700.0	1,695.7	1,672.6	1,672.6	3.8	0.8	107.01	-1,690.3	357.4	1,745.5	1,740.9	4.61	378.808	
1,771.6	1,765.7	1,744.3	1,744.3	4.1	0.8	107.50	-1,691.0	357.0	1,750.7	1,745.8	4.87	359.239	
1,800.0	1,793.4	1,772.9	1,772.9	4.2	0.9	107.69	-1,691.3	356.7	1,752.7	1,747.7	4.98	352.072	
1,870.1	1,862.0	1,850.1	1,850.0	4.4	0.9	108.22	-1,691.8	356.0	1,757.7	1,752.4	5.25	335.034	
1,900.0	1,891.3	1,884.8	1,884.8	4.5	0.9	108.45	-1,691.9	355.6	1,759.7	1,754.4	5.36	328.338	
1,968.5	1,958.3	1,956.8	1,956.8	4.8	0.9	108.94	-1,691.9	354.8	1,764.2	1,758.6	5.62	313.701	
2,000.0	1,989.1	1,989.2	1,989.1	4.9	0.9	109.16	-1,691.8	354.5	1,766.3	1,760.5	5.75	307.399	
2,066.9	2,054.5	2,063.9	2,063.9	5.2	0.9	109.66	-1,691.4	353.5	1,770.5	1,764.5	6.01	294.617	
2,100.0	2,086.9	2,101.5	2,101.5	5.3	1.0	109.92	-1,691.1	352.9	1,772.5	1,766.4	6.14	288.712	
2,165.3	2,150.8	2,178.2	2,178.1	5.6	1.0	110.45	-1,690.0	351.4	1,776.2	1,769.8	6.40	277.551	
2,200.0	2,184.7	2,220.3	2,220.2	5.7	1.0	110.74	-1,689.2	350.5	1,778.1	1,771.5	6.54	272.003	
2,263.8	2,247.1	2,301.0	2,300.8	5.9	1.0	111.28	-1,687.0	349.2	1,781.0	1,774.2	6.79	262.219	
2,300.0	2,282.5	2,336.5	2,336.3	6.1	1.0	111.51	-1,685.8	348.7	1,782.5	1,775.6	6.94	256.969	
2,362.2	2,343.4	2,397.5	2,397.3	6.4	1.0	111.91	-1,683.8	347.9	1,785.2	1,778.0	7.19	248.364	
2,400.0	2,380.3	2,433.5	2,433.3	6.5	1.0	112.14	-1,682.6	347.3	1,786.9	1,779.6	7.34	243.415	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,439.6	2,491.0	2,490.7	6.8	1.0	112.53	-1,680.8	346.1	1,789.8	1,782.2	7.59	235.843	
2,500.0	2,478.1	2,529.3	2,529.0	6.9	1.0	112.79	-1,679.6	345.2	1,791.7	1,783.9	7.75	231.193	
2,559.0	2,535.9	2,587.3	2,587.0	7.2	1.0	113.19	-1,677.8	343.8	1,794.6	1,786.6	7.99	224.525	
2,600.0	2,576.0	2,624.4	2,624.0	7.4	1.1	113.43	-1,676.7	343.0	1,796.7	1,788.5	8.16	220.153	
2,657.5	2,632.2	2,674.2	2,673.8	7.6	1.1	113.77	-1,675.3	342.0	1,799.9	1,791.5	8.40	214.307	
2,700.0	2,673.8	2,713.0	2,712.6	7.8	1.1	114.03	-1,674.3	341.1	1,802.4	1,793.8	8.57	210.216	
2,755.9	2,728.4	2,769.7	2,769.2	8.0	1.1	114.41	-1,672.9	339.7	1,805.7	1,796.9	8.81	205.058	
2,800.0	2,771.6	2,811.6	2,811.1	8.2	1.1	114.69	-1,671.8	338.7	1,808.4	1,799.4	8.99	201.194	
2,854.3	2,824.7	2,856.1	2,855.6	8.4	1.1	115.00	-1,670.8	337.5	1,812.0	1,802.7	9.21	196.660	
2,900.0	2,869.4	2,900.0	2,899.5	8.6	1.1	115.30	-1,670.1	336.2	1,815.2	1,805.8	9.40	193.049	
2,952.7	2,921.0	2,945.7	2,945.2	8.9	1.1	115.61	-1,669.3	334.8	1,819.1	1,809.4	9.62	189.059	
3,000.0	2,967.2	2,994.2	2,993.6	9.1	1.2	115.94	-1,668.5	333.4	1,822.6	1,812.7	9.82	185.641	
3,051.2	3,017.3	3,045.1	3,044.4	9.3	1.2	116.28	-1,667.5	332.1	1,826.3	1,816.3	10.03	182.106	
3,100.0	3,065.0	3,093.3	3,092.7	9.5	1.2	116.60	-1,666.6	330.9	1,830.0	1,819.8	10.23	178.889	
3,149.6	3,113.5	3,141.4	3,140.8	9.7	1.2	116.92	-1,665.7	329.7	1,833.8	1,823.3	10.43	175.747	
3,200.0	3,162.8	3,190.1	3,189.4	9.9	1.2	117.24	-1,664.8	328.4	1,837.7	1,827.0	10.64	172.696	
3,248.0	3,209.8	3,236.3	3,235.6	10.2	1.2	117.54	-1,664.0	327.2	1,841.4	1,830.6	10.84	169.903	
3,300.0	3,260.7	3,286.4	3,285.6	10.4	1.2	117.86	-1,663.1	326.1	1,845.6	1,834.6	11.05	167.009	
3,346.4	3,306.1	3,334.3	3,333.6	10.6	1.2	118.16	-1,662.2	325.2	1,849.4	1,838.1	11.24	164.530	
3,400.0	3,358.5	3,391.4	3,390.7	10.8	1.3	118.51	-1,661.0	324.5	1,853.7	1,842.2	11.46	161.782	
3,444.9	3,402.4	3,434.6	3,433.9	11.0	1.3	118.77	-1,660.1	324.1	1,857.2	1,845.6	11.64	159.550	
3,500.0	3,456.3	3,486.5	3,485.7	11.3	1.3	119.07	-1,659.0	323.8	1,861.7	1,849.9	11.86	156.917	
3,543.3	3,498.6	3,526.4	3,525.6	11.5	1.3	119.30	-1,658.2	323.7	1,865.4	1,853.3	12.04	154.924	
3,600.0	3,554.1	3,578.2	3,577.4	11.7	1.3	119.58	-1,657.3	323.9	1,870.2	1,858.0	12.27	152.418	
3,641.7	3,594.9	3,618.5	3,617.7	11.9	1.3	119.80	-1,656.7	324.3	1,873.9	1,861.5	12.44	150.637	
3,700.0	3,651.9	3,678.7	3,677.9	12.2	1.3	120.12	-1,655.7	324.7	1,879.1	1,866.4	12.68	148.233	
3,740.1	3,691.2	3,715.6	3,714.8	12.3	1.3	120.31	-1,655.1	324.9	1,882.6	1,869.8	12.84	146.634	
3,800.0	3,749.7	3,763.2	3,762.4	12.6	1.3	120.57	-1,654.4	325.0	1,888.2	1,875.1	13.08	144.355	
3,838.6	3,787.5	3,800.0	3,799.2	12.8	1.3	120.78	-1,654.1	324.8	1,892.0	1,878.8	13.24	142.957	
3,900.0	3,847.5	3,857.6	3,856.7	13.0	1.3	121.10	-1,653.6	324.6	1,898.3	1,884.8	13.48	140.792	
3,937.0	3,883.7	3,897.3	3,896.4	13.2	1.3	121.32	-1,653.3	324.4	1,901.9	1,888.3	13.63	139.529	
4,000.0	3,945.4	3,958.4	3,957.6	13.5	1.4	121.65	-1,652.6	324.2	1,908.2	1,894.3	13.88	137.453	
4,035.4	3,980.0	3,992.7	3,991.8	13.7	1.4	121.84	-1,652.2	324.1	1,911.8	1,897.8	14.02	136.324	
4,068.9	4,012.7	4,022.8	4,022.0	13.8	1.4	122.01	-1,651.9	324.0	1,915.2	1,901.0	14.16	135.283	
4,100.0	4,043.2	4,050.3	4,049.4	13.9	1.4	122.21	-1,651.7	323.8	1,918.4	1,904.1	14.26	134.557	
4,133.8	4,076.4	4,080.2	4,079.3	14.0	1.4	122.41	-1,651.5	323.6	1,921.7	1,907.3	14.34	133.982	
4,200.0	4,141.6	4,147.9	4,147.0	14.2	1.4	122.83	-1,651.1	323.0	1,927.6	1,913.1	14.51	132.847	
4,232.3	4,173.4	4,183.3	4,182.5	14.3	1.4	123.02	-1,650.8	322.8	1,930.1	1,915.5	14.58	132.359	
4,300.0	4,240.5	4,246.6	4,245.7	14.5	1.4	123.33	-1,650.2	322.5	1,934.8	1,920.1	14.74	131.286	
4,330.7	4,271.0	4,273.9	4,273.0	14.6	1.4	123.45	-1,650.0	322.3	1,936.7	1,921.9	14.80	130.869	
4,400.0	4,339.9	4,348.5	4,347.6	14.8	1.5	123.72	-1,649.6	321.7	1,940.4	1,925.5	14.94	129.890	
4,429.1	4,368.9	4,384.0	4,383.1	14.8	1.5	123.83	-1,649.2	321.6	1,941.6	1,926.6	14.99	129.524	
4,500.0	4,439.6	4,462.9	4,462.0	15.0	1.5	124.01	-1,648.1	321.2	1,943.4	1,928.3	15.12	128.534	
4,527.5	4,467.1	4,492.9	4,492.0	15.0	1.5	124.07	-1,647.6	320.9	1,943.8	1,928.7	15.16	128.192	
4,600.0	4,539.5	4,563.9	4,563.0	15.1	1.5	124.17	-1,646.3	319.7	1,944.1	1,928.9	15.28	127.234	
4,626.0	4,565.4	4,589.0	4,588.1	15.2	1.5	124.20	-1,645.8	319.2	1,944.0	1,928.7	15.32	126.926	
4,668.9	4,608.4	4,629.3	4,628.4	15.2	1.5	-173.20	-1,645.1	318.4	1,943.6	1,928.2	15.39	126.278	
4,700.0	4,639.5	4,658.1	4,657.2	15.3	1.5	-173.19	-1,644.6	317.8	1,943.1	1,927.7	15.44	125.856	
4,724.4	4,663.9	4,680.7	4,679.8	15.3	1.5	-173.17	-1,644.3	317.3	1,942.8	1,927.3	15.48	125.499	
4,800.0	4,739.5	4,761.9	4,760.9	15.4	1.6	-173.13	-1,643.1	316.0	1,941.9	1,926.3	15.61	124.383	
4,822.8	4,762.3	4,787.7	4,786.7	15.4	1.6	-173.12	-1,642.7	315.6	1,941.5	1,925.9	15.65	124.040	
4,900.0	4,839.5	4,854.9	4,854.0	15.6	1.6	-173.08	-1,641.5	314.6	1,940.4	1,924.6	15.78	122.929	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	4,860.7	4,872.6	4,871.6	15.6	1.6	-173.07	-1,641.3	314.3	1,940.2	1,924.3	15.82	122.631	
5,000.0	4,939.5	4,937.8	4,936.8	15.7	1.6	-173.04	-1,640.8	313.1	1,939.7	1,923.7	15.96	121.568	
5,019.7	4,959.1	4,954.1	4,953.1	15.7	1.6	-173.03	-1,640.7	312.8	1,939.7	1,923.7	15.99	121.310	
5,028.3	4,967.8	4,961.3	4,960.3	15.7	1.6	-173.02	-1,640.7	312.6	1,939.7	1,923.6	16.00	121.197	
5,100.0	5,039.5	5,026.7	5,025.7	15.9	1.6	-172.98	-1,640.7	311.3	1,939.8	1,923.7	16.13	120.281	
5,118.1	5,057.6	5,046.1	5,045.0	15.9	1.7	-172.97	-1,640.7	310.9	1,939.9	1,923.7	16.16	120.048	
5,200.0	5,139.5	5,126.5	5,125.4	16.0	1.7	-172.92	-1,640.7	309.3	1,940.0	1,923.7	16.30	119.009	
5,216.5	5,156.0	5,140.4	5,139.4	16.0	1.7	-172.92	-1,640.7	309.1	1,940.1	1,923.8	16.33	118.805	
5,300.0	5,239.5	5,210.9	5,209.8	16.2	1.7	-172.89	-1,641.1	308.0	1,940.8	1,924.3	16.47	117.803	
5,314.9	5,254.4	5,223.6	5,222.6	16.2	1.7	-172.88	-1,641.3	307.9	1,941.0	1,924.5	16.50	117.627	
5,400.0	5,339.5	5,300.0	5,298.9	16.3	1.7	-172.86	-1,642.4	306.9	1,942.3	1,925.7	16.65	116.653	
5,413.4	5,352.8	5,307.7	5,306.6	16.3	1.7	-172.86	-1,642.5	306.8	1,942.6	1,925.9	16.67	116.506	
5,500.0	5,439.5	5,383.5	5,382.4	16.5	1.7	-172.84	-1,644.2	306.1	1,944.5	1,927.7	16.83	115.558	
5,511.8	5,451.3	5,400.0	5,398.9	16.5	1.7	-172.84	-1,644.6	306.0	1,944.9	1,928.0	16.85	115.427	
5,600.0	5,539.5	5,481.8	5,480.6	16.6	1.7	-172.85	-1,646.8	305.9	1,947.2	1,930.2	17.01	114.482	
5,610.2	5,549.7	5,492.0	5,490.9	16.6	1.7	-172.85	-1,647.0	305.9	1,947.5	1,930.4	17.03	114.372	
5,700.0	5,639.5	5,585.0	5,583.8	16.8	1.7	-172.88	-1,649.5	306.7	1,949.7	1,932.6	17.19	113.394	
5,708.6	5,648.1	5,594.0	5,592.8	16.8	1.7	-172.88	-1,649.8	306.8	1,950.0	1,932.8	17.21	113.299	
5,800.0	5,739.5	5,697.5	5,696.3	17.0	1.7	-172.92	-1,652.1	307.8	1,951.9	1,934.5	17.38	112.284	
5,807.1	5,746.5	5,705.1	5,703.9	17.0	1.7	-172.92	-1,652.3	307.9	1,952.1	1,934.7	17.40	112.204	
5,900.0	5,839.5	5,801.3	5,800.0	17.1	1.7	-172.95	-1,654.0	308.5	1,953.7	1,936.1	17.57	111.172	
5,905.5	5,845.0	5,807.4	5,806.2	17.1	1.7	-172.95	-1,654.1	308.6	1,953.7	1,936.2	17.58	111.111	
6,000.0	5,939.5	5,912.9	5,911.7	17.3	1.7	-172.99	-1,655.7	309.8	1,955.0	1,937.2	17.77	110.045	
6,003.9	5,943.4	5,917.4	5,916.1	17.3	1.7	-172.99	-1,655.7	309.9	1,955.0	1,937.3	17.77	110.000	
6,100.0	6,039.5	6,018.4	6,017.2	17.4	1.7	-173.05	-1,656.7	311.7	1,955.7	1,937.8	17.96	108.897	
6,102.3	6,041.8	6,020.3	6,019.0	17.4	1.7	-173.05	-1,656.7	311.7	1,955.8	1,937.8	17.96	108.870	
6,200.0	6,139.5	6,100.0	6,098.7	17.6	1.7	-173.10	-1,658.0	313.2	1,957.0	1,938.9	18.15	107.820	
6,200.8	6,140.2	6,100.0	6,098.7	17.6	1.7	-173.10	-1,658.0	313.2	1,957.0	1,938.9	18.15	107.813	
6,299.2	6,238.7	6,213.6	6,212.3	17.8	1.7	-173.18	-1,659.9	315.6	1,958.5	1,940.1	18.35	106.739	
6,300.0	6,239.5	6,214.7	6,213.4	17.8	1.7	-173.18	-1,659.9	315.6	1,958.5	1,940.1	18.35	106.730	
6,360.9	6,300.4	6,300.0	6,298.6	17.9	1.7	-173.24	-1,660.4	317.8	1,958.7	1,940.2	18.47	106.024	
6,397.6	6,337.1	6,330.1	6,328.7	17.9	1.7	6.54	-1,660.5	318.5	1,957.7	1,939.2	18.51	105.776	
6,400.0	6,339.5	6,332.0	6,330.6	17.9	1.7	6.54	-1,660.5	318.6	1,957.6	1,939.1	18.51	105.747	
6,450.0	6,389.2	6,372.6	6,371.2	18.0	1.7	6.56	-1,660.8	319.6	1,953.3	1,934.7	18.60	104.990	
6,496.0	6,434.7	6,413.4	6,412.0	18.0	1.7	6.61	-1,661.2	320.7	1,946.5	1,927.8	18.71	104.038	
6,500.0	6,438.6	6,417.8	6,416.4	18.0	1.7	6.62	-1,661.2	320.8	1,945.8	1,927.0	18.72	103.948	
6,550.0	6,487.3	6,472.9	6,471.4	18.0	1.7	6.72	-1,661.7	322.3	1,934.8	1,915.9	18.83	102.749	
6,594.5	6,529.8	6,520.1	6,518.6	18.0	1.7	6.85	-1,662.0	323.7	1,922.1	1,903.1	18.91	101.644	
6,600.0	6,535.1	6,525.7	6,524.3	18.1	1.7	6.87	-1,662.1	323.8	1,920.3	1,901.4	18.92	101.507	
6,650.0	6,581.7	6,576.3	6,574.8	18.0	1.7	7.08	-1,662.3	325.2	1,902.4	1,883.4	18.97	100.299	
6,692.9	6,620.6	6,614.2	6,612.7	18.0	1.7	7.31	-1,662.4	326.3	1,884.5	1,865.5	18.97	99.342	
6,700.0	6,626.9	6,619.5	6,618.1	18.0	1.7	7.35	-1,662.4	326.4	1,881.3	1,862.3	18.97	99.196	
6,750.0	6,670.6	6,656.3	6,654.8	18.0	1.7	7.69	-1,662.6	327.5	1,857.2	1,838.3	18.91	98.229	
6,791.3	6,705.4	6,685.6	6,684.1	18.0	1.7	8.02	-1,662.9	328.2	1,835.2	1,816.4	18.82	97.515	
6,800.0	6,712.5	6,691.6	6,690.1	18.0	1.7	8.10	-1,662.9	328.4	1,830.4	1,811.6	18.80	97.377	
6,850.0	6,752.3	6,729.4	6,727.9	18.0	1.7	8.61	-1,663.4	329.4	1,800.8	1,782.1	18.64	96.614	
6,889.7	6,782.5	6,759.1	6,757.5	18.0	1.7	9.11	-1,663.8	330.3	1,775.3	1,756.8	18.48	96.050	
6,900.0	6,790.0	6,766.5	6,764.9	18.0	1.7	9.25	-1,663.9	330.5	1,768.5	1,750.1	18.44	95.916	
6,950.0	6,825.3	6,801.4	6,799.8	18.0	1.7	10.04	-1,664.4	331.6	1,733.7	1,715.5	18.20	95.274	
6,988.2	6,850.5	6,827.6	6,826.0	17.9	1.7	10.77	-1,664.8	332.4	1,705.5	1,687.5	18.00	94.767	
7,000.0	6,858.0	6,835.4	6,833.8	17.9	1.7	11.03	-1,664.9	332.6	1,696.5	1,678.6	17.93	94.621	
7,050.0	6,888.0	6,866.7	6,865.1	18.0	1.7	12.30	-1,665.3	333.5	1,657.1	1,639.5	17.64	93.914	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	6,908.1	6,887.7	6,886.1	18.0	1.7	13.45	-1,665.6	334.1	1,627.0	1,609.6	17.43	93.350	
7,100.0	6,915.1	6,895.0	6,893.4	18.0	1.7	13.92	-1,665.6	334.3	1,615.7	1,598.3	17.36	93.059	
7,150.0	6,939.2	6,923.0	6,921.3	18.0	1.7	16.11	-1,666.0	334.9	1,572.5	1,555.4	17.11	91.884	
7,185.0	6,954.3	6,940.8	6,939.1	18.1	1.7	18.09	-1,666.1	335.4	1,541.2	1,524.3	16.98	90.769	
7,200.0	6,960.3	6,947.8	6,946.2	18.1	1.7	19.08	-1,666.2	335.6	1,527.7	1,510.7	16.94	90.188	
7,250.0	6,978.1	6,968.7	6,967.1	18.3	1.7	23.22	-1,666.3	336.1	1,481.4	1,464.5	16.90	87.647	
7,283.4	6,988.2	6,980.5	6,978.9	18.4	1.7	26.98	-1,666.4	336.4	1,449.9	1,432.9	17.01	85.246	
7,300.0	6,992.6	6,985.7	6,984.0	18.4	1.7	29.25	-1,666.4	336.5	1,434.1	1,417.0	17.11	83.811	
7,350.0	7,003.7	6,998.6	6,997.0	18.7	1.7	38.39	-1,666.5	336.9	1,385.9	1,368.2	17.70	78.313	
7,381.9	7,009.1	7,004.9	7,003.2	18.9	1.7	46.72	-1,666.5	337.0	1,354.8	1,336.5	18.29	74.088	
7,400.0	7,011.4	7,007.7	7,006.1	19.0	1.7	52.59	-1,666.5	337.1	1,337.0	1,318.4	18.65	71.694	
7,450.0	7,015.7	7,012.8	7,011.1	19.3	1.7	73.38	-1,666.5	337.3	1,287.8	1,268.5	19.33	66.608	
7,480.3	7,016.6	7,013.8	7,012.2	19.6	1.7	88.13	-1,666.5	337.3	1,257.9	1,238.4	19.56	64.311	
7,488.2	7,016.6	7,013.9	7,012.2	19.6	1.7	91.97	-1,666.5	337.3	1,250.2	1,230.4	19.75	63.286	
7,500.0	7,016.6	7,013.9	7,012.2	19.7	1.7	91.96	-1,666.5	337.3	1,238.5	1,218.6	19.87	62.331	
7,578.7	7,016.3	7,013.8	7,012.1	20.5	1.7	91.93	-1,666.5	337.3	1,160.9	1,140.2	20.70	56.091	
7,600.0	7,016.2	7,013.7	7,012.1	20.7	1.7	91.92	-1,666.5	337.3	1,140.0	1,119.1	20.92	54.490	
7,677.1	7,016.0	7,013.6	7,012.0	21.6	1.7	91.89	-1,666.5	337.3	1,064.2	1,042.3	21.83	48.741	
7,700.0	7,015.9	7,013.6	7,011.9	21.8	1.7	91.89	-1,666.5	337.3	1,041.8	1,019.6	22.10	47.131	
7,775.6	7,015.7	7,013.5	7,011.8	22.7	1.7	91.86	-1,666.5	337.3	967.8	944.7	23.08	41.922	
7,800.0	7,015.6	7,013.5	7,011.8	23.0	1.7	91.85	-1,666.5	337.3	943.9	920.5	23.40	40.334	
7,874.0	7,015.4	7,013.4	7,011.7	24.0	1.7	91.82	-1,666.5	337.3	871.8	847.4	24.43	35.679	
7,900.0	7,015.3	7,013.3	7,011.7	24.4	1.7	91.81	-1,666.5	337.3	846.5	821.7	24.80	34.138	
7,972.4	7,015.1	7,013.2	7,011.6	25.4	1.7	91.79	-1,666.5	337.3	776.4	750.6	25.87	30.018	
8,000.0	7,015.0	7,013.2	7,011.5	25.8	1.7	91.78	-1,666.5	337.3	749.9	723.6	26.27	28.541	
8,070.8	7,014.8	7,013.1	7,011.4	26.8	1.7	91.75	-1,666.5	337.3	682.0	654.6	27.37	24.920	
8,100.0	7,014.7	7,013.1	7,011.4	27.3	1.7	91.74	-1,666.5	337.3	654.2	626.4	27.82	23.520	
8,169.3	7,014.4	7,013.0	7,011.3	28.3	1.7	91.72	-1,666.5	337.3	588.8	559.9	28.92	20.357	
8,200.0	7,014.4	7,012.9	7,011.3	28.8	1.7	91.71	-1,666.5	337.3	560.1	530.6	29.41	19.041	
8,267.7	7,014.1	7,012.9	7,011.2	29.9	1.7	91.68	-1,666.5	337.3	497.6	467.1	30.53	16.301	
8,300.0	7,014.0	7,012.8	7,011.2	30.4	1.7	91.67	-1,666.5	337.3	468.3	437.3	31.06	15.080	
8,366.1	7,013.8	7,012.7	7,011.1	31.5	1.7	91.65	-1,666.5	337.3	409.8	377.7	32.17	12.740	
8,400.0	7,013.7	7,012.7	7,011.0	32.0	1.7	91.64	-1,666.5	337.3	380.8	348.1	32.74	11.632	
8,464.5	7,013.5	7,012.6	7,011.0	33.1	1.7	91.62	-1,666.5	337.3	328.1	294.3	33.85	9.695	
8,500.0	7,013.4	7,012.6	7,010.9	33.7	1.7	91.61	-1,666.5	337.3	301.2	266.7	34.46	8.741	
8,563.0	7,013.2	7,012.5	7,010.8	34.8	1.7	91.59	-1,666.5	337.2	258.4	222.8	35.56	7.267	
8,600.0	7,013.1	7,012.5	7,010.8	35.4	1.7	91.58	-1,666.5	337.2	237.5	201.3	36.20	6.560	
8,661.4	7,012.9	7,012.4	7,010.7	36.5	1.7	91.56	-1,666.5	337.2	212.7	175.4	37.29	5.704	
8,700.0	7,012.8	7,012.4	7,010.7	37.1	1.7	91.54	-1,666.5	337.2	205.1	167.2	37.97	5.402	
8,721.6	7,012.7	7,012.3	7,010.7	37.5	1.7	91.54	-1,666.5	337.2	204.0	165.6	38.36	5.318 CC, ES	
8,759.8	7,012.6	7,012.3	7,010.6	38.2	1.7	91.53	-1,666.5	337.2	207.5	168.5	39.04	5.316 SF	
8,800.0	7,012.4	7,012.2	7,010.6	38.9	1.7	91.51	-1,666.5	337.2	218.5	178.8	39.76	5.497	
8,858.2	7,012.3	7,012.2	7,010.5	39.9	1.7	91.49	-1,666.5	337.2	245.5	204.7	40.81	6.016	
8,900.0	7,012.1	7,012.1	7,010.5	40.7	1.7	91.48	-1,666.5	337.2	271.0	229.4	41.57	6.520	
8,956.7	7,011.9	7,012.1	7,010.4	41.7	1.7	91.46	-1,666.5	337.2	311.3	268.7	42.60	7.307	
9,000.0	7,011.8	7,012.0	7,010.4	42.4	1.7	91.45	-1,666.5	337.2	345.1	301.8	43.39	7.955	
9,055.1	7,011.6	7,012.0	7,010.3	43.4	1.7	91.43	-1,666.5	337.2	391.0	346.6	44.40	8.805	
9,100.0	7,011.5	7,011.9	7,010.3	44.2	1.7	91.42	-1,666.5	337.2	429.9	384.7	45.22	9.506	
9,153.5	7,011.3	7,011.9	7,010.2	45.2	1.7	91.41	-1,666.5	337.2	477.7	431.5	46.21	10.336	
9,200.0	7,011.2	7,011.8	7,010.2	46.1	1.7	91.39	-1,666.5	337.2	520.1	473.0	47.07	11.049	
9,251.9	7,011.0	7,011.8	7,010.1	47.0	1.7	91.38	-1,666.5	337.2	568.2	520.2	48.04	11.829	
9,300.0	7,010.9	7,011.7	7,010.1	47.9	1.7	91.36	-1,666.5	337.2	613.3	564.4	48.93	12.535	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	7,010.7	7,011.7	7,010.0	48.8	1.7	91.35	-1,666.5	337.2	661.1	611.2	49.87	13.255	
9,400.0	7,010.5	7,011.6	7,010.0	49.7	1.7	91.33	-1,666.5	337.2	708.4	657.6	50.80	13.945	
9,448.8	7,010.4	7,011.6	7,009.9	50.6	1.7	91.32	-1,666.5	337.2	755.3	703.6	51.72	14.605	
9,500.0	7,010.2	7,011.5	7,009.9	51.6	1.7	91.31	-1,666.5	337.2	804.7	752.0	52.68	15.276	
9,547.2	7,010.1	7,011.5	7,009.8	52.5	1.7	91.29	-1,666.5	337.2	850.5	796.9	53.57	15.877	
9,600.0	7,009.9	7,011.4	7,009.8	53.5	1.7	91.28	-1,666.5	337.2	901.8	847.2	54.56	16.528	
9,645.6	7,009.8	7,011.4	7,009.7	54.3	1.7	91.26	-1,666.5	337.2	946.3	890.9	55.42	17.074	
9,700.0	7,009.6	7,011.3	7,009.7	55.3	1.7	91.25	-1,666.5	337.2	999.5	943.0	56.45	17.705	
9,744.1	7,009.4	7,011.3	7,009.6	56.2	1.7	91.24	-1,666.5	337.2	1,042.6	985.4	57.29	18.200	
9,800.0	7,009.3	7,011.2	7,009.6	57.2	1.7	91.22	-1,666.5	337.2	1,097.5	1,039.2	58.35	18.810	
9,842.5	7,009.1	7,011.2	7,009.5	58.0	1.7	91.21	-1,666.5	337.2	1,139.3	1,080.2	59.16	19.260	
9,900.0	7,008.9	7,011.1	7,009.5	59.1	1.7	91.20	-1,666.5	337.2	1,195.9	1,135.7	60.25	19.850	
9,940.9	7,008.8	7,011.1	7,009.4	59.9	1.7	91.18	-1,666.5	337.2	1,236.3	1,175.3	61.03	20.257	
10,000.0	7,008.6	7,011.0	7,009.4	61.0	1.7	91.17	-1,666.5	337.2	1,294.6	1,232.4	62.16	20.828	
10,039.3	7,008.5	7,011.0	7,009.3	61.7	1.7	91.16	-1,666.5	337.2	1,333.5	1,270.6	62.91	21.197	
10,100.0	7,008.3	7,011.0	7,009.3	62.9	1.7	91.14	-1,666.5	337.2	1,393.4	1,329.4	64.07	21.749	
10,137.8	7,008.2	7,010.9	7,009.3	63.6	1.7	91.13	-1,666.5	337.2	1,430.8	1,366.0	64.79	22.083	
10,200.0	7,008.0	7,010.9	7,009.2	64.8	1.7	91.12	-1,666.5	337.2	1,492.4	1,426.4	65.98	22.618	
10,236.2	7,007.9	7,010.8	7,009.2	65.5	1.7	91.11	-1,666.5	337.2	1,528.3	1,461.6	66.68	22.920	
10,300.0	7,007.6	7,010.8	7,009.1	66.7	1.7	91.09	-1,666.5	337.2	1,591.5	1,523.6	67.90	23.439	
10,334.6	7,007.5	7,010.7	7,009.1	67.3	1.7	91.08	-1,666.5	337.2	1,625.9	1,557.3	68.57	23.712	
10,400.0	7,007.3	7,010.7	7,009.0	68.6	1.7	91.06	-1,666.5	337.2	1,690.8	1,620.9	69.83	24.214	
10,433.0	7,007.2	7,010.7	7,009.0	69.2	1.7	91.06	-1,666.5	337.2	1,723.6	1,653.1	70.46	24.461	
10,500.0	7,007.0	7,010.6	7,008.9	70.5	1.7	91.04	-1,666.5	337.2	1,790.1	1,718.3	71.75	24.948	
10,531.5	7,006.9	7,010.6	7,008.9	71.1	1.7	91.03	-1,666.5	337.2	1,821.4	1,749.0	72.36	25.171	
10,600.0	7,006.7	7,010.5	7,008.9	72.4	1.7	91.01	-1,666.5	337.2	1,889.5	1,815.8	73.68	25.644	
10,629.9	7,006.6	7,010.5	7,008.8	73.0	1.7	91.01	-1,666.5	337.2	1,919.2	1,844.9	74.26	25.845	
10,700.0	7,006.4	7,010.4	7,008.8	74.3	1.7	90.99	-1,666.5	337.2	1,988.9	1,913.3	75.61	26.304	
10,728.3	7,006.3	7,010.4	7,008.7	74.9	1.7	90.98	-1,666.5	337.2	2,017.1	1,940.9	76.16	26.485	
10,800.0	7,006.0	7,010.4	7,008.7	76.3	1.7	90.96	-1,666.5	337.2	2,088.4	2,010.9	77.55	26.932	
10,826.7	7,005.9	7,010.3	7,008.7	76.8	1.7	90.96	-1,666.5	337.2	2,115.0	2,037.0	78.06	27.094	
10,900.0	7,005.7	7,010.3	7,008.6	78.2	1.7	90.94	-1,666.5	337.2	2,187.9	2,108.5	79.48	27.528	
10,925.2	7,005.6	7,010.3	7,008.6	78.7	1.7	90.93	-1,666.5	337.2	2,213.0	2,133.0	79.97	27.673	
11,000.0	7,005.4	7,010.2	7,008.5	80.1	1.7	90.92	-1,666.5	337.2	2,287.5	2,206.1	81.42	28.096	
11,023.6	7,005.3	7,010.2	7,008.5	80.6	1.7	90.91	-1,666.5	337.2	2,311.0	2,229.2	81.88	28.226	
11,100.0	7,005.1	7,010.1	7,008.5	82.0	1.7	90.89	-1,666.5	337.2	2,387.1	2,303.8	83.36	28.637	
11,122.0	7,005.0	7,010.1	7,008.4	82.5	1.7	90.89	-1,666.5	337.2	2,409.1	2,325.3	83.79	28.753	
11,200.0	7,004.7	7,010.0	7,008.4	84.0	1.7	90.87	-1,666.5	337.2	2,486.8	2,401.5	85.30	29.153	
11,220.4	7,004.7	7,010.0	7,008.4	84.4	1.7	90.86	-1,666.5	337.2	2,507.2	2,421.5	85.70	29.256	
11,300.0	7,004.4	7,010.0	7,008.3	85.9	1.7	90.84	-1,666.5	337.2	2,586.5	2,499.2	87.25	29.646	
11,318.9	7,004.4	7,000.0	6,998.3	86.3	1.7	88.05	-1,666.5	336.9	2,605.3	2,517.8	87.51	29.772	
11,400.0	7,004.1	7,000.0	6,998.3	87.8	1.7	88.05	-1,666.5	336.9	2,686.2	2,597.1	89.09	30.152	
11,417.3	7,004.0	7,000.0	6,998.3	88.2	1.7	88.05	-1,666.5	336.9	2,703.4	2,614.0	89.42	30.232	
11,500.0	7,003.8	7,000.0	6,998.3	89.8	1.7	88.05	-1,666.5	336.9	2,785.9	2,694.9	91.03	30.603	
11,515.7	7,003.7	7,000.0	6,998.3	90.1	1.7	88.05	-1,666.5	336.9	2,801.6	2,710.3	91.34	30.672	
11,600.0	7,003.4	7,000.0	6,998.3	91.7	1.7	88.04	-1,666.5	336.9	2,885.7	2,792.7	92.98	31.035	
11,614.1	7,003.4	7,000.0	6,998.3	92.0	1.7	88.04	-1,666.5	336.9	2,899.8	2,806.5	93.26	31.094	
11,700.0	7,003.1	7,000.0	6,998.3	93.7	1.7	88.04	-1,666.5	336.9	2,985.4	2,890.5	94.93	31.448	
11,712.6	7,003.1	7,000.0	6,998.3	93.9	1.7	88.04	-1,666.5	336.9	2,998.0	2,902.8	95.18	31.499	
11,800.0	7,002.8	7,000.0	6,998.3	95.6	1.7	88.04	-1,666.5	336.9	3,085.2	2,988.3	96.88	31.845	
11,811.0	7,002.7	7,000.0	6,998.3	95.8	1.7	88.04	-1,666.5	336.9	3,096.2	2,999.1	97.10	31.888	
11,900.0	7,002.5	7,000.0	6,998.3	97.6	1.7	88.04	-1,666.5	336.9	3,185.0	3,086.1	98.83	32.226	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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)	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	7,002.4	7,000.0	6,998.3	97.7	1.7	88.04	-1,666.5	336.9	3,194.4	3,095.4	99.02	32.261	
12,000.0	7,002.1	7,000.0	6,998.3	99.5	1.7	88.03	-1,666.5	336.9	3,284.8	3,184.0	100.78	32.592	
12,007.8	7,002.1	7,000.0	6,998.3	99.7	1.7	88.03	-1,666.5	336.9	3,292.6	3,191.7	100.94	32.620	
12,100.0	7,001.8	7,000.0	6,998.3	101.5	1.7	88.03	-1,666.5	336.9	3,384.6	3,281.9	102.74	32.944	
12,106.3	7,001.8	7,000.0	6,998.3	101.6	1.7	88.03	-1,666.5	336.9	3,390.9	3,288.0	102.86	32.965	
12,200.0	7,001.5	7,000.0	6,998.3	103.4	1.7	88.03	-1,666.5	336.9	3,484.4	3,379.7	104.69	33.282	
12,204.7	7,001.5	7,000.0	6,998.3	103.5	1.7	88.03	-1,666.5	336.9	3,489.1	3,384.3	104.78	33.298	
12,300.0	7,001.2	7,000.0	6,998.3	105.3	1.7	88.03	-1,666.5	336.9	3,584.2	3,477.6	106.65	33.608	
12,303.1	7,001.1	7,000.0	6,998.3	105.4	1.7	88.03	-1,666.5	336.9	3,587.4	3,480.7	106.71	33.618	
12,400.0	7,000.8	7,000.0	6,998.3	107.3	1.7	88.02	-1,666.5	336.9	3,684.1	3,575.5	108.60	33.922	
12,401.5	7,000.8	7,000.0	6,998.3	107.3	1.7	88.02	-1,666.5	336.9	3,685.6	3,577.0	108.63	33.927	
12,500.0	7,000.5	7,000.0	6,998.3	109.3	1.7	88.02	-1,666.5	336.9	3,783.9	3,673.4	110.56	34.225	
12,598.4	7,000.2	7,000.0	6,998.3	111.2	1.7	88.02	-1,666.5	336.9	3,882.2	3,769.7	112.49	34.513	
12,600.0	7,000.2	7,000.0	6,998.3	111.2	1.7	88.02	-1,666.5	336.9	3,883.8	3,771.3	112.52	34.517	
12,696.8	6,999.8	7,000.0	6,998.3	113.1	1.7	88.02	-1,666.5	336.9	3,980.5	3,866.1	114.41	34.790	
12,700.0	6,999.8	7,000.0	6,998.3	113.2	1.7	88.01	-1,666.5	336.9	3,983.7	3,869.2	114.48	34.799	
12,795.2	6,999.5	7,000.0	6,998.3	115.0	1.7	88.01	-1,666.5	336.9	4,078.8	3,962.4	116.34	35.059	
12,800.0	6,999.5	7,000.0	6,998.3	115.1	1.7	88.01	-1,666.5	336.9	4,083.5	3,967.1	116.43	35.071	
12,893.7	6,999.2	7,000.0	6,998.3	116.9	1.7	88.01	-1,666.5	336.9	4,177.1	4,058.8	118.27	35.318	
12,900.0	6,999.2	7,000.0	6,998.3	117.1	1.7	88.01	-1,666.5	336.9	4,183.4	4,065.0	118.39	35.335	
12,992.1	6,998.9	7,000.0	6,998.3	118.9	1.7	88.01	-1,666.5	336.9	4,275.4	4,155.2	120.20	35.569	
13,000.0	6,998.8	7,000.0	6,998.3	119.0	1.7	88.00	-1,666.5	336.9	4,283.3	4,162.9	120.35	35.589	
13,090.5	6,998.6	7,000.0	6,998.3	120.8	1.7	88.00	-1,666.5	336.9	4,373.7	4,251.6	122.13	35.812	
13,100.0	6,998.5	7,000.0	6,998.3	121.0	1.7	88.00	-1,666.5	336.9	4,383.2	4,260.9	122.31	35.835	
13,188.9	6,998.2	7,000.0	6,998.3	122.7	1.7	88.00	-1,666.5	336.9	4,472.0	4,348.0	124.06	36.047	
13,200.0	6,998.2	7,000.0	6,998.3	122.9	1.7	88.00	-1,666.5	336.9	4,483.1	4,358.8	124.28	36.074	
13,287.4	6,997.9	7,000.0	6,998.3	124.6	1.7	88.00	-1,666.5	336.9	4,570.4	4,444.4	125.99	36.276	
13,300.0	6,997.9	7,000.0	6,998.3	124.9	1.7	87.99	-1,666.5	336.9	4,583.0	4,456.7	126.24	36.304	
13,385.8	6,997.6	7,000.0	6,998.3	126.6	1.7	87.99	-1,666.5	336.9	4,668.7	4,540.8	127.92	36.497	
13,400.0	6,997.5	7,000.0	6,998.3	126.9	1.7	87.99	-1,666.5	336.9	4,682.9	4,554.7	128.20	36.528	
13,484.2	6,997.3	7,000.0	6,998.3	128.5	1.7	87.99	-1,666.5	336.9	4,767.0	4,637.2	129.85	36.711	
13,500.0	6,997.2	7,000.0	6,998.3	128.8	1.7	87.99	-1,666.5	336.9	4,782.8	4,652.6	130.16	36.745	
13,582.6	6,996.9	7,000.0	6,998.3	130.4	1.7	87.99	-1,666.5	336.9	4,865.4	4,733.6	131.79	36.919	
13,600.0	6,996.9	7,000.0	6,998.3	130.8	1.7	87.98	-1,666.5	336.9	4,882.7	4,750.6	132.13	36.955	
13,681.1	6,996.6	7,000.0	6,998.3	132.4	1.7	87.98	-1,666.5	336.9	4,963.7	4,830.0	133.72	37.121	
13,700.0	6,996.5	7,000.0	6,998.3	132.7	1.7	87.98	-1,666.5	336.9	4,982.6	4,848.5	134.09	37.159	
13,779.5	6,996.3	7,000.0	6,998.3	134.3	1.7	87.98	-1,666.5	336.9	5,062.0	4,926.4	135.65	37.317	
13,800.0	6,996.2	7,000.0	6,998.3	134.7	1.7	87.97	-1,666.5	336.9	5,082.5	4,946.5	136.05	37.357	
13,877.9	6,995.9	7,000.0	6,998.3	136.2	1.7	87.97	-1,666.5	336.9	5,160.4	5,022.8	137.58	37.507	
13,900.0	6,995.9	7,000.0	6,998.3	136.7	1.7	87.97	-1,666.5	336.9	5,182.4	5,044.4	138.02	37.549	
13,976.3	6,995.6	7,000.0	6,998.3	138.2	1.7	87.97	-1,666.5	336.9	5,258.7	5,119.2	139.52	37.692	
14,000.0	6,995.5	7,000.0	6,998.3	138.6	1.7	87.97	-1,666.5	336.9	5,282.4	5,142.4	139.98	37.736	
14,074.8	6,995.3	7,000.0	6,998.3	140.1	1.7	87.97	-1,666.5	336.9	5,357.1	5,215.6	141.45	37.872	
14,100.0	6,995.2	7,000.0	6,998.3	140.6	1.7	87.96	-1,666.5	336.9	5,382.3	5,240.4	141.95	37.918	
14,162.0	6,995.0	7,000.0	6,998.3	141.8	1.7	87.96	-1,666.5	336.9	5,444.3	5,301.1	143.13	38.038	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	157.21	-2,834.3	1,190.7	7,622.0				
98.4	98.4	11,613.7	6,907.5	0.1	92.0	157.21	-2,834.3	1,190.7	7,532.0	7,444.9	87.07	86.505	
100.0	100.0	11,613.7	6,907.5	0.1	92.0	157.21	-2,834.3	1,190.7	7,530.6	7,443.5	87.07	86.487	
196.8	196.8	11,613.7	6,907.5	0.3	92.0	157.21	-2,834.3	1,190.7	7,442.3	7,355.0	87.29	85.260	
200.0	200.0	11,613.7	6,907.5	0.3	92.0	157.21	-2,834.3	1,190.7	7,439.4	7,352.1	87.30	85.220	
295.3	295.3	11,613.7	6,907.5	0.5	92.0	157.21	-2,834.3	1,190.7	7,352.7	7,265.2	87.51	84.021	
300.0	300.0	11,613.7	6,907.5	0.5	92.0	157.21	-2,834.3	1,190.7	7,348.5	7,260.9	87.52	83.962	
393.7	393.7	11,613.7	6,907.5	0.8	92.0	157.21	-2,834.3	1,190.7	7,263.5	7,175.7	87.73	82.791	
400.0	400.0	11,613.7	6,907.5	0.8	92.0	157.21	-2,834.3	1,190.7	7,257.7	7,170.0	87.75	82.713	
492.1	492.1	11,613.7	6,907.5	1.0	92.0	157.21	-2,834.3	1,190.7	7,174.4	7,086.5	87.95	81.571	
500.0	500.0	11,613.7	6,907.5	1.0	92.0	157.21	-2,834.3	1,190.7	7,167.3	7,079.3	87.97	81.473	
590.5	590.5	11,613.7	6,907.5	1.2	92.0	157.21	-2,834.3	1,190.7	7,085.6	6,997.4	88.17	80.359	
600.0	600.0	11,613.7	6,907.5	1.2	92.0	157.21	-2,834.3	1,190.7	7,077.1	6,988.9	88.20	80.243	
689.0	689.0	11,613.7	6,907.5	1.4	92.0	157.21	-2,834.3	1,190.7	6,997.0	6,908.7	88.40	79.156	
700.0	700.0	11,613.7	6,907.5	1.4	92.0	157.21	-2,834.3	1,190.7	6,987.1	6,898.7	88.42	79.022	
787.4	787.4	11,613.7	6,907.5	1.6	92.0	157.21	-2,834.3	1,190.7	6,908.8	6,820.2	88.62	77.962	
800.0	800.0	11,613.7	6,907.5	1.7	92.0	157.21	-2,834.3	1,190.7	6,897.5	6,808.8	88.65	77.810	
885.8	885.8	11,613.7	6,907.5	1.9	92.0	157.21	-2,834.3	1,190.7	6,820.8	6,731.9	88.84	76.777	
900.0	900.0	11,613.7	6,907.5	1.9	92.0	157.21	-2,834.3	1,190.7	6,808.1	6,719.2	88.87	76.608	
984.2	984.2	11,613.7	6,907.5	2.1	92.0	157.21	-2,834.3	1,190.7	6,733.1	6,644.0	89.06	75.602	
1,000.0	1,000.0	11,613.7	6,907.5	2.1	92.0	157.21	-2,834.3	1,190.7	6,719.0	6,629.9	89.09	75.415	
1,082.7	1,082.7	11,613.7	6,907.5	2.3	92.0	157.21	-2,834.3	1,190.7	6,645.6	6,556.4	89.28	74.435	
1,100.0	1,100.0	11,613.7	6,907.5	2.3	92.0	157.21	-2,834.3	1,190.7	6,630.3	6,541.0	89.32	74.231	
1,181.1	1,181.1	11,613.7	6,907.5	2.5	92.0	97.69	-2,834.3	1,190.7	6,558.6	6,532.2	26.41	248.298	
1,200.0	1,200.0	11,613.7	6,907.5	2.6	92.0	98.39	-2,834.3	1,190.7	6,541.9	6,515.8	26.16	250.096	
1,279.5	1,279.5	11,613.7	6,907.5	2.7	92.0	101.27	-2,834.3	1,190.7	6,472.1	6,446.5	25.61	252.705	
1,300.0	1,299.8	11,613.7	6,907.5	2.8	92.0	102.00	-2,834.3	1,190.7	6,454.2	6,428.6	25.61	252.026	
1,377.9	1,377.5	11,613.7	6,907.5	3.0	92.0	104.69	-2,834.3	1,190.7	6,386.2	6,360.1	26.09	244.780	
1,400.0	1,399.5	11,613.7	6,907.5	3.0	92.0	105.43	-2,834.3	1,190.7	6,367.1	6,340.8	26.35	241.634	
1,476.4	1,475.3	11,613.7	6,907.5	3.2	92.0	107.93	-2,834.3	1,190.7	6,301.2	6,273.6	27.61	228.235	
1,500.0	1,498.7	11,613.7	6,907.5	3.2	92.0	108.68	-2,834.3	1,190.7	6,280.9	6,252.8	28.09	223.630	
1,574.8	1,572.6	11,613.7	6,907.5	3.5	92.0	110.99	-2,834.3	1,190.7	6,217.1	6,187.3	29.81	208.554	
1,600.0	1,597.5	11,613.7	6,907.5	3.5	92.0	111.74	-2,834.3	1,190.7	6,195.7	6,165.3	30.44	203.540	
1,673.2	1,669.4	11,613.7	6,907.5	3.7	92.0	113.85	-2,834.3	1,190.7	6,134.1	6,101.7	32.37	189.502	
1,700.0	1,695.7	11,613.7	6,907.5	3.8	92.0	114.59	-2,834.3	1,190.7	6,111.6	6,078.5	33.09	184.692	
1,771.6	1,765.7	11,613.7	6,907.5	4.1	92.0	114.59	-2,834.3	1,190.7	6,052.0	6,018.7	33.32	181.606	
1,800.0	1,793.4	11,613.7	6,907.5	4.2	92.0	114.59	-2,834.3	1,190.7	6,028.5	5,995.1	33.42	180.398	
1,870.1	1,862.0	11,613.7	6,907.5	4.4	92.0	114.59	-2,834.3	1,190.7	5,970.5	5,936.9	33.66	177.379	
1,900.0	1,891.3	11,613.7	6,907.5	4.5	92.0	114.59	-2,834.3	1,190.7	5,945.8	5,912.1	33.76	176.109	
1,968.5	1,958.3	11,613.7	6,907.5	4.8	92.0	114.59	-2,834.3	1,190.7	5,889.5	5,855.5	34.01	173.183	
2,000.0	1,989.1	11,613.7	6,907.5	4.9	92.0	114.59	-2,834.3	1,190.7	5,863.7	5,829.6	34.12	171.852	
2,066.9	2,054.5	11,613.7	6,907.5	5.2	92.0	114.59	-2,834.3	1,190.7	5,809.1	5,774.7	34.37	169.025	
2,100.0	2,086.9	11,613.7	6,907.5	5.3	92.0	114.59	-2,834.3	1,190.7	5,782.2	5,747.7	34.49	167.645	
2,165.3	2,150.8	11,613.7	6,907.5	5.6	92.0	114.59	-2,834.3	1,190.7	5,729.2	5,694.5	34.74	164.927	
2,200.0	2,184.7	11,613.7	6,907.5	5.7	92.0	114.59	-2,834.3	1,190.7	5,701.2	5,666.3	34.87	163.503	
2,263.8	2,247.1	11,613.7	6,907.5	5.9	92.0	114.59	-2,834.3	1,190.7	5,649.9	5,614.8	35.12	160.897	
2,300.0	2,282.5	11,613.7	6,907.5	6.1	92.0	114.59	-2,834.3	1,190.7	5,620.9	5,585.6	35.25	159.435	
2,362.2	2,343.4	11,613.7	6,907.5	6.4	92.0	114.59	-2,834.3	1,190.7	5,571.2	5,535.7	35.50	156.942	
2,400.0	2,380.3	11,613.7	6,907.5	6.5	92.0	114.59	-2,834.3	1,190.7	5,541.1	5,505.5	35.65	155.447	
2,460.6	2,439.6	11,613.7	6,907.5	6.8	92.0	114.59	-2,834.3	1,190.7	5,493.1	5,457.3	35.89	153.069	
2,500.0	2,478.1	11,613.7	6,907.5	6.9	92.0	114.59	-2,834.3	1,190.7	5,462.1	5,426.1	36.04	151.544	
2,559.0	2,535.9	11,613.7	6,907.5	7.2	92.0	114.59	-2,834.3	1,190.7	5,415.7	5,379.5	36.28	149.279	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
2,600.0	2,576.0	11,613.7	6,907.5	7.4	92.0	114.59	-2,834.3	1,190.7	5,383.8	5,347.3	36.44	147.729	
2,657.5	2,632.2	11,613.7	6,907.5	7.6	92.0	114.59	-2,834.3	1,190.7	5,339.0	5,302.4	36.68	145.575	
2,700.0	2,673.8	11,613.7	6,907.5	7.8	92.0	114.59	-2,834.3	1,190.7	5,306.1	5,269.3	36.85	144.003	
2,755.9	2,728.4	11,613.7	6,907.5	8.0	92.0	114.59	-2,834.3	1,190.7	5,263.1	5,226.0	37.07	141.958	
2,800.0	2,771.6	11,613.7	6,907.5	8.2	92.0	114.59	-2,834.3	1,190.7	5,229.3	5,192.0	37.25	140.367	
2,854.3	2,824.7	11,613.7	6,907.5	8.4	92.0	114.59	-2,834.3	1,190.7	5,187.8	5,150.4	37.48	138.429	
2,900.0	2,869.4	11,613.7	6,907.5	8.6	92.0	114.59	-2,834.3	1,190.7	5,153.2	5,115.5	37.66	136.822	
2,952.7	2,921.0	11,613.7	6,907.5	8.9	92.0	114.59	-2,834.3	1,190.7	5,113.4	5,075.5	37.88	134.988	
3,000.0	2,967.2	11,613.7	6,907.5	9.1	92.0	114.59	-2,834.3	1,190.7	5,078.0	5,039.9	38.07	133.368	
3,051.2	3,017.3	11,613.7	6,907.5	9.3	92.0	114.59	-2,834.3	1,190.7	5,039.8	5,001.5	38.29	131.634	
3,100.0	3,065.0	11,613.7	6,907.5	9.5	92.0	114.59	-2,834.3	1,190.7	5,003.6	4,965.1	38.49	130.004	
3,149.6	3,113.5	11,613.7	6,907.5	9.7	92.0	114.59	-2,834.3	1,190.7	4,967.0	4,928.4	38.69	128.368	
3,200.0	3,162.8	11,613.7	6,907.5	9.9	92.0	114.59	-2,834.3	1,190.7	4,930.1	4,891.2	38.90	126.729	
3,248.0	3,209.8	11,613.7	6,907.5	10.2	92.0	114.59	-2,834.3	1,190.7	4,895.2	4,856.1	39.10	125.187	
3,300.0	3,260.7	11,613.7	6,907.5	10.4	92.0	114.59	-2,834.3	1,190.7	4,857.6	4,818.3	39.32	123.543	
3,346.4	3,306.1	11,613.7	6,907.5	10.6	92.0	114.59	-2,834.3	1,190.7	4,824.3	4,784.8	39.51	122.093	
3,400.0	3,358.5	11,613.7	6,907.5	10.8	92.0	114.59	-2,834.3	1,190.7	4,786.1	4,746.4	39.74	120.445	
3,444.9	3,402.4	11,613.7	6,907.5	11.0	92.0	114.59	-2,834.3	1,190.7	4,754.3	4,714.4	39.92	119.083	
3,500.0	3,456.3	11,613.7	6,907.5	11.3	92.0	114.59	-2,834.3	1,190.7	4,715.6	4,675.5	40.16	117.434	
3,543.3	3,498.6	11,613.7	6,907.5	11.5	92.0	114.59	-2,834.3	1,190.7	4,685.4	4,645.1	40.34	116.157	
3,600.0	3,554.1	11,613.7	6,907.5	11.7	92.0	114.59	-2,834.3	1,190.7	4,646.2	4,605.6	40.57	114.509	
3,641.7	3,594.9	11,613.7	6,907.5	11.9	92.0	114.59	-2,834.3	1,190.7	4,617.6	4,576.8	40.75	113.314	
3,700.0	3,651.9	11,613.7	6,907.5	12.2	92.0	114.59	-2,834.3	1,190.7	4,577.9	4,536.9	41.00	111.670	
3,740.1	3,691.2	11,613.7	6,907.5	12.3	92.0	114.59	-2,834.3	1,190.7	4,550.9	4,509.7	41.16	110.553	
3,800.0	3,749.7	11,613.7	6,907.5	12.6	92.0	114.59	-2,834.3	1,190.7	4,510.9	4,469.4	41.42	108.914	
3,838.6	3,787.5	11,613.7	6,907.5	12.8	92.0	114.59	-2,834.3	1,190.7	4,485.3	4,443.7	41.58	107.873	
3,900.0	3,847.5	11,613.7	6,907.5	13.0	92.0	114.59	-2,834.3	1,190.7	4,445.0	4,403.2	41.84	106.242	
3,937.0	3,883.7	11,613.7	6,907.5	13.2	92.0	114.59	-2,834.3	1,190.7	4,421.0	4,379.0	41.99	105.274	
4,000.0	3,945.4	11,613.7	6,907.5	13.5	92.0	114.59	-2,834.3	1,190.7	4,380.4	4,338.2	42.26	103.652	
4,035.4	3,980.0	11,613.7	6,907.5	13.7	92.0	114.59	-2,834.3	1,190.7	4,357.9	4,315.5	42.41	102.754	
4,068.9	4,012.7	11,613.7	6,907.5	13.8	92.0	114.59	-2,834.3	1,190.7	4,336.8	4,294.2	42.55	101.916	
4,100.0	4,043.2	11,613.7	6,907.5	13.9	92.0	114.13	-2,834.3	1,190.7	4,317.2	4,274.9	42.30	102.052	
4,133.8	4,076.4	11,613.7	6,907.5	14.0	92.0	113.63	-2,834.3	1,190.7	4,295.9	4,253.9	42.01	102.254	
4,200.0	4,141.6	11,613.7	6,907.5	14.2	92.0	112.66	-2,834.3	1,190.7	4,254.5	4,213.0	41.46	102.623	
4,232.3	4,173.4	11,613.7	6,907.5	14.3	92.0	112.18	-2,834.3	1,190.7	4,234.3	4,193.1	41.19	102.812	
4,300.0	4,240.5	11,613.7	6,907.5	14.5	92.0	111.18	-2,834.3	1,190.7	4,192.2	4,151.5	40.64	103.157	
4,330.7	4,271.0	11,613.7	6,907.5	14.6	92.0	110.72	-2,834.3	1,190.7	4,173.1	4,132.7	40.39	103.311	
4,400.0	4,339.9	11,613.7	6,907.5	14.8	92.0	109.70	-2,834.3	1,190.7	4,130.3	4,090.5	39.88	103.575	
4,429.1	4,368.9	11,613.7	6,907.5	14.8	92.0	109.27	-2,834.3	1,190.7	4,112.4	4,072.8	39.67	103.672	
4,500.0	4,439.6	11,613.7	6,907.5	15.0	92.0	108.24	-2,834.3	1,190.7	4,069.1	4,029.9	39.21	103.788	
4,527.5	4,467.1	11,613.7	6,907.5	15.0	92.0	107.83	-2,834.3	1,190.7	4,052.3	4,013.3	39.04	103.809	
4,600.0	4,539.5	11,613.7	6,907.5	15.1	92.0	106.78	-2,834.3	1,190.7	4,008.5	3,969.8	38.65	103.707	
4,626.0	4,565.4	11,613.7	6,907.5	15.2	92.0	106.41	-2,834.3	1,190.7	3,992.9	3,954.3	38.53	103.633	
4,668.9	4,608.4	11,613.7	6,907.5	15.2	92.0	168.36	-2,834.3	1,190.7	3,967.2	3,928.9	38.29	103.615	
4,700.0	4,639.5	11,613.7	6,907.5	15.3	92.0	168.36	-2,834.3	1,190.7	3,948.7	3,910.4	38.33	103.022	
4,724.4	4,663.9	11,613.7	6,907.5	15.3	92.0	168.36	-2,834.3	1,190.7	3,934.3	3,896.0	38.36	102.550	
4,800.0	4,739.5	11,613.7	6,907.5	15.4	92.0	168.36	-2,834.3	1,190.7	3,890.4	3,851.9	38.48	101.112	
4,822.8	4,762.3	11,613.7	6,907.5	15.4	92.0	168.36	-2,834.3	1,190.7	3,877.4	3,838.8	38.51	100.684	
4,900.0	4,839.5	11,613.7	6,907.5	15.6	92.0	168.36	-2,834.3	1,190.7	3,833.8	3,795.2	38.63	99.257	
4,921.2	4,860.7	11,613.7	6,907.5	15.6	92.0	168.36	-2,834.3	1,190.7	3,822.1	3,783.4	38.66	98.870	
5,000.0	4,939.5	11,613.7	6,907.5	15.7	92.0	168.36	-2,834.3	1,190.7	3,779.1	3,740.3	38.78	97.458	
5,019.7	4,959.1	11,613.7	6,907.5	15.7	92.0	168.36	-2,834.3	1,190.7	3,768.5	3,729.7	38.81	97.111	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	5,039.5	11,613.7	6,907.5	15.9	92.0	168.36	-2,834.3	1,190.7	3,726.2	3,687.2	38.93	95.717	
5,118.1	5,057.6	11,613.7	6,907.5	15.9	92.0	168.36	-2,834.3	1,190.7	3,716.8	3,677.8	38.96	95.408	
5,200.0	5,139.5	11,613.7	6,907.5	16.0	92.0	168.36	-2,834.3	1,190.7	3,675.2	3,636.2	39.08	94.035	
5,216.5	5,156.0	11,613.7	6,907.5	16.0	92.0	168.36	-2,834.3	1,190.7	3,667.0	3,627.9	39.11	93.763	
5,300.0	5,239.5	11,613.7	6,907.5	16.2	92.0	168.36	-2,834.3	1,190.7	3,626.3	3,587.1	39.24	92.415	
5,314.9	5,254.4	11,613.7	6,907.5	16.2	92.0	168.36	-2,834.3	1,190.7	3,619.2	3,579.9	39.26	92.178	
5,400.0	5,339.5	11,613.7	6,907.5	16.3	92.0	168.36	-2,834.3	1,190.7	3,579.6	3,540.2	39.40	90.858	
5,413.4	5,352.8	11,613.7	6,907.5	16.3	92.0	168.36	-2,834.3	1,190.7	3,573.5	3,534.1	39.42	90.655	
5,500.0	5,439.5	11,613.7	6,907.5	16.5	92.0	168.36	-2,834.3	1,190.7	3,535.0	3,495.5	39.56	89.366	
5,511.8	5,451.3	11,613.7	6,907.5	16.5	92.0	168.36	-2,834.3	1,190.7	3,529.9	3,490.3	39.58	89.194	
5,600.0	5,539.5	11,613.7	6,907.5	16.6	92.0	168.36	-2,834.3	1,190.7	3,492.8	3,453.0	39.72	87.940	
5,610.2	5,549.7	11,613.7	6,907.5	16.6	92.0	168.36	-2,834.3	1,190.7	3,488.6	3,448.8	39.73	87.798	
5,700.0	5,639.5	11,613.7	6,907.5	16.8	92.0	168.36	-2,834.3	1,190.7	3,452.9	3,413.0	39.88	86.582	
5,708.6	5,648.1	11,613.7	6,907.5	16.8	92.0	168.36	-2,834.3	1,190.7	3,449.5	3,409.6	39.89	86.467	
5,800.0	5,739.5	11,613.7	6,907.5	17.0	92.0	168.36	-2,834.3	1,190.7	3,415.5	3,375.4	40.04	85.293	
5,807.1	5,746.5	11,613.7	6,907.5	17.0	92.0	168.36	-2,834.3	1,190.7	3,412.9	3,372.8	40.06	85.205	
5,900.0	5,839.5	11,613.7	6,907.5	17.1	92.0	168.36	-2,834.3	1,190.7	3,380.6	3,340.4	40.21	84.075	
5,905.5	5,845.0	11,613.7	6,907.5	17.1	92.0	168.36	-2,834.3	1,190.7	3,378.7	3,338.5	40.22	84.011	
6,000.0	5,939.5	11,613.7	6,907.5	17.3	92.0	168.36	-2,834.3	1,190.7	3,348.3	3,308.0	40.38	82.930	
6,003.9	5,943.4	11,613.7	6,907.5	17.3	92.0	168.36	-2,834.3	1,190.7	3,347.1	3,306.7	40.38	82.886	
6,100.0	6,039.5	11,613.7	6,907.5	17.4	92.0	168.36	-2,834.3	1,190.7	3,318.8	3,278.2	40.54	81.858	
6,102.3	6,041.8	11,613.7	6,907.5	17.4	92.0	168.36	-2,834.3	1,190.7	3,318.1	3,277.6	40.55	81.833	
6,200.0	6,139.5	11,613.7	6,907.5	17.6	92.0	168.36	-2,834.3	1,190.7	3,292.0	3,251.3	40.71	80.860	
6,200.8	6,140.2	11,613.7	6,907.5	17.6	92.0	168.36	-2,834.3	1,190.7	3,291.8	3,251.1	40.71	80.853	
6,299.2	6,238.7	11,613.7	6,907.5	17.8	92.0	168.36	-2,834.3	1,190.7	3,268.3	3,227.4	40.88	79.945	
6,300.0	6,239.5	11,613.7	6,907.5	17.8	92.0	168.36	-2,834.3	1,190.7	3,268.1	3,227.2	40.88	79.938	
6,360.9	6,300.4	11,613.7	6,907.5	17.9	92.0	168.36	-2,834.3	1,190.7	3,254.9	3,213.9	40.99	79.413	
6,397.6	6,337.1	11,613.7	6,907.5	17.9	92.0	-11.99	-2,834.3	1,190.7	3,246.6	3,205.7	40.88	79.415	
6,400.0	6,339.5	11,613.7	6,907.5	17.9	92.0	-12.00	-2,834.3	1,190.7	3,246.0	3,205.2	40.87	79.420	
6,450.0	6,389.2	11,613.7	6,907.5	18.0	92.0	-12.24	-2,834.3	1,190.7	3,232.4	3,191.7	40.69	79.448	
6,496.0	6,434.7	11,613.7	6,907.5	18.0	92.0	-12.51	-2,834.3	1,190.7	3,217.5	3,176.9	40.57	79.298	
6,500.0	6,438.6	11,613.7	6,907.5	18.0	92.0	-12.53	-2,834.3	1,190.7	3,216.1	3,175.6	40.57	79.276	
6,550.0	6,487.3	11,613.7	6,907.5	18.0	92.0	-12.89	-2,834.3	1,190.7	3,197.4	3,156.9	40.53	78.891	
6,594.5	6,529.8	11,613.7	6,907.5	18.0	92.0	-13.26	-2,834.3	1,190.7	3,178.7	3,138.1	40.57	78.358	
6,600.0	6,535.1	11,613.7	6,907.5	18.1	92.0	-13.31	-2,834.3	1,190.7	3,176.2	3,135.6	40.58	78.278	
6,650.0	6,581.7	11,613.7	6,907.5	18.0	92.0	-13.82	-2,834.3	1,190.7	3,152.6	3,111.9	40.72	77.429	
6,692.9	6,620.6	11,613.7	6,907.5	18.0	92.0	-14.32	-2,834.3	1,190.7	3,130.5	3,089.6	40.92	76.503	
6,700.0	6,626.9	11,613.7	6,907.5	18.0	92.0	-14.41	-2,834.3	1,190.7	3,126.7	3,085.7	40.96	76.330	
6,750.0	6,670.6	11,613.7	6,907.5	18.0	92.0	-15.10	-2,834.3	1,190.7	3,098.4	3,057.1	41.33	74.970	
6,791.3	6,705.4	11,613.7	6,907.5	18.0	92.0	-15.77	-2,834.3	1,190.7	3,073.5	3,031.7	41.74	73.634	
6,800.0	6,712.5	11,613.7	6,907.5	18.0	92.0	-15.93	-2,834.3	1,190.7	3,068.0	3,026.2	41.84	73.327	
6,850.0	6,752.3	11,613.7	6,907.5	18.0	92.0	-16.89	-2,834.3	1,190.7	3,035.5	2,993.0	42.53	71.377	
6,889.7	6,782.5	11,613.7	6,907.5	18.0	92.0	-17.79	-2,834.3	1,190.7	3,008.2	2,964.9	43.23	69.587	
6,900.0	6,790.0	11,613.7	6,907.5	18.0	92.0	-18.04	-2,834.3	1,190.7	3,000.9	2,957.5	43.44	69.086	
6,950.0	6,825.3	11,613.7	6,907.5	18.0	92.0	-19.41	-2,834.3	1,190.7	2,964.4	2,919.8	44.64	66.412	
6,988.2	6,850.5	11,613.7	6,907.5	17.9	92.0	-20.64	-2,834.3	1,190.7	2,935.4	2,889.6	45.80	64.088	
7,000.0	6,858.0	11,613.7	6,907.5	17.9	92.0	-21.06	-2,834.3	1,190.7	2,926.2	2,879.9	46.22	63.312	
7,050.0	6,888.0	11,613.7	6,907.5	18.0	92.0	-23.06	-2,834.3	1,190.7	2,886.2	2,837.9	48.31	59.746	
7,086.6	6,908.1	11,613.7	6,907.5	18.0	92.0	-24.81	-2,834.3	1,190.7	2,855.9	2,805.6	50.27	56.811	
7,100.0	6,915.1	11,613.7	6,907.5	18.0	92.0	-25.52	-2,834.3	1,190.7	2,844.6	2,793.5	51.08	55.693	
7,150.0	6,939.2	11,613.7	6,907.5	18.0	92.0	-28.59	-2,834.3	1,190.7	2,801.6	2,746.9	54.75	51.171	
7,185.0	6,954.3	11,613.7	6,907.5	18.1	92.0	-31.20	-2,834.3	1,190.7	2,770.7	2,712.7	58.01	47.760	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,960.3	11,613.7	6,907.5	18.1	92.0	-32.46	-2,834.3	1,190.7	2,757.4	2,697.8	59.61	46.259	
7,250.0	6,978.1	11,613.7	6,907.5	18.3	92.0	-37.41	-2,834.3	1,190.7	2,712.0	2,646.0	65.96	41.118	
7,283.4	6,988.2	11,613.7	6,907.5	18.4	92.0	-41.52	-2,834.3	1,190.7	2,681.1	2,609.9	71.17	37.672	
7,300.0	6,992.6	11,613.7	6,907.5	18.4	92.0	-43.84	-2,834.3	1,190.7	2,665.6	2,591.6	74.04	36.003	
7,350.0	7,003.7	11,613.7	6,907.5	18.7	92.0	-52.21	-2,834.3	1,190.7	2,618.5	2,534.7	83.77	31.258	
7,381.9	7,009.1	11,613.7	6,907.5	18.9	92.0	-58.75	-2,834.3	1,190.7	2,588.2	2,497.7	90.47	28.609	
7,400.0	7,011.4	11,613.7	6,907.5	19.0	92.0	-62.93	-2,834.3	1,190.7	2,570.8	2,476.6	94.22	27.286	
7,450.0	7,015.7	11,613.7	6,907.5	19.3	92.0	-75.98	-2,834.3	1,190.7	2,522.8	2,419.7	103.03	24.485	
7,480.3	7,016.6	11,613.7	6,907.5	19.6	92.0	-84.67	-2,834.3	1,190.7	2,493.5	2,387.3	106.20	23.479	
7,488.2	7,016.6	11,613.7	6,907.5	19.6	92.0	-86.97	-2,834.3	1,190.7	2,485.9	2,379.3	106.66	23.307	
7,500.0	7,016.6	11,613.7	6,907.5	19.7	92.0	-86.97	-2,834.3	1,190.7	2,474.5	2,367.8	106.77	23.175	
7,578.7	7,016.3	11,613.7	6,907.5	20.5	92.0	-86.97	-2,834.3	1,190.7	2,398.7	2,291.1	107.60	22.292	
7,600.0	7,016.2	11,613.7	6,907.5	20.7	92.0	-86.98	-2,834.3	1,190.7	2,378.2	2,270.4	107.83	22.056	
7,677.1	7,016.0	11,613.7	6,907.5	21.6	92.0	-86.98	-2,834.3	1,190.7	2,304.2	2,195.4	108.74	21.190	
7,700.0	7,015.9	11,613.7	6,907.5	21.8	92.0	-86.98	-2,834.3	1,190.7	2,282.3	2,173.3	109.01	20.936	
7,775.6	7,015.7	11,613.7	6,907.5	22.7	92.0	-86.98	-2,834.3	1,190.7	2,210.0	2,100.0	109.99	20.092	
7,800.0	7,015.6	11,613.7	6,907.5	23.0	92.0	-86.98	-2,834.3	1,190.7	2,186.7	2,076.4	110.31	19.823	
7,874.0	7,015.4	11,613.7	6,907.5	24.0	92.0	-86.98	-2,834.3	1,190.7	2,116.2	2,004.8	111.34	19.006	
7,900.0	7,015.3	11,613.7	6,907.5	24.4	92.0	-86.98	-2,834.3	1,190.7	2,091.5	1,979.8	111.71	18.723	
7,972.4	7,015.1	11,613.7	6,907.5	25.4	92.0	-86.98	-2,834.3	1,190.7	2,022.8	1,910.0	112.78	17.936	
8,000.0	7,015.0	11,613.7	6,907.5	25.8	92.0	-86.98	-2,834.3	1,190.7	1,996.7	1,883.6	113.18	17.642	
8,070.8	7,014.8	11,613.7	6,907.5	26.8	92.0	-86.98	-2,834.3	1,190.7	1,930.0	1,815.7	114.28	16.888	
8,100.0	7,014.7	11,613.7	6,907.5	27.3	92.0	-86.98	-2,834.3	1,190.7	1,902.6	1,787.8	114.73	16.583	
8,169.3	7,014.4	11,613.7	6,907.5	28.3	92.0	-86.98	-2,834.3	1,190.7	1,837.7	1,721.8	115.83	15.865	
8,200.0	7,014.4	11,613.7	6,907.5	28.8	92.0	-86.98	-2,834.3	1,190.7	1,809.0	1,692.7	116.32	15.551	
8,267.7	7,014.1	11,613.7	6,907.5	29.9	92.0	-86.98	-2,834.3	1,190.7	1,746.1	1,628.6	117.44	14.868	
8,300.0	7,014.0	11,613.7	6,907.5	30.4	92.0	-86.98	-2,834.3	1,190.7	1,716.2	1,598.2	117.97	14.548	
8,366.1	7,013.8	11,613.7	6,907.5	31.5	92.0	-86.98	-2,834.3	1,190.7	1,655.2	1,536.1	119.08	13.900	
8,400.0	7,013.7	11,613.7	6,907.5	32.0	92.0	-86.98	-2,834.3	1,190.7	1,624.2	1,504.5	119.65	13.574	
8,464.5	7,013.5	11,613.7	6,907.5	33.1	92.0	-86.98	-2,834.3	1,190.7	1,565.3	1,444.5	120.76	12.962	
8,500.0	7,013.4	11,613.7	6,907.5	33.7	92.0	-86.98	-2,834.3	1,190.7	1,533.2	1,411.8	121.37	12.633	
8,563.0	7,013.2	11,613.7	6,907.5	34.8	92.0	-86.98	-2,834.3	1,190.7	1,476.5	1,354.0	122.47	12.056	
8,600.0	7,013.1	11,613.7	6,907.5	35.4	92.0	-86.98	-2,834.3	1,190.7	1,443.4	1,320.3	123.11	11.724	
8,661.4	7,012.9	11,613.7	6,907.5	36.5	92.0	-86.98	-2,834.3	1,190.7	1,388.9	1,264.8	124.20	11.183	
8,700.0	7,012.8	11,613.7	6,907.5	37.1	92.0	-86.98	-2,834.3	1,190.7	1,355.0	1,230.1	124.88	10.851	
8,759.8	7,012.6	11,613.7	6,907.5	38.2	92.0	-86.98	-2,834.3	1,190.7	1,303.0	1,177.0	125.95	10.345	
8,800.0	7,012.4	11,613.7	6,907.5	38.9	92.0	-86.98	-2,834.3	1,190.7	1,268.4	1,141.7	126.67	10.014	
8,858.2	7,012.3	11,613.7	6,907.5	39.9	92.0	-86.98	-2,834.3	1,190.7	1,218.9	1,091.2	127.72	9.543	
8,900.0	7,012.1	11,613.7	6,907.5	40.7	92.0	-86.98	-2,834.3	1,190.7	1,183.9	1,055.4	128.47	9.215	
8,956.7	7,011.9	11,613.7	6,907.5	41.7	92.0	-86.98	-2,834.3	1,190.7	1,137.1	1,007.6	129.51	8.780	
9,000.0	7,011.8	11,613.7	6,907.5	42.4	92.0	-86.98	-2,834.3	1,190.7	1,101.9	971.7	130.29	8.457	
9,055.1	7,011.6	11,613.7	6,907.5	43.4	92.0	-86.98	-2,834.3	1,190.7	1,058.1	926.8	131.31	8.059	
9,100.0	7,011.5	11,613.7	6,907.5	44.2	92.0	-86.98	-2,834.3	1,190.7	1,023.2	891.1	132.13	7.744	
9,153.5	7,011.3	11,613.7	6,907.5	45.2	92.0	-86.98	-2,834.3	1,190.7	982.7	849.6	133.12	7.382	
9,200.0	7,011.2	11,613.7	6,907.5	46.1	92.0	-86.98	-2,834.3	1,190.7	948.5	814.6	133.98	7.080	
9,251.9	7,011.0	11,613.7	6,907.5	47.0	92.0	-86.98	-2,834.3	1,190.7	911.7	776.7	134.94	6.756	
9,300.0	7,010.9	11,613.7	6,907.5	47.9	92.0	-86.98	-2,834.3	1,190.7	878.9	743.1	135.83	6.470	
9,350.4	7,010.7	11,613.7	6,907.5	48.8	92.0	-86.98	-2,834.3	1,190.7	846.1	709.4	136.78	6.186	
9,400.0	7,010.5	11,613.7	6,907.5	49.7	92.0	-86.98	-2,834.3	1,190.7	815.6	677.9	137.70	5.923	
9,448.8	7,010.4	11,613.7	6,907.5	50.6	92.0	-86.98	-2,834.3	1,190.7	787.5	648.9	138.62	5.681	
9,500.0	7,010.2	11,613.7	6,907.5	51.6	92.0	-86.98	-2,834.3	1,190.7	760.2	620.6	139.58	5.447	
9,547.2	7,010.1	11,613.7	6,907.5	52.5	92.0	-86.98	-2,834.3	1,190.7	737.3	596.9	140.47	5.249	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,600.0	7,009.9	11,613.7	6,907.5	53.5	92.0	-86.98	-2,834.3	1,190.7	714.6	573.1	141.46	5.052	
9,645.6	7,009.8	11,613.7	6,907.5	54.3	92.0	-86.98	-2,834.3	1,190.7	697.6	555.2	142.32	4.901	
9,700.0	7,009.6	11,613.7	6,907.5	55.3	92.0	-86.98	-2,834.3	1,190.7	680.7	537.4	143.35	4.749	
9,744.1	7,009.4	11,613.7	6,907.5	56.2	92.0	-86.98	-2,834.3	1,190.7	670.0	525.8	144.18	4.647	
9,800.0	7,009.3	11,613.7	6,907.5	57.2	92.0	-86.98	-2,834.3	1,190.7	660.4	515.1	145.24	4.547	
9,842.5	7,009.1	11,613.7	6,907.5	58.0	92.0	-86.98	-2,834.3	1,190.7	656.2	510.1	146.05	4.493	
9,888.7	7,009.0	11,613.5	6,907.5	58.9	92.0	-86.98	-2,834.5	1,190.7	654.7	507.8	146.93	4.456 CC, ES	
9,900.0	7,008.9	11,602.2	6,907.6	59.1	91.8	-86.99	-2,845.8	1,190.7	654.8	507.8	146.93	4.456	
9,940.9	7,008.8	11,561.3	6,907.9	59.9	91.1	-87.03	-2,886.7	1,190.7	654.9	507.9	146.95	4.457	
10,000.0	7,008.6	11,502.2	6,908.2	61.0	90.0	-87.08	-2,945.8	1,190.7	655.1	508.1	146.97	4.457	
10,039.3	7,008.5	11,462.8	6,908.5	61.7	89.3	-87.11	-2,985.1	1,190.7	655.2	508.2	146.99	4.458	
10,100.0	7,008.3	11,402.2	6,908.9	62.9	88.2	-87.17	-3,045.8	1,190.7	655.4	508.4	147.02	4.458	
10,137.8	7,008.2	11,364.4	6,909.2	63.6	87.5	-87.20	-3,083.6	1,190.8	655.5	508.5	147.04	4.458	
10,200.0	7,008.0	11,302.2	6,909.6	64.8	86.4	-87.26	-3,145.8	1,190.8	655.7	508.7	147.07	4.459	
10,236.2	7,007.9	11,266.0	6,909.8	65.5	85.7	-87.29	-3,182.0	1,190.8	655.8	508.8	147.09	4.459	
10,300.0	7,007.6	11,202.2	6,910.2	66.7	84.6	-87.34	-3,245.8	1,190.8	656.1	508.9	147.12	4.459	
10,334.6	7,007.5	11,167.6	6,910.5	67.3	84.0	-87.37	-3,280.4	1,190.8	656.2	509.0	147.15	4.459	
10,400.0	7,007.3	11,102.2	6,910.9	68.6	82.8	-87.43	-3,345.8	1,190.8	656.4	509.2	147.19	4.460	
10,433.0	7,007.2	11,069.2	6,911.1	69.2	82.2	-87.46	-3,378.8	1,190.8	656.5	509.3	147.21	4.460	
10,500.0	7,007.0	11,002.2	6,911.6	70.5	81.0	-87.52	-3,445.7	1,190.8	656.7	509.5	147.25	4.460	
10,531.5	7,006.9	10,970.7	6,911.8	71.1	80.4	-87.55	-3,477.2	1,190.8	656.8	509.5	147.28	4.460	
10,600.0	7,006.7	10,902.2	6,912.2	72.4	79.2	-87.61	-3,545.7	1,190.8	657.0	509.7	147.33	4.460	
10,629.9	7,006.6	10,872.3	6,912.4	73.0	78.7	-87.63	-3,575.6	1,190.8	657.1	509.8	147.35	4.460	
10,700.0	7,006.4	10,802.2	6,912.9	74.3	77.4	-87.69	-3,645.7	1,190.8	657.4	510.0	147.40	4.460	
10,728.3	7,006.3	10,773.9	6,913.1	74.9	76.9	-87.72	-3,674.1	1,190.8	657.5	510.0	147.43	4.460	
10,800.0	7,006.0	10,702.2	6,913.6	76.3	75.6	-87.78	-3,745.7	1,190.8	657.7	510.2	147.49	4.459	
10,826.7	7,005.9	10,675.5	6,913.8	76.8	75.2	-87.80	-3,772.5	1,190.8	657.8	510.3	147.51	4.459	
10,900.0	7,005.7	10,602.2	6,914.2	78.2	73.9	-87.87	-3,845.7	1,190.8	658.0	510.5	147.58	4.459	
10,925.2	7,005.6	10,577.1	6,914.4	78.7	73.4	-87.89	-3,870.9	1,190.8	658.1	510.5	147.60	4.459	
11,000.0	7,005.4	10,502.2	6,914.9	80.1	72.1	-87.96	-3,945.7	1,190.8	658.4	510.7	147.67	4.458	
11,023.6	7,005.3	10,478.6	6,915.1	80.6	71.7	-87.98	-3,969.3	1,190.9	658.5	510.8	147.69	4.458	
11,100.0	7,005.1	10,402.2	6,915.6	82.0	70.4	-88.04	-4,045.7	1,190.9	658.7	510.9	147.77	4.458	
11,122.0	7,005.0	10,380.2	6,915.7	82.5	70.0	-88.06	-4,067.7	1,190.9	658.8	511.0	147.79	4.458	
11,200.0	7,004.7	10,302.3	6,916.2	84.0	68.6	-88.13	-4,145.7	1,190.9	659.0	511.2	147.87	4.457	
11,220.4	7,004.7	10,281.8	6,916.4	84.4	68.3	-88.15	-4,166.1	1,190.9	659.1	511.2	147.89	4.457	
11,300.0	7,004.4	10,202.3	6,916.9	85.9	66.9	-88.22	-4,245.7	1,190.9	659.4	511.4	147.98	4.456	
11,318.9	7,004.4	10,183.4	6,917.0	86.3	66.6	-88.23	-4,264.6	1,190.9	659.5	511.5	148.00	4.456	
11,400.0	7,004.1	10,102.3	6,917.6	87.8	65.2	-88.30	-4,345.7	1,190.9	659.7	511.6	148.10	4.455	
11,417.3	7,004.0	10,085.0	6,917.7	88.2	64.9	-88.32	-4,363.0	1,190.9	659.8	511.7	148.12	4.454	
11,500.0	7,003.8	10,002.3	6,918.2	89.8	63.5	-88.39	-4,445.7	1,190.9	660.1	511.9	148.22	4.453	
11,515.7	7,003.7	9,986.5	6,918.4	90.1	63.2	-88.41	-4,461.4	1,190.9	660.1	511.9	148.24	4.453	
11,600.0	7,003.4	9,902.3	6,918.9	91.7	61.8	-88.48	-4,545.7	1,190.9	660.4	512.1	148.35	4.452	
11,614.1	7,003.4	9,888.1	6,919.0	92.0	61.5	-88.49	-4,559.8	1,190.9	660.5	512.1	148.37	4.452	
11,700.0	7,003.1	9,802.3	6,919.6	93.7	60.1	-88.57	-4,645.7	1,190.9	660.8	512.3	148.49	4.450	
11,712.6	7,003.1	9,789.7	6,919.7	93.9	59.9	-88.58	-4,658.2	1,190.9	660.8	512.3	148.50	4.450	
11,800.0	7,002.8	9,702.3	6,920.2	95.6	58.4	-88.65	-4,745.6	1,190.9	661.1	512.5	148.63	4.448	
11,811.0	7,002.7	9,691.3	6,920.3	95.8	58.3	-88.66	-4,756.6	1,190.9	661.1	512.5	148.65	4.448	
11,900.0	7,002.5	9,602.3	6,920.9	97.6	56.8	-88.74	-4,845.6	1,190.9	661.5	512.7	148.78	4.446	
11,909.4	7,002.4	9,592.9	6,921.0	97.7	56.6	-88.75	-4,855.1	1,190.9	661.5	512.7	148.80	4.446	
12,000.0	7,002.1	9,502.3	6,921.6	99.5	55.2	-88.83	-4,945.6	1,191.0	661.8	512.9	148.95	4.443	
12,007.8	7,002.1	9,494.4	6,921.6	99.7	55.0	-88.83	-4,953.5	1,191.0	661.8	512.9	148.96	4.443	
12,100.0	7,001.8	9,402.3	6,922.2	101.5	53.6	-88.91	-5,045.6	1,191.0	662.2	513.0	149.12	4.440	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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
12,106.3	7,001.8	9,396.0	6,922.3	101.6	53.5	-88.92	-5,051.9	1,191.0	662.2	513.0	149.13	4.440	
12,200.0	7,001.5	9,302.3	6,922.9	103.4	52.0	-89.00	-5,145.6	1,191.0	662.5	513.2	149.30	4.437	
12,204.7	7,001.5	9,297.6	6,922.9	103.5	51.9	-89.00	-5,150.3	1,191.0	662.5	513.2	149.31	4.437	
12,300.0	7,001.2	9,202.3	6,923.6	105.3	50.4	-89.08	-5,245.6	1,191.0	662.9	513.4	149.50	4.434	
12,303.1	7,001.1	9,199.2	6,923.6	105.4	50.4	-89.09	-5,248.7	1,191.0	662.9	513.4	149.50	4.434	
12,400.0	7,000.8	9,102.3	6,924.2	107.3	48.9	-89.17	-5,345.6	1,191.0	663.2	513.5	149.71	4.430	
12,401.5	7,000.8	9,100.8	6,924.2	107.3	48.9	-89.17	-5,347.1	1,191.0	663.2	513.5	149.71	4.430	
12,500.0	7,000.5	9,002.3	6,924.9	109.3	47.4	-89.26	-5,445.6	1,191.0	663.6	513.6	149.93	4.426	
12,598.4	7,000.2	8,903.9	6,925.6	111.2	46.0	-89.34	-5,544.0	1,191.0	663.9	513.8	150.17	4.421	
12,600.0	7,000.2	8,902.3	6,925.6	111.2	45.9	-89.34	-5,545.6	1,191.0	663.9	513.8	150.18	4.421	
12,696.8	6,999.8	8,805.5	6,926.2	113.1	44.6	-89.43	-5,642.4	1,191.0	664.3	513.8	150.43	4.416	
12,700.0	6,999.8	8,802.3	6,926.2	113.2	44.5	-89.43	-5,645.6	1,191.0	664.3	513.8	150.44	4.416	
12,795.2	6,999.5	8,707.1	6,926.9	115.0	43.2	-89.51	-5,740.8	1,191.0	664.6	513.9	150.71	4.410	
12,800.0	6,999.5	8,702.3	6,926.9	115.1	43.2	-89.52	-5,745.6	1,191.0	664.6	513.9	150.72	4.410	
12,893.7	6,999.2	8,608.7	6,927.5	116.9	41.9	-89.60	-5,839.2	1,191.1	665.0	514.0	151.01	4.403	
12,900.0	6,999.2	8,602.3	6,927.6	117.1	41.8	-89.60	-5,845.6	1,191.1	665.0	514.0	151.03	4.403	
12,992.1	6,998.9	8,510.3	6,928.2	118.9	40.7	-89.68	-5,937.7	1,191.1	665.3	514.0	151.35	4.396	
13,000.0	6,998.8	8,502.4	6,928.2	119.0	40.6	-89.69	-5,945.6	1,191.1	665.4	514.0	151.37	4.396	
13,090.5	6,998.6	8,411.8	6,928.8	120.8	39.5	-89.76	-6,036.1	1,191.1	665.7	514.0	151.71	4.388	
13,100.0	6,998.5	8,402.4	6,928.9	121.0	39.4	-89.77	-6,045.5	1,191.1	665.7	514.0	151.75	4.387	
13,188.9	6,998.2	8,313.4	6,929.5	122.7	38.4	-89.85	-6,134.5	1,191.1	666.1	513.9	152.12	4.379	
13,200.0	6,998.2	8,302.4	6,929.6	122.9	38.2	-89.86	-6,145.5	1,191.1	666.1	513.9	152.16	4.378	
13,287.4	6,997.9	8,215.0	6,930.1	124.6	37.3	-89.93	-6,232.9	1,191.1	666.4	513.9	152.56	4.368	
13,300.0	6,997.9	8,202.4	6,930.2	124.9	37.2	-89.94	-6,245.5	1,191.1	666.5	513.8	152.62	4.367	
13,385.8	6,997.6	8,116.6	6,930.8	126.6	36.4	-90.02	-6,331.3	1,191.1	666.8	513.7	153.06	4.356	
13,400.0	6,997.5	8,102.4	6,930.9	126.9	36.2	-90.03	-6,345.5	1,191.1	666.8	513.7	153.13	4.355	
13,484.2	6,997.3	8,018.2	6,931.4	128.5	35.5	-90.10	-6,429.7	1,191.1	667.1	513.5	153.62	4.343	
13,500.0	6,997.2	8,002.4	6,931.5	128.8	35.4	-90.11	-6,445.5	1,191.1	667.2	513.5	153.71	4.341	
13,582.6	6,996.9	7,919.7	6,932.1	130.4	34.7	-90.19	-6,528.2	1,191.1	667.5	513.3	154.24	4.328	
13,600.0	6,996.9	7,902.4	6,932.2	130.8	34.6	-90.20	-6,545.5	1,191.1	667.6	513.2	154.36	4.325	
13,681.1	6,996.6	7,821.3	6,932.7	132.4	34.1	-90.27	-6,626.6	1,191.1	667.9	512.9	154.95	4.310	
13,700.0	6,996.5	7,802.4	6,932.9	132.7	33.9	-90.29	-6,645.5	1,191.1	667.9	512.9	155.09	4.307	
13,779.5	6,996.3	7,722.9	6,933.4	134.3	33.5	-90.35	-6,725.0	1,191.1	668.2	512.5	155.76	4.290	
13,800.0	6,996.2	7,702.4	6,933.5	134.7	33.4	-90.37	-6,745.5	1,191.2	668.3	512.4	155.93	4.286	
13,877.9	6,995.9	7,624.5	6,934.1	136.2	33.0	-90.44	-6,823.4	1,191.2	668.6	511.9	156.68	4.267	
13,900.0	6,995.9	7,602.4	6,934.2	136.7	32.9	-90.46	-6,845.5	1,191.2	668.7	511.8	156.89	4.262	
13,976.3	6,995.6	7,525.7	6,933.0	138.2	32.6	-90.38	-6,922.1	1,191.2	669.0	511.3	157.70	4.242	
14,000.0	6,995.5	7,502.0	6,931.2	138.6	32.6	-90.22	-6,945.8	1,191.2	669.0	511.1	157.96	4.236	
14,074.8	6,995.3	7,428.3	6,920.4	140.1	32.4	-89.32	-7,018.7	1,191.2	669.4	510.6	158.81	4.215	
14,100.0	6,995.2	7,404.0	6,915.2	140.6	32.3	-88.89	-7,042.5	1,191.2	669.5	510.4	159.10	4.208	
14,162.0	6,995.0	7,345.9	6,899.6	141.8	32.2	-87.57	-7,098.3	1,191.2	670.3	510.5	159.75	4.196 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	171.53	-5,114.8	761.4	5,171.2				
98.4	98.4	130.3	130.3	0.1	0.1	171.52	-5,114.0	762.2	5,170.7	5,170.5	0.20	N/A	
100.0	100.0	132.1	132.1	0.1	0.1	171.52	-5,114.0	762.3	5,170.7	5,170.5	0.20	N/A	
196.8	196.8	223.1	223.1	0.3	0.3	171.51	-5,113.0	763.0	5,169.8	5,169.2	0.61	8,476.492	
200.0	200.0	225.2	225.2	0.3	0.3	171.51	-5,113.0	763.0	5,169.7	5,169.1	0.62	8,321.688	
295.3	295.3	285.0	285.0	0.5	0.4	171.51	-5,112.6	763.5	5,169.3	5,168.3	0.96	5,392.802	
300.0	300.0	285.0	285.0	0.5	0.4	171.51	-5,112.6	763.5	5,169.3	5,168.3	0.97	5,333.704	
301.5	301.5	285.0	285.0	0.6	0.4	171.51	-5,112.6	763.5	5,169.3	5,168.3	0.97	5,315.412	
393.7	393.7	341.9	341.9	0.8	0.5	171.50	-5,112.6	764.2	5,169.5	5,168.2	1.30	3,976.438	
400.0	400.0	345.4	345.4	0.8	0.6	171.50	-5,112.6	764.2	5,169.6	5,168.2	1.32	3,911.697	
492.1	492.1	390.0	390.0	1.0	0.6	171.49	-5,113.0	765.1	5,170.6	5,169.0	1.62	3,186.056	
500.0	500.0	390.0	390.0	1.0	0.6	171.49	-5,113.0	765.1	5,170.8	5,169.1	1.64	3,151.765	
590.5	590.5	454.2	454.1	1.2	0.8	171.47	-5,113.9	767.0	5,172.5	5,170.5	1.99	2,604.581	
600.0	600.0	459.7	459.6	1.2	0.8	171.47	-5,114.0	767.2	5,172.7	5,170.7	2.02	2,561.572	
689.0	689.0	517.0	516.9	1.4	0.9	171.44	-5,115.3	769.6	5,175.2	5,172.8	2.35	2,205.947	
700.0	700.0	517.0	516.9	1.4	0.9	171.44	-5,115.3	769.6	5,175.5	5,173.2	2.37	2,183.035	
787.4	787.4	563.1	562.9	1.6	1.0	171.42	-5,116.6	771.8	5,178.7	5,176.0	2.67	1,937.418	
800.0	800.0	569.6	569.4	1.7	1.1	171.42	-5,116.8	772.1	5,179.2	5,176.5	2.72	1,906.797	
885.8	885.8	613.9	613.6	1.9	1.2	171.40	-5,118.5	774.5	5,183.1	5,180.1	3.01	1,722.292	
900.0	900.0	653.0	652.6	1.9	1.3	171.37	-5,120.3	776.7	5,184.0	5,180.9	3.13	1,656.952	
984.2	984.2	672.0	671.5	2.1	1.3	171.36	-5,121.2	777.9	5,188.4	5,185.0	3.36	1,543.328	
1,000.0	1,000.0	685.1	684.6	2.1	1.3	171.36	-5,121.8	778.7	5,189.3	5,185.9	3.43	1,513.975	
1,082.7	1,082.7	728.0	727.3	2.3	1.4	171.33	-5,123.9	781.4	5,194.2	5,190.5	3.71	1,399.328	
1,100.0	1,100.0	757.5	756.7	2.3	1.5	171.31	-5,125.4	783.4	5,195.2	5,191.4	3.82	1,360.033	
1,181.1	1,181.1	806.5	805.5	2.5	1.7	108.60	-5,128.1	787.1	5,201.0	5,196.8	4.15	1,253.767	
1,200.0	1,200.0	817.9	816.8	2.6	1.7	108.57	-5,128.8	788.1	5,202.5	5,198.3	4.22	1,233.380	
1,279.5	1,279.4	856.0	854.7	2.7	1.8	108.42	-5,131.1	791.4	5,209.6	5,205.1	4.49	1,161.513	
1,300.0	1,299.8	856.0	854.7	2.8	1.8	108.38	-5,131.1	791.4	5,211.6	5,207.1	4.53	1,150.595	
1,377.9	1,377.5	927.9	926.1	3.0	2.0	108.21	-5,135.7	798.5	5,219.9	5,215.0	4.90	1,065.341	
1,400.0	1,399.5	941.6	939.8	3.0	2.0	108.16	-5,136.7	800.0	5,222.5	5,217.5	4.99	1,047.289	
1,476.4	1,475.3	985.0	982.7	3.2	2.2	107.99	-5,139.7	804.9	5,232.0	5,226.7	5.29	989.358	
1,500.0	1,498.7	985.0	982.7	3.2	2.2	107.92	-5,139.7	804.9	5,235.2	5,229.8	5.35	979.306	
1,574.8	1,572.6	1,025.7	1,023.0	3.5	2.3	107.73	-5,142.9	810.0	5,246.0	5,240.3	5.67	925.627	
1,600.0	1,597.5	1,035.5	1,032.6	3.5	2.3	107.66	-5,143.7	811.2	5,249.9	5,244.2	5.76	910.810	
1,673.2	1,669.4	1,063.6	1,060.4	3.7	2.4	107.44	-5,146.2	815.0	5,262.2	5,256.1	6.07	867.195	
1,700.0	1,695.7	1,073.8	1,070.5	3.8	2.5	107.36	-5,147.2	816.5	5,266.9	5,260.7	6.18	852.327	
1,771.6	1,765.7	1,113.0	1,109.0	4.1	2.6	107.39	-5,151.1	822.2	5,280.2	5,273.6	6.53	808.058	
1,800.0	1,793.4	1,113.0	1,109.0	4.2	2.6	107.39	-5,151.1	822.2	5,285.5	5,278.9	6.63	797.281	
1,870.1	1,862.0	1,113.0	1,109.0	4.4	2.6	107.39	-5,151.1	822.2	5,299.4	5,292.5	6.88	770.588	
1,900.0	1,891.3	1,156.3	1,151.6	4.5	2.8	107.42	-5,155.8	828.9	5,305.2	5,298.1	7.13	744.536	
1,968.5	1,958.3	1,186.7	1,181.4	4.8	2.9	107.44	-5,159.4	833.8	5,319.2	5,311.8	7.48	711.395	
2,000.0	1,989.1	1,200.7	1,195.0	4.9	3.0	107.44	-5,161.1	836.1	5,325.9	5,318.2	7.64	697.162	
2,066.9	2,054.5	1,242.0	1,235.4	5.2	3.1	107.47	-5,166.3	843.2	5,340.3	5,332.2	8.03	665.132	
2,100.0	2,086.9	1,242.0	1,235.4	5.3	3.1	107.47	-5,166.3	843.2	5,347.5	5,339.3	8.15	655.764	
2,165.3	2,150.8	1,295.8	1,287.8	5.6	3.4	107.49	-5,173.3	853.0	5,362.0	5,353.4	8.60	623.405	
2,200.0	2,184.7	1,321.7	1,313.0	5.7	3.5	107.50	-5,176.7	858.1	5,369.8	5,361.0	8.83	608.216	
2,263.8	2,247.1	1,370.0	1,359.8	5.9	3.7	107.50	-5,183.1	868.0	5,384.2	5,375.0	9.25	581.841	
2,300.0	2,282.5	1,370.0	1,359.8	6.1	3.7	107.50	-5,183.1	868.0	5,392.6	5,383.2	9.40	573.831	
2,362.2	2,343.4	1,411.7	1,400.1	6.4	3.9	107.50	-5,188.7	877.2	5,407.1	5,397.3	9.82	550.651	
2,400.0	2,380.3	1,427.7	1,415.6	6.5	4.0	107.50	-5,191.0	880.8	5,416.2	5,406.1	10.04	539.569	
2,460.6	2,439.6	1,453.4	1,440.2	6.8	4.2	107.50	-5,194.7	886.9	5,431.0	5,420.6	10.39	522.665	
2,500.0	2,478.1	1,498.0	1,482.9	6.9	4.4	107.49	-5,201.4	897.9	5,440.9	5,430.2	10.74	506.834	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	1,498.0	1,482.9	7.2	4.4	107.49	-5,201.4	897.9	5,455.7	5,444.8	10.98	496.955		
2,600.0	2,576.0	1,498.0	1,482.9	7.4	4.4	107.49	-5,201.4	897.9	5,466.4	5,455.2	11.15	490.385		
2,657.5	2,632.2	1,539.1	1,522.0	7.6	4.6	107.47	-5,207.9	908.6	5,481.4	5,469.8	11.58	473.220		
2,700.0	2,673.8	1,558.1	1,540.2	7.8	4.8	107.46	-5,211.0	913.7	5,492.8	5,480.9	11.85	463.447		
2,755.9	2,728.4	1,583.1	1,563.8	8.0	4.9	107.45	-5,215.2	920.6	5,508.0	5,495.8	12.21	451.243		
2,800.0	2,771.6	1,627.0	1,605.2	8.2	5.2	107.42	-5,222.7	933.1	5,520.3	5,507.7	12.60	438.104		
2,854.3	2,824.7	1,627.0	1,605.2	8.4	5.2	107.42	-5,222.7	933.1	5,535.4	5,522.6	12.83	431.472		
2,900.0	2,869.4	1,663.2	1,639.2	8.6	5.4	107.39	-5,229.0	943.7	5,548.4	5,535.2	13.21	420.021		
2,952.7	2,921.0	1,705.0	1,678.5	8.9	5.7	107.36	-5,236.4	956.0	5,563.5	5,549.8	13.65	407.567		
3,000.0	2,967.2	1,742.4	1,713.6	9.1	6.0	107.33	-5,243.1	967.0	5,577.0	5,563.0	14.04	397.096		
3,051.2	3,017.3	1,755.0	1,725.4	9.3	6.1	107.33	-5,245.3	970.7	5,591.8	5,577.5	14.33	390.297		
3,100.0	3,065.0	1,755.0	1,725.4	9.5	6.1	107.33	-5,245.3	970.7	5,606.4	5,591.8	14.53	385.720		
3,149.6	3,113.5	1,807.8	1,774.8	9.7	6.4	107.28	-5,255.1	986.5	5,620.9	5,605.9	15.04	373.802		
3,200.0	3,162.8	1,827.5	1,793.2	9.9	6.6	107.27	-5,258.9	992.6	5,636.2	5,620.8	15.36	366.916		
3,248.0	3,209.8	1,884.0	1,845.7	10.2	7.0	107.22	-5,270.2	1,010.3	5,651.3	5,635.4	15.88	355.944		
3,300.0	3,260.7	1,884.0	1,845.7	10.4	7.0	107.22	-5,270.2	1,010.3	5,667.3	5,651.2	16.10	352.013		
3,346.4	3,306.1	1,885.9	1,847.4	10.6	7.0	107.21	-5,270.6	1,010.9	5,682.0	5,665.7	16.31	348.373		
3,400.0	3,358.5	1,971.9	1,927.0	10.8	7.6	107.13	-5,288.0	1,038.6	5,698.9	5,681.9	17.02	334.925		
3,444.9	3,402.4	2,012.0	1,964.0	11.0	7.9	107.09	-5,295.9	1,051.7	5,712.9	5,695.5	17.43	327.765		
3,500.0	3,456.3	2,054.5	2,003.2	11.3	8.3	107.04	-5,304.3	1,065.8	5,730.2	5,712.3	17.91	319.855		
3,543.3	3,498.6	2,078.9	2,025.6	11.5	8.4	107.01	-5,309.2	1,073.9	5,743.9	5,725.6	18.24	314.837		
3,600.0	3,554.1	2,110.7	2,054.9	11.7	8.7	106.98	-5,315.7	1,084.7	5,762.0	5,743.4	18.67	308.554		
3,641.7	3,594.9	2,140.0	2,081.8	11.9	8.9	106.94	-5,321.7	1,094.7	5,775.5	5,756.5	19.02	303.577		
3,700.0	3,651.9	2,140.0	2,081.8	12.2	8.9	106.94	-5,321.7	1,094.7	5,794.6	5,775.4	19.28	300.594		
3,740.1	3,691.2	2,140.0	2,081.8	12.3	8.9	106.94	-5,321.7	1,094.7	5,808.1	5,788.7	19.45	298.594		
3,800.0	3,749.7	2,191.9	2,129.2	12.6	9.3	106.88	-5,332.9	1,112.4	5,828.0	5,808.0	20.03	291.016		
3,838.6	3,787.5	2,205.3	2,141.5	12.8	9.4	106.87	-5,335.9	1,117.0	5,841.2	5,820.9	20.28	288.086		
3,900.0	3,847.5	2,226.7	2,161.0	13.0	9.6	106.85	-5,340.8	1,124.3	5,862.5	5,841.8	20.67	283.587		
3,937.0	3,883.7	2,269.0	2,199.5	13.2	10.0	106.80	-5,350.8	1,138.6	5,875.6	5,854.5	21.09	278.598		
4,000.0	3,945.4	2,269.0	2,199.5	13.5	10.0	106.80	-5,350.8	1,138.6	5,897.8	5,876.5	21.36	276.059		
4,035.4	3,980.0	2,279.5	2,209.0	13.7	10.1	106.79	-5,353.4	1,142.2	5,910.6	5,889.0	21.59	273.819		
4,068.9	4,012.7	2,306.6	2,233.5	13.8	10.3	106.76	-5,360.0	1,151.6	5,922.7	5,900.8	21.90	270.395		
4,100.0	4,043.2	2,331.7	2,256.2	13.9	10.5	106.95	-5,366.1	1,160.6	5,933.9	5,911.7	22.20	267.331		
4,133.8	4,076.4	2,358.9	2,280.6	14.0	10.7	107.16	-5,372.6	1,170.6	5,946.0	5,923.5	22.49	264.378		
4,200.0	4,141.6	2,397.0	2,314.7	14.2	11.1	107.57	-5,381.7	1,185.0	5,969.4	5,946.5	22.97	259.884		
4,232.3	4,173.4	2,397.0	2,314.7	14.3	11.1	107.80	-5,381.7	1,185.0	5,980.9	5,957.8	23.07	259.212		
4,300.0	4,240.5	2,442.6	2,355.3	14.5	11.5	108.19	-5,392.7	1,202.7	6,004.7	5,981.0	23.62	254.222		
4,330.7	4,271.0	2,454.4	2,365.7	14.6	11.6	108.37	-5,395.6	1,207.3	6,015.4	5,991.6	23.79	252.834		
4,400.0	4,339.9	2,480.6	2,388.9	14.8	11.9	108.80	-5,402.2	1,217.7	6,039.7	6,015.6	24.18	249.786		
4,429.1	4,368.9	2,526.0	2,428.8	14.8	12.3	108.87	-5,413.8	1,235.8	6,050.2	6,025.6	24.58	246.119		
4,500.0	4,439.6	2,526.0	2,428.8	15.0	12.3	109.37	-5,413.8	1,235.8	6,074.7	6,049.9	24.76	245.365		
4,527.5	4,467.1	2,526.0	2,428.8	15.0	12.3	109.56	-5,413.8	1,235.8	6,084.3	6,059.4	24.82	245.180		
4,600.0	4,539.5	2,526.0	2,428.8	15.1	12.3	110.07	-5,413.8	1,235.8	6,109.6	6,084.6	24.97	244.724		
4,626.0	4,565.4	2,526.0	2,428.8	15.2	12.3	110.25	-5,413.8	1,235.8	6,118.7	6,093.7	25.01	244.647		
4,668.9	4,608.4	2,571.5	2,468.6	15.2	12.8	172.95	-5,426.0	1,254.4	6,133.3	6,107.9	25.44	241.131		
4,700.0	4,639.5	2,581.0	2,476.8	15.3	12.9	172.92	-5,428.6	1,258.3	6,144.1	6,118.6	25.55	240.452		
4,724.4	4,663.9	2,588.4	2,483.2	15.3	13.0	172.89	-5,430.6	1,261.3	6,152.7	6,127.0	25.65	239.895		
4,800.0	4,739.5	2,611.1	2,502.9	15.4	13.2	172.80	-5,437.0	1,270.8	6,179.6	6,153.6	25.94	238.224		
4,822.8	4,762.3	2,654.0	2,539.8	15.4	13.7	172.64	-5,449.3	1,288.9	6,188.1	6,161.8	26.31	235.182		
4,900.0	4,839.5	2,654.0	2,539.8	15.6	13.7	172.64	-5,449.3	1,288.9	6,216.0	6,189.6	26.43	235.203		
4,921.2	4,860.7	2,654.0	2,539.8	15.6	13.7	172.64	-5,449.3	1,288.9	6,223.9	6,197.4	26.46	235.211		
5,000.0	4,939.5	2,682.4	2,564.1	15.7	14.0	172.53	-5,457.6	1,301.1	6,253.3	6,226.5	26.82	233.158		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	4,959.1	2,692.4	2,572.6	15.7	14.1	172.49	-5,460.5	1,305.4	6,260.8	6,233.8	26.93	232.449	
5,100.0	5,039.5	2,732.6	2,606.7	15.9	14.5	172.33	-5,472.4	1,323.1	6,291.4	6,264.0	27.39	229.662	
5,118.1	5,057.6	2,741.6	2,614.3	15.9	14.6	172.30	-5,475.0	1,327.2	6,298.4	6,270.9	27.50	229.054	
5,200.0	5,139.5	2,782.0	2,648.2	16.0	15.1	172.14	-5,487.0	1,345.5	6,330.1	6,302.2	27.96	226.397	
5,216.5	5,156.0	2,794.7	2,658.9	16.0	15.3	172.08	-5,490.7	1,351.4	6,336.6	6,308.5	28.10	225.512	
5,300.0	5,239.5	2,859.0	2,712.5	16.2	16.0	171.82	-5,509.6	1,381.5	6,369.4	6,340.6	28.79	221.202	
5,314.9	5,254.4	2,870.4	2,721.9	16.2	16.2	171.77	-5,512.9	1,386.9	6,375.3	6,346.4	28.92	220.462	
5,400.0	5,339.5	2,946.6	2,784.9	16.3	17.0	171.44	-5,534.9	1,423.8	6,409.0	6,379.2	29.72	215.640	
5,413.4	5,352.8	2,961.7	2,797.3	16.3	17.2	171.38	-5,539.2	1,431.1	6,414.3	6,384.4	29.87	214.704	
5,500.0	5,439.5	3,039.0	2,861.0	16.5	18.1	171.05	-5,561.1	1,469.1	6,448.5	6,417.8	30.69	210.110	
5,511.8	5,451.3	3,039.0	2,861.0	16.5	18.1	171.05	-5,561.1	1,469.1	6,453.2	6,422.5	30.71	210.132	
5,600.0	5,539.5	3,091.9	2,904.4	16.6	18.8	170.82	-5,576.0	1,495.4	6,488.5	6,457.2	31.33	207.080	
5,610.2	5,549.7	3,096.5	2,908.2	16.6	18.8	170.80	-5,577.3	1,497.6	6,492.6	6,461.2	31.39	206.829	
5,700.0	5,639.5	4,265.9	3,925.9	16.8	30.3	166.66	-5,844.8	2,001.2	6,523.8	6,483.9	39.88	163.586	
5,708.6	5,648.1	4,269.8	3,929.3	16.8	30.3	166.65	-5,845.3	2,002.9	6,526.1	6,486.1	39.92	163.470	
5,800.0	5,739.5	4,323.0	3,976.1	17.0	30.8	166.45	-5,852.8	2,027.2	6,550.3	6,509.8	40.45	161.916	
5,807.1	5,746.5	4,323.0	3,976.1	17.0	30.8	166.45	-5,852.8	2,027.2	6,552.1	6,511.7	40.47	161.916	
5,900.0	5,839.5	4,323.0	3,976.1	17.1	30.8	166.45	-5,852.8	2,027.2	6,577.6	6,537.0	40.62	161.933	
5,905.5	5,845.0	4,323.0	3,976.1	17.1	30.8	166.45	-5,852.8	2,027.2	6,579.2	6,538.5	40.63	161.935	
6,000.0	5,939.5	4,378.2	4,024.0	17.3	31.4	166.24	-5,860.9	2,054.1	6,605.8	6,564.5	41.25	160.150	
6,003.9	5,943.4	4,379.5	4,025.1	17.3	31.4	166.23	-5,860.9	2,054.1	6,606.9	6,565.7	41.26	160.110	
6,100.0	6,039.5	4,410.5	4,051.8	17.4	31.7	166.11	-5,865.6	2,069.0	6,635.0	6,593.3	41.68	159.176	
6,102.3	6,041.8	4,411.2	4,052.4	17.4	31.7	166.11	-5,865.7	2,069.4	6,635.7	6,594.0	41.69	159.154	
6,200.0	6,139.5	4,452.0	4,087.5	17.6	32.2	165.95	-5,872.3	2,089.2	6,665.2	6,623.0	42.20	157.957	
6,200.8	6,140.2	4,452.0	4,087.5	17.6	32.2	165.95	-5,872.3	2,089.2	6,665.5	6,623.3	42.20	157.957	
6,299.2	6,238.7	4,631.0	4,241.3	17.8	34.1	165.25	-5,899.9	2,176.5	6,695.0	6,651.2	43.82	152.782	
6,300.0	6,239.5	4,631.8	4,242.0	17.8	34.1	165.25	-5,900.1	2,176.9	6,695.2	6,651.4	43.83	152.761	
6,360.9	6,300.4	4,691.0	4,292.8	17.9	34.7	165.02	-5,908.6	2,205.9	6,713.3	6,668.9	44.41	151.165	
6,397.6	6,337.1	4,708.0	4,307.4	17.9	34.9	-15.04	-5,911.1	2,214.3	6,723.3	6,678.6	44.76	150.198	
6,400.0	6,339.5	4,708.0	4,307.4	17.9	34.9	-15.03	-5,911.1	2,214.3	6,723.9	6,679.2	44.77	150.193	
6,450.0	6,389.2	4,740.0	4,334.9	18.0	35.2	-14.93	-5,915.8	2,230.1	6,734.8	6,689.8	45.00	149.665	
6,496.0	6,434.7	4,760.9	4,352.8	18.0	35.5	-14.86	-5,918.9	2,240.3	6,742.0	6,697.1	44.93	150.054	
6,500.0	6,438.6	4,762.7	4,354.4	18.0	35.5	-14.86	-5,919.2	2,241.2	6,742.5	6,697.6	44.92	150.115	
6,550.0	6,487.3	4,785.4	4,373.9	18.0	35.7	-14.86	-5,922.8	2,252.1	6,747.2	6,702.6	44.60	151.292	
6,594.5	6,529.8	4,805.6	4,391.3	18.0	35.9	-14.91	-5,926.0	2,261.8	6,748.6	6,704.5	44.12	152.967	
6,600.0	6,535.1	4,837.0	4,418.5	18.1	36.3	-15.04	-5,931.3	2,276.8	6,748.8	6,704.5	44.27	152.462	
6,650.0	6,581.7	5,047.0	4,599.3	18.0	38.5	-16.02	-5,961.4	2,379.2	6,746.4	6,701.6	44.85	150.432	
6,692.9	6,620.6	5,103.1	4,647.7	18.0	39.0	-16.39	-5,968.5	2,406.6	6,741.2	6,697.0	44.22	152.452	
6,700.0	6,626.9	5,108.4	4,652.3	18.0	39.1	-16.44	-5,969.2	2,409.2	6,740.1	6,696.0	44.07	152.945	
6,750.0	6,670.6	5,145.3	4,684.3	18.0	39.5	-16.84	-5,973.9	2,427.1	6,730.6	6,687.7	42.88	156.949	
6,791.3	6,705.4	5,175.3	4,710.3	18.0	39.8	-17.24	-5,977.9	2,441.4	6,720.4	6,678.6	41.75	160.982	
6,800.0	6,712.5	5,181.5	4,715.7	18.0	39.8	-17.33	-5,978.7	2,444.4	6,718.0	6,676.5	41.49	161.914	
6,850.0	6,752.3	5,222.0	4,750.9	18.0	40.2	-17.94	-5,984.2	2,463.6	6,702.3	6,662.3	39.94	167.801	
6,889.7	6,782.5	5,222.0	4,750.9	18.0	40.2	-18.33	-5,984.2	2,463.6	6,687.7	6,649.3	38.42	174.058	
6,900.0	6,790.0	5,222.0	4,750.9	18.0	40.2	-18.44	-5,984.2	2,463.6	6,683.6	6,645.6	38.02	175.790	
6,950.0	6,825.3	5,262.3	4,786.0	18.0	40.6	-19.29	-5,989.7	2,482.6	6,662.1	6,625.9	36.22	183.957	
6,988.2	6,850.5	5,277.9	4,799.6	17.9	40.8	-19.95	-5,991.9	2,490.0	6,643.8	6,609.1	34.72	191.344	
7,000.0	6,858.0	5,282.6	4,803.7	17.9	40.9	-20.17	-5,992.6	2,492.2	6,637.9	6,603.6	34.26	193.749	
7,050.0	6,888.0	5,301.8	4,820.3	18.0	41.0	-21.20	-5,995.3	2,501.3	6,611.0	6,578.7	32.33	204.493	
7,086.6	6,908.1	5,315.0	4,831.9	18.0	41.2	-22.07	-5,997.3	2,507.5	6,589.7	6,558.7	31.00	212.580	
7,100.0	6,915.1	5,319.7	4,835.9	18.0	41.2	-22.41	-5,997.9	2,509.7	6,581.6	6,551.1	30.52	215.649	
7,150.0	6,939.2	5,350.0	4,862.2	18.0	41.5	-23.95	-6,002.4	2,524.0	6,549.9	6,520.8	29.03	225.650	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,954.3	5,350.0	4,862.2	18.1	41.5	-25.01	-6,002.4	2,524.0	6,526.2	6,498.1	28.13	232.022		
7,200.0	6,960.3	5,352.8	4,864.7	18.1	41.6	-25.54	-6,002.8	2,525.4	6,515.8	6,488.0	27.83	234.140		
7,250.0	6,978.1	5,379.6	4,888.0	18.3	41.8	-27.67	-6,006.8	2,538.1	6,479.7	6,452.3	27.36	236.798		
7,283.4	6,988.2	5,395.7	4,901.9	18.4	42.0	-29.32	-6,009.2	2,545.7	6,454.4	6,426.9	27.49	234.818		
7,300.0	6,992.6	5,403.1	4,908.4	18.4	42.1	-30.21	-6,010.3	2,549.1	6,441.5	6,413.9	27.69	232.664		
7,350.0	7,003.7	5,423.1	4,925.8	18.7	42.3	-33.25	-6,013.2	2,558.6	6,401.6	6,372.7	28.90	221.479		
7,381.9	7,009.1	5,434.1	4,935.3	18.9	42.4	-35.50	-6,014.8	2,563.8	6,375.3	6,345.2	30.15	211.443		
7,400.0	7,011.4	5,439.7	4,940.1	19.0	42.5	-36.91	-6,015.6	2,566.4	6,360.1	6,329.1	31.01	205.115		
7,450.0	7,015.7	5,452.6	4,951.4	19.3	42.6	-41.34	-6,017.5	2,572.6	6,317.2	6,283.3	33.86	186.546		
7,480.3	7,016.6	5,458.7	4,956.6	19.6	42.7	-44.49	-6,018.4	2,575.5	6,290.5	6,254.7	35.86	175.401		
7,488.2	7,016.6	5,460.1	4,957.8	19.6	42.7	-45.37	-6,018.6	2,576.1	6,283.6	6,247.2	36.40	172.604		
7,500.0	7,016.6	5,462.0	4,959.6	19.7	42.7	-45.41	-6,018.9	2,577.0	6,273.1	6,236.5	36.52	171.773		
7,578.7	7,016.3	5,475.2	4,971.0	20.5	42.8	-45.65	-6,020.8	2,583.3	6,203.2	6,165.9	37.33	166.189		
7,600.0	7,016.2	5,478.7	4,974.0	20.7	42.9	-45.72	-6,021.3	2,584.9	6,184.4	6,146.8	37.54	164.719		
7,677.1	7,016.0	5,479.0	4,974.3	21.6	42.9	-45.73	-6,021.4	2,585.1	6,116.2	6,077.9	38.27	159.829		
7,700.0	7,015.9	5,479.0	4,974.3	21.8	42.9	-45.73	-6,021.4	2,585.1	6,096.0	6,057.6	38.48	158.420		
7,775.6	7,015.7	5,479.0	4,974.3	22.7	42.9	-45.73	-6,021.4	2,585.1	6,029.5	5,990.3	39.24	153.647		
7,800.0	7,015.6	5,479.0	4,974.3	23.0	42.9	-45.73	-6,021.4	2,585.1	6,008.1	5,968.6	39.49	152.144		
7,874.0	7,015.4	5,479.0	4,974.3	24.0	42.9	-45.73	-6,021.4	2,585.1	5,943.2	5,902.9	40.28	147.534		
7,900.0	7,015.3	5,479.0	4,974.3	24.4	42.9	-45.73	-6,021.4	2,585.1	5,920.5	5,879.9	40.56	145.957		
7,972.4	7,015.1	5,479.0	4,974.3	25.4	42.9	-45.73	-6,021.4	2,585.1	5,857.3	5,815.9	41.38	141.548		
8,000.0	7,015.0	5,479.0	4,974.3	25.8	42.9	-45.73	-6,021.4	2,585.1	5,833.3	5,791.6	41.69	139.915		
8,070.8	7,014.8	5,479.0	4,974.3	26.8	42.9	-45.73	-6,021.4	2,585.1	5,771.7	5,729.2	42.52	135.731		
8,100.0	7,014.7	5,479.0	4,974.3	27.3	42.9	-45.73	-6,021.4	2,585.1	5,746.5	5,703.6	42.87	134.057		
8,169.3	7,014.4	5,479.0	4,974.3	28.3	42.9	-45.73	-6,021.4	2,585.1	5,686.6	5,642.9	43.71	130.109		
8,200.0	7,014.4	5,479.0	4,974.3	28.8	42.9	-45.73	-6,021.4	2,585.1	5,660.1	5,616.1	44.08	128.407		
8,267.7	7,014.1	5,479.0	4,974.3	29.9	42.9	-45.73	-6,021.4	2,585.1	5,601.9	5,557.0	44.92	124.700		
8,300.0	7,014.0	5,479.0	4,974.3	30.4	42.9	-45.73	-6,021.4	2,585.1	5,574.2	5,528.9	45.33	122.980		
8,366.1	7,013.8	5,519.6	5,009.5	31.5	43.3	-46.50	-6,027.4	2,604.5	5,517.3	5,470.6	46.71	118.119		
8,400.0	7,013.7	5,521.5	5,011.1	32.0	43.3	-46.54	-6,027.7	2,605.4	5,488.4	5,441.2	47.17	116.348		
8,464.5	7,013.5	5,525.2	5,014.3	33.1	43.4	-46.61	-6,028.3	2,607.2	5,433.4	5,385.4	48.07	113.033		
8,500.0	7,013.4	5,527.3	5,016.0	33.7	43.4	-46.65	-6,028.6	2,608.2	5,403.4	5,354.8	48.56	111.264		
8,563.0	7,013.2	5,530.9	5,019.2	34.8	43.4	-46.72	-6,029.2	2,609.9	5,350.1	5,300.6	49.46	108.179		
8,600.0	7,013.1	5,533.1	5,021.1	35.4	43.5	-46.76	-6,029.5	2,611.0	5,318.8	5,268.8	49.98	106.416		
8,661.4	7,012.9	5,536.7	5,024.2	36.5	43.5	-46.83	-6,030.1	2,612.7	5,267.2	5,216.3	50.87	103.552		
8,700.0	7,012.8	5,539.0	5,026.1	37.1	43.5	-46.87	-6,030.4	2,613.8	5,234.8	5,183.4	51.42	101.800		
8,759.8	7,012.6	5,542.6	5,029.2	38.2	43.6	-46.94	-6,031.0	2,615.6	5,184.8	5,132.5	52.30	99.143		
8,800.0	7,012.4	5,545.0	5,031.3	38.9	43.6	-46.99	-6,031.4	2,616.7	5,151.4	5,098.5	52.89	97.407		
8,858.2	7,012.3	5,548.5	5,034.3	39.9	43.6	-47.06	-6,031.9	2,618.5	5,103.0	5,049.3	53.75	94.944		
8,900.0	7,012.1	5,551.1	5,036.5	40.7	43.7	-47.11	-6,032.3	2,619.7	5,068.5	5,014.1	54.37	93.227		
8,956.7	7,011.9	5,554.6	5,039.6	41.7	43.7	-47.17	-6,032.9	2,621.4	5,021.8	4,966.6	55.22	90.948		
9,000.0	7,011.8	5,557.3	5,041.9	42.4	43.7	-47.23	-6,033.3	2,622.7	4,986.2	4,930.3	55.87	89.252		
9,055.1	7,011.6	5,560.8	5,044.8	43.4	43.8	-47.29	-6,033.9	2,624.4	4,941.2	4,884.5	56.70	87.143		
9,100.0	7,011.5	5,563.6	5,047.3	44.2	43.8	-47.35	-6,034.4	2,625.8	4,904.6	4,847.2	57.38	85.470		
9,153.5	7,011.3	6,013.1	5,442.4	45.2	48.2	-56.26	-6,096.0	2,830.3	4,861.3	4,796.5	64.79	75.031		
9,200.0	7,011.2	6,016.5	5,445.4	46.1	48.2	-56.33	-6,096.3	2,831.8	4,823.1	4,757.6	65.57	73.558		
9,251.9	7,011.0	6,020.3	5,448.8	47.0	48.3	-56.41	-6,096.7	2,833.3	4,780.7	4,714.3	66.45	71.949		
9,300.0	7,010.9	6,023.7	5,452.0	47.9	48.3	-56.48	-6,097.1	2,834.8	4,741.6	4,674.4	67.26	70.499		
9,350.4	7,010.7	6,027.4	5,455.2	48.8	48.3	-56.55	-6,097.5	2,836.3	4,700.9	4,632.7	68.12	69.013		
9,400.0	7,010.5	6,031.0	5,458.5	49.7	48.4	-56.62	-6,097.9	2,837.9	4,660.9	4,591.9	68.96	67.587		
9,448.8	7,010.4	6,034.5	5,461.7	50.6	48.4	-56.70	-6,098.3	2,839.4	4,621.7	4,551.9	69.80	66.217		
9,500.0	7,010.2	6,038.3	5,465.0	51.6	48.4	-56.77	-6,098.7	2,840.9	4,580.8	4,510.1	70.67	64.816		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,547.2	7,010.1	6,041.7	5,468.1	52.5	48.5	-56.84	-6,099.1	2,842.4	4,543.3	4,471.8	71.49	63.553	
9,600.0	7,009.9	6,045.5	5,471.6	53.5	48.5	-56.92	-6,099.5	2,844.0	4,501.5	4,429.1	72.40	62.176	
9,645.6	7,009.8	6,048.9	5,474.6	54.3	48.5	-56.99	-6,099.9	2,845.5	4,465.6	4,392.4	73.19	61.013	
9,700.0	7,009.6	6,052.9	5,478.1	55.3	48.6	-57.07	-6,100.3	2,847.1	4,423.1	4,348.9	74.13	59.663	
9,744.1	7,009.4	6,056.1	5,481.0	56.2	48.6	-57.14	-6,100.6	2,848.5	4,388.8	4,313.9	74.90	58.592	
9,800.0	7,009.3	6,060.2	5,484.7	57.2	48.6	-57.22	-6,101.1	2,850.3	4,345.5	4,269.6	75.88	57.268	
9,842.5	7,009.1	6,063.3	5,487.5	58.0	48.7	-57.28	-6,101.4	2,851.6	4,312.8	4,236.2	76.63	56.284	
9,900.0	7,008.9	6,067.5	5,491.3	59.1	48.7	-57.37	-6,101.9	2,853.4	4,268.8	4,191.2	77.64	54.986	
9,940.9	7,008.8	6,070.5	5,494.0	59.9	48.7	-57.43	-6,102.2	2,854.7	4,237.7	4,159.4	78.36	54.083	
10,000.0	7,008.6	6,074.9	5,497.9	61.0	48.8	-57.52	-6,102.7	2,856.6	4,193.1	4,113.7	79.40	52.811	
10,039.3	7,008.5	6,077.8	5,500.5	61.7	48.8	-57.58	-6,103.0	2,857.8	4,163.6	4,083.5	80.10	51.983	
10,100.0	7,008.3	6,082.3	5,504.5	62.9	48.8	-57.67	-6,103.5	2,859.7	4,118.4	4,037.3	81.17	50.737	
10,137.8	7,008.2	6,085.1	5,507.1	63.6	48.8	-57.73	-6,103.8	2,860.9	4,090.5	4,008.7	81.84	49.979	
10,200.0	7,008.0	6,089.7	5,511.2	64.8	48.9	-57.82	-6,104.3	2,862.9	4,044.8	3,961.9	82.95	48.761	
10,236.2	7,007.9	6,092.4	5,513.6	65.5	48.9	-57.88	-6,104.6	2,864.1	4,018.4	3,934.9	83.60	48.068	
10,300.0	7,007.6	6,097.1	5,517.8	66.7	49.0	-57.98	-6,105.1	2,866.1	3,972.3	3,887.6	84.74	46.876	
10,334.6	7,007.5	6,099.7	5,520.1	67.3	49.0	-58.03	-6,105.4	2,867.2	3,947.5	3,862.2	85.36	46.244	
10,400.0	7,007.3	6,121.0	5,539.2	68.6	49.2	-58.47	-6,107.8	2,876.4	3,901.1	3,814.3	86.81	44.936	
10,433.0	7,007.2	6,121.0	5,539.2	69.2	49.2	-58.47	-6,107.8	2,876.4	3,877.8	3,790.4	87.37	44.384	
10,500.0	7,007.0	6,121.0	5,539.2	70.5	49.2	-58.47	-6,107.8	2,876.4	3,831.1	3,742.6	88.49	43.291	
10,531.5	7,006.9	6,121.0	5,539.2	71.1	49.2	-58.47	-6,107.8	2,876.4	3,809.3	3,720.3	89.02	42.789	
10,600.0	7,006.7	6,121.0	5,539.2	72.4	49.2	-58.47	-6,107.8	2,876.4	3,762.4	3,672.2	90.18	41.721	
10,629.9	7,006.6	6,121.0	5,539.2	73.0	49.2	-58.47	-6,107.8	2,876.4	3,742.1	3,651.4	90.68	41.266	
10,700.0	7,006.4	6,121.0	5,539.2	74.3	49.2	-58.47	-6,107.8	2,876.4	3,695.1	3,603.2	91.86	40.223	
10,728.3	7,006.3	6,121.0	5,539.2	74.9	49.2	-58.47	-6,107.8	2,876.4	3,676.3	3,584.0	92.34	39.812	
10,800.0	7,006.0	6,136.7	5,553.2	76.3	49.3	-58.79	-6,109.5	2,883.2	3,629.3	3,535.4	93.84	38.677	
10,826.7	7,005.9	6,139.0	5,555.3	76.8	49.3	-58.84	-6,109.8	2,884.3	3,611.9	3,517.6	94.33	38.290	
10,900.0	7,005.7	6,145.4	5,561.0	78.2	49.4	-58.97	-6,110.5	2,887.0	3,565.1	3,469.4	95.69	37.256	
10,925.2	7,005.6	6,147.6	5,563.0	78.7	49.4	-59.02	-6,110.7	2,888.0	3,549.1	3,453.0	96.16	36.909	
11,000.0	7,005.4	6,154.2	5,568.8	80.1	49.5	-59.15	-6,111.5	2,890.9	3,502.5	3,404.9	97.55	35.903	
11,023.6	7,005.3	6,156.2	5,570.7	80.6	49.5	-59.19	-6,111.7	2,891.8	3,488.0	3,390.0	97.99	35.594	
11,100.0	7,005.1	6,162.9	5,576.7	82.0	49.6	-59.33	-6,112.4	2,894.7	3,441.6	3,342.2	99.42	34.616	
11,122.0	7,005.0	6,164.9	5,578.4	82.5	49.6	-59.37	-6,112.6	2,895.5	3,428.5	3,328.6	99.83	34.341	
11,200.0	7,004.7	6,171.7	5,584.6	84.0	49.7	-59.51	-6,113.4	2,898.5	3,382.6	3,281.3	101.30	33.393	
11,220.4	7,004.7	6,173.6	5,586.2	84.4	49.7	-59.55	-6,113.6	2,899.3	3,370.8	3,269.1	101.68	33.150	
11,300.0	7,004.4	6,180.6	5,592.4	85.9	49.7	-59.70	-6,114.4	2,902.4	3,325.6	3,222.4	103.18	32.231	
11,318.9	7,004.4	6,182.2	5,593.9	86.3	49.8	-59.73	-6,114.6	2,903.1	3,315.0	3,211.5	103.54	32.018	
11,400.0	7,004.1	6,189.4	5,600.3	87.8	49.8	-59.88	-6,115.4	2,906.3	3,270.5	3,165.4	105.07	31.127	
11,417.3	7,004.0	6,191.0	5,601.7	88.2	49.8	-59.91	-6,115.6	2,906.9	3,261.2	3,155.8	105.40	30.942	
11,500.0	7,003.8	6,198.3	5,608.2	89.8	49.9	-60.06	-6,116.4	2,910.1	3,217.6	3,110.7	106.96	30.081	
11,515.7	7,003.7	6,199.7	5,609.5	90.1	49.9	-60.09	-6,116.5	2,910.8	3,209.5	3,102.2	107.26	29.922	
11,600.0	7,003.4	6,207.2	5,616.2	91.7	50.0	-60.25	-6,117.4	2,914.0	3,167.0	3,058.1	108.87	29.090	
11,614.1	7,003.4	6,208.4	5,617.3	92.0	50.0	-60.27	-6,117.5	2,914.6	3,160.0	3,050.8	109.14	28.955	
11,700.0	7,003.1	6,216.1	5,624.1	93.7	50.1	-60.43	-6,118.4	2,918.0	3,118.7	3,007.9	110.77	28.153	
11,712.6	7,003.1	6,217.2	5,625.1	93.9	50.1	-60.45	-6,118.5	2,918.5	3,112.8	3,001.7	111.01	28.039	
11,800.0	7,002.8	6,225.0	5,632.1	95.6	50.2	-60.61	-6,119.4	2,921.9	3,072.8	2,960.1	112.69	27.269	
11,811.0	7,002.7	6,226.0	5,632.9	95.8	50.2	-60.63	-6,119.5	2,922.3	3,067.9	2,955.0	112.90	27.174	
11,900.0	7,002.5	6,234.0	5,640.1	97.6	50.3	-60.80	-6,120.4	2,925.8	3,029.6	2,914.9	114.61	26.434	
11,909.4	7,002.4	6,234.8	5,640.8	97.7	50.3	-60.82	-6,120.5	2,926.2	3,025.6	2,910.8	114.79	26.358	
12,000.0	7,002.1	6,249.0	5,653.4	99.5	50.4	-61.11	-6,122.1	2,932.5	2,989.0	2,872.3	116.66	25.622	
12,007.8	7,002.1	6,249.0	5,653.4	99.7	50.4	-61.11	-6,122.1	2,932.5	2,985.9	2,869.1	116.79	25.566	
12,100.0	7,001.8	6,254.1	5,657.9	101.5	50.4	-61.21	-6,122.6	2,934.7	2,951.2	2,832.7	118.50	24.904	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,106.3	7,001.8	6,255.0	5,658.8	101.6	50.4	-61.23	-6,122.7	2,935.1	2,948.9	2,830.3	118.63	24.857	
12,200.0	7,001.5	6,268.8	5,671.1	103.4	50.6	-61.52	-6,124.2	2,941.2	2,916.3	2,795.8	120.56	24.190	
12,204.7	7,001.5	6,269.5	5,671.7	103.5	50.6	-61.53	-6,124.3	2,941.5	2,914.7	2,794.1	120.66	24.158	
12,300.0	7,001.2	6,282.8	5,683.5	105.3	50.7	-61.81	-6,125.7	2,947.4	2,884.4	2,761.8	122.60	23.526	
12,303.1	7,001.1	6,283.2	5,683.9	105.4	50.7	-61.82	-6,125.8	2,947.5	2,883.5	2,760.8	122.67	23.506	
12,400.0	7,000.8	6,296.0	5,695.3	107.3	50.8	-62.08	-6,127.1	2,953.2	2,855.6	2,731.0	124.64	22.911	
12,401.5	7,000.8	6,296.2	5,695.5	107.3	50.8	-62.09	-6,127.1	2,953.3	2,855.2	2,730.5	124.67	22.902	
12,500.0	7,000.5	6,308.6	5,706.6	109.3	51.0	-62.35	-6,128.4	2,958.7	2,830.0	2,703.4	126.67	22.342	
12,598.4	7,000.2	6,320.4	5,717.1	111.2	51.1	-62.59	-6,129.6	2,963.9	2,808.1	2,679.0	128.66	21.826	
12,600.0	7,000.2	6,320.6	5,717.2	111.2	51.1	-62.59	-6,129.6	2,964.0	2,807.7	2,679.0	128.69	21.818	
12,696.8	6,999.8	6,331.6	5,727.1	113.1	51.2	-62.82	-6,130.7	2,968.9	2,789.3	2,658.7	130.64	21.352	
12,700.0	6,999.8	6,332.0	5,727.4	113.2	51.2	-62.83	-6,130.7	2,969.0	2,788.8	2,658.1	130.70	21.337	
12,795.2	6,999.5	6,342.3	5,736.6	115.0	51.3	-63.05	-6,131.7	2,973.6	2,773.9	2,641.3	132.61	20.917	
12,800.0	6,999.5	6,342.8	5,737.1	115.1	51.3	-63.06	-6,131.7	2,973.8	2,773.3	2,640.6	132.71	20.897	
12,893.7	6,999.2	6,352.5	5,745.8	116.9	51.4	-63.26	-6,132.6	2,978.1	2,761.9	2,627.4	134.58	20.522	
12,900.0	6,999.2	6,353.2	5,746.3	117.1	51.4	-63.27	-6,132.7	2,978.4	2,761.3	2,626.6	134.71	20.498	
12,992.1	6,998.9	6,362.3	5,754.5	118.9	51.5	-63.46	-6,133.5	2,982.4	2,753.4	2,616.8	136.55	20.164	
13,000.0	6,998.8	6,363.1	5,755.2	119.0	51.5	-63.48	-6,133.6	2,982.7	2,752.8	2,616.1	136.71	20.137	
13,090.5	6,998.6	6,371.7	5,762.8	120.8	51.5	-63.66	-6,134.4	2,986.5	2,748.3	2,609.8	138.51	19.842	
13,100.0	6,998.5	6,372.5	5,763.6	121.0	51.5	-63.67	-6,134.4	2,986.9	2,748.0	2,609.3	138.70	19.812	
13,188.9	6,998.2	6,508.7	5,886.6	122.7	52.7	-66.50	-6,146.9	3,043.8	2,746.6	2,603.5	143.12	19.191	
13,196.0	6,998.2	6,509.9	5,887.7	122.9	52.7	-66.53	-6,147.0	3,044.3	2,746.6	2,603.3	143.27	19.171 CC	
13,200.0	6,998.2	6,510.5	5,888.3	122.9	52.7	-66.54	-6,147.1	3,044.6	2,746.6	2,603.2	143.36	19.159	
13,287.4	6,997.9	6,525.4	5,901.9	124.6	52.8	-66.85	-6,148.5	3,050.4	2,748.1	2,602.8	145.24	18.921 ES	
13,300.0	6,997.9	6,527.6	5,903.9	124.9	52.9	-66.89	-6,148.7	3,051.3	2,748.5	2,603.0	145.52	18.888	
13,385.8	6,997.6	6,542.4	5,917.5	126.6	53.0	-67.20	-6,150.2	3,057.1	2,753.0	2,605.7	147.38	18.680	
13,400.0	6,997.5	6,544.9	5,919.7	126.9	53.0	-67.26	-6,150.4	3,058.1	2,754.0	2,606.4	147.69	18.648	
13,484.2	6,997.3	6,559.8	5,933.4	128.5	53.1	-67.56	-6,151.9	3,063.9	2,761.4	2,611.9	149.52	18.469	
13,500.0	6,997.2	6,562.6	5,935.9	128.8	53.1	-67.62	-6,152.1	3,065.0	2,763.1	2,613.2	149.87	18.437	
13,582.6	6,996.9	6,577.4	5,949.6	130.4	53.3	-67.93	-6,153.6	3,070.7	2,773.2	2,621.6	151.68	18.284	
13,600.0	6,996.9	6,580.6	5,952.4	130.8	53.3	-68.00	-6,153.9	3,072.0	2,775.7	2,623.6	152.06	18.254	
13,681.1	6,996.6	6,595.5	5,966.1	132.4	53.4	-68.30	-6,155.4	3,077.7	2,788.4	2,634.6	153.84	18.125	
13,700.0	6,996.5	6,599.0	5,969.3	132.7	53.4	-68.38	-6,155.8	3,079.0	2,791.7	2,637.5	154.26	18.098	
13,779.5	6,996.3	6,613.8	5,983.0	134.3	53.5	-68.69	-6,157.3	3,084.7	2,806.9	2,650.9	156.01	17.991	
13,800.0	6,996.2	6,617.7	5,986.5	134.7	53.6	-68.77	-6,157.7	3,086.1	2,811.2	2,654.7	156.47	17.966	
13,877.9	6,995.9	6,632.5	6,000.2	136.2	53.7	-69.07	-6,159.2	3,091.8	2,828.6	2,670.4	158.20	17.880	
13,900.0	6,995.9	6,635.4	6,002.9	136.7	53.7	-69.13	-6,159.5	3,092.9	2,833.9	2,675.3	158.66	17.861	
13,976.3	6,995.6	6,643.1	6,009.9	138.2	53.8	-69.29	-6,160.3	3,095.8	2,853.5	2,693.3	160.23	17.809	
14,000.0	6,995.5	6,645.5	6,012.1	138.6	53.8	-69.34	-6,160.5	3,096.7	2,860.0	2,699.3	160.71	17.795	
14,074.8	6,995.3	6,653.2	6,019.1	140.1	53.9	-69.50	-6,161.3	3,099.5	2,881.5	2,719.3	162.25	17.760	
14,100.0	6,995.2	6,655.7	6,021.5	140.6	53.9	-69.56	-6,161.6	3,100.5	2,889.2	2,726.4	162.77	17.750	
14,162.0	6,995.0	6,662.1	6,027.4	141.8	53.9	-69.69	-6,162.2	3,102.9	2,908.9	2,744.9	164.01	17.736 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
0.0	0.0	0.0	0.0	0.0	0.0	171.29	-5,114.8	783.7	5,174.6				
98.4	98.4	124.1	124.1	0.1	0.1	171.29	-5,114.3	783.7	5,174.2	5,174.0	0.17	N/A	
100.0	100.0	126.4	126.4	0.1	0.1	171.29	-5,114.3	783.7	5,174.2	5,174.0	0.17	N/A	
196.8	196.8	728.0	725.6	0.3	1.6	170.96	-5,075.5	807.7	5,168.2	5,166.3	1.92	2,689.217	
200.0	200.0	728.0	725.6	0.3	1.6	170.96	-5,075.5	807.7	5,167.9	5,166.0	1.93	2,679.175	
295.3	295.3	786.4	783.4	0.5	1.8	170.88	-5,068.5	813.7	5,158.1	5,155.8	2.33	2,211.796	
300.0	300.0	788.9	785.8	0.5	1.8	170.88	-5,068.2	813.9	5,157.7	5,155.3	2.35	2,194.072	
393.7	393.7	856.0	852.0	0.8	2.0	170.77	-5,060.8	822.1	5,149.0	5,146.2	2.78	1,852.359	
400.0	400.0	856.0	852.0	0.8	2.0	170.77	-5,060.8	822.1	5,148.4	5,145.7	2.79	1,842.764	
492.1	492.1	898.5	893.8	1.0	2.2	170.70	-5,056.2	828.1	5,140.6	5,137.5	3.15	1,633.934	
500.0	500.0	903.8	899.0	1.0	2.2	170.69	-5,055.7	828.9	5,140.0	5,136.8	3.18	1,615.395	
590.5	590.5	964.0	958.1	1.2	2.5	170.57	-5,049.3	838.9	5,132.9	5,129.3	3.59	1,428.992	
600.0	600.0	985.0	978.6	1.2	2.5	170.52	-5,047.2	842.7	5,132.3	5,128.6	3.69	1,392.665	
689.0	689.0	1,027.5	1,020.1	1.4	2.7	170.42	-5,042.8	850.9	5,125.9	5,121.9	4.04	1,268.554	
700.0	700.0	1,034.5	1,026.9	1.4	2.7	170.41	-5,042.1	852.3	5,125.2	5,121.1	4.09	1,252.735	
787.4	787.4	1,089.8	1,080.6	1.6	3.0	170.27	-5,036.7	863.9	5,119.6	5,115.1	4.49	1,140.124	
800.0	800.0	1,113.0	1,103.2	1.7	3.1	170.21	-5,034.4	869.0	5,118.9	5,114.3	4.60	1,111.850	
885.8	885.8	1,155.7	1,144.5	1.9	3.3	170.09	-5,030.4	878.8	5,114.0	5,109.0	4.95	1,032.180	
900.0	900.0	1,165.5	1,154.1	1.9	3.3	170.06	-5,029.5	881.1	5,113.2	5,108.2	5.02	1,018.023	
984.2	984.2	1,242.0	1,228.0	2.1	3.7	169.85	-5,022.5	899.3	5,109.0	5,103.5	5.49	929.839	
1,000.0	1,000.0	1,242.0	1,228.0	2.1	3.7	169.85	-5,022.5	899.3	5,108.3	5,102.7	5.53	923.746	
1,082.7	1,082.7	1,412.5	1,392.5	2.3	4.5	169.36	-5,005.4	940.7	5,103.4	5,097.1	6.35	803.328	
1,100.0	1,100.0	1,430.0	1,409.4	2.3	4.6	169.30	-5,003.4	945.0	5,102.3	5,095.9	6.46	789.854	
1,181.1	1,181.1	1,551.1	1,525.9	2.5	5.3	106.50	-4,990.0	974.8	5,097.4	5,089.8	7.60	670.472	
1,200.0	1,200.0	1,621.6	1,593.8	2.6	5.6	106.34	-4,981.3	991.9	5,096.2	5,088.2	8.01	636.415	
1,279.5	1,279.4	1,665.3	1,635.9	2.7	5.8	106.33	-4,975.9	1,002.3	5,091.1	5,082.7	8.38	607.219	
1,300.0	1,299.8	1,675.4	1,645.7	2.8	5.9	106.33	-4,974.7	1,004.7	5,090.0	5,081.5	8.48	600.578	
1,377.9	1,377.5	1,714.1	1,683.1	3.0	6.1	106.32	-4,970.3	1,013.7	5,086.6	5,077.7	8.83	576.031	
1,400.0	1,399.5	1,755.0	1,722.6	3.0	6.3	106.27	-4,966.1	1,022.9	5,086.0	5,076.9	9.07	560.752	
1,476.4	1,475.3	1,772.9	1,740.0	3.2	6.4	106.28	-4,964.3	1,027.0	5,083.9	5,074.6	9.34	544.276	
1,500.0	1,498.7	1,798.4	1,764.7	3.2	6.5	106.26	-4,961.7	1,032.7	5,083.5	5,074.0	9.52	533.982	
1,574.8	1,572.6	1,879.0	1,842.7	3.5	6.9	106.18	-4,953.5	1,051.2	5,082.5	5,072.4	10.11	502.909	
1,600.0	1,597.5	1,914.3	1,876.8	3.5	7.1	106.16	-4,949.8	1,059.3	5,082.2	5,071.9	10.35	491.141	
1,673.2	1,669.4	2,012.0	1,971.4	3.7	7.5	106.09	-4,939.3	1,081.7	5,081.5	5,070.5	11.05	459.766	
1,700.0	1,695.7	2,012.0	1,971.4	3.8	7.5	106.10	-4,939.3	1,081.7	5,081.4	5,070.3	11.13	456.391	
1,704.6	1,700.1	2,036.4	1,995.0	3.8	7.7	106.08	-4,936.6	1,087.2	5,081.3	5,070.1	11.26	451.153	
1,762.2	1,756.5	2,073.2	2,030.6	4.0	7.8	106.06	-4,932.8	1,095.5	5,081.2	5,069.6	11.63	437.014	
1,771.6	1,765.7	2,079.2	2,036.5	4.1	7.9	106.06	-4,932.1	1,096.9	5,081.2	5,069.6	11.69	434.774	
1,800.0	1,793.4	2,097.3	2,054.0	4.2	7.9	106.05	-4,930.3	1,101.0	5,081.3	5,069.4	11.87	428.195	
1,870.1	1,862.0	2,282.3	2,233.2	4.4	8.8	105.96	-4,910.3	1,142.4	5,081.5	5,068.5	12.99	391.194	
1,900.0	1,891.3	2,311.3	2,261.3	4.5	9.0	105.95	-4,906.8	1,148.8	5,080.9	5,067.6	13.23	384.046	
1,968.5	1,958.3	2,377.8	2,325.7	4.8	9.3	105.93	-4,898.8	1,162.9	5,079.6	5,065.8	13.79	368.355	
2,000.0	1,989.1	2,397.0	2,344.4	4.9	9.4	105.92	-4,896.5	1,166.9	5,079.0	5,065.0	14.00	362.901	
2,066.9	2,054.5	2,454.3	2,400.0	5.2	9.6	105.90	-4,889.8	1,178.8	5,077.9	5,063.4	14.50	350.135	
2,100.0	2,086.9	2,478.4	2,423.5	5.3	9.8	105.90	-4,887.0	1,183.7	5,077.4	5,062.7	14.73	344.583	
2,165.3	2,150.8	2,526.0	2,469.7	5.6	10.0	105.88	-4,881.7	1,193.5	5,076.7	5,061.5	15.20	334.003	
2,200.0	2,184.7	2,526.0	2,469.7	5.7	10.0	105.88	-4,881.7	1,193.5	5,076.5	5,061.1	15.34	331.036	
2,263.8	2,247.1	2,583.9	2,526.1	5.9	10.2	105.87	-4,875.6	1,205.5	5,076.2	5,060.3	15.85	320.353	
2,280.9	2,263.8	2,594.0	2,535.8	6.0	10.3	105.86	-4,874.6	1,207.5	5,076.1	5,060.2	15.96	318.087	
2,300.0	2,282.5	2,605.2	2,546.8	6.1	10.3	105.86	-4,873.5	1,209.9	5,076.2	5,060.1	16.08	315.598	
2,362.2	2,343.4	2,654.0	2,594.3	6.4	10.5	105.85	-4,868.8	1,219.9	5,076.4	5,059.9	16.55	306.697	
2,400.0	2,380.3	2,671.7	2,611.5	6.5	10.6	105.85	-4,867.2	1,223.5	5,076.7	5,059.9	16.78	302.531	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
2,460.6	2,439.6	2,734.7	2,673.1	6.8	10.9	105.84	-4,861.5	1,236.2	5,077.2	5,059.9	17.30	293.488		
2,500.0	2,478.1	2,775.7	2,713.1	6.9	11.1	105.83	-4,857.8	1,244.2	5,077.5	5,059.8	17.64	287.898		
2,559.0	2,535.9	2,843.2	2,779.0	7.2	11.4	105.83	-4,851.7	1,256.8	5,077.9	5,059.7	18.15	279.776		
2,600.0	2,576.0	2,890.4	2,825.4	7.4	11.5	105.84	-4,847.6	1,265.1	5,078.1	5,059.6	18.51	274.401		
2,657.5	2,632.2	2,956.5	2,890.3	7.6	11.8	105.85	-4,841.8	1,275.7	5,078.3	5,059.3	18.98	267.516		
2,700.0	2,673.8	3,005.3	2,938.4	7.8	12.0	105.88	-4,837.6	1,282.6	5,078.4	5,059.1	19.33	262.758		
2,755.9	2,728.4	3,039.0	2,971.8	8.0	12.1	105.90	-4,834.8	1,287.0	5,078.5	5,058.8	19.68	258.091		
2,800.0	2,771.6	3,039.0	2,971.8	8.2	12.1	105.90	-4,834.8	1,287.0	5,079.0	5,059.1	19.86	255.704		
2,854.3	2,824.7	3,097.5	3,029.8	8.4	12.2	105.95	-4,830.5	1,293.3	5,079.3	5,059.1	20.24	250.934		
2,900.0	2,869.4	3,118.8	3,051.0	8.6	12.3	105.98	-4,829.2	1,295.2	5,080.1	5,059.6	20.49	247.942		
2,952.7	2,921.0	3,168.0	3,100.0	8.9	12.4	106.05	-4,826.8	1,298.8	5,081.3	5,060.5	20.84	243.858		
3,000.0	2,967.2	3,168.0	3,100.0	9.1	12.4	106.05	-4,826.8	1,298.8	5,082.5	5,061.4	21.04	241.583		
3,051.2	3,017.3	3,168.0	3,100.0	9.3	12.4	106.05	-4,826.8	1,298.8	5,084.2	5,062.9	21.26	239.181		
3,100.0	3,065.0	3,210.5	3,142.3	9.5	12.5	106.11	-4,825.4	1,301.0	5,085.9	5,064.4	21.53	236.187		
3,149.6	3,113.5	3,232.7	3,164.6	9.7	12.5	106.15	-4,824.8	1,302.0	5,088.0	5,066.3	21.78	233.593		
3,200.0	3,162.8	3,255.3	3,187.1	9.9	12.6	106.19	-4,824.4	1,302.7	5,090.5	5,068.4	22.03	231.033		
3,248.0	3,209.8	3,296.0	3,227.8	10.2	12.6	106.27	-4,824.1	1,303.7	5,093.1	5,070.8	22.30	228.345		
3,300.0	3,260.7	3,306.6	3,238.4	10.4	12.7	106.30	-4,824.1	1,303.8	5,096.1	5,073.6	22.54	226.084		
3,346.4	3,306.1	3,364.9	3,296.7	10.6	12.7	106.42	-4,823.9	1,304.7	5,098.9	5,076.1	22.81	223.521		
3,400.0	3,358.5	3,424.0	3,355.8	10.8	12.8	106.54	-4,823.6	1,305.5	5,102.0	5,078.9	23.11	220.731		
3,444.9	3,402.4	3,464.8	3,396.6	11.0	12.9	106.63	-4,823.4	1,305.9	5,104.6	5,081.2	23.35	218.568		
3,500.0	3,456.3	3,508.6	3,440.4	11.3	12.9	106.72	-4,823.3	1,306.3	5,107.8	5,084.2	23.64	216.044		
3,543.3	3,498.6	3,553.0	3,484.8	11.5	13.0	106.82	-4,823.3	1,306.5	5,110.5	5,086.7	23.88	214.005		
3,600.0	3,554.1	3,585.3	3,517.1	11.7	13.0	106.89	-4,823.4	1,306.6	5,114.2	5,090.0	24.16	211.678		
3,641.7	3,594.9	3,615.9	3,547.7	11.9	13.0	106.96	-4,823.5	1,306.7	5,117.0	5,092.6	24.37	209.938		
3,700.0	3,651.9	3,658.6	3,590.4	12.2	13.1	107.05	-4,823.8	1,306.8	5,121.0	5,096.3	24.67	207.567		
3,740.1	3,691.2	3,689.8	3,621.6	12.3	13.1	107.12	-4,824.1	1,307.0	5,123.9	5,099.0	24.88	205.962		
3,800.0	3,749.7	3,744.3	3,676.0	12.6	13.2	107.24	-4,824.7	1,306.9	5,128.3	5,103.1	25.19	203.589		
3,838.6	3,787.5	3,779.3	3,711.0	12.8	13.2	107.33	-4,825.2	1,306.6	5,131.2	5,105.8	25.39	202.093		
3,900.0	3,847.5	3,879.4	3,811.1	13.0	13.3	107.56	-4,826.3	1,305.3	5,135.7	5,110.0	25.75	199.456		
3,937.0	3,883.7	3,938.0	3,869.8	13.2	13.4	107.70	-4,826.5	1,304.6	5,138.1	5,112.1	25.96	197.903		
4,000.0	3,945.4	3,988.7	3,920.4	13.5	13.4	107.82	-4,826.5	1,304.0	5,142.1	5,115.9	26.28	195.658		
4,035.4	3,980.0	4,012.0	3,943.7	13.7	13.5	107.88	-4,826.7	1,303.6	5,144.5	5,118.1	26.46	194.458		
4,068.9	4,012.7	4,034.0	3,965.7	13.8	13.5	107.93	-4,826.8	1,303.2	5,146.9	5,120.3	26.62	193.343		
4,100.0	4,043.2	4,066.0	3,997.7	13.9	13.5	108.05	-4,827.2	1,302.5	5,149.1	5,122.3	26.76	192.394		
4,133.8	4,076.4	4,080.1	4,011.8	14.0	13.5	108.12	-4,827.4	1,302.2	5,151.4	5,124.6	26.87	191.682		
4,200.0	4,141.6	4,137.6	4,069.4	14.2	13.6	108.33	-4,828.2	1,300.9	5,155.8	5,128.6	27.12	190.125		
4,232.3	4,173.4	4,169.0	4,100.7	14.3	13.6	108.43	-4,828.6	1,300.2	5,157.8	5,130.5	27.23	189.426		
4,300.0	4,240.5	4,269.0	4,200.7	14.5	13.7	108.66	-4,829.8	1,298.4	5,161.5	5,134.0	27.50	187.671		
4,330.7	4,271.0	4,328.9	4,260.6	14.6	13.8	108.77	-4,830.0	1,297.8	5,162.7	5,135.1	27.63	186.823		
4,400.0	4,339.9	4,392.3	4,323.9	14.8	13.9	108.90	-4,830.1	1,296.9	5,165.1	5,137.2	27.86	185.415		
4,429.1	4,368.9	4,418.9	4,350.5	14.8	13.9	108.94	-4,830.2	1,296.3	5,165.9	5,138.0	27.94	184.892		
4,500.0	4,439.6	4,478.5	4,410.2	15.0	13.9	109.04	-4,830.5	1,294.5	5,167.7	5,139.5	28.13	183.678		
4,527.5	4,467.1	4,499.6	4,431.3	15.0	14.0	109.07	-4,830.7	1,293.8	5,168.2	5,140.0	28.20	183.292		
4,600.0	4,539.5	4,555.2	4,486.8	15.1	14.0	109.14	-4,831.3	1,292.0	5,169.5	5,141.1	28.36	182.272		
4,626.0	4,565.4	4,708.0	4,639.5	15.2	14.2	109.21	-4,831.3	1,288.6	5,169.8	5,141.3	28.57	180.985		
4,668.9	4,608.4	4,708.0	4,639.5	15.2	14.2	171.77	-4,831.3	1,288.6	5,169.4	5,140.7	28.64	180.517		
4,700.0	4,639.5	4,747.2	4,678.7	15.3	14.2	171.77	-4,830.7	1,288.1	5,168.9	5,140.1	28.73	179.904		
4,724.4	4,663.9	4,759.0	4,690.5	15.3	14.3	171.77	-4,830.7	1,288.0	5,168.6	5,139.9	28.78	179.570		
4,800.0	4,739.5	4,795.6	4,727.1	15.4	14.3	171.77	-4,830.5	1,287.7	5,168.3	5,139.4	28.95	178.554		
4,805.3	4,744.8	4,798.1	4,729.7	15.4	14.3	171.77	-4,830.5	1,287.7	5,168.3	5,139.3	28.96	178.483		
4,822.8	4,762.3	4,837.0	4,768.5	15.4	14.4	171.78	-4,830.7	1,287.4	5,168.5	5,139.5	29.04	178.004		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
4,900.0	4,839.5	4,965.0	4,896.5	15.6	14.5	171.78	-4,829.9	1,287.1	5,168.1	5,138.8	29.34	176.153		
4,921.2	4,860.7	4,965.0	4,896.5	15.6	14.5	171.78	-4,829.9	1,287.1	5,167.9	5,138.5	29.37	175.951		
5,000.0	4,939.5	5,026.9	4,958.4	15.7	14.6	171.78	-4,829.1	1,287.2	5,166.9	5,137.3	29.59	174.635		
5,019.7	4,959.1	5,036.1	4,967.6	15.7	14.7	171.78	-4,829.0	1,287.2	5,166.8	5,137.1	29.63	174.369		
5,046.4	4,985.9	5,048.5	4,980.0	15.8	14.7	171.78	-4,829.0	1,287.3	5,166.7	5,137.0	29.69	174.011		
5,100.0	5,039.5	5,094.0	5,025.5	15.9	14.7	171.78	-4,829.1	1,287.4	5,166.8	5,137.0	29.84	173.124		
5,102.5	5,042.0	5,094.0	5,025.5	15.9	14.7	171.78	-4,829.1	1,287.4	5,166.8	5,137.0	29.85	173.101		
5,118.1	5,057.6	5,094.0	5,025.5	15.9	14.7	171.78	-4,829.1	1,287.4	5,166.8	5,137.0	29.87	172.962		
5,200.0	5,139.5	5,159.2	5,090.7	16.0	14.8	171.77	-4,829.5	1,287.8	5,167.4	5,137.3	30.10	171.662		
5,216.5	5,156.0	5,178.5	5,110.0	16.0	14.9	171.77	-4,829.6	1,287.9	5,167.5	5,137.3	30.16	171.345		
5,300.0	5,239.5	5,259.3	5,190.8	16.2	15.0	171.77	-4,830.0	1,288.3	5,167.9	5,137.5	30.42	169.910		
5,314.9	5,254.4	5,271.4	5,202.9	16.2	15.0	171.77	-4,830.0	1,288.3	5,168.0	5,137.5	30.46	169.676		
5,400.0	5,339.5	5,350.0	5,281.5	16.3	15.1	171.77	-4,830.7	1,288.5	5,168.7	5,138.0	30.72	168.278		
5,413.4	5,352.8	5,351.2	5,282.7	16.3	15.1	171.77	-4,830.7	1,288.5	5,168.9	5,138.1	30.74	168.154		
5,500.0	5,439.5	5,453.4	5,384.9	16.5	15.3	171.76	-4,831.6	1,288.8	5,169.6	5,138.6	31.04	166.556		
5,511.8	5,451.3	5,467.3	5,398.8	16.5	15.3	171.76	-4,831.7	1,288.9	5,169.7	5,138.6	31.08	166.339		
5,600.0	5,539.5	5,552.1	5,483.6	16.6	15.4	171.76	-4,832.2	1,289.3	5,170.3	5,139.0	31.36	164.890		
5,610.2	5,549.7	5,561.6	5,493.1	16.6	15.4	171.76	-4,832.3	1,289.3	5,170.4	5,139.0	31.39	164.726		
5,700.0	5,639.5	5,640.8	5,572.3	16.8	15.6	171.76	-4,833.0	1,289.3	5,171.2	5,139.5	31.66	163.336		
5,708.6	5,648.1	5,648.0	5,579.5	16.8	15.6	171.76	-4,833.0	1,289.3	5,171.3	5,139.6	31.69	163.208		
5,800.0	5,739.5	5,723.1	5,654.6	17.0	15.7	171.76	-4,833.9	1,289.5	5,172.3	5,140.4	31.95	161.868		
5,807.1	5,746.5	5,736.0	5,667.5	17.0	15.7	171.76	-4,834.1	1,289.5	5,172.4	5,140.4	31.99	161.708		
5,900.0	5,839.5	5,813.4	5,744.9	17.1	15.8	171.76	-4,835.1	1,290.0	5,173.8	5,141.5	32.27	160.330		
5,905.5	5,845.0	5,818.5	5,749.9	17.1	15.8	171.76	-4,835.2	1,290.1	5,173.8	5,141.6	32.29	160.245		
6,000.0	5,939.5	5,934.7	5,866.1	17.3	16.0	171.75	-4,836.7	1,291.3	5,175.2	5,142.6	32.64	158.558		
6,003.9	5,943.4	5,940.8	5,872.3	17.3	16.0	171.74	-4,836.7	1,291.3	5,175.3	5,142.6	32.66	158.477		
6,100.0	6,039.5	6,057.9	5,989.4	17.4	16.2	171.74	-4,837.6	1,291.8	5,176.0	5,143.0	33.01	156.780		
6,102.3	6,041.8	6,060.4	5,991.8	17.4	16.2	171.74	-4,837.6	1,291.8	5,176.0	5,143.0	33.02	156.742		
6,200.0	6,139.5	6,220.5	6,151.9	17.6	16.5	171.72	-4,837.8	1,293.4	5,176.4	5,142.9	33.47	154.666		
6,200.8	6,140.2	6,222.5	6,153.9	17.6	16.5	171.72	-4,837.8	1,293.4	5,176.4	5,142.9	33.47	154.644		
6,299.2	6,238.7	6,404.8	6,336.2	17.8	16.8	171.70	-4,834.7	1,295.0	5,174.7	5,140.8	33.97	152.344		
6,300.0	6,239.5	6,405.6	6,337.0	17.8	16.8	171.70	-4,834.7	1,295.0	5,174.7	5,140.7	33.97	152.332		
6,360.9	6,300.4	6,466.1	6,397.5	17.9	16.9	171.70	-4,833.3	1,295.3	5,173.4	5,139.2	34.18	151.347		
6,397.6	6,337.1	6,502.5	6,433.9	17.9	17.0	-8.54	-4,832.5	1,295.5	5,171.6	5,137.4	34.21	151.157		
6,400.0	6,339.5	6,504.8	6,436.2	17.9	17.0	-8.54	-4,832.4	1,295.6	5,171.5	5,137.3	34.21	151.150		
6,450.0	6,389.2	6,536.3	6,467.7	18.0	17.1	-8.62	-4,831.7	1,295.8	5,166.0	5,131.9	34.11	151.462		
6,496.0	6,434.7	6,564.6	6,496.0	18.0	17.1	-8.72	-4,831.2	1,295.9	5,158.2	5,124.3	33.89	152.213		
6,500.0	6,438.6	6,567.0	6,498.4	18.0	17.1	-8.73	-4,831.2	1,295.9	5,157.4	5,123.5	33.86	152.297		
6,550.0	6,487.3	6,597.3	6,528.7	18.0	17.2	-8.90	-4,830.8	1,296.0	5,145.5	5,112.0	33.49	153.661		
6,594.5	6,529.8	6,634.0	6,565.4	18.0	17.2	-9.09	-4,830.4	1,296.0	5,132.3	5,099.3	33.06	155.247		
6,600.0	6,535.1	6,634.0	6,565.4	18.1	17.2	-9.11	-4,830.4	1,296.0	5,130.5	5,097.5	32.99	155.509		
6,650.0	6,581.7	6,660.5	6,591.9	18.0	17.3	-9.38	-4,830.3	1,296.0	5,112.4	5,080.0	32.36	157.991		
6,692.9	6,620.6	6,689.5	6,620.8	18.0	17.3	-9.67	-4,830.2	1,296.0	5,094.4	5,062.7	31.74	160.522		
6,700.0	6,626.9	6,694.2	6,625.6	18.0	17.3	-9.72	-4,830.1	1,296.0	5,091.2	5,059.6	31.63	160.980		
6,750.0	6,670.6	6,726.8	6,658.1	18.0	17.4	-10.14	-4,830.1	1,296.2	5,067.1	5,036.3	30.79	164.559		
6,791.3	6,705.4	6,763.0	6,694.4	18.0	17.4	-10.57	-4,830.0	1,296.4	5,045.0	5,015.0	30.05	167.873		
6,800.0	6,712.5	6,763.0	6,694.4	18.0	17.4	-10.66	-4,830.0	1,296.4	5,040.1	5,010.2	29.88	168.690		
6,850.0	6,752.3	6,790.1	6,721.4	18.0	17.5	-11.27	-4,830.1	1,296.6	5,010.4	4,981.5	28.88	173.487		
6,889.7	6,782.5	6,814.7	6,746.0	18.0	17.5	-11.85	-4,830.1	1,296.7	4,984.9	4,956.8	28.06	177.661		
6,900.0	6,790.0	6,820.8	6,752.2	18.0	17.5	-12.02	-4,830.2	1,296.7	4,978.0	4,950.2	27.84	178.786		
6,950.0	6,825.3	6,852.0	6,783.4	18.0	17.6	-12.93	-4,830.3	1,296.9	4,943.2	4,916.4	26.79	184.513		
6,988.2	6,850.5	6,872.2	6,803.6	17.9	17.6	-13.77	-4,830.4	1,297.0	4,915.0	4,889.1	25.99	189.112		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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		
7,000.0	6,858.0	6,879.0	6,810.3	17.9	17.6	-14.06	-4,830.4	1,297.0	4,906.1	4,880.3	25.75	190.525		
7,050.0	6,888.0	6,908.7	6,840.0	18.0	17.7	-15.47	-4,830.6	1,297.1	4,866.8	4,842.0	24.79	196.341		
7,086.6	6,908.1	6,930.0	6,861.4	18.0	17.7	-16.74	-4,830.7	1,297.2	4,836.7	4,812.5	24.18	200.055		
7,100.0	6,915.1	6,937.4	6,868.8	18.0	17.7	-17.26	-4,830.8	1,297.2	4,825.5	4,801.5	23.96	201.365		
7,150.0	6,939.2	6,963.0	6,894.4	18.0	17.8	-19.58	-4,830.9	1,297.4	4,782.4	4,759.0	23.37	204.645		
7,185.0	6,954.3	6,979.0	6,910.3	18.1	17.8	-21.62	-4,831.0	1,297.5	4,751.3	4,728.1	23.16	205.141		
7,200.0	6,960.3	6,985.3	6,916.7	18.1	17.8	-22.63	-4,831.0	1,297.5	4,737.8	4,714.6	23.13	204.793		
7,250.0	6,978.1	7,004.2	6,935.5	18.3	17.9	-26.78	-4,831.1	1,297.6	4,691.8	4,668.4	23.44	200.163		
7,283.4	6,988.2	7,014.9	6,946.2	18.4	17.9	-30.45	-4,831.2	1,297.7	4,660.4	4,636.3	24.06	193.661		
7,300.0	6,992.6	7,019.6	6,951.0	18.4	17.9	-32.62	-4,831.2	1,297.8	4,644.7	4,620.2	24.52	189.410		
7,350.0	7,003.7	7,020.0	6,951.4	18.7	17.9	-40.79	-4,831.2	1,297.8	4,596.7	4,570.2	26.52	173.327		
7,381.9	7,009.1	7,020.0	6,951.4	18.9	17.9	-47.97	-4,831.2	1,297.8	4,565.8	4,537.4	28.36	160.998		
7,400.0	7,011.4	7,020.0	6,951.4	19.0	17.9	-52.96	-4,831.2	1,297.8	4,548.1	4,518.5	29.55	153.910		
7,450.0	7,015.7	7,020.0	6,951.4	19.3	17.9	-70.63	-4,831.2	1,297.8	4,499.0	4,466.3	32.71	137.554		
7,480.3	7,016.6	7,037.9	6,969.2	19.6	17.9	-85.13	-4,831.3	1,297.9	4,469.2	4,435.5	33.65	132.802		
7,488.2	7,016.6	7,037.9	6,969.3	19.6	17.9	-88.73	-4,831.3	1,297.9	4,461.4	4,427.8	33.63	132.660		
7,500.0	7,016.6	7,037.9	6,969.3	19.7	17.9	-88.73	-4,831.3	1,297.9	4,449.8	4,416.0	33.75	131.860		
7,578.7	7,016.3	7,038.1	6,969.4	20.5	17.9	-88.74	-4,831.3	1,297.9	4,372.2	4,337.7	34.57	126.458		
7,600.0	7,016.2	7,038.1	6,969.5	20.7	17.9	-88.75	-4,831.3	1,297.9	4,351.3	4,316.5	34.80	125.043		
7,677.1	7,016.0	7,038.2	6,969.6	21.6	17.9	-88.76	-4,831.3	1,297.9	4,275.4	4,239.7	35.71	119.720		
7,700.0	7,015.9	7,038.3	6,969.6	21.8	17.9	-88.76	-4,831.3	1,297.9	4,252.9	4,216.9	35.98	118.196		
7,775.6	7,015.7	7,038.4	6,969.8	22.7	17.9	-88.77	-4,831.3	1,297.9	4,178.6	4,141.6	36.96	113.044		
7,800.0	7,015.6	7,038.5	6,969.8	23.0	17.9	-88.77	-4,831.3	1,297.9	4,154.6	4,117.3	37.28	111.437		
7,874.0	7,015.4	7,038.6	6,969.9	24.0	17.9	-88.78	-4,831.3	1,297.9	4,081.9	4,043.6	38.32	106.534		
7,900.0	7,015.3	7,038.6	6,970.0	24.4	17.9	-88.79	-4,831.3	1,297.9	4,056.4	4,017.7	38.68	104.873		
7,972.4	7,015.1	7,038.8	6,970.1	25.4	17.9	-88.80	-4,831.3	1,297.9	3,985.3	3,945.5	39.75	100.262		
8,000.0	7,015.0	7,038.8	6,970.2	25.8	17.9	-88.80	-4,831.3	1,297.9	3,958.2	3,918.1	40.16	98.571		
8,070.8	7,014.8	7,039.0	6,970.3	26.8	17.9	-88.81	-4,831.3	1,297.9	3,888.7	3,847.5	41.25	94.273		
8,100.0	7,014.7	7,039.0	6,970.4	27.3	17.9	-88.82	-4,831.3	1,297.9	3,860.2	3,818.5	41.70	92.571		
8,169.3	7,014.4	7,039.1	6,970.5	28.3	17.9	-88.83	-4,831.3	1,297.9	3,792.3	3,749.5	42.81	88.590		
8,200.0	7,014.4	7,039.2	6,970.6	28.8	17.9	-88.83	-4,831.3	1,297.9	3,762.2	3,718.9	43.30	86.890		
8,267.7	7,014.1	7,039.3	6,970.7	29.9	17.9	-88.84	-4,831.3	1,297.9	3,696.0	3,651.6	44.41	83.218		
8,300.0	7,014.0	7,039.4	6,970.7	30.4	17.9	-88.85	-4,831.3	1,297.9	3,664.4	3,619.4	44.94	81.531		
8,366.1	7,013.8	7,039.5	6,970.9	31.5	17.9	-88.86	-4,831.3	1,297.9	3,599.8	3,553.7	46.06	78.156		
8,400.0	7,013.7	7,039.6	6,970.9	32.0	17.9	-88.86	-4,831.3	1,297.9	3,566.7	3,520.0	46.63	76.490		
8,464.5	7,013.5	7,039.7	6,971.1	33.1	17.9	-88.87	-4,831.3	1,297.9	3,503.7	3,455.9	47.74	73.394		
8,500.0	7,013.4	7,039.8	6,971.1	33.7	17.9	-88.88	-4,831.3	1,297.9	3,469.1	3,420.7	48.35	71.754		
8,563.0	7,013.2	7,039.9	6,971.3	34.8	17.9	-88.89	-4,831.3	1,297.9	3,407.7	3,358.3	49.45	68.918		
8,600.0	7,013.1	7,040.0	6,971.3	35.4	17.9	-88.89	-4,831.3	1,297.9	3,371.7	3,321.6	50.09	67.308		
8,661.4	7,012.9	7,040.1	6,971.4	36.5	17.9	-88.90	-4,831.3	1,297.9	3,311.9	3,260.7	51.18	64.712		
8,700.0	7,012.8	7,040.2	6,971.5	37.1	17.9	-88.91	-4,831.3	1,297.9	3,274.4	3,222.5	51.86	63.136		
8,759.8	7,012.6	7,040.3	6,971.6	38.2	17.9	-88.92	-4,831.3	1,297.9	3,216.2	3,163.3	52.93	60.760		
8,800.0	7,012.4	7,040.4	6,971.7	38.9	17.9	-88.92	-4,831.3	1,297.9	3,177.2	3,123.6	53.65	59.219		
8,858.2	7,012.3	7,040.5	6,971.8	39.9	17.9	-88.93	-4,831.3	1,297.9	3,120.8	3,066.0	54.71	57.046		
8,900.0	7,012.1	7,040.6	6,971.9	40.7	17.9	-88.94	-4,831.3	1,297.9	3,080.3	3,024.8	55.46	55.540		
8,956.7	7,011.9	7,040.7	6,972.0	41.7	17.9	-88.95	-4,831.3	1,297.9	3,025.5	2,969.0	56.49	53.553		
9,000.0	7,011.8	7,040.8	6,972.1	42.4	17.9	-88.96	-4,831.3	1,297.9	2,983.6	2,926.3	57.28	52.084		
9,055.1	7,011.6	7,040.9	6,972.2	43.4	17.9	-88.96	-4,831.3	1,297.9	2,930.4	2,872.1	58.30	50.266		
9,100.0	7,011.5	7,041.0	6,972.3	44.2	17.9	-88.97	-4,831.3	1,297.9	2,887.1	2,827.9	59.12	48.833		
9,153.5	7,011.3	7,041.1	6,972.5	45.2	17.9	-88.98	-4,831.3	1,297.9	2,835.5	2,775.4	60.11	47.171		
9,200.0	7,011.2	7,041.2	6,972.5	46.1	17.9	-88.99	-4,831.3	1,297.9	2,790.8	2,729.8	60.97	45.773		
9,251.9	7,011.0	7,041.3	6,972.7	47.0	17.9	-89.00	-4,831.3	1,297.9	2,740.9	2,679.0	61.94	44.253		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,300.0	7,010.9	7,041.4	6,972.8	47.9	17.9	-89.00	-4,831.3	1,297.9	2,694.8	2,632.0	62.83	42.890	
9,350.4	7,010.7	7,041.5	6,972.9	48.8	17.9	-89.01	-4,831.3	1,297.9	2,646.6	2,582.8	63.77	41.500	
9,400.0	7,010.5	7,041.6	6,973.0	49.7	17.9	-89.02	-4,831.3	1,297.9	2,599.1	2,534.4	64.70	40.172	
9,448.8	7,010.4	7,041.7	6,973.1	50.6	17.9	-89.03	-4,831.3	1,297.9	2,552.5	2,486.9	65.62	38.901	
9,500.0	7,010.2	7,041.8	6,973.2	51.6	17.9	-89.04	-4,831.3	1,297.9	2,503.8	2,437.2	66.58	37.607	
9,547.2	7,010.1	7,041.9	6,973.3	52.5	17.9	-89.05	-4,831.3	1,297.9	2,458.8	2,391.4	67.47	36.445	
9,600.0	7,009.9	7,042.0	6,973.4	53.5	17.9	-89.05	-4,831.3	1,297.9	2,408.8	2,340.3	68.46	35.184	
9,645.6	7,009.8	7,042.1	6,973.5	54.3	17.9	-89.06	-4,831.3	1,297.9	2,365.6	2,296.2	69.33	34.123	
9,700.0	7,009.6	7,042.3	6,973.6	55.3	17.9	-89.07	-4,831.3	1,297.9	2,314.2	2,243.9	70.35	32.894	
9,744.1	7,009.4	7,042.4	6,973.7	56.2	17.9	-89.08	-4,831.3	1,297.9	2,272.7	2,201.5	71.19	31.925	
9,800.0	7,009.3	7,042.5	6,973.9	57.2	17.9	-89.09	-4,831.3	1,297.9	2,220.1	2,147.9	72.25	30.728	
9,842.5	7,009.1	7,042.6	6,973.9	58.0	17.9	-89.10	-4,831.3	1,297.9	2,180.3	2,107.3	73.06	29.843	
9,900.0	7,008.9	7,042.7	6,974.1	59.1	17.9	-89.11	-4,831.3	1,297.9	2,126.6	2,052.4	74.15	28.678	
9,940.9	7,008.8	7,042.8	6,974.2	59.9	17.9	-89.11	-4,831.3	1,297.9	2,088.5	2,013.6	74.93	27.871	
10,000.0	7,008.6	7,042.9	6,974.3	61.0	17.9	-89.12	-4,831.3	1,297.9	2,033.7	1,957.6	76.06	26.737	
10,039.3	7,008.5	7,043.0	6,974.4	61.7	17.9	-89.13	-4,831.3	1,297.9	1,997.3	1,920.5	76.81	26.002	
10,100.0	7,008.3	7,043.2	6,974.5	62.9	17.9	-89.14	-4,831.3	1,297.9	1,941.5	1,863.5	77.97	24.899	
10,137.8	7,008.2	7,043.3	6,974.6	63.6	17.9	-89.15	-4,831.3	1,297.9	1,906.8	1,828.1	78.70	24.230	
10,200.0	7,008.0	7,043.4	6,974.8	64.8	17.9	-89.16	-4,831.3	1,298.0	1,850.0	1,770.2	79.89	23.158	
10,236.2	7,007.9	7,043.5	6,974.9	65.5	17.9	-89.17	-4,831.3	1,298.0	1,817.2	1,736.6	80.58	22.550	
10,300.0	7,007.6	7,043.7	6,975.0	66.7	17.9	-89.18	-4,831.3	1,298.0	1,759.6	1,677.8	81.81	21.508	
10,334.6	7,007.5	7,043.7	6,975.1	67.3	17.9	-89.18	-4,831.3	1,298.0	1,728.5	1,646.0	82.48	20.958	
10,400.0	7,007.3	7,043.9	6,975.2	68.6	17.9	-89.19	-4,831.3	1,298.0	1,670.2	1,586.4	83.73	19.947	
10,433.0	7,007.2	7,044.0	6,975.3	69.2	17.9	-89.20	-4,831.3	1,298.0	1,640.9	1,556.5	84.37	19.449	
10,500.0	7,007.0	7,044.1	6,975.5	70.5	17.9	-89.21	-4,831.3	1,298.0	1,582.1	1,496.4	85.66	18.469	
10,531.5	7,006.9	7,044.2	6,975.6	71.1	17.9	-89.22	-4,831.3	1,298.0	1,554.6	1,468.3	86.27	18.021	
10,600.0	7,006.7	7,044.4	6,975.7	72.4	17.9	-89.23	-4,831.3	1,298.0	1,495.4	1,407.8	87.59	17.073	
10,629.9	7,006.6	7,044.5	6,975.8	73.0	17.9	-89.24	-4,831.3	1,298.0	1,469.9	1,381.7	88.17	16.672	
10,700.0	7,006.4	7,044.6	6,976.0	74.3	17.9	-89.25	-4,831.3	1,298.0	1,410.6	1,321.1	89.52	15.757	
10,728.3	7,006.3	7,044.7	6,976.1	74.9	17.9	-89.26	-4,831.3	1,298.0	1,386.9	1,296.8	90.07	15.398	
10,800.0	7,006.0	7,044.9	6,976.2	76.3	17.9	-89.27	-4,831.3	1,298.0	1,327.8	1,236.4	91.45	14.519	
10,826.7	7,005.9	7,044.9	6,976.3	76.8	17.9	-89.27	-4,831.3	1,298.0	1,306.1	1,214.1	91.97	14.201	
10,900.0	7,005.7	7,045.1	6,976.5	78.2	17.9	-89.29	-4,831.3	1,298.0	1,247.6	1,154.2	93.39	13.359	
10,925.2	7,005.6	7,045.2	6,976.6	78.7	17.9	-89.29	-4,831.3	1,298.0	1,227.9	1,134.0	93.88	13.079	
11,000.0	7,005.4	7,045.4	6,976.8	80.1	17.9	-89.31	-4,831.3	1,298.0	1,170.4	1,075.1	95.33	12.278	
11,023.6	7,005.3	7,045.5	6,976.8	80.6	17.9	-89.31	-4,831.3	1,298.0	1,152.7	1,057.0	95.79	12.034	
11,100.0	7,005.1	7,045.7	6,977.0	82.0	17.9	-89.33	-4,831.3	1,298.0	1,097.0	999.7	97.27	11.278	
11,122.0	7,005.0	7,045.7	6,977.1	82.5	17.9	-89.33	-4,831.3	1,298.0	1,081.4	983.7	97.70	11.068	
11,200.0	7,004.7	7,045.9	6,977.3	84.0	17.9	-89.35	-4,831.3	1,298.0	1,028.0	928.8	99.21	10.361	
11,220.4	7,004.7	7,046.0	6,977.3	84.4	17.9	-89.35	-4,831.3	1,298.0	1,014.5	914.9	99.61	10.185	
11,300.0	7,004.4	7,046.2	6,977.5	85.9	17.9	-89.37	-4,831.3	1,298.0	964.4	863.3	101.16	9.534	
11,318.9	7,004.4	7,046.2	6,977.6	86.3	17.9	-89.37	-4,831.3	1,298.0	953.2	851.6	101.52	9.389	
11,400.0	7,004.1	7,046.5	6,977.8	87.8	17.9	-89.39	-4,831.3	1,298.0	907.5	804.4	103.10	8.802	
11,417.3	7,004.0	7,046.5	6,977.9	88.2	17.9	-89.39	-4,831.3	1,298.0	898.4	795.0	103.44	8.686	
11,500.0	7,003.8	7,046.7	6,978.1	89.8	17.9	-89.41	-4,831.3	1,298.0	858.5	753.4	105.05	8.172	
11,515.7	7,003.7	7,046.8	6,978.1	90.1	17.9	-89.41	-4,831.3	1,298.0	851.6	746.2	105.36	8.083	
11,600.0	7,003.4	7,047.0	6,978.4	91.7	17.9	-89.43	-4,831.3	1,298.0	818.8	711.8	107.00	7.652	
11,614.1	7,003.4	7,047.1	6,978.4	92.0	17.9	-89.43	-4,831.3	1,298.0	814.0	706.7	107.27	7.588	
11,700.0	7,003.1	7,047.3	6,978.7	93.7	17.9	-89.45	-4,831.3	1,298.0	789.8	680.9	108.95	7.249	
11,712.6	7,003.1	7,047.3	6,978.7	93.9	17.9	-89.45	-4,831.3	1,298.0	787.0	677.8	109.19	7.207	
11,800.0	7,002.8	7,047.6	6,978.9	95.6	17.9	-89.47	-4,831.3	1,298.0	772.8	661.9	110.90	6.968	
11,811.0	7,002.7	7,047.6	6,979.0	95.8	17.9	-89.47	-4,831.3	1,298.0	771.7	660.6	111.11	6.945	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
11,883.0	7,002.5	7,047.8	6,979.2	97.2	17.9	-89.49	-4,831.3	1,298.0	768.3	655.8	112.52	6.828	CC
11,900.0	7,002.5	7,047.9	6,979.2	97.6	17.9	-89.49	-4,831.3	1,298.0	768.5	655.7	112.85	6.810	ES
11,909.4	7,002.4	7,047.9	6,979.3	97.7	17.9	-89.50	-4,831.3	1,298.0	768.8	655.7	113.03	6.801	
12,000.0	7,002.1	7,048.2	6,979.5	99.5	17.9	-89.52	-4,831.3	1,298.0	777.2	662.4	114.80	6.770	SF
12,007.8	7,002.1	7,048.2	6,979.5	99.7	17.9	-89.52	-4,831.3	1,298.0	778.4	663.4	114.96	6.771	
12,100.0	7,001.8	7,048.5	6,979.8	101.5	17.9	-89.54	-4,831.3	1,298.0	798.4	681.6	116.76	6.838	
12,106.3	7,001.8	7,048.5	6,979.8	101.6	17.9	-89.54	-4,831.3	1,298.0	800.1	683.2	116.88	6.846	
12,200.0	7,001.5	7,048.8	6,980.1	103.4	17.9	-89.56	-4,831.3	1,298.0	831.1	712.4	118.71	7.001	
12,204.7	7,001.5	7,048.8	6,980.1	103.5	17.9	-89.56	-4,831.3	1,298.0	833.0	714.1	118.80	7.011	
12,300.0	7,001.2	7,049.1	6,980.4	105.3	17.9	-89.58	-4,831.3	1,298.0	874.2	753.5	120.67	7.245	
12,303.1	7,001.1	7,049.1	6,980.4	105.4	17.9	-89.58	-4,831.3	1,298.0	875.7	755.0	120.73	7.253	
12,400.0	7,000.8	7,049.4	6,980.7	107.3	17.9	-89.61	-4,831.3	1,298.0	926.1	803.4	122.63	7.552	
12,401.5	7,000.8	7,049.4	6,980.7	107.3	17.9	-89.61	-4,831.3	1,298.0	926.9	804.3	122.66	7.557	
12,500.0	7,000.5	7,049.7	6,981.1	109.3	17.9	-89.63	-4,831.3	1,298.0	985.4	860.8	124.58	7.910	
12,598.4	7,000.2	7,050.0	6,981.4	111.2	17.9	-89.65	-4,831.3	1,298.0	1,049.8	923.3	126.51	8.298	
12,600.0	7,000.2	7,050.0	6,981.4	111.2	17.9	-89.65	-4,831.3	1,298.0	1,050.9	924.4	126.54	8.305	
12,696.8	6,999.8	7,050.3	6,981.7	113.1	17.9	-89.68	-4,831.3	1,298.0	1,119.2	990.8	128.44	8.714	
12,700.0	6,999.8	7,050.3	6,981.7	113.2	17.9	-89.68	-4,831.3	1,298.0	1,121.5	993.0	128.50	8.728	
12,795.2	6,999.5	7,050.7	6,982.0	115.1	17.9	-89.70	-4,831.4	1,298.0	1,192.7	1,062.3	130.37	9.149	
12,800.0	6,999.5	7,050.7	6,982.0	115.1	17.9	-89.70	-4,831.4	1,298.0	1,196.3	1,065.9	130.46	9.170	
12,893.7	6,999.2	7,051.0	6,982.3	116.9	17.9	-89.73	-4,831.4	1,298.0	1,269.6	1,137.3	132.30	9.596	
12,900.0	6,999.2	7,051.0	6,982.4	117.1	17.9	-89.73	-4,831.4	1,298.0	1,274.6	1,142.2	132.42	9.625	
12,992.1	6,998.9	7,051.3	6,982.7	118.9	17.9	-89.75	-4,831.4	1,298.0	1,349.2	1,215.0	134.23	10.052	
13,000.0	6,998.8	7,051.3	6,982.7	119.0	17.9	-89.75	-4,831.4	1,298.0	1,355.7	1,221.4	134.38	10.089	
13,090.5	6,998.6	7,051.7	6,983.0	120.8	17.9	-89.77	-4,831.4	1,298.0	1,431.2	1,295.1	136.16	10.512	
13,100.0	6,998.5	7,051.7	6,983.0	121.0	17.9	-89.78	-4,831.4	1,298.0	1,439.2	1,302.9	136.34	10.556	
13,188.9	6,998.2	7,052.0	6,983.4	122.7	17.9	-89.80	-4,831.4	1,298.0	1,515.2	1,377.1	138.09	10.973	
13,200.0	6,998.2	7,052.0	6,983.4	122.9	17.9	-89.80	-4,831.4	1,298.0	1,524.7	1,386.4	138.30	11.024	
13,287.4	6,997.9	7,052.3	6,983.7	124.6	17.9	-89.83	-4,831.4	1,298.0	1,600.8	1,460.8	140.02	11.433	
13,300.0	6,997.9	7,052.4	6,983.8	124.9	17.9	-89.83	-4,831.4	1,298.0	1,611.9	1,471.6	140.27	11.492	
13,385.8	6,997.6	7,052.7	6,984.1	126.6	17.9	-89.85	-4,831.4	1,298.0	1,687.8	1,545.9	141.95	11.890	
13,400.0	6,997.5	7,052.8	6,984.1	126.9	17.9	-89.86	-4,831.4	1,298.0	1,700.5	1,558.2	142.23	11.956	
13,484.2	6,997.3	7,053.1	6,984.4	128.5	17.9	-89.88	-4,831.4	1,298.0	1,776.0	1,632.1	143.88	12.343	
13,500.0	6,997.2	7,053.1	6,984.5	128.8	17.9	-89.88	-4,831.4	1,298.0	1,790.3	1,646.1	144.19	12.416	
13,582.6	6,996.9	7,053.4	6,984.8	130.4	17.9	-89.91	-4,831.4	1,298.0	1,865.2	1,719.4	145.82	12.792	
13,600.0	6,996.9	7,053.5	6,984.8	130.8	17.9	-89.91	-4,831.4	1,298.0	1,881.1	1,734.9	146.16	12.870	
13,681.1	6,996.6	7,053.8	6,985.2	132.4	17.9	-89.93	-4,831.4	1,298.0	1,955.3	1,807.6	147.75	13.234	
13,700.0	6,996.5	7,053.9	6,985.2	132.7	17.9	-89.94	-4,831.4	1,298.0	1,972.8	1,824.6	148.12	13.319	
13,779.5	6,996.3	7,054.2	6,985.5	134.3	17.9	-89.96	-4,831.4	1,298.0	2,046.2	1,896.5	149.68	13.670	
13,800.0	6,996.2	7,054.2	6,985.6	134.7	17.9	-89.97	-4,831.4	1,298.0	2,065.2	1,915.1	150.09	13.760	
13,877.9	6,995.9	7,054.6	6,985.9	136.2	17.9	-89.99	-4,831.4	1,298.1	2,137.8	1,986.1	151.62	14.100	
13,900.0	6,995.9	7,054.6	6,986.0	136.7	17.9	-89.99	-4,831.4	1,298.1	2,158.4	2,006.3	152.05	14.195	
13,976.3	6,995.6	7,054.9	6,986.3	138.2	17.9	-90.02	-4,831.4	1,298.1	2,229.9	2,076.3	153.55	14.522	
14,000.0	6,995.5	7,055.0	6,986.4	138.6	17.9	-90.02	-4,831.4	1,298.1	2,252.1	2,098.1	154.02	14.622	
14,074.8	6,995.3	7,055.3	6,986.7	140.1	17.9	-90.05	-4,831.4	1,298.1	2,322.5	2,167.0	155.49	14.937	
14,100.0	6,995.2	7,055.4	6,986.8	140.6	17.9	-90.05	-4,831.4	1,298.1	2,346.4	2,190.4	155.98	15.042	
14,162.0	6,995.0	7,055.7	6,987.0	141.8	17.9	-90.07	-4,831.4	1,298.1	2,405.0	2,247.9	157.16	15.303	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	171.05	-5,114.8	806.0	5,178.0				
98.4	98.4	134.0	134.0	0.1	0.1	171.05	-5,114.1	805.2	5,177.4	5,177.2	0.18	N/A	
100.0	100.0	134.0	134.0	0.1	0.1	171.05	-5,114.1	805.2	5,177.4	5,177.2	0.18	N/A	
196.8	196.8	187.3	187.3	0.3	0.2	171.06	-5,113.8	804.8	5,176.8	5,176.3	0.51	N/A	
200.0	200.0	188.8	188.8	0.3	0.2	171.06	-5,113.8	804.8	5,176.8	5,176.2	0.52	N/A	
210.2	210.2	193.7	193.7	0.3	0.2	171.06	-5,113.8	804.8	5,176.8	5,176.2	0.55	9,431.157	
295.3	295.3	241.5	241.5	0.5	0.3	171.06	-5,114.0	804.9	5,177.1	5,176.3	0.84	6,180.693	
300.0	300.0	245.4	245.4	0.5	0.3	171.06	-5,114.0	804.9	5,177.1	5,176.3	0.86	6,045.466	
393.7	393.7	316.0	316.0	0.8	0.5	171.05	-5,114.6	805.1	5,178.0	5,176.8	1.22	4,258.977	
400.0	400.0	316.0	316.0	0.8	0.5	171.05	-5,114.6	805.1	5,178.1	5,176.8	1.23	4,210.007	
492.1	492.1	395.7	395.7	1.0	0.6	171.05	-5,115.6	805.9	5,179.3	5,177.7	1.61	3,219.754	
500.0	500.0	401.7	401.7	1.0	0.6	171.05	-5,115.6	806.1	5,179.4	5,177.8	1.64	3,159.914	
590.5	590.5	444.0	444.0	1.2	0.7	171.04	-5,116.2	807.1	5,181.1	5,179.2	1.93	2,679.353	
600.0	600.0	471.7	471.6	1.2	0.8	171.03	-5,116.6	807.9	5,181.2	5,179.2	2.02	2,569.254	
689.0	689.0	527.6	527.5	1.4	0.9	171.00	-5,117.7	810.4	5,183.4	5,181.1	2.34	2,213.728	
700.0	700.0	534.5	534.4	1.4	0.9	171.00	-5,117.8	810.7	5,183.8	5,181.4	2.38	2,176.528	
787.4	787.4	572.0	571.8	1.6	1.0	170.98	-5,118.6	812.9	5,186.6	5,183.9	2.66	1,949.025	
800.0	800.0	596.8	596.5	1.7	1.1	170.96	-5,119.2	814.6	5,187.0	5,184.2	2.75	1,888.227	
885.8	885.8	661.0	660.5	1.9	1.2	170.91	-5,121.0	819.4	5,190.4	5,187.3	3.09	1,680.539	
900.0	900.0	661.0	660.5	1.9	1.2	170.91	-5,121.0	819.4	5,191.0	5,187.9	3.12	1,663.568	
984.2	984.2	725.0	724.2	2.1	1.4	170.85	-5,123.0	825.1	5,194.7	5,191.3	3.46	1,502.555	
1,000.0	1,000.0	725.0	724.2	2.1	1.4	170.85	-5,123.0	825.1	5,195.5	5,192.0	3.49	1,487.544	
1,082.7	1,082.7	800.0	798.7	2.3	1.6	170.76	-5,125.2	833.9	5,199.5	5,195.6	3.86	1,348.172	
1,100.0	1,100.0	811.8	810.3	2.3	1.7	170.74	-5,125.5	835.5	5,200.4	5,196.5	3.92	1,325.450	
1,181.1	1,181.1	1,095.8	1,088.5	2.5	2.7	107.54	-5,125.7	892.0	5,203.6	5,198.4	5.18	1,003.986	
1,200.0	1,200.0	1,239.0	1,225.9	2.6	3.4	107.14	-5,119.0	931.8	5,203.8	5,197.9	5.96	873.370	
1,279.5	1,279.4	1,239.0	1,225.9	2.7	3.4	107.12	-5,119.0	931.8	5,204.9	5,198.8	6.13	849.257	
1,300.0	1,299.8	1,283.7	1,268.3	2.8	3.7	106.99	-5,116.4	945.5	5,205.1	5,198.6	6.43	809.574	
1,377.9	1,377.5	1,316.0	1,299.0	3.0	3.9	106.85	-5,114.8	955.5	5,207.6	5,200.8	6.79	767.061	
1,400.0	1,399.5	1,325.2	1,307.7	3.0	3.9	106.81	-5,114.4	958.3	5,208.5	5,201.6	6.89	755.884	
1,476.4	1,475.3	1,367.0	1,347.4	3.2	4.2	106.64	-5,112.8	971.4	5,212.6	5,205.3	7.31	712.902	
1,500.0	1,498.7	1,367.0	1,347.4	3.2	4.2	106.61	-5,112.8	971.4	5,214.0	5,206.7	7.37	707.604	
1,574.8	1,572.6	1,444.5	1,420.5	3.5	4.7	106.35	-5,109.9	997.1	5,219.3	5,211.2	8.07	646.896	
1,600.0	1,597.5	1,470.5	1,444.8	3.5	4.8	106.26	-5,108.8	1,006.3	5,221.1	5,212.8	8.30	628.774	
1,673.2	1,669.4	1,694.8	1,652.8	3.7	6.4	105.67	-5,094.4	1,088.9	5,224.9	5,214.8	10.08	518.207	
1,700.0	1,695.7	1,715.6	1,672.1	3.8	6.5	105.60	-5,092.9	1,096.4	5,226.4	5,216.1	10.30	507.203	
1,771.6	1,765.7	1,785.0	1,736.6	4.1	7.0	105.46	-5,087.9	1,121.5	5,230.7	5,219.6	11.03	474.254	
1,800.0	1,793.4	1,822.8	1,771.7	4.2	7.3	105.39	-5,085.1	1,135.3	5,232.3	5,220.9	11.40	459.167	
1,870.1	1,862.0	1,916.3	1,858.3	4.4	8.0	105.20	-5,077.8	1,170.0	5,236.2	5,223.9	12.33	424.805	
1,900.0	1,891.3	1,956.6	1,895.5	4.5	8.3	105.12	-5,074.5	1,184.9	5,237.8	5,225.0	12.73	411.340	
1,968.5	1,958.3	2,009.0	1,944.0	4.8	8.7	105.01	-5,070.1	1,204.4	5,241.2	5,227.9	13.38	391.751	
2,000.0	1,989.1	2,042.1	1,974.6	4.9	8.9	104.94	-5,067.4	1,216.6	5,242.9	5,229.1	13.74	381.574	
2,066.9	2,054.5	2,078.3	2,008.1	5.2	9.2	104.87	-5,064.5	1,230.1	5,246.7	5,232.4	14.26	367.850	
2,100.0	2,086.9	2,096.2	2,024.6	5.3	9.3	104.83	-5,063.2	1,236.8	5,248.7	5,234.2	14.52	361.437	
2,165.3	2,150.8	2,138.0	2,063.3	5.6	9.6	104.75	-5,060.3	1,252.5	5,253.1	5,238.0	15.09	348.182	
2,200.0	2,184.7	2,160.5	2,084.0	5.7	9.8	104.70	-5,058.8	1,261.0	5,255.5	5,240.1	15.39	341.567	
2,263.8	2,247.1	2,224.2	2,143.0	5.9	10.3	104.57	-5,054.6	1,284.7	5,260.0	5,243.9	16.10	326.618	
2,300.0	2,282.5	2,260.4	2,176.6	6.1	10.5	104.50	-5,052.3	1,298.1	5,262.5	5,246.0	16.51	318.693	
2,362.2	2,343.4	2,394.0	2,300.5	6.4	11.5	104.24	-5,042.3	1,347.1	5,266.2	5,248.4	17.74	296.860	
2,400.0	2,380.3	2,439.2	2,342.4	6.5	11.8	104.15	-5,038.7	1,363.5	5,268.2	5,250.0	18.21	289.234	
2,460.6	2,439.6	2,479.2	2,379.7	6.8	12.1	104.08	-5,035.7	1,377.6	5,271.7	5,252.9	18.75	281.191	
2,500.0	2,478.1	2,523.0	2,420.7	6.9	12.4	104.01	-5,032.6	1,392.7	5,274.1	5,254.9	19.22	274.391	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	2,547.7	2,443.9	7.2	12.6	103.96	-5,031.0	1,401.2	5,277.9	5,258.3	19.64	268.732	
2,600.0	2,576.0	2,579.1	2,473.3	7.4	12.8	103.91	-5,028.9	1,412.0	5,280.6	5,260.6	20.03	263.629	
2,657.5	2,632.2	2,623.1	2,514.4	7.6	13.1	103.84	-5,026.1	1,427.4	5,284.6	5,264.0	20.58	256.781	
2,700.0	2,673.8	2,780.0	2,660.1	7.8	14.3	103.54	-5,014.3	1,484.3	5,287.4	5,265.5	21.93	241.112	
2,755.9	2,728.4	2,822.3	2,699.2	8.0	14.6	103.45	-5,010.5	1,500.2	5,290.2	5,267.7	22.50	235.160	
2,800.0	2,771.6	2,850.0	2,724.7	8.2	14.8	103.39	-5,008.0	1,510.6	5,292.6	5,269.7	22.90	231.126	
2,854.3	2,824.7	2,884.1	2,756.2	8.4	15.1	103.32	-5,005.1	1,523.5	5,295.7	5,272.3	23.40	226.346	
2,900.0	2,869.4	2,915.5	2,785.0	8.6	15.3	103.25	-5,002.6	1,535.4	5,298.4	5,274.6	23.83	222.303	
2,952.7	2,921.0	2,967.2	2,832.7	8.9	15.7	103.15	-4,998.4	1,555.1	5,301.7	5,277.2	24.46	216.780	
3,000.0	2,967.2	3,013.6	2,875.5	9.1	16.1	103.05	-4,994.6	1,572.7	5,304.6	5,279.6	25.01	212.065	
3,051.2	3,017.3	3,064.2	2,922.1	9.3	16.5	102.94	-4,990.6	1,591.8	5,307.8	5,282.2	25.62	207.202	
3,100.0	3,065.0	3,112.7	2,966.9	9.5	16.8	102.84	-4,986.7	1,610.1	5,310.9	5,284.7	26.19	202.781	
3,149.6	3,113.5	3,162.1	3,012.6	9.7	17.2	102.75	-4,982.8	1,628.5	5,314.0	5,287.2	26.77	198.475	
3,200.0	3,162.8	3,202.2	3,049.7	9.9	17.5	102.67	-4,979.7	1,643.3	5,317.2	5,289.9	27.29	194.848	
3,248.0	3,209.8	3,239.8	3,084.5	10.2	17.8	102.59	-4,976.8	1,657.2	5,320.4	5,292.6	27.78	191.546	
3,300.0	3,260.7	3,293.0	3,133.9	10.4	18.2	102.49	-4,973.0	1,676.7	5,324.0	5,295.6	28.40	187.493	
3,346.4	3,306.1	3,322.5	3,161.3	10.6	18.4	102.44	-4,970.9	1,687.4	5,327.2	5,298.4	28.82	184.850	
3,400.0	3,358.5	3,374.1	3,209.1	10.8	18.8	102.34	-4,967.2	1,706.4	5,331.0	5,301.6	29.44	181.083	
3,444.9	3,402.4	3,417.3	3,249.1	11.0	19.1	102.25	-4,964.1	1,722.3	5,334.2	5,304.2	29.96	178.046	
3,500.0	3,456.3	3,547.9	3,371.0	11.3	20.1	102.03	-4,954.4	1,768.5	5,337.8	5,306.6	31.14	171.416	
3,543.3	3,498.6	3,550.0	3,372.9	11.5	20.1	102.02	-4,954.2	1,769.2	5,340.4	5,309.1	31.34	170.382	
3,600.0	3,554.1	3,550.0	3,372.9	11.7	20.1	102.02	-4,954.2	1,769.2	5,344.4	5,312.8	31.59	169.169	
3,641.7	3,594.9	3,600.3	3,420.1	11.9	20.4	101.94	-4,950.7	1,786.0	5,347.1	5,314.9	32.12	166.485	
3,700.0	3,651.9	3,621.0	3,439.6	12.2	20.6	101.91	-4,949.5	1,793.1	5,351.6	5,319.1	32.51	164.591	
3,740.1	3,691.2	3,635.3	3,453.0	12.3	20.7	101.89	-4,948.8	1,797.9	5,354.9	5,322.1	32.79	163.319	
3,800.0	3,749.7	3,678.0	3,493.1	12.6	21.0	101.82	-4,947.0	1,812.6	5,360.4	5,327.1	33.34	160.770	
3,838.6	3,787.5	3,678.0	3,493.1	12.8	21.0	101.82	-4,947.0	1,812.6	5,364.0	5,330.5	33.51	160.061	
3,900.0	3,847.5	3,854.9	3,658.6	13.0	22.2	101.53	-4,937.6	1,874.3	5,369.3	5,334.2	35.02	153.311	
3,937.0	3,883.7	3,908.6	3,708.9	13.2	22.6	101.45	-4,934.2	1,892.8	5,372.0	5,336.4	35.56	151.075	
4,000.0	3,945.4	4,029.9	3,823.1	13.5	23.4	101.27	-4,926.0	1,932.9	5,376.2	5,339.6	36.64	146.712	
4,035.4	3,980.0	4,064.0	3,855.3	13.7	23.6	101.22	-4,923.5	1,943.8	5,378.4	5,341.3	37.03	145.260	
4,068.9	4,012.7	4,064.0	3,855.3	13.8	23.6	101.22	-4,923.5	1,943.8	5,380.5	5,343.4	37.17	144.740	
4,100.0	4,043.2	4,102.8	3,891.9	13.9	23.9	101.21	-4,920.8	1,956.3	5,382.4	5,344.9	37.56	143.293	
4,133.8	4,076.4	4,118.3	3,906.5	14.0	24.0	101.23	-4,919.7	1,961.5	5,384.6	5,346.8	37.78	142.533	
4,200.0	4,141.6	4,148.6	3,934.9	14.2	24.2	101.26	-4,917.8	1,971.7	5,389.0	5,350.8	38.20	141.082	
4,232.3	4,173.4	4,192.0	3,975.5	14.3	24.5	101.20	-4,915.2	1,987.0	5,391.4	5,352.8	38.59	139.724	
4,300.0	4,240.5	4,195.8	3,979.0	14.5	24.5	101.28	-4,915.0	1,988.3	5,396.0	5,357.2	38.81	139.046	
4,330.7	4,271.0	4,224.4	4,005.7	14.6	24.7	101.25	-4,913.4	1,998.6	5,398.2	5,359.1	39.09	138.088	
4,400.0	4,339.9	4,288.7	4,065.5	14.8	25.2	101.16	-4,909.7	2,021.7	5,402.9	5,363.1	39.73	135.983	
4,429.1	4,368.9	4,315.5	4,090.5	14.8	25.4	101.12	-4,908.2	2,031.5	5,404.8	5,364.8	39.99	135.159	
4,500.0	4,439.6	4,356.0	4,128.2	15.0	25.7	101.08	-4,905.9	2,046.2	5,409.4	5,369.0	40.43	133.798	
4,527.5	4,467.1	4,371.0	4,142.1	15.0	25.8	101.07	-4,905.2	2,051.6	5,411.2	5,370.6	40.58	133.331	
4,600.0	4,539.5	4,410.2	4,178.6	15.1	26.1	101.03	-4,903.3	2,065.8	5,416.1	5,375.1	40.99	132.129	
4,626.0	4,565.4	4,449.0	4,214.8	15.2	26.4	100.92	-4,901.7	2,079.7	5,418.0	5,376.7	41.31	131.164	
4,668.9	4,608.4	4,449.0	4,214.8	15.2	26.4	163.55	-4,901.7	2,079.7	5,420.9	5,379.5	41.36	131.063	
4,700.0	4,639.5	4,471.6	4,235.9	15.3	26.6	163.46	-4,900.9	2,087.9	5,423.0	5,381.5	41.57	130.466	
4,724.4	4,663.9	4,491.4	4,254.3	15.3	26.7	163.39	-4,900.1	2,095.1	5,424.8	5,383.1	41.75	129.945	
4,800.0	4,739.5	4,552.6	4,311.1	15.4	27.2	163.15	-4,897.7	2,117.7	5,430.4	5,388.1	42.30	128.371	
4,822.8	4,762.3	4,577.0	4,333.7	15.4	27.4	163.06	-4,896.8	2,126.8	5,432.2	5,389.6	42.51	127.776	
4,900.0	4,839.5	4,623.7	4,377.0	15.6	27.7	162.88	-4,895.1	2,144.2	5,438.3	5,395.3	42.97	126.574	
4,921.2	4,860.7	4,638.0	4,390.2	15.6	27.8	162.82	-4,894.6	2,149.5	5,440.0	5,396.9	43.10	126.219	
5,000.0	4,939.5	4,903.6	4,639.9	15.7	29.6	161.88	-4,884.5	2,239.6	5,446.1	5,401.2	44.94	121.174	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	4,959.1	4,928.2	4,663.5	15.7	29.8	161.81	-4,883.6	2,246.3	5,447.1	5,402.0	45.11	120.750	
5,100.0	5,039.5	5,017.5	4,750.0	15.9	30.2	161.58	-4,880.9	2,268.4	5,451.2	5,405.5	45.67	119.360	
5,118.1	5,057.6	5,036.4	4,768.3	15.9	30.3	161.54	-4,880.3	2,272.8	5,452.1	5,406.3	45.78	119.086	
5,200.0	5,139.5	5,283.3	5,010.0	16.0	31.3	161.01	-4,872.5	2,322.9	5,455.0	5,408.1	46.89	116.327	
5,216.5	5,156.0	5,304.3	5,030.6	16.0	31.4	160.97	-4,871.7	2,326.5	5,455.4	5,408.4	46.99	116.086	
5,300.0	5,239.5	5,382.7	5,107.9	16.2	31.7	160.83	-4,868.8	2,339.4	5,457.0	5,409.6	47.38	115.179	
5,314.9	5,254.4	5,393.3	5,118.4	16.2	31.7	160.82	-4,868.5	2,341.0	5,457.3	5,409.9	47.43	115.055	
5,400.0	5,339.5	5,453.9	5,178.4	16.3	31.9	160.73	-4,867.2	2,349.2	5,459.4	5,411.6	47.74	114.354	
5,413.4	5,352.8	5,476.0	5,200.3	16.3	32.0	160.71	-4,866.9	2,351.8	5,459.8	5,411.9	47.83	114.157	
5,500.0	5,439.5	5,733.0	5,456.6	16.5	32.4	160.52	-4,863.5	2,369.1	5,460.7	5,412.3	48.41	112.793	
5,511.8	5,451.3	5,733.0	5,456.6	16.5	32.4	160.52	-4,863.5	2,369.1	5,460.7	5,412.2	48.43	112.748	
5,600.0	5,539.5	5,802.9	5,526.5	16.6	32.5	160.50	-4,862.6	2,370.7	5,460.3	5,411.6	48.65	112.243	
5,608.6	5,548.1	5,808.0	5,531.6	16.6	32.5	160.50	-4,862.5	2,370.8	5,460.3	5,411.6	48.67	112.199	
5,610.2	5,549.7	5,808.9	5,532.5	16.6	32.5	160.50	-4,862.5	2,370.9	5,460.3	5,411.6	48.67	112.190	
5,700.0	5,639.5	5,861.0	5,584.6	16.8	32.6	160.49	-4,862.4	2,371.7	5,460.6	5,411.7	48.87	111.738	
5,708.6	5,648.1	5,861.0	5,584.6	16.8	32.6	160.49	-4,862.4	2,371.7	5,460.7	5,411.8	48.88	111.708	
5,800.0	5,739.5	5,942.9	5,666.4	17.0	32.6	160.48	-4,862.7	2,372.9	5,461.4	5,412.3	49.11	111.209	
5,807.1	5,746.5	5,948.5	5,672.1	17.0	32.6	160.48	-4,862.7	2,373.0	5,461.5	5,412.4	49.13	111.172	
5,900.0	5,839.5	6,025.3	5,748.8	17.1	32.7	160.47	-4,863.3	2,374.4	5,462.7	5,413.3	49.35	110.690	
5,905.5	5,845.0	6,030.0	5,753.5	17.1	32.7	160.47	-4,863.3	2,374.4	5,462.7	5,413.4	49.36	110.661	
6,000.0	5,939.5	6,118.0	5,841.6	17.3	32.8	160.46	-4,864.3	2,375.6	5,464.1	5,414.5	49.60	110.160	
6,003.9	5,943.4	6,118.0	5,841.6	17.3	32.8	160.46	-4,864.3	2,375.6	5,464.2	5,414.6	49.61	110.147	
6,100.0	6,039.5	6,225.7	5,949.2	17.4	32.9	160.45	-4,865.5	2,377.1	5,465.6	5,415.8	49.87	109.604	
6,102.3	6,041.8	6,228.4	5,952.0	17.4	32.9	160.45	-4,865.5	2,377.1	5,465.7	5,415.8	49.87	109.591	
6,200.0	6,139.5	6,321.3	6,044.9	17.6	33.0	160.44	-4,866.3	2,378.6	5,467.0	5,416.9	50.12	109.070	
6,200.8	6,140.2	6,322.1	6,045.6	17.6	33.0	160.44	-4,866.3	2,378.6	5,467.0	5,416.9	50.13	109.066	
6,299.2	6,238.7	6,448.5	6,172.0	17.8	33.1	160.43	-4,867.7	2,379.8	5,468.4	5,418.0	50.41	108.484	
6,300.0	6,239.5	6,449.9	6,173.4	17.8	33.1	160.43	-4,867.7	2,379.8	5,468.4	5,418.0	50.41	108.479	
6,360.9	6,300.4	6,528.0	6,251.5	17.9	33.2	160.43	-4,868.0	2,380.4	5,468.7	5,418.2	50.58	108.113	
6,397.6	6,337.1	6,556.9	6,280.4	17.9	33.2	-19.81	-4,868.1	2,380.7	5,468.1	5,417.5	50.63	108.003	
6,400.0	6,339.5	6,558.8	6,282.3	17.9	33.2	-19.81	-4,868.1	2,380.7	5,468.0	5,417.4	50.63	108.005	
6,450.0	6,389.2	6,598.0	6,321.6	18.0	33.3	-19.93	-4,868.4	2,381.0	5,464.2	5,413.8	50.46	108.290	
6,496.0	6,434.7	6,635.0	6,358.5	18.0	33.3	-20.12	-4,868.6	2,381.4	5,457.9	5,407.8	50.11	108.917	
6,500.0	6,438.6	6,639.8	6,363.3	18.0	33.3	-20.15	-4,868.7	2,381.4	5,457.3	5,407.2	50.07	108.983	
6,550.0	6,487.3	6,699.6	6,423.1	18.0	33.3	-20.49	-4,869.2	2,381.8	5,447.1	5,397.6	49.49	110.061	
6,594.5	6,529.8	6,751.8	6,475.3	18.0	33.4	-20.89	-4,869.6	2,381.9	5,435.2	5,386.4	48.80	111.376	
6,600.0	6,535.1	6,758.2	6,481.7	18.1	33.4	-20.95	-4,869.6	2,381.9	5,433.6	5,384.9	48.70	111.562	
6,650.0	6,581.7	6,815.9	6,539.4	18.0	33.5	-21.55	-4,869.9	2,382.1	5,416.9	5,369.2	47.73	113.494	
6,692.9	6,620.6	6,864.0	6,587.5	18.0	33.5	-22.18	-4,870.0	2,382.3	5,400.1	5,353.4	46.75	115.510	
6,700.0	6,626.9	6,871.8	6,595.3	18.0	33.5	-22.30	-4,870.0	2,382.4	5,397.2	5,350.6	46.58	115.875	
6,750.0	6,670.6	6,925.6	6,649.1	18.0	33.6	-23.22	-4,870.0	2,382.8	5,374.4	5,329.1	45.27	118.708	
6,791.3	6,705.4	6,968.3	6,691.8	18.0	33.6	-24.12	-4,869.8	2,383.2	5,353.4	5,309.3	44.10	121.397	
6,800.0	6,712.5	6,977.0	6,700.5	18.0	33.6	-24.33	-4,869.8	2,383.2	5,348.8	5,304.9	43.84	121.998	
6,850.0	6,752.3	7,022.9	6,746.4	18.0	33.6	-25.65	-4,869.6	2,383.6	5,320.4	5,278.1	42.31	125.739	
6,889.7	6,782.5	7,047.9	6,771.3	18.0	33.7	-26.84	-4,869.5	2,383.8	5,296.1	5,255.0	41.05	129.026	
6,900.0	6,790.0	7,054.3	6,777.8	18.0	33.7	-27.17	-4,869.5	2,383.8	5,289.5	5,248.8	40.72	129.904	
6,950.0	6,825.3	7,084.5	6,807.9	18.0	33.7	-28.99	-4,869.4	2,384.1	5,256.4	5,217.2	39.12	134.349	
6,988.2	6,850.5	7,106.0	6,829.5	17.9	33.7	-30.62	-4,869.3	2,384.3	5,229.6	5,191.6	37.95	137.814	
7,000.0	6,858.0	7,112.4	6,835.9	17.9	33.7	-31.16	-4,869.3	2,384.4	5,221.0	5,183.4	37.60	138.867	
7,050.0	6,888.0	7,145.0	6,868.5	18.0	33.8	-33.81	-4,869.2	2,384.8	5,183.7	5,147.5	36.23	143.075	
7,086.6	6,908.1	7,157.2	6,880.7	18.0	33.8	-36.00	-4,869.1	2,385.0	5,155.3	5,119.9	35.38	145.713	
7,100.0	6,915.1	7,164.3	6,887.7	18.0	33.8	-36.90	-4,869.1	2,385.1	5,144.6	5,109.5	35.09	146.605	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,939.2	7,188.6	6,912.1	18.0	33.8	-40.69	-4,869.0	2,385.4	5,103.8	5,069.5	34.32	148.725	
7,185.0	6,954.3	7,203.9	6,927.3	18.1	33.8	-43.79	-4,869.0	2,385.6	5,074.4	5,040.4	34.04	149.078	
7,200.0	6,960.3	7,209.9	6,933.4	18.1	33.8	-45.25	-4,869.0	2,385.6	5,061.7	5,027.7	33.98	148.946	
7,250.0	6,978.1	7,227.9	6,951.4	18.3	33.9	-50.73	-4,869.0	2,385.8	5,018.3	4,984.2	34.13	147.034	
7,283.4	6,988.2	7,238.1	6,961.5	18.4	33.9	-54.97	-4,868.9	2,385.9	4,988.7	4,954.2	34.48	144.681	
7,300.0	6,992.6	7,242.5	6,966.0	18.4	33.9	-57.25	-4,868.9	2,386.0	4,973.9	4,939.2	34.70	143.321	
7,350.0	7,003.7	7,253.8	6,977.3	18.7	33.9	-64.86	-4,868.9	2,386.1	4,928.7	4,893.2	35.52	138.762	
7,381.9	7,009.1	7,259.2	6,982.6	18.9	33.9	-70.26	-4,868.9	2,386.1	4,899.7	4,863.6	36.03	136.002	
7,400.0	7,011.4	7,261.6	6,985.0	19.0	33.9	-73.49	-4,868.9	2,386.2	4,883.0	4,846.8	36.26	134.679	
7,450.0	7,015.7	7,265.8	6,989.3	19.3	33.9	-82.82	-4,868.9	2,386.2	4,837.0	4,800.5	36.56	132.290	
7,480.3	7,016.6	7,266.7	6,990.1	19.6	33.9	-88.62	-4,868.9	2,386.2	4,809.1	4,772.6	36.44	131.979	
7,488.2	7,016.6	7,266.7	6,990.1	19.6	33.9	-90.12	-4,868.9	2,386.2	4,801.8	4,765.4	36.36	132.055	
7,500.0	7,016.6	7,266.6	6,990.1	19.7	33.9	-90.12	-4,868.9	2,386.2	4,790.9	4,754.4	36.48	131.338	
7,578.7	7,016.3	7,266.2	6,989.7	20.5	33.9	-90.11	-4,868.9	2,386.2	4,718.4	4,681.1	37.31	126.479	
7,600.0	7,016.2	7,266.1	6,989.6	20.7	33.9	-90.11	-4,868.9	2,386.2	4,698.9	4,661.4	37.53	125.204	
7,677.1	7,016.0	7,265.8	6,989.3	21.6	33.9	-90.10	-4,868.9	2,386.2	4,628.1	4,589.7	38.44	120.388	
7,700.0	7,015.9	7,265.7	6,989.1	21.8	33.9	-90.09	-4,868.9	2,386.2	4,607.2	4,568.5	38.71	119.007	
7,775.6	7,015.7	7,265.3	6,988.8	22.7	33.9	-90.08	-4,868.9	2,386.2	4,538.1	4,498.4	39.70	114.320	
7,800.0	7,015.6	7,265.2	6,988.7	23.0	33.9	-90.08	-4,868.9	2,386.2	4,515.9	4,475.8	40.01	112.855	
7,874.0	7,015.4	7,264.8	6,988.3	24.0	33.9	-90.07	-4,868.9	2,386.2	4,448.5	4,407.5	41.05	108.371	
7,900.0	7,015.3	7,264.7	6,988.2	24.4	33.9	-90.06	-4,868.9	2,386.2	4,424.9	4,383.5	41.41	106.849	
7,972.4	7,015.1	7,264.4	6,987.8	25.4	33.9	-90.05	-4,868.9	2,386.2	4,359.3	4,316.8	42.48	102.611	
8,000.0	7,015.0	7,264.2	6,987.7	25.8	33.9	-90.05	-4,868.9	2,386.2	4,334.3	4,291.4	42.89	101.055	
8,070.8	7,014.8	7,263.9	6,987.4	26.8	33.9	-90.04	-4,868.9	2,386.2	4,270.4	4,226.4	43.99	97.087	
8,100.0	7,014.7	7,263.8	6,987.2	27.3	33.9	-90.03	-4,868.9	2,386.2	4,244.2	4,199.7	44.44	95.512	
8,169.3	7,014.4	7,263.4	6,986.9	28.3	33.9	-90.02	-4,868.9	2,386.2	4,182.0	4,136.4	45.54	91.821	
8,200.0	7,014.4	7,263.3	6,986.8	28.8	33.9	-90.02	-4,868.9	2,386.2	4,154.5	4,108.4	46.04	90.243	
8,267.7	7,014.1	7,262.9	6,986.4	29.9	33.9	-90.01	-4,868.9	2,386.2	4,094.0	4,046.9	47.15	86.827	
8,300.0	7,014.0	7,262.8	6,986.3	30.4	33.9	-90.01	-4,868.9	2,386.2	4,065.3	4,017.6	47.68	85.255	
8,366.1	7,013.8	7,262.5	6,985.9	31.5	33.9	-90.00	-4,868.9	2,386.2	4,006.6	3,957.8	48.80	82.104	
8,400.0	7,013.7	7,262.3	6,985.8	32.0	33.9	-89.99	-4,868.9	2,386.2	3,976.6	3,927.2	49.37	80.546	
8,464.5	7,013.5	7,262.0	6,985.5	33.1	33.9	-89.98	-4,868.9	2,386.2	3,919.6	3,869.1	50.48	77.647	
8,500.0	7,013.4	7,261.8	6,985.3	33.7	33.9	-89.98	-4,868.9	2,386.2	3,888.4	3,837.3	51.09	76.111	
8,563.0	7,013.2	7,261.5	6,985.0	34.8	33.9	-89.97	-4,868.9	2,386.2	3,833.2	3,781.0	52.19	73.448	
8,600.0	7,013.1	7,261.3	6,984.8	35.4	33.9	-89.96	-4,868.9	2,386.2	3,800.9	3,748.0	52.84	71.937	
8,661.4	7,012.9	7,261.0	6,984.5	36.5	33.9	-89.95	-4,868.9	2,386.1	3,747.4	3,693.5	53.92	69.495	
8,700.0	7,012.8	7,260.8	6,984.3	37.1	33.9	-89.95	-4,868.9	2,386.1	3,713.9	3,659.3	54.61	68.011	
8,759.8	7,012.6	7,260.6	6,984.0	38.2	33.9	-89.94	-4,868.9	2,386.1	3,662.2	3,606.6	55.68	65.774	
8,800.0	7,012.4	7,260.4	6,983.8	38.9	33.9	-89.93	-4,868.9	2,386.1	3,627.7	3,571.3	56.40	64.321	
8,858.2	7,012.3	7,260.1	6,983.5	39.9	33.9	-89.92	-4,868.9	2,386.1	3,577.7	3,520.3	57.45	62.272	
8,900.0	7,012.1	7,259.9	6,983.3	40.7	33.9	-89.92	-4,868.9	2,386.1	3,542.1	3,483.9	58.21	60.852	
8,956.7	7,011.9	7,259.6	6,983.1	41.7	33.9	-89.91	-4,868.9	2,386.1	3,494.0	3,434.7	59.24	58.977	
9,000.0	7,011.8	7,259.4	6,982.8	42.4	33.9	-89.90	-4,868.9	2,386.1	3,457.4	3,397.3	60.03	57.590	
9,055.1	7,011.6	7,259.1	6,982.6	43.4	33.9	-89.89	-4,868.9	2,386.1	3,411.0	3,350.0	61.05	55.875	
9,100.0	7,011.5	7,258.9	6,982.4	44.2	33.9	-89.89	-4,868.9	2,386.1	3,373.4	3,311.6	61.87	54.522	
9,153.5	7,011.3	7,258.6	6,982.1	45.2	33.9	-89.88	-4,868.9	2,386.1	3,328.9	3,266.0	62.86	52.954	
9,200.0	7,011.2	7,258.4	6,981.9	46.1	33.9	-89.87	-4,868.9	2,386.1	3,290.4	3,226.7	63.72	51.636	
9,251.9	7,011.0	7,258.1	6,981.6	47.0	33.9	-89.86	-4,868.9	2,386.1	3,247.6	3,182.9	64.69	50.203	
9,300.0	7,010.9	7,257.9	6,981.4	47.9	33.9	-89.86	-4,868.9	2,386.1	3,208.3	3,142.7	65.58	48.919	
9,350.4	7,010.7	7,257.6	6,981.1	48.8	33.9	-89.85	-4,868.9	2,386.1	3,167.4	3,100.9	66.53	47.611	
9,400.0	7,010.5	7,257.4	6,980.9	49.7	33.9	-89.84	-4,868.9	2,386.1	3,127.3	3,059.9	67.45	46.362	
9,448.8	7,010.4	7,257.1	6,980.6	50.6	33.9	-89.83	-4,868.9	2,386.1	3,088.2	3,019.8	68.37	45.168	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,500.0	7,010.2	7,256.9	6,980.4	51.6	33.9	-89.83	-4,868.9	2,386.1	3,047.4	2,978.1	69.33	43.953	
9,547.2	7,010.1	7,256.6	6,980.1	52.5	33.9	-89.82	-4,868.9	2,386.1	3,010.1	2,939.9	70.22	42.865	
9,600.0	7,009.9	7,256.4	6,979.9	53.5	33.9	-89.81	-4,868.9	2,386.1	2,968.7	2,897.5	71.22	41.685	
9,645.6	7,009.8	7,256.1	6,979.6	54.3	33.9	-89.80	-4,868.9	2,386.1	2,933.3	2,861.2	72.08	40.693	
9,700.0	7,009.6	7,255.9	6,979.4	55.3	33.9	-89.80	-4,868.9	2,386.1	2,891.4	2,818.3	73.11	39.548	
9,744.1	7,009.4	7,255.7	6,979.1	56.2	33.9	-89.79	-4,868.9	2,386.1	2,857.7	2,783.8	73.95	38.645	
9,800.0	7,009.3	7,255.4	6,978.8	57.2	33.9	-89.78	-4,868.9	2,386.1	2,815.5	2,740.4	75.01	37.534	
9,842.5	7,009.1	7,255.2	6,978.6	58.0	33.9	-89.77	-4,868.9	2,386.1	2,783.6	2,707.8	75.82	36.714	
9,900.0	7,008.9	7,254.9	6,978.3	59.1	33.9	-89.76	-4,868.9	2,386.1	2,741.1	2,664.2	76.91	35.638	
9,940.9	7,008.8	7,254.7	6,978.1	59.9	33.9	-89.76	-4,868.9	2,386.1	2,711.1	2,633.4	77.70	34.894	
10,000.0	7,008.6	7,254.4	6,977.8	61.0	33.9	-89.75	-4,868.9	2,386.1	2,668.4	2,589.5	78.82	33.853	
10,039.3	7,008.5	7,254.2	6,977.6	61.7	33.9	-89.74	-4,868.9	2,386.1	2,640.2	2,560.7	79.58	33.179	
10,100.0	7,008.3	7,253.8	6,977.3	62.9	33.9	-89.73	-4,868.9	2,386.1	2,597.5	2,516.7	80.74	32.172	
10,137.8	7,008.2	7,253.6	6,977.1	63.6	33.9	-89.73	-4,868.9	2,386.1	2,571.2	2,489.7	81.46	31.564	
10,200.0	7,008.0	7,253.3	6,976.8	64.8	33.9	-89.72	-4,868.9	2,386.1	2,528.5	2,445.9	82.65	30.592	
10,236.2	7,007.9	7,253.1	6,976.6	65.5	33.9	-89.71	-4,868.9	2,386.1	2,504.1	2,420.8	83.35	30.044	
10,300.0	7,007.6	7,252.8	6,976.3	66.7	33.9	-89.70	-4,868.9	2,386.1	2,461.7	2,377.2	84.57	29.108	
10,334.6	7,007.5	7,252.6	6,976.1	67.3	33.9	-89.70	-4,868.9	2,386.1	2,439.1	2,353.9	85.24	28.615	
10,400.0	7,007.3	7,252.3	6,975.8	68.6	33.9	-89.69	-4,868.9	2,386.1	2,397.3	2,310.8	86.50	27.715	
10,433.0	7,007.2	7,252.1	6,975.6	69.2	33.9	-89.68	-4,868.9	2,386.1	2,376.5	2,289.4	87.14	27.274	
10,500.0	7,007.0	7,251.8	6,975.3	70.5	33.9	-89.67	-4,868.9	2,386.1	2,335.3	2,246.9	88.43	26.410	
10,531.5	7,006.9	7,251.6	6,975.1	71.1	33.9	-89.67	-4,868.9	2,386.1	2,316.3	2,227.3	89.03	26.016	
10,600.0	7,006.7	7,251.3	6,974.7	72.4	33.9	-89.65	-4,868.9	2,386.1	2,276.0	2,185.7	90.36	25.189	
10,629.9	7,006.6	7,251.1	6,974.6	73.0	33.9	-89.65	-4,868.9	2,386.1	2,258.8	2,167.9	90.93	24.840	
10,700.0	7,006.4	7,250.7	6,974.2	74.3	33.9	-89.64	-4,868.9	2,386.1	2,219.7	2,127.4	92.29	24.051	
10,728.3	7,006.3	7,250.6	6,974.1	74.9	33.9	-89.63	-4,868.9	2,386.1	2,204.3	2,111.4	92.84	23.743	
10,800.0	7,006.0	7,250.2	6,973.7	76.3	33.9	-89.62	-4,868.9	2,386.0	2,166.5	2,072.2	94.22	22.993	
10,826.7	7,005.9	7,250.1	6,973.6	76.8	33.9	-89.62	-4,868.9	2,386.0	2,152.8	2,058.1	94.74	22.723	
10,900.0	7,005.7	7,249.7	6,973.2	78.2	33.9	-89.61	-4,868.9	2,386.0	2,116.7	2,020.5	96.16	22.011	
10,925.2	7,005.6	7,249.6	6,973.0	78.7	33.9	-89.60	-4,868.9	2,386.0	2,104.7	2,008.0	96.65	21.776	
11,000.0	7,005.4	7,249.2	6,972.7	80.1	33.9	-89.59	-4,868.9	2,386.0	2,070.5	1,972.4	98.10	21.106	
11,023.6	7,005.3	7,249.1	6,972.5	80.6	33.9	-89.59	-4,868.9	2,386.0	2,060.1	1,961.6	98.56	20.903	
11,100.0	7,005.1	7,248.6	6,972.1	82.0	33.9	-89.57	-4,868.9	2,386.0	2,028.2	1,928.2	100.04	20.273	
11,122.0	7,005.0	7,248.5	6,972.0	82.5	33.9	-89.57	-4,868.9	2,386.0	2,019.4	1,919.0	100.47	20.100	
11,200.0	7,004.7	7,248.1	6,971.6	84.0	33.9	-89.56	-4,868.9	2,386.0	1,990.0	1,888.0	101.99	19.513	
11,220.4	7,004.7	7,248.0	6,971.5	84.4	33.9	-89.55	-4,868.9	2,386.0	1,982.8	1,880.4	102.38	19.366	
11,300.0	7,004.4	7,247.6	6,971.1	85.9	33.9	-89.54	-4,868.9	2,386.0	1,956.2	1,852.3	103.93	18.823	
11,318.9	7,004.4	7,247.5	6,971.0	86.3	33.9	-89.54	-4,868.9	2,386.0	1,950.4	1,846.1	104.30	18.700	
11,400.0	7,004.1	7,247.1	6,970.5	87.8	33.9	-89.53	-4,868.9	2,386.0	1,927.1	1,821.2	105.88	18.201	
11,417.3	7,004.0	7,247.0	6,970.4	88.2	33.9	-89.52	-4,868.9	2,386.0	1,922.5	1,816.3	106.21	18.100	
11,500.0	7,003.8	7,246.5	6,970.0	89.8	33.9	-89.51	-4,868.9	2,386.0	1,902.7	1,794.9	107.82	17.646	
11,515.7	7,003.7	7,246.4	6,969.9	90.1	33.9	-89.51	-4,868.9	2,386.0	1,899.3	1,791.2	108.13	17.565	
11,600.0	7,003.4	7,246.0	6,969.5	91.7	33.9	-89.49	-4,868.9	2,386.0	1,883.3	1,773.5	109.77	17.156	
11,614.1	7,003.4	7,245.9	6,969.4	92.0	33.9	-89.49	-4,868.9	2,386.0	1,881.0	1,770.9	110.05	17.092	
11,700.0	7,003.1	7,245.5	6,968.9	93.7	33.9	-89.48	-4,868.9	2,386.0	1,869.1	1,757.4	111.72	16.730	
11,712.6	7,003.1	7,245.4	6,968.9	93.9	33.9	-89.47	-4,868.9	2,386.0	1,867.7	1,755.7	111.97	16.680	
11,800.0	7,002.8	7,244.9	6,968.4	95.6	33.9	-89.46	-4,868.9	2,386.0	1,860.2	1,746.5	113.68	16.364	
11,811.0	7,002.7	7,244.9	6,968.3	95.8	33.9	-89.46	-4,868.9	2,386.0	1,859.5	1,745.6	113.89	16.327	
11,900.0	7,002.5	7,244.4	6,967.9	97.6	33.9	-89.44	-4,868.9	2,386.0	1,856.6	1,740.9	115.63	16.056	
11,909.4	7,002.4	7,244.3	6,967.8	97.7	33.9	-89.44	-4,868.9	2,386.0	1,856.5	1,740.7	115.81	16.030	
11,916.7	7,002.4	7,244.3	6,967.8	97.9	33.9	-89.44	-4,868.9	2,386.0	1,856.5	1,740.5	115.96	16.010 CC, ES	
12,000.0	7,002.1	7,243.8	6,967.3	99.5	33.9	-89.43	-4,868.9	2,386.0	1,858.4	1,740.8	117.58	15.805	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,007.8	7,002.1	7,243.8	6,967.3	99.7	33.9	-89.42	-4,868.9	2,386.0	1,858.7	1,741.0	117.74	15.787	
12,100.0	7,001.8	7,243.3	6,966.8	101.5	33.9	-89.41	-4,868.9	2,386.0	1,865.5	1,746.0	119.54	15.606	
12,106.3	7,001.8	7,243.3	6,966.7	101.6	33.9	-89.41	-4,868.9	2,386.0	1,866.2	1,746.5	119.66	15.595	
12,200.0	7,001.5	7,242.7	6,966.2	103.4	33.9	-89.39	-4,868.9	2,386.0	1,878.0	1,756.5	121.49	15.458	
12,204.7	7,001.5	7,242.7	6,966.2	103.5	33.9	-89.39	-4,868.9	2,386.0	1,878.7	1,757.1	121.59	15.452	
12,300.0	7,001.2	7,242.2	6,965.7	105.3	33.9	-89.38	-4,868.9	2,386.0	1,895.7	1,772.2	123.45	15.356	
12,303.1	7,001.1	7,242.2	6,965.7	105.4	33.9	-89.38	-4,868.9	2,386.0	1,896.3	1,772.8	123.51	15.353	
12,400.0	7,000.8	7,241.6	6,965.1	107.3	33.9	-89.36	-4,868.9	2,386.0	1,918.4	1,793.0	125.41	15.297	
12,401.5	7,000.8	7,241.6	6,965.1	107.3	33.9	-89.36	-4,868.9	2,386.0	1,918.8	1,793.3	125.44	15.297	
12,500.0	7,000.5	7,241.1	6,964.6	109.3	33.9	-89.34	-4,868.9	2,386.0	1,946.0	1,818.6	127.37	15.279 SF	
12,598.4	7,000.2	7,240.6	6,964.0	111.2	33.9	-89.32	-4,868.9	2,386.0	1,977.7	1,848.4	129.29	15.296	
12,600.0	7,000.2	7,240.5	6,964.0	111.2	33.9	-89.32	-4,868.9	2,386.0	1,978.2	1,848.9	129.32	15.297	
12,696.8	6,999.8	7,240.0	6,963.5	113.1	33.9	-89.31	-4,868.9	2,385.9	2,013.7	1,882.5	131.22	15.346	
12,700.0	6,999.8	7,240.0	6,963.5	113.2	33.9	-89.31	-4,868.9	2,385.9	2,015.0	1,883.7	131.28	15.348	
12,795.2	6,999.5	7,239.5	6,962.9	115.0	33.9	-89.29	-4,868.9	2,385.9	2,053.9	1,920.7	133.15	15.425	
12,800.0	6,999.5	7,239.4	6,962.9	115.1	33.9	-89.29	-4,868.9	2,385.9	2,055.9	1,922.7	133.24	15.430	
12,893.7	6,999.2	7,238.9	6,962.4	116.9	33.9	-89.27	-4,868.9	2,385.9	2,097.9	1,962.8	135.08	15.530	
12,900.0	6,999.2	7,238.9	6,962.4	117.1	33.9	-89.27	-4,868.9	2,385.9	2,100.8	1,965.6	135.21	15.538	
12,992.1	6,998.9	7,238.4	6,961.8	118.9	33.9	-89.26	-4,868.9	2,385.9	2,145.5	2,008.5	137.01	15.659	
13,000.0	6,998.8	7,238.3	6,961.8	119.0	33.9	-89.26	-4,868.9	2,385.9	2,149.4	2,012.3	137.17	15.670	
13,090.5	6,998.6	7,237.8	6,961.3	120.8	33.9	-89.24	-4,868.9	2,385.9	2,196.4	2,057.5	138.94	15.808	
13,100.0	6,998.5	7,237.8	6,961.2	121.0	33.9	-89.24	-4,868.9	2,385.9	2,201.5	2,062.4	139.13	15.824	
13,188.9	6,998.2	7,237.3	6,960.7	122.7	33.9	-89.22	-4,868.9	2,385.9	2,250.6	2,109.7	140.88	15.976	
13,200.0	6,998.2	7,237.2	6,960.7	122.9	33.9	-89.22	-4,868.9	2,385.9	2,256.8	2,115.8	141.09	15.996	
13,287.4	6,997.9	7,236.7	6,960.2	124.6	33.9	-89.21	-4,868.9	2,385.9	2,307.6	2,164.8	142.81	16.159	
13,300.0	6,997.9	7,236.6	6,960.1	124.9	33.9	-89.20	-4,868.9	2,385.9	2,315.2	2,172.1	143.06	16.184	
13,385.8	6,997.6	7,236.1	6,959.6	126.6	33.9	-89.19	-4,868.9	2,385.9	2,367.4	2,222.7	144.74	16.356	
13,400.0	6,997.5	7,236.1	6,959.5	126.9	33.9	-89.19	-4,868.9	2,385.9	2,376.3	2,231.2	145.02	16.386	
13,484.2	6,997.3	7,235.6	6,959.1	128.5	33.9	-89.17	-4,868.9	2,385.9	2,429.7	2,283.1	146.67	16.566	
13,500.0	6,997.2	7,235.5	6,959.0	128.8	33.9	-89.17	-4,868.9	2,385.9	2,439.9	2,293.0	146.98	16.600	
13,582.6	6,996.9	7,235.0	6,958.5	130.4	33.9	-89.15	-4,868.9	2,385.9	2,494.4	2,345.8	148.61	16.785	
13,600.0	6,996.9	7,234.9	6,958.4	130.8	33.9	-89.15	-4,869.0	2,385.9	2,506.0	2,357.0	148.95	16.825	
13,681.1	6,996.6	7,234.5	6,957.9	132.4	33.9	-89.14	-4,869.0	2,385.9	2,561.1	2,410.6	150.54	17.013	
13,700.0	6,996.5	7,234.4	6,957.8	132.7	33.9	-89.13	-4,869.0	2,385.9	2,574.2	2,423.3	150.91	17.058	
13,779.5	6,996.3	7,233.9	6,957.4	134.3	33.9	-89.12	-4,869.0	2,385.9	2,629.9	2,477.4	152.47	17.248	
13,800.0	6,996.2	7,233.8	6,957.3	134.7	33.9	-89.11	-4,869.0	2,385.9	2,644.5	2,491.6	152.88	17.298	
13,877.9	6,995.9	7,233.3	6,956.8	136.2	33.9	-89.10	-4,869.0	2,385.9	2,700.5	2,546.1	154.41	17.489	
13,900.0	6,995.9	7,233.2	6,956.7	136.7	33.9	-89.10	-4,869.0	2,385.9	2,716.6	2,561.7	154.84	17.544	
13,976.3	6,995.6	7,232.8	6,956.2	138.2	33.9	-89.08	-4,869.0	2,385.9	2,772.8	2,616.5	156.34	17.735	
14,000.0	6,995.5	7,232.6	6,956.1	138.6	33.9	-89.08	-4,869.0	2,385.9	2,790.4	2,633.6	156.81	17.795	
14,074.8	6,995.3	7,232.2	6,955.7	140.1	33.9	-89.06	-4,869.0	2,385.9	2,846.7	2,688.4	158.28	17.985	
14,100.0	6,995.2	7,232.0	6,955.5	140.6	33.9	-89.06	-4,869.0	2,385.9	2,865.9	2,707.1	158.78	18.050	
14,162.0	6,995.0	7,231.7	6,955.2	141.8	33.9	-89.05	-4,869.0	2,385.9	2,913.4	2,753.4	159.96	18.214	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	171.78	-5,114.8	739.0	5,168.0				
98.4	98.4	77.9	77.9	0.1	0.1	171.78	-5,114.9	739.0	5,168.0	5,167.8	0.18	N/A	
100.0	100.0	79.4	79.4	0.1	0.1	171.78	-5,114.9	739.0	5,168.0	5,167.8	0.18	N/A	
196.8	196.8	171.4	171.4	0.3	0.2	171.78	-5,115.0	738.7	5,168.1	5,167.6	0.49	N/A	
200.0	200.0	174.4	174.4	0.3	0.2	171.78	-5,115.0	738.7	5,168.1	5,167.6	0.50	N/A	
295.3	295.3	265.0	265.0	0.5	0.3	171.79	-5,115.3	738.3	5,168.3	5,167.5	0.81	6,373.558	
300.0	300.0	269.5	269.5	0.5	0.3	171.79	-5,115.3	738.3	5,168.3	5,167.5	0.83	6,255.717	
393.7	393.7	358.5	358.5	0.8	0.4	171.79	-5,115.7	737.7	5,168.6	5,167.5	1.13	4,577.509	
400.0	400.0	364.5	364.5	0.8	0.4	171.79	-5,115.7	737.7	5,168.7	5,167.5	1.15	4,496.414	
492.1	492.1	452.1	452.1	1.0	0.5	171.80	-5,116.2	737.0	5,169.0	5,167.6	1.45	3,571.332	
500.0	500.0	459.6	459.5	1.0	0.5	171.80	-5,116.2	736.9	5,169.1	5,167.6	1.47	3,509.617	
590.5	590.5	545.6	545.6	1.2	0.6	171.81	-5,116.8	736.0	5,169.5	5,167.8	1.77	2,927.922	
600.0	600.0	554.6	554.6	1.2	0.6	171.82	-5,116.9	735.9	5,169.6	5,167.8	1.80	2,878.145	
689.0	689.0	639.1	639.1	1.4	0.7	171.83	-5,117.5	734.9	5,170.1	5,168.0	2.08	2,481.077	
700.0	700.0	649.6	649.6	1.4	0.7	171.83	-5,117.6	734.8	5,170.2	5,168.1	2.12	2,439.384	
787.4	787.4	726.0	726.0	1.6	0.8	171.84	-5,118.3	733.7	5,170.8	5,168.4	2.40	2,158.890	
800.0	800.0	726.0	726.0	1.7	0.8	171.84	-5,118.3	733.7	5,170.9	5,168.5	2.42	2,133.712	
885.8	885.8	794.4	794.3	1.9	0.9	171.85	-5,119.1	733.3	5,171.9	5,169.2	2.76	1,876.517	
900.0	900.0	803.6	803.5	1.9	0.9	171.85	-5,119.3	733.3	5,172.1	5,169.3	2.81	1,842.730	
984.2	984.2	854.0	853.9	2.1	1.0	171.84	-5,120.1	733.8	5,173.7	5,170.6	3.10	1,669.312	
1,000.0	1,000.0	854.0	853.9	2.1	1.0	171.84	-5,120.1	733.8	5,174.0	5,170.9	3.13	1,650.578	
1,082.7	1,082.7	904.6	904.5	2.3	1.1	171.83	-5,121.2	735.1	5,176.3	5,172.8	3.42	1,512.219	
1,100.0	1,100.0	912.9	912.8	2.3	1.1	171.83	-5,121.5	735.4	5,176.8	5,173.3	3.48	1,488.098	
1,181.1	1,181.1	983.0	982.8	2.5	1.3	109.17	-5,123.8	739.1	5,180.4	5,176.6	3.78	1,368.712	
1,200.0	1,200.0	983.0	982.8	2.6	1.3	109.16	-5,123.8	739.1	5,181.3	5,177.5	3.83	1,354.105	
1,279.5	1,279.4	983.0	982.8	2.7	1.3	109.06	-5,123.8	739.1	5,186.2	5,182.2	4.00	1,296.809	
1,300.0	1,299.8	983.0	982.8	2.8	1.3	109.03	-5,123.8	739.1	5,187.8	5,183.8	4.04	1,282.942	
1,377.9	1,377.5	1,041.1	1,040.7	3.0	1.4	108.91	-5,126.4	743.3	5,194.3	5,190.0	4.35	1,194.129	
1,400.0	1,399.5	1,050.8	1,050.3	3.0	1.4	108.88	-5,126.9	744.1	5,196.4	5,192.0	4.42	1,175.216	
1,476.4	1,475.3	1,111.0	1,110.2	3.2	1.6	108.75	-5,130.5	749.4	5,204.7	5,200.0	4.74	1,097.617	
1,500.0	1,498.7	1,111.0	1,110.2	3.2	1.6	108.70	-5,130.5	749.4	5,207.4	5,202.6	4.80	1,084.910	
1,574.8	1,572.6	1,111.0	1,110.2	3.5	1.6	108.51	-5,130.5	749.4	5,217.0	5,212.0	5.00	1,043.065	
1,600.0	1,597.5	1,111.0	1,110.2	3.5	1.6	108.44	-5,130.5	749.4	5,220.6	5,215.5	5.07	1,029.736	
1,673.2	1,669.4	1,158.9	1,157.7	3.7	1.7	108.28	-5,134.0	754.2	5,231.5	5,226.1	5.41	966.215	
1,700.0	1,695.7	1,168.4	1,167.1	3.8	1.7	108.20	-5,134.7	755.2	5,235.9	5,230.4	5.52	948.499	
1,771.6	1,765.7	1,193.6	1,192.1	4.1	1.8	108.23	-5,136.9	758.1	5,248.0	5,242.2	5.82	901.343	
1,800.0	1,793.4	1,240.0	1,237.9	4.2	1.9	108.28	-5,141.5	763.8	5,253.4	5,247.3	6.03	870.670	
1,870.1	1,862.0	1,240.0	1,237.9	4.4	1.9	108.28	-5,141.5	763.8	5,265.8	5,259.5	6.28	838.398	
1,900.0	1,891.3	1,240.0	1,237.9	4.5	1.9	108.28	-5,141.5	763.8	5,271.3	5,265.0	6.39	825.447	
1,968.5	1,958.3	1,276.8	1,274.1	4.8	2.1	108.31	-5,145.4	768.8	5,284.5	5,277.8	6.74	783.797	
2,000.0	1,989.1	1,294.7	1,291.7	4.9	2.1	108.32	-5,147.4	771.4	5,290.7	5,283.8	6.91	765.757	
2,066.9	2,054.5	1,332.7	1,329.0	5.2	2.3	108.35	-5,151.6	777.3	5,304.0	5,296.8	7.27	729.571	
2,100.0	2,086.9	1,368.0	1,363.6	5.3	2.4	108.37	-5,155.6	783.1	5,310.8	5,303.3	7.50	708.563	
2,165.3	2,150.8	1,368.0	1,363.6	5.6	2.4	108.37	-5,155.6	783.1	5,324.4	5,316.6	7.75	687.142	
2,200.0	2,184.7	1,368.0	1,363.6	5.7	2.4	108.37	-5,155.6	783.1	5,331.9	5,324.0	7.88	676.368	
2,263.8	2,247.1	1,422.9	1,417.2	5.9	2.6	108.39	-5,162.4	793.0	5,345.6	5,337.2	8.32	642.718	
2,300.0	2,282.5	1,437.6	1,431.5	6.1	2.7	108.39	-5,164.3	795.8	5,353.6	5,345.1	8.51	629.168	
2,362.2	2,343.4	1,496.0	1,488.2	6.4	2.9	108.41	-5,172.3	807.4	5,368.1	5,359.1	8.95	599.725	
2,400.0	2,380.3	1,496.0	1,488.2	6.5	2.9	108.41	-5,172.3	807.4	5,376.7	5,367.6	9.10	590.671	
2,460.6	2,439.6	1,496.0	1,488.2	6.8	2.9	108.41	-5,172.3	807.4	5,391.1	5,381.7	9.35	576.641	
2,500.0	2,478.1	1,496.0	1,488.2	6.9	2.9	108.41	-5,172.3	807.4	5,400.7	5,391.2	9.51	567.949	
2,559.0	2,535.9	1,540.7	1,531.4	7.2	3.1	108.41	-5,179.1	816.8	5,415.3	5,405.4	9.92	545.740	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	1,556.6	1,546.6	7.4	3.2	108.41	-5,181.6	820.2	5,425.7	5,415.5	10.15	534.462	
2,657.5	2,632.2	1,578.8	1,568.0	7.6	3.3	108.41	-5,185.2	825.0	5,440.6	5,430.1	10.47	519.413	
2,700.0	2,673.8	1,625.0	1,612.4	7.8	3.6	108.41	-5,193.1	835.3	5,452.0	5,441.2	10.83	503.577	
2,755.9	2,728.4	1,625.0	1,612.4	8.0	3.6	108.41	-5,193.1	835.3	5,466.8	5,455.8	11.06	494.302	
2,800.0	2,771.6	1,625.0	1,612.4	8.2	3.6	108.41	-5,193.1	835.3	5,478.9	5,467.7	11.24	487.287	
2,854.3	2,824.7	1,663.6	1,649.3	8.4	3.8	108.41	-5,200.0	844.2	5,494.0	5,482.4	11.63	472.215	
2,900.0	2,869.4	1,686.6	1,671.2	8.6	3.9	108.40	-5,204.2	849.6	5,506.9	5,494.9	11.92	461.873	
2,952.7	2,921.0	1,713.0	1,696.4	8.9	4.1	108.40	-5,209.2	855.9	5,521.9	5,509.7	12.26	450.526	
3,000.0	2,967.2	1,753.0	1,734.4	9.1	4.3	108.39	-5,216.8	865.7	5,535.7	5,523.1	12.62	438.505	
3,051.2	3,017.3	1,753.0	1,734.4	9.3	4.3	108.39	-5,216.8	865.7	5,550.7	5,537.8	12.84	432.267	
3,100.0	3,065.0	1,789.7	1,769.1	9.5	4.6	108.38	-5,224.0	875.0	5,565.2	5,552.0	13.22	421.024	
3,149.6	3,113.5	1,816.6	1,794.6	9.7	4.7	108.37	-5,229.4	882.1	5,580.1	5,566.5	13.56	411.648	
3,200.0	3,162.8	1,843.9	1,820.3	9.9	4.9	108.35	-5,234.9	889.5	5,595.4	5,581.5	13.90	402.600	
3,248.0	3,209.8	1,882.0	1,856.0	10.2	5.2	108.33	-5,242.7	900.1	5,610.2	5,595.9	14.28	392.863	
3,300.0	3,260.7	1,882.0	1,856.0	10.4	5.2	108.33	-5,242.7	900.1	5,626.4	5,611.9	14.50	387.967	
3,346.4	3,306.1	1,916.1	1,887.9	10.6	5.4	108.31	-5,249.8	909.8	5,641.0	5,626.2	14.88	379.143	
3,400.0	3,358.5	1,940.1	1,910.3	10.8	5.6	108.29	-5,254.9	916.8	5,658.1	5,642.9	15.23	371.468	
3,444.9	3,402.4	1,960.1	1,928.9	11.0	5.7	108.28	-5,259.2	922.6	5,672.7	5,657.1	15.53	365.319	
3,500.0	3,456.3	2,010.0	1,975.2	11.3	6.1	108.24	-5,270.4	937.5	5,690.9	5,674.8	16.02	355.181	
3,543.3	3,498.6	2,010.0	1,975.2	11.5	6.1	108.24	-5,270.4	937.5	5,705.1	5,688.9	16.21	351.977	
3,600.0	3,554.1	2,010.0	1,975.2	11.7	6.1	108.24	-5,270.4	937.5	5,724.2	5,707.8	16.45	347.917	
3,641.7	3,594.9	2,058.1	2,019.7	11.9	6.5	108.20	-5,281.4	952.3	5,738.3	5,721.4	16.91	339.421	
3,700.0	3,651.9	2,091.3	2,050.2	12.2	6.7	108.17	-5,289.1	962.9	5,758.2	5,740.9	17.35	331.975	
3,740.1	3,691.2	2,138.0	2,092.9	12.3	7.1	108.11	-5,300.0	978.3	5,772.2	5,754.4	17.78	324.594	
3,800.0	3,749.7	2,138.0	2,092.9	12.6	7.1	108.11	-5,300.0	978.3	5,792.9	5,774.9	18.04	321.089	
3,838.6	3,787.5	2,138.0	2,092.9	12.8	7.1	108.11	-5,300.0	978.3	5,806.6	5,788.4	18.21	318.894	
3,900.0	3,847.5	2,185.6	2,136.2	13.0	7.5	108.06	-5,311.4	994.6	5,828.4	5,809.6	18.77	310.438	
3,937.0	3,883.7	2,200.5	2,149.7	13.2	7.6	108.04	-5,315.0	999.8	5,841.7	5,822.7	19.03	306.992	
4,000.0	3,945.4	2,225.8	2,172.4	13.5	7.9	108.00	-5,321.3	1,008.7	5,864.7	5,845.2	19.46	301.359	
4,035.4	3,980.0	2,267.0	2,209.4	13.7	8.2	107.95	-5,331.7	1,023.6	5,877.9	5,858.0	19.87	295.771	
4,068.9	4,012.7	2,267.0	2,209.4	13.8	8.2	107.95	-5,331.7	1,023.6	5,890.2	5,870.2	20.02	294.239	
4,100.0	4,043.2	2,267.0	2,209.4	13.9	8.2	108.18	-5,331.7	1,023.6	5,901.8	5,881.6	20.15	292.946	
4,133.8	4,076.4	2,267.0	2,209.4	14.0	8.2	108.44	-5,331.7	1,023.6	5,914.4	5,894.1	20.26	291.922	
4,200.0	4,141.6	2,267.0	2,209.4	14.2	8.2	108.95	-5,331.7	1,023.6	5,939.2	5,918.7	20.48	289.981	
4,232.3	4,173.4	2,267.0	2,209.4	14.3	8.2	109.20	-5,331.7	1,023.6	5,951.4	5,930.8	20.58	289.216	
4,300.0	4,240.5	2,329.1	2,264.7	14.5	8.8	109.58	-5,348.2	1,046.6	5,976.1	5,954.9	21.21	281.823	
4,330.7	4,271.0	2,338.7	2,273.2	14.6	8.9	109.79	-5,350.9	1,050.1	5,987.5	5,966.2	21.35	280.412	
4,400.0	4,339.9	2,395.0	2,322.9	14.8	9.4	110.16	-5,367.0	1,071.2	6,013.5	5,991.5	21.93	274.273	
4,429.1	4,368.9	2,395.0	2,322.9	14.8	9.4	110.37	-5,367.0	1,071.2	6,024.1	6,002.1	21.99	273.920	
4,500.0	4,439.6	2,395.0	2,322.9	15.0	9.4	110.90	-5,367.0	1,071.2	6,050.0	6,027.9	22.15	273.099	
4,527.5	4,467.1	2,408.6	2,334.8	15.0	9.6	111.06	-5,370.9	1,076.3	6,060.2	6,037.9	22.30	271.743	
4,600.0	4,539.5	2,479.1	2,396.7	15.1	10.2	111.36	-5,391.6	1,103.0	6,086.4	6,063.4	22.93	265.379	
4,626.0	4,565.4	2,504.2	2,418.8	15.2	10.5	111.46	-5,398.9	1,112.7	6,095.6	6,072.5	23.15	263.270	
4,668.9	4,608.4	2,553.7	2,462.2	15.2	10.9	174.15	-5,413.2	1,131.7	6,110.7	6,087.2	23.56	259.389	
4,700.0	4,639.5	2,594.9	2,498.2	15.3	11.3	174.01	-5,425.0	1,147.6	6,121.5	6,097.7	23.88	256.332	
4,724.4	4,663.9	2,627.2	2,526.6	15.3	11.6	173.89	-5,434.2	1,160.1	6,130.0	6,105.9	24.14	253.960	
4,800.0	4,739.5	2,744.5	2,629.5	15.4	12.7	173.48	-5,467.0	1,205.7	6,156.0	6,130.9	25.04	245.869	
4,822.8	4,762.3	2,780.0	2,660.8	15.4	13.0	173.35	-5,476.8	1,219.5	6,163.7	6,138.4	25.31	243.544	
4,900.0	4,839.5	2,816.5	2,692.8	15.6	13.3	173.23	-5,486.8	1,233.8	6,190.0	6,164.3	25.68	240.999	
4,921.2	4,860.7	2,826.4	2,701.5	15.6	13.4	173.19	-5,489.5	1,237.7	6,197.4	6,171.6	25.79	240.324	
5,000.0	4,939.5	2,862.9	2,733.5	15.7	13.8	173.06	-5,499.8	1,252.1	6,224.8	6,198.6	26.17	237.892	
5,019.7	4,959.1	2,872.0	2,741.4	15.7	13.9	173.03	-5,502.4	1,255.7	6,231.7	6,205.5	26.26	237.299	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,100.0	5,039.5	2,909.1	2,773.8	15.9	14.2	172.90	-5,513.0	1,270.3	6,260.4	6,233.7	26.65	234.943	
5,118.1	5,057.6	2,927.7	2,790.0	15.9	14.4	172.84	-5,518.3	1,277.8	6,266.9	6,240.1	26.82	233.697	
5,200.0	5,139.5	3,011.7	2,862.9	16.0	15.3	172.53	-5,542.2	1,311.8	6,296.3	6,268.7	27.58	228.313	
5,216.5	5,156.0	3,028.5	2,877.5	16.0	15.4	172.47	-5,547.0	1,318.8	6,302.2	6,274.5	27.73	227.273	
5,300.0	5,239.5	3,082.4	2,924.1	16.2	16.0	172.28	-5,562.2	1,341.3	6,332.3	6,304.0	28.28	223.906	
5,314.9	5,254.4	3,091.4	2,931.9	16.2	16.1	172.24	-5,564.7	1,345.1	6,337.8	6,309.4	28.38	223.354	
5,400.0	5,339.5	3,142.5	2,975.9	16.3	16.7	172.06	-5,579.2	1,366.6	6,368.9	6,340.0	28.91	220.310	
5,413.4	5,352.8	3,166.0	2,996.0	16.3	16.9	171.97	-5,585.9	1,376.5	6,373.9	6,344.7	29.11	218.941	
5,500.0	5,439.5	3,277.4	3,092.3	16.5	18.0	171.57	-5,617.6	1,422.8	6,405.7	6,375.7	30.06	213.103	
5,511.8	5,451.3	3,298.8	3,110.9	16.5	18.3	171.50	-5,623.7	1,431.4	6,410.0	6,379.8	30.23	212.036	
5,600.0	5,539.5	3,576.1	3,354.6	16.6	20.8	170.59	-5,699.1	1,539.8	6,441.3	6,409.1	32.17	200.249	
5,610.2	5,549.7	3,586.7	3,364.2	16.6	20.9	170.56	-5,701.9	1,543.7	6,444.7	6,412.4	32.25	199.866	
5,700.0	5,639.5	3,680.6	3,448.3	16.8	21.7	170.29	-5,726.8	1,577.1	6,474.9	6,441.9	32.94	196.578	
5,708.6	5,648.1	3,688.8	3,455.7	16.8	21.7	170.27	-5,728.9	1,580.0	6,477.8	6,444.8	33.00	196.283	
5,800.0	5,739.5	3,774.8	3,532.8	17.0	22.5	170.02	-5,751.5	1,610.8	6,508.5	6,474.8	33.68	193.267	
5,807.1	5,746.5	3,781.5	3,538.7	17.0	22.6	170.00	-5,753.2	1,613.2	6,510.9	6,477.1	33.73	193.040	
5,900.0	5,839.5	3,845.6	3,595.9	17.1	23.2	169.81	-5,769.9	1,636.9	6,542.3	6,508.0	34.29	190.799	
5,905.5	5,845.0	3,848.8	3,598.7	17.1	23.2	169.80	-5,770.7	1,638.1	6,544.2	6,509.8	34.32	190.686	
6,000.0	5,939.5	3,903.4	3,647.3	17.3	23.7	169.63	-5,785.0	1,658.6	6,576.6	6,541.8	34.83	188.799	
6,003.9	5,943.4	3,905.7	3,649.4	17.3	23.7	169.63	-5,785.6	1,659.5	6,578.0	6,543.1	34.86	188.722	
6,100.0	6,039.5	3,968.4	3,704.9	17.4	24.3	169.44	-5,802.3	1,683.2	6,611.5	6,576.1	35.42	186.684	
6,102.3	6,041.8	3,970.1	3,706.5	17.4	24.4	169.43	-5,802.8	1,683.8	6,612.3	6,576.9	35.43	186.629	
6,200.0	6,139.5	4,043.2	3,771.4	17.6	25.0	169.22	-5,822.5	1,710.9	6,646.7	6,610.6	36.05	184.380	
6,200.8	6,140.2	4,043.8	3,772.0	17.6	25.0	169.22	-5,822.7	1,711.1	6,647.0	6,610.9	36.05	184.362	
6,299.2	6,238.7	4,064.0	3,789.9	17.8	25.2	169.16	-5,828.2	1,718.5	6,682.2	6,645.8	36.35	183.846	
6,300.0	6,239.5	4,064.0	3,789.9	17.8	25.2	169.16	-5,828.2	1,718.5	6,682.5	6,646.1	36.35	183.847	
6,360.9	6,300.4	4,116.1	3,836.2	17.9	25.7	169.01	-5,842.7	1,737.7	6,704.4	6,667.7	36.78	182.300	
6,397.6	6,337.1	4,130.4	3,848.8	17.9	25.9	-11.03	-5,846.7	1,743.1	6,717.0	6,680.0	37.03	181.392	
6,400.0	6,339.5	4,131.4	3,849.6	17.9	25.9	-11.02	-5,847.0	1,743.4	6,717.8	6,680.8	37.04	181.363	
6,450.0	6,389.2	4,151.1	3,867.1	18.0	26.1	-10.85	-5,852.6	1,750.9	6,732.2	6,695.0	37.14	181.242	
6,496.0	6,434.7	4,193.0	3,903.8	18.0	26.5	-10.82	-5,864.7	1,766.9	6,742.7	6,705.5	37.22	181.150	
6,500.0	6,438.6	4,193.0	3,903.8	18.0	26.5	-10.81	-5,864.7	1,766.9	6,743.5	6,706.3	37.20	181.282	
6,550.0	6,487.3	4,193.0	3,903.8	18.0	26.5	-10.69	-5,864.7	1,766.9	6,751.5	6,714.7	36.81	183.429	
6,594.5	6,529.8	4,193.0	3,903.8	18.0	26.5	-10.62	-5,864.7	1,766.9	6,756.1	6,719.8	36.31	186.073	
6,600.0	6,535.1	4,193.0	3,903.8	18.1	26.5	-10.61	-5,864.7	1,766.9	6,756.5	6,720.3	36.24	186.449	
6,650.0	6,581.7	4,236.8	3,942.1	18.0	26.9	-10.73	-5,877.5	1,783.8	6,758.2	6,722.4	35.78	188.897	
6,692.9	6,620.6	4,256.3	3,959.1	18.0	27.1	-10.81	-5,883.3	1,791.4	6,757.1	6,722.0	35.13	192.361	
6,700.0	6,626.9	4,259.5	3,961.9	18.0	27.1	-10.83	-5,884.3	1,792.7	6,756.7	6,721.7	35.01	193.003	
6,750.0	6,670.6	4,282.1	3,981.6	18.0	27.4	-10.98	-5,891.1	1,801.5	6,752.0	6,718.0	34.08	198.147	
6,791.3	6,705.4	4,321.0	4,015.3	18.0	27.8	-11.22	-5,902.9	1,816.7	6,745.8	6,712.5	33.31	202.542	
6,800.0	6,712.5	4,321.0	4,015.3	18.0	27.8	-11.25	-5,902.9	1,816.7	6,744.2	6,711.1	33.08	203.845	
6,850.0	6,752.3	4,364.4	4,052.9	18.0	28.2	-11.60	-5,916.1	1,833.8	6,733.1	6,701.1	31.97	210.600	
6,889.7	6,782.5	4,434.4	4,070.1	18.0	43.5	-22.40	-6,348.8	2,430.6	6,719.3	6,681.3	38.00	176.839	
6,900.0	6,790.0	7,444.6	6,980.3	18.0	43.5	-22.72	-6,348.4	2,430.6	6,712.4	6,674.8	37.63	178.365	
6,950.0	6,825.3	7,492.1	7,027.7	18.0	43.5	-24.46	-6,346.9	2,430.6	6,677.3	6,641.4	35.89	186.054	
6,988.2	6,850.5	7,525.7	7,061.4	17.9	43.5	-26.04	-6,345.7	2,430.5	6,649.0	6,614.4	34.66	191.860	
7,000.0	6,858.0	7,531.0	7,066.7	17.9	43.5	-26.56	-6,345.5	2,430.4	6,640.0	6,605.7	34.30	193.572	
7,050.0	6,888.0	7,561.0	7,096.7	18.0	43.5	-29.09	-6,344.5	2,430.3	6,600.7	6,567.7	33.05	199.728	
7,086.6	6,908.1	7,579.0	7,114.6	18.0	43.5	-31.29	-6,343.9	2,430.2	6,570.8	6,538.3	32.49	202.242	
7,100.0	6,915.1	7,585.2	7,120.8	18.0	43.5	-32.19	-6,343.7	2,430.2	6,559.7	6,527.3	32.36	202.704	
7,150.0	6,939.2	7,606.5	7,142.1	18.0	43.5	-36.04	-6,343.0	2,430.0	6,517.0	6,484.5	32.51	200.458	
7,185.0	6,954.3	7,619.7	7,155.3	18.1	43.5	-39.30	-6,342.5	2,429.9	6,486.3	6,453.0	33.25	195.070	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,960.3	7,624.9	7,160.5	18.1	43.5	-40.86	-6,342.4	2,429.9	6,473.0	6,439.2	33.73	191.878		
7,250.0	6,978.1	7,640.2	7,175.8	18.3	43.5	-46.92	-6,341.9	2,429.8	6,427.8	6,391.6	36.13	177.921		
7,283.4	6,988.2	7,648.7	7,184.3	18.4	43.6	-51.83	-6,341.6	2,429.7	6,397.0	6,358.7	38.31	166.979		
7,300.0	6,992.6	7,652.4	7,188.0	18.4	43.6	-54.53	-6,341.5	2,429.7	6,381.6	6,342.1	39.51	161.529		
7,350.0	7,003.7	7,662.6	7,198.2	18.7	43.6	-63.94	-6,341.1	2,429.6	6,334.8	6,291.5	43.31	146.278		
7,381.9	7,009.1	7,670.1	7,205.7	18.9	43.6	-70.93	-6,340.9	2,429.5	6,304.7	6,259.2	45.50	138.567		
7,400.0	7,011.4	7,673.3	7,208.9	19.0	43.6	-75.18	-6,340.8	2,429.5	6,287.5	6,241.0	46.49	135.240		
7,450.0	7,015.7	7,677.8	7,213.4	19.3	43.6	-87.48	-6,340.7	2,429.5	6,239.9	6,192.1	47.79	130.577		
7,480.3	7,016.6	7,677.6	7,213.2	19.6	43.6	-95.00	-6,340.7	2,429.5	6,211.1	6,163.7	47.33	131.218		
7,488.2	7,016.6	7,677.2	7,212.8	19.6	43.6	-96.92	-6,340.7	2,429.5	6,203.6	6,156.5	47.06	131.823		
7,500.0	7,016.6	7,676.5	7,212.0	19.7	43.6	-96.90	-6,340.7	2,429.5	6,192.3	6,145.2	47.18	131.256		
7,578.7	7,016.3	7,671.6	7,207.2	20.5	43.6	-96.75	-6,340.9	2,429.5	6,117.5	6,069.5	48.02	127.399		
7,600.0	7,016.2	7,670.3	7,205.9	20.7	43.6	-96.72	-6,340.9	2,429.5	6,097.4	6,049.1	48.25	126.380		
7,677.1	7,016.0	7,665.6	7,201.2	21.6	43.6	-96.58	-6,341.0	2,429.6	6,024.2	5,975.0	49.17	122.510		
7,700.0	7,015.9	7,664.3	7,199.9	21.8	43.6	-96.54	-6,341.1	2,429.6	6,002.5	5,953.1	49.45	121.392		
7,775.6	7,015.7	7,660.0	7,195.6	22.7	43.6	-96.41	-6,341.2	2,429.6	5,930.9	5,880.5	50.44	117.577		
7,800.0	7,015.6	7,660.0	7,195.6	23.0	43.6	-96.41	-6,341.2	2,429.6	5,907.8	5,857.1	50.76	116.392		
7,874.0	7,015.4	7,656.6	7,192.2	24.0	43.6	-96.31	-6,341.3	2,429.6	5,837.9	5,786.1	51.80	112.696		
7,900.0	7,015.3	7,655.7	7,191.3	24.4	43.6	-96.28	-6,341.4	2,429.7	5,813.3	5,761.2	52.17	111.436		
7,972.4	7,015.1	7,653.3	7,188.9	25.4	43.6	-96.21	-6,341.4	2,429.7	5,745.0	5,691.8	53.24	107.900		
8,000.0	7,015.0	7,652.3	7,187.9	25.8	43.6	-96.18	-6,341.5	2,429.7	5,719.0	5,665.4	53.65	106.592		
8,070.8	7,014.8	7,649.9	7,185.5	26.8	43.6	-96.11	-6,341.6	2,429.7	5,652.3	5,597.6	54.75	103.231		
8,100.0	7,014.7	7,649.0	7,184.5	27.3	43.6	-96.08	-6,341.6	2,429.7	5,624.9	5,569.7	55.21	101.887		
8,169.3	7,014.4	7,646.6	7,182.2	28.3	43.5	-96.01	-6,341.7	2,429.7	5,559.8	5,503.5	56.32	98.715		
8,200.0	7,014.4	7,645.6	7,181.2	28.8	43.5	-95.98	-6,341.7	2,429.7	5,531.0	5,474.2	56.82	97.348		
8,267.7	7,014.1	7,643.3	7,178.8	29.9	43.5	-95.91	-6,341.8	2,429.8	5,467.5	5,409.6	57.94	94.368		
8,300.0	7,014.0	7,642.2	7,177.7	30.4	43.5	-95.88	-6,341.8	2,429.8	5,437.3	5,378.8	58.47	92.988		
8,366.1	7,013.8	7,639.9	7,175.5	31.5	43.5	-95.81	-6,341.9	2,429.8	5,375.5	5,315.9	59.59	90.200		
8,400.0	7,013.7	7,638.7	7,174.3	32.0	43.5	-95.78	-6,341.9	2,429.8	5,343.8	5,283.7	60.17	88.813		
8,464.5	7,013.5	7,636.5	7,172.1	33.1	43.5	-95.71	-6,342.0	2,429.8	5,283.6	5,222.3	61.29	86.213		
8,500.0	7,013.4	7,635.3	7,170.9	33.7	43.5	-95.68	-6,342.0	2,429.8	5,250.6	5,188.7	61.90	84.826		
8,563.0	7,013.2	7,633.1	7,168.7	34.8	43.5	-95.61	-6,342.1	2,429.8	5,192.0	5,129.0	63.01	82.406		
8,600.0	7,013.1	7,631.8	7,167.4	35.4	43.5	-95.58	-6,342.1	2,429.8	5,157.6	5,094.0	63.66	81.023		
8,661.4	7,012.9	7,629.7	7,165.3	36.5	43.5	-95.51	-6,342.2	2,429.9	5,100.6	5,035.9	64.75	78.774		
8,700.0	7,012.8	7,628.4	7,164.0	37.1	43.5	-95.47	-6,342.3	2,429.9	5,064.9	4,999.5	65.44	77.400		
8,759.8	7,012.6	7,626.3	7,161.9	38.2	43.5	-95.41	-6,342.3	2,429.9	5,009.6	4,943.0	66.52	75.313		
8,800.0	7,012.4	7,624.9	7,160.5	38.9	43.5	-95.37	-6,342.4	2,429.9	4,972.5	4,905.2	67.24	73.950		
8,858.2	7,012.3	7,622.9	7,158.5	39.9	43.5	-95.31	-6,342.4	2,429.9	4,918.7	4,850.4	68.30	72.015		
8,900.0	7,012.1	7,621.4	7,157.0	40.7	43.5	-95.27	-6,342.5	2,429.9	4,880.3	4,811.2	69.06	70.666		
8,956.7	7,011.9	7,619.4	7,155.0	41.7	43.5	-95.21	-6,342.5	2,429.9	4,828.2	4,758.1	70.10	68.873		
9,000.0	7,011.8	7,617.9	7,153.5	42.4	43.5	-95.16	-6,342.6	2,429.9	4,788.5	4,717.6	70.90	67.540		
9,055.1	7,011.6	7,616.0	7,151.6	43.4	43.5	-95.10	-6,342.7	2,430.0	4,738.0	4,666.1	71.92	65.881		
9,100.0	7,011.5	7,614.4	7,150.0	44.2	43.5	-95.06	-6,342.7	2,430.0	4,697.0	4,624.2	72.75	64.564		
9,153.5	7,011.3	7,612.5	7,148.1	45.2	43.5	-95.00	-6,342.8	2,430.0	4,648.1	4,574.4	73.75	63.029		
9,200.0	7,011.2	7,610.9	7,146.5	46.1	43.5	-94.95	-6,342.8	2,430.0	4,605.8	4,531.2	74.61	61.730		
9,251.9	7,011.0	7,609.0	7,144.6	47.0	43.5	-94.90	-6,342.9	2,430.0	4,558.6	4,483.0	75.59	60.311		
9,300.0	7,010.9	7,607.3	7,142.9	47.9	43.5	-94.85	-6,342.9	2,430.0	4,515.1	4,438.6	76.49	59.031		
9,350.4	7,010.7	7,605.5	7,141.1	48.8	43.5	-94.79	-6,343.0	2,430.0	4,469.5	4,392.0	77.43	57.720		
9,400.0	7,010.5	7,603.7	7,139.4	49.7	43.5	-94.74	-6,343.1	2,430.0	4,424.7	4,346.3	78.37	56.460		
9,448.8	7,010.4	7,602.0	7,137.6	50.6	43.5	-94.69	-6,343.1	2,430.1	4,380.7	4,301.4	79.29	55.248		
9,500.0	7,010.2	7,600.2	7,135.8	51.6	43.5	-94.63	-6,343.2	2,430.1	4,334.7	4,254.4	80.26	54.008		
9,547.2	7,010.1	7,598.5	7,134.1	52.5	43.5	-94.58	-6,343.2	2,430.1	4,292.4	4,211.2	81.16	52.889		

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,600.0	7,009.9	7,596.6	7,132.2	53.5	43.5	-94.53	-6,343.3	2,430.1	4,245.2	4,163.0	82.16	51.670	
9,645.6	7,009.8	7,594.9	7,130.5	54.3	43.5	-94.48	-6,343.4	2,430.1	4,204.5	4,121.5	83.03	50.638	
9,700.0	7,009.6	7,593.0	7,128.6	55.3	43.5	-94.42	-6,343.4	2,430.1	4,156.2	4,072.1	84.07	49.439	
9,744.1	7,009.4	7,591.4	7,127.0	56.2	43.5	-94.37	-6,343.5	2,430.1	4,117.1	4,032.2	84.91	48.488	
9,800.0	7,009.3	7,589.3	7,125.0	57.2	43.5	-94.31	-6,343.5	2,430.1	4,067.6	3,981.6	85.98	47.310	
9,842.5	7,009.1	7,587.8	7,123.4	58.0	43.5	-94.27	-6,343.6	2,430.1	4,030.1	3,943.4	86.79	46.434	
9,900.0	7,008.9	7,585.7	7,121.3	59.1	43.5	-94.20	-6,343.7	2,430.2	3,979.6	3,891.7	87.90	45.276	
9,940.9	7,008.8	7,584.2	7,119.8	59.9	43.5	-94.16	-6,343.7	2,430.2	3,943.8	3,855.1	88.68	44.470	
10,000.0	7,008.6	7,582.0	7,117.7	61.0	43.5	-94.10	-6,343.8	2,430.2	3,892.2	3,802.4	89.82	43.333	
10,039.3	7,008.5	7,580.6	7,116.2	61.7	43.5	-94.05	-6,343.8	2,430.2	3,858.0	3,767.4	90.58	42.593	
10,100.0	7,008.3	7,578.4	7,114.0	62.9	43.5	-93.99	-6,343.9	2,430.2	3,805.4	3,713.6	91.75	41.477	
10,137.8	7,008.2	7,577.0	7,112.6	63.6	43.5	-93.94	-6,344.0	2,430.2	3,772.8	3,680.3	92.48	40.797	
10,200.0	7,008.0	7,574.7	7,110.3	64.8	43.5	-93.88	-6,344.0	2,430.2	3,719.2	3,625.6	93.68	39.702	
10,236.2	7,007.9	7,573.4	7,109.0	65.5	43.5	-93.84	-6,344.1	2,430.2	3,688.2	3,593.9	94.38	39.078	
10,300.0	7,007.6	7,571.0	7,106.6	66.7	43.5	-93.77	-6,344.2	2,430.2	3,633.8	3,538.2	95.62	38.004	
10,334.6	7,007.5	7,569.7	7,105.4	67.3	43.5	-93.73	-6,344.2	2,430.3	3,604.4	3,508.1	96.29	37.434	
10,400.0	7,007.3	7,567.3	7,102.9	68.6	43.5	-93.65	-6,344.3	2,430.3	3,549.1	3,451.6	97.56	36.381	
10,433.0	7,007.2	7,566.1	7,101.7	69.2	43.5	-93.62	-6,344.3	2,430.3	3,521.3	3,423.1	98.20	35.860	
10,500.0	7,007.0	7,563.6	7,099.2	70.5	43.5	-93.54	-6,344.4	2,430.3	3,465.3	3,365.8	99.50	34.828	
10,531.5	7,006.9	7,562.4	7,098.0	71.1	43.5	-93.51	-6,344.5	2,430.3	3,439.0	3,338.9	100.11	34.353	
10,600.0	7,006.7	7,559.8	7,095.5	72.4	43.5	-93.43	-6,344.5	2,430.3	3,382.3	3,280.8	101.44	33.341	
10,629.9	7,006.6	7,558.7	7,094.3	73.0	43.5	-93.40	-6,344.6	2,430.3	3,357.6	3,255.6	102.03	32.910	
10,700.0	7,006.4	7,556.1	7,091.7	74.3	43.5	-93.32	-6,344.7	2,430.3	3,300.2	3,196.8	103.39	31.919	
10,728.3	7,006.3	7,555.0	7,090.6	74.9	43.5	-93.29	-6,344.7	2,430.3	3,277.1	3,173.2	103.94	31.528	
10,800.0	7,006.0	7,552.3	7,087.9	76.3	43.5	-93.21	-6,344.8	2,430.3	3,219.2	3,113.8	105.34	30.559	
10,826.7	7,005.9	7,551.3	7,086.9	76.8	43.5	-93.18	-6,344.8	2,430.4	3,197.7	3,091.8	105.86	30.205	
10,900.0	7,005.7	7,548.5	7,084.1	78.2	43.5	-93.09	-6,344.9	2,430.4	3,139.2	3,031.9	107.30	29.257	
10,925.2	7,005.6	7,547.5	7,083.2	78.7	43.5	-93.06	-6,345.0	2,430.4	3,119.2	3,011.5	107.79	28.939	
11,000.0	7,005.4	7,544.7	7,080.3	80.1	43.5	-92.98	-6,345.1	2,430.4	3,060.4	2,951.2	109.25	28.013	
11,023.6	7,005.3	7,543.8	7,079.4	80.6	43.5	-92.95	-6,345.1	2,430.4	3,042.0	2,932.3	109.71	27.727	
11,100.0	7,005.1	7,540.9	7,076.5	82.0	43.5	-92.86	-6,345.2	2,430.4	2,982.9	2,871.7	111.21	26.823	
11,122.0	7,005.0	7,540.0	7,075.7	82.5	43.5	-92.84	-6,345.2	2,430.4	2,966.0	2,854.4	111.64	26.568	
11,200.0	7,004.7	7,537.0	7,072.7	84.0	43.5	-92.75	-6,345.3	2,430.4	2,906.7	2,793.6	113.17	25.685	
11,220.4	7,004.7	7,536.2	7,071.9	84.4	43.5	-92.73	-6,345.3	2,430.4	2,891.3	2,777.8	113.57	25.459	
11,300.0	7,004.4	7,533.2	7,068.8	85.9	43.5	-92.63	-6,345.5	2,430.4	2,832.1	2,716.9	115.13	24.599	
11,318.9	7,004.4	7,532.4	7,068.1	86.3	43.5	-92.61	-6,345.5	2,430.4	2,818.2	2,702.7	115.50	24.400	
11,400.0	7,004.1	7,529.0	7,064.7	87.8	43.5	-92.51	-6,345.6	2,430.5	2,759.0	2,641.9	117.09	23.563	
11,417.3	7,004.0	7,528.2	7,063.9	88.2	43.5	-92.49	-6,345.6	2,430.5	2,746.5	2,629.1	117.43	23.388	
11,500.0	7,003.8	7,524.5	7,060.1	89.8	43.5	-92.37	-6,345.8	2,430.5	2,687.7	2,568.6	119.06	22.574	
11,515.7	7,003.7	7,523.8	7,059.4	90.1	43.5	-92.35	-6,345.8	2,430.5	2,676.6	2,557.2	119.37	22.423	
11,600.0	7,003.4	7,520.0	7,055.7	91.7	43.5	-92.24	-6,345.9	2,430.5	2,618.2	2,497.2	121.03	21.633	
11,614.1	7,003.4	7,519.4	7,055.0	92.0	43.5	-92.22	-6,345.9	2,430.5	2,608.5	2,487.2	121.30	21.504	
11,700.0	7,003.1	7,515.5	7,051.2	93.7	43.5	-92.11	-6,346.1	2,430.5	2,550.7	2,427.7	122.99	20.739	
11,712.6	7,003.1	7,515.0	7,050.6	93.9	43.5	-92.09	-6,346.1	2,430.5	2,542.4	2,419.2	123.24	20.629	
11,800.0	7,002.8	7,511.1	7,046.8	95.6	43.5	-91.97	-6,346.2	2,430.5	2,485.5	2,360.5	124.96	19.890	
11,811.0	7,002.7	7,510.6	7,046.3	95.8	43.5	-91.96	-6,346.2	2,430.5	2,478.4	2,353.2	125.18	19.799	
11,900.0	7,002.5	7,506.7	7,042.4	97.6	43.5	-91.84	-6,346.4	2,430.5	2,422.6	2,295.6	126.93	19.085	
11,909.4	7,002.4	7,506.3	7,042.0	97.7	43.5	-91.83	-6,346.4	2,430.5	2,416.8	2,289.6	127.12	19.012	
12,000.0	7,002.1	7,502.3	7,038.0	99.5	43.5	-91.71	-6,346.5	2,430.5	2,362.2	2,233.3	128.90	18.325	
12,007.8	7,002.1	7,502.0	7,037.7	99.7	43.5	-91.70	-6,346.5	2,430.5	2,357.6	2,228.5	129.06	18.268	
12,100.0	7,001.8	7,498.0	7,033.7	101.5	43.5	-91.58	-6,346.7	2,430.6	2,304.6	2,173.7	130.87	17.609	
12,106.3	7,001.8	7,497.7	7,033.4	101.6	43.5	-91.57	-6,346.7	2,430.6	2,301.1	2,170.1	131.00	17.566	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
12,200.0	7,001.5	7,493.6	7,029.3	103.4	43.5	-91.45	-6,346.8	2,430.6	2,250.0	2,117.1	132.85	16.937	
12,204.7	7,001.5	7,493.4	7,029.1	103.5	43.5	-91.44	-6,346.8	2,430.6	2,247.5	2,114.5	132.94	16.906	
12,300.0	7,001.2	7,489.3	7,025.0	105.3	43.5	-91.32	-6,346.9	2,430.6	2,198.5	2,063.7	134.82	16.307	
12,303.1	7,001.1	7,489.2	7,024.9	105.4	43.5	-91.32	-6,347.0	2,430.6	2,197.0	2,062.1	134.88	16.288	
12,400.0	7,000.8	7,485.1	7,020.8	107.3	43.5	-91.19	-6,347.1	2,430.6	2,150.5	2,013.7	136.79	15.721	
12,401.5	7,000.8	7,485.0	7,020.7	107.3	43.5	-91.19	-6,347.1	2,430.6	2,149.8	2,013.0	136.82	15.712	
12,500.0	7,000.5	7,480.8	7,016.5	109.3	43.5	-91.07	-6,347.2	2,430.6	2,106.1	1,967.4	138.76	15.178	
12,598.4	7,000.2	7,476.7	7,012.4	111.2	43.5	-90.94	-6,347.4	2,430.6	2,066.2	1,925.5	140.70	14.685	
12,600.0	7,000.2	7,476.6	7,012.3	111.2	43.5	-90.94	-6,347.4	2,430.6	2,065.6	1,924.9	140.74	14.677	
12,696.8	6,999.8	7,472.5	7,008.2	113.1	43.5	-90.82	-6,347.5	2,430.6	2,030.3	1,887.7	142.65	14.233	
12,700.0	6,999.8	7,472.4	7,008.1	113.2	43.5	-90.81	-6,347.5	2,430.6	2,029.2	1,886.5	142.71	14.219	
12,795.2	6,999.5	7,468.4	7,004.1	115.0	43.5	-90.69	-6,347.6	2,430.6	1,998.6	1,854.0	144.59	13.823	
12,800.0	6,999.5	7,468.2	7,003.9	115.1	43.5	-90.69	-6,347.7	2,430.6	1,997.2	1,852.5	144.68	13.804	
12,893.7	6,999.2	7,464.4	7,000.1	116.9	43.5	-90.57	-6,347.8	2,430.6	1,971.3	1,824.8	146.53	13.453	
12,900.0	6,999.2	7,464.1	6,999.8	117.1	43.5	-90.56	-6,347.8	2,430.6	1,969.7	1,823.1	146.65	13.431	
12,992.1	6,998.9	7,460.3	6,996.0	118.9	43.5	-90.45	-6,347.9	2,430.6	1,948.6	1,800.1	148.47	13.124	
13,000.0	6,998.8	7,460.0	6,995.7	119.0	43.5	-90.44	-6,347.9	2,430.6	1,947.0	1,798.3	148.63	13.100	
13,090.5	6,998.6	7,456.3	6,992.0	120.8	43.5	-90.33	-6,348.0	2,430.6	1,930.6	1,780.2	150.41	12.835	
13,100.0	6,998.5	7,455.9	6,991.6	121.0	43.5	-90.32	-6,348.1	2,430.6	1,929.1	1,778.5	150.60	12.810	
13,188.9	6,998.2	7,452.2	6,988.0	122.7	43.5	-90.21	-6,348.2	2,430.6	1,917.5	1,765.2	152.36	12.586	
13,200.0	6,998.2	7,451.8	6,987.5	122.9	43.5	-90.19	-6,348.2	2,430.6	1,916.4	1,763.8	152.57	12.560	
13,287.4	6,997.9	7,448.3	6,984.0	124.6	43.5	-90.09	-6,348.3	2,430.6	1,909.4	1,755.1	154.30	12.375	
13,300.0	6,997.9	7,447.7	6,983.5	124.9	43.5	-90.07	-6,348.3	2,430.6	1,908.7	1,754.2	154.55	12.351	
13,385.8	6,997.6	7,444.3	6,980.0	126.6	43.5	-89.97	-6,348.4	2,430.6	1,906.3	1,750.1	156.24	12.201	
13,396.0	6,997.5	7,443.9	6,979.6	126.8	43.5	-89.96	-6,348.4	2,430.6	1,906.3	1,749.9	156.44	12.186 CC	
13,400.0	6,997.5	7,443.7	6,979.4	126.9	43.5	-89.95	-6,348.5	2,430.6	1,906.3	1,749.8	156.52	12.180 ES	
13,484.2	6,997.3	7,440.4	6,976.1	128.5	43.5	-89.85	-6,348.6	2,430.6	1,908.4	1,750.2	158.18	12.064	
13,500.0	6,997.2	7,439.7	6,975.4	128.8	43.5	-89.83	-6,348.6	2,430.6	1,909.1	1,750.7	158.49	12.046	
13,582.6	6,996.9	7,436.4	6,972.1	130.4	43.5	-89.73	-6,348.7	2,430.6	1,915.4	1,755.3	160.12	11.962	
13,600.0	6,996.9	7,435.7	6,971.5	130.8	43.5	-89.71	-6,348.7	2,430.6	1,917.2	1,756.7	160.46	11.948	
13,681.1	6,996.6	7,432.5	6,968.3	132.4	43.5	-89.62	-6,348.8	2,430.6	1,927.5	1,765.4	162.06	11.893	
13,700.0	6,996.5	7,431.8	6,967.5	132.7	43.5	-89.59	-6,348.8	2,430.6	1,930.4	1,767.9	162.44	11.884	
13,779.5	6,996.3	7,428.7	6,964.4	134.3	43.5	-89.50	-6,348.9	2,430.6	1,944.4	1,780.4	164.00	11.856	
13,800.0	6,996.2	7,427.9	6,963.6	134.7	43.5	-89.47	-6,349.0	2,430.6	1,948.6	1,784.2	164.41	11.852	
13,877.9	6,995.9	7,424.8	6,960.5	136.2	43.5	-89.38	-6,349.1	2,430.6	1,966.2	1,800.3	165.94	11.849 SF	
13,900.0	6,995.9	7,423.9	6,959.7	136.7	43.5	-89.36	-6,349.1	2,430.6	1,971.7	1,805.3	166.38	11.851	
13,976.3	6,995.6	7,421.0	6,956.7	138.2	43.5	-89.27	-6,349.2	2,430.6	1,992.6	1,824.7	167.88	11.869	
14,000.0	6,995.5	7,420.1	6,955.8	138.6	43.5	-89.24	-6,349.2	2,430.6	1,999.6	1,831.2	168.35	11.877	
14,074.8	6,995.3	7,417.2	6,952.9	140.1	43.5	-89.15	-6,349.3	2,430.5	2,023.4	1,853.6	169.82	11.915	
14,100.0	6,995.2	7,416.2	6,951.9	140.6	43.5	-89.12	-6,349.3	2,430.5	2,032.0	1,861.6	170.32	11.930	
14,162.0	6,995.0	7,413.8	6,949.5	141.8	43.5	-89.05	-6,349.4	2,430.5	2,054.2	1,882.7	171.50	11.978	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	172.27	-5,118.5	694.4	5,165.4				
98.4	98.4	77.1	77.1	0.1	0.1	172.27	-5,118.5	694.4	5,165.4	5,165.2	0.17	N/A	
100.0	100.0	78.6	78.6	0.1	0.1	172.27	-5,118.5	694.4	5,165.4	5,165.2	0.18	N/A	
196.8	196.8	170.9	170.9	0.3	0.2	172.27	-5,118.6	694.4	5,165.5	5,165.0	0.49	N/A	
200.0	200.0	173.9	173.9	0.3	0.2	172.27	-5,118.6	694.4	5,165.5	5,165.0	0.50	N/A	
295.3	295.3	264.7	264.7	0.5	0.3	172.27	-5,118.8	694.4	5,165.7	5,164.9	0.81	6,385.801	
300.0	300.0	269.2	269.2	0.5	0.3	172.27	-5,118.8	694.4	5,165.7	5,164.9	0.82	6,267.577	
393.7	393.7	358.5	358.5	0.8	0.4	172.27	-5,119.1	694.5	5,166.0	5,164.9	1.13	4,584.548	
400.0	400.0	364.6	364.6	0.8	0.4	172.27	-5,119.1	694.5	5,166.0	5,164.9	1.15	4,503.250	
492.1	492.1	452.4	452.4	1.0	0.5	172.27	-5,119.5	694.5	5,166.4	5,165.0	1.44	3,576.043	
500.0	500.0	459.9	459.9	1.0	0.5	172.27	-5,119.5	694.5	5,166.4	5,165.0	1.47	3,514.198	
590.5	590.5	546.2	546.2	1.2	0.6	172.27	-5,119.9	694.5	5,166.9	5,165.1	1.76	2,931.361	
600.0	600.0	555.2	555.2	1.2	0.6	172.27	-5,120.0	694.5	5,166.9	5,165.1	1.79	2,881.494	
689.0	689.0	640.0	640.0	1.4	0.7	172.28	-5,120.4	694.6	5,167.4	5,165.4	2.08	2,483.732	
700.0	700.0	650.5	650.5	1.4	0.7	172.28	-5,120.5	694.6	5,167.5	5,165.4	2.12	2,441.970	
787.4	787.4	731.0	731.0	1.6	0.8	172.28	-5,121.0	694.6	5,168.1	5,165.7	2.40	2,157.365	
800.0	800.0	731.0	731.0	1.7	0.8	172.28	-5,121.0	694.6	5,168.2	5,165.8	2.42	2,132.203	
885.8	885.8	782.0	782.0	1.9	0.9	172.28	-5,121.6	694.7	5,169.3	5,166.5	2.73	1,891.460	
900.0	900.0	789.2	789.2	1.9	0.9	172.28	-5,121.8	694.7	5,169.5	5,166.7	2.78	1,858.829	
984.2	984.2	859.0	859.0	2.1	1.0	172.27	-5,123.5	695.0	5,171.5	5,168.4	3.13	1,652.591	
1,000.0	1,000.0	859.0	859.0	2.1	1.0	172.27	-5,123.5	695.0	5,171.9	5,168.7	3.16	1,634.217	
1,082.7	1,082.7	859.0	859.0	2.3	1.0	172.27	-5,123.5	695.0	5,174.5	5,171.1	3.35	1,544.368	
1,100.0	1,100.0	859.0	859.0	2.3	1.0	172.27	-5,123.5	695.0	5,175.2	5,171.8	3.39	1,526.837	
1,181.1	1,181.1	914.7	914.7	2.5	1.2	109.64	-5,125.6	695.4	5,179.0	5,175.3	3.69	1,403.010	
1,200.0	1,200.0	922.1	922.0	2.6	1.2	109.62	-5,126.0	695.5	5,180.1	5,176.3	3.75	1,381.403	
1,279.5	1,279.4	987.0	986.8	2.7	1.3	109.55	-5,129.8	696.2	5,186.1	5,182.0	4.07	1,273.266	
1,300.0	1,299.8	987.0	986.8	2.8	1.3	109.52	-5,129.8	696.2	5,187.6	5,183.5	4.12	1,259.868	
1,377.9	1,377.5	987.0	986.8	3.0	1.3	109.38	-5,129.8	696.2	5,194.8	5,190.5	4.30	1,209.389	
1,400.0	1,399.5	987.0	986.8	3.0	1.3	109.34	-5,129.8	696.2	5,197.2	5,192.9	4.35	1,195.946	
1,476.4	1,475.3	1,030.1	1,029.8	3.2	1.5	109.21	-5,133.0	696.8	5,206.1	5,201.5	4.63	1,123.375	
1,500.0	1,498.7	1,039.4	1,039.0	3.2	1.5	109.17	-5,133.8	697.0	5,209.2	5,204.5	4.71	1,104.991	
1,574.8	1,572.6	1,068.5	1,068.1	3.5	1.6	109.01	-5,136.3	697.6	5,219.6	5,214.7	4.98	1,047.104	
1,600.0	1,597.5	1,116.0	1,115.3	3.5	1.7	109.02	-5,141.0	698.8	5,223.8	5,218.6	5.16	1,011.400	
1,673.2	1,669.4	1,116.0	1,115.3	3.7	1.7	108.80	-5,141.0	698.8	5,235.4	5,230.0	5.39	971.778	
1,700.0	1,695.7	1,116.0	1,115.3	3.8	1.7	108.71	-5,141.0	698.8	5,240.0	5,234.5	5.47	958.088	
1,771.6	1,765.7	1,162.7	1,161.7	4.1	1.8	108.80	-5,146.0	700.0	5,252.8	5,247.0	5.82	903.264	
1,800.0	1,793.4	1,180.6	1,179.5	4.2	1.9	108.84	-5,147.9	700.5	5,258.0	5,252.1	5.95	883.518	
1,870.1	1,862.0	1,244.0	1,242.4	4.4	2.0	108.97	-5,155.2	702.0	5,271.1	5,264.7	6.34	830.902	
1,900.0	1,891.3	1,244.0	1,242.4	4.5	2.0	108.97	-5,155.2	702.0	5,276.7	5,270.2	6.45	818.238	
1,968.5	1,958.3	1,285.6	1,283.7	4.8	2.2	109.06	-5,160.2	703.1	5,289.9	5,283.1	6.79	778.772	
2,000.0	1,989.1	1,305.0	1,302.9	4.9	2.2	109.10	-5,162.6	703.7	5,296.1	5,289.1	6.95	761.834	
2,066.9	2,054.5	1,346.1	1,343.8	5.2	2.3	109.18	-5,167.7	705.0	5,309.4	5,302.1	7.30	727.664	
2,100.0	2,086.9	1,373.0	1,370.4	5.3	2.4	109.23	-5,171.2	706.1	5,316.1	5,308.7	7.48	710.557	
2,165.3	2,150.8	1,373.0	1,370.4	5.6	2.4	109.23	-5,171.2	706.1	5,329.8	5,322.1	7.73	689.110	
2,200.0	2,184.7	1,373.0	1,370.4	5.7	2.4	109.23	-5,171.2	706.1	5,337.3	5,329.5	7.87	678.323	
2,263.8	2,247.1	1,434.7	1,431.5	5.9	2.6	109.35	-5,179.7	708.8	5,350.9	5,342.7	8.26	647.535	
2,300.0	2,282.5	1,449.3	1,445.8	6.1	2.7	109.37	-5,181.8	709.6	5,359.0	5,350.6	8.44	634.935	
2,362.2	2,343.4	1,501.0	1,496.9	6.4	2.8	109.46	-5,189.8	712.5	5,373.4	5,364.6	8.81	609.968	
2,400.0	2,380.3	1,501.0	1,496.9	6.5	2.8	109.46	-5,189.8	712.5	5,382.1	5,373.1	8.96	600.642	
2,460.6	2,439.6	1,501.0	1,496.9	6.8	2.8	109.46	-5,189.8	712.5	5,396.5	5,387.3	9.21	586.197	
2,500.0	2,478.1	1,538.2	1,533.5	6.9	3.0	109.52	-5,195.8	715.1	5,406.1	5,396.6	9.46	571.765	
2,559.0	2,535.9	1,569.2	1,563.9	7.2	3.1	109.57	-5,201.0	717.7	5,420.6	5,410.8	9.77	554.770	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,576.0	1,590.7	1,585.0	7.4	3.2	109.59	-5,204.6	719.7	5,430.9	5,420.9	9.99	543.631	
2,657.5	2,632.2	1,629.0	1,622.5	7.6	3.3	109.64	-5,211.2	723.7	5,445.5	5,435.2	10.32	527.727	
2,700.0	2,673.8	1,629.0	1,622.5	7.8	3.3	109.64	-5,211.2	723.7	5,456.5	5,446.0	10.49	519.956	
2,755.9	2,728.4	1,668.6	1,661.3	8.0	3.5	109.69	-5,218.3	728.2	5,471.2	5,460.4	10.83	505.305	
2,800.0	2,771.6	1,689.7	1,681.8	8.2	3.6	109.71	-5,222.1	730.6	5,483.0	5,471.9	11.06	495.561	
2,854.3	2,824.7	1,715.5	1,707.0	8.4	3.7	109.74	-5,227.0	733.6	5,497.7	5,486.3	11.36	484.092	
2,900.0	2,869.4	1,758.0	1,748.4	8.6	3.8	109.79	-5,235.2	738.4	5,510.4	5,498.7	11.66	472.771	
2,952.7	2,921.0	1,758.0	1,748.4	8.9	3.8	109.79	-5,235.2	738.4	5,525.1	5,513.2	11.88	465.193	
3,000.0	2,967.2	1,758.0	1,748.4	9.1	3.8	109.79	-5,235.2	738.4	5,538.6	5,526.5	12.08	458.672	
3,051.2	3,017.3	1,799.8	1,789.1	9.3	4.0	109.83	-5,243.7	743.3	5,553.3	5,540.9	12.41	447.622	
3,100.0	3,065.0	1,818.8	1,807.5	9.5	4.1	109.85	-5,247.7	745.6	5,567.7	5,555.0	12.66	439.615	
3,149.6	3,113.5	1,838.0	1,826.1	9.7	4.2	109.87	-5,251.8	748.0	5,582.5	5,569.6	12.93	431.798	
3,200.0	3,162.8	1,886.0	1,872.5	9.9	4.4	109.92	-5,262.5	754.2	5,598.0	5,584.7	13.27	421.705	
3,248.0	3,209.8	1,886.0	1,872.5	10.2	4.4	109.92	-5,262.5	754.2	5,612.7	5,599.2	13.48	416.414	
3,300.0	3,260.7	1,886.0	1,872.5	10.4	4.4	109.92	-5,262.5	754.2	5,629.0	5,615.3	13.70	410.896	
3,346.4	3,306.1	1,927.1	1,912.1	10.6	4.7	109.96	-5,272.0	759.7	5,643.6	5,629.6	14.02	402.616	
3,400.0	3,358.5	1,957.4	1,941.3	10.8	4.8	109.98	-5,279.1	763.8	5,660.8	5,646.4	14.33	394.930	
3,444.9	3,402.4	1,982.8	1,965.6	11.0	5.0	110.00	-5,285.1	767.4	5,675.2	5,660.7	14.60	388.754	
3,500.0	3,456.3	2,015.0	1,996.6	11.3	5.1	110.03	-5,292.8	772.0	5,693.2	5,678.3	14.93	381.404	
3,543.3	3,498.6	2,068.1	2,047.5	11.5	5.4	110.07	-5,305.6	779.8	5,707.4	5,692.1	15.26	373.966	
3,600.0	3,554.1	2,141.3	2,117.7	11.7	5.8	110.12	-5,323.0	790.9	5,725.8	5,710.1	15.71	364.481	
3,641.7	3,594.9	2,172.4	2,147.7	11.9	5.9	110.15	-5,330.4	795.6	5,739.3	5,723.3	15.98	359.252	
3,700.0	3,651.9	2,214.9	2,188.4	12.2	6.1	110.18	-5,340.5	801.9	5,758.2	5,741.9	16.34	352.312	
3,740.1	3,691.2	2,244.0	2,216.4	12.3	6.2	110.20	-5,347.5	806.1	5,771.3	5,754.7	16.60	347.714	
3,800.0	3,749.7	2,295.9	2,266.1	12.6	6.5	110.24	-5,360.1	813.4	5,791.0	5,774.0	17.00	340.651	
3,838.6	3,787.5	2,338.2	2,306.8	12.8	6.7	110.28	-5,370.3	819.3	5,803.6	5,786.3	17.28	335.778	
3,900.0	3,847.5	2,407.4	2,373.2	13.0	7.0	110.34	-5,387.0	828.9	5,823.7	5,805.9	17.74	328.258	
3,937.0	3,883.7	2,460.4	2,424.2	13.2	7.3	110.38	-5,399.6	836.1	5,835.7	5,817.6	18.05	323.388	
4,000.0	3,945.4	2,528.0	2,489.3	13.5	7.6	110.44	-5,415.5	845.1	5,855.9	5,837.4	18.50	316.508	
4,035.4	3,980.0	2,564.5	2,524.5	13.7	7.7	110.48	-5,424.1	849.7	5,867.2	5,848.4	18.76	312.810	
4,068.9	4,012.7	2,588.3	2,547.5	13.8	7.9	110.50	-5,429.7	852.6	5,878.0	5,859.0	18.97	309.901	
4,100.0	4,043.2	2,610.5	2,568.8	13.9	8.0	110.72	-5,435.0	855.2	5,888.0	5,868.8	19.15	307.482	
4,133.8	4,076.4	2,634.6	2,592.0	14.0	8.1	110.95	-5,440.8	857.9	5,898.7	5,879.4	19.32	305.277	
4,200.0	4,141.6	2,657.0	2,613.6	14.2	8.2	111.38	-5,446.2	860.4	5,919.6	5,900.0	19.59	302.139	
4,232.3	4,173.4	2,657.0	2,613.6	14.3	8.2	111.58	-5,446.2	860.4	5,929.8	5,910.1	19.68	301.283	
4,300.0	4,240.5	2,714.1	2,668.6	14.5	8.5	112.02	-5,460.4	867.0	5,950.7	5,930.7	20.05	296.844	
4,330.7	4,271.0	2,727.1	2,681.1	14.6	8.6	112.20	-5,463.7	868.6	5,960.2	5,940.0	20.16	295.620	
4,400.0	4,339.9	2,785.0	2,736.4	14.8	8.9	112.60	-5,478.8	876.3	5,981.6	5,961.1	20.51	291.627	
4,429.1	4,368.9	2,785.0	2,736.4	14.8	8.9	112.77	-5,478.8	876.3	5,990.4	5,969.8	20.57	291.199	
4,500.0	4,439.6	2,785.0	2,736.4	15.0	8.9	113.19	-5,478.8	876.3	6,011.8	5,991.1	20.72	290.189	
4,527.5	4,467.1	2,785.0	2,736.4	15.0	8.9	113.35	-5,478.8	876.3	6,020.2	5,999.4	20.76	289.940	
4,600.0	4,539.5	2,842.8	2,791.5	15.1	9.2	113.71	-5,494.4	884.5	6,041.6	6,020.5	21.09	286.509	
4,626.0	4,565.4	2,854.1	2,802.2	15.2	9.3	113.85	-5,497.6	886.1	6,049.3	6,028.1	21.16	285.848	
4,668.9	4,608.4	2,872.8	2,819.9	15.2	9.4	176.63	-5,502.8	888.7	6,061.9	6,040.6	21.29	284.764	
4,700.0	4,639.5	2,913.0	2,858.0	15.3	9.7	176.58	-5,514.3	894.4	6,071.1	6,049.6	21.47	282.765	
4,724.4	4,663.9	2,913.0	2,858.0	15.3	9.7	176.58	-5,514.3	894.4	6,078.3	6,056.7	21.51	282.613	
4,800.0	4,739.5	2,913.0	2,858.0	15.4	9.7	176.58	-5,514.3	894.4	6,100.9	6,079.3	21.62	282.172	
4,822.8	4,762.3	2,913.0	2,858.0	15.4	9.7	176.58	-5,514.3	894.4	6,107.9	6,086.3	21.66	282.042	
4,900.0	4,839.5	2,979.1	2,920.4	15.6	10.1	176.50	-5,533.7	904.2	6,131.5	6,109.5	22.02	278.500	
4,921.2	4,860.7	2,989.2	2,930.0	15.6	10.2	176.49	-5,536.7	905.8	6,138.1	6,116.0	22.09	277.919	
5,000.0	4,939.5	3,288.9	3,213.6	15.7	11.9	176.08	-5,621.2	952.7	6,161.2	6,137.9	23.24	265.110	
5,019.7	4,959.1	3,331.5	3,254.2	15.7	12.2	176.02	-5,632.4	959.5	6,166.6	6,143.2	23.41	263.393	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
5,100.0	5,039.5	3,609.6	3,521.1	15.9	13.6	175.71	-5,700.4	997.0	6,186.6	6,162.2	24.43	253.265	
5,118.1	5,057.6	3,623.6	3,534.6	15.9	13.7	175.70	-5,703.7	998.9	6,191.0	6,166.5	24.50	252.684	
5,200.0	5,139.5	3,684.0	3,592.8	16.0	14.0	175.63	-5,717.7	1,007.1	6,211.0	6,186.2	24.82	250.197	
5,216.5	5,156.0	3,684.0	3,592.8	16.0	14.0	175.63	-5,717.7	1,007.1	6,215.1	6,190.3	24.85	250.097	
5,300.0	5,239.5	3,733.2	3,640.1	16.2	14.3	175.57	-5,729.4	1,013.8	6,236.0	6,210.9	25.15	247.949	
5,314.9	5,254.4	3,740.2	3,646.9	16.2	14.3	175.57	-5,731.2	1,014.8	6,239.8	6,214.6	25.20	247.627	
5,400.0	5,339.5	3,812.0	3,715.6	16.3	14.7	175.48	-5,749.0	1,024.8	6,261.9	6,236.4	25.58	244.818	
5,413.4	5,352.8	3,812.0	3,715.6	16.3	14.7	175.48	-5,749.0	1,024.8	6,265.4	6,239.8	25.60	244.745	
5,500.0	5,439.5	3,835.6	3,738.2	16.5	14.9	175.46	-5,755.0	1,028.1	6,288.3	6,262.4	25.82	243.532	
5,511.8	5,451.3	3,844.1	3,746.3	16.5	14.9	175.45	-5,757.2	1,029.3	6,291.4	6,265.6	25.87	243.199	
5,600.0	5,539.5	3,907.3	3,806.8	16.6	15.3	175.38	-5,773.5	1,038.2	6,315.2	6,289.0	26.23	240.756	
5,610.2	5,549.7	3,914.6	3,813.8	16.6	15.3	175.37	-5,775.4	1,039.2	6,318.0	6,291.7	26.27	240.477	
5,700.0	5,639.5	3,941.0	3,839.0	16.8	15.5	175.34	-5,782.2	1,042.8	6,342.7	6,316.2	26.51	239.246	
5,708.6	5,648.1	3,941.0	3,839.0	16.8	15.5	175.34	-5,782.2	1,042.8	6,345.2	6,318.6	26.53	239.208	
5,800.0	5,739.5	3,992.3	3,887.8	17.0	15.8	175.28	-5,796.0	1,050.1	6,371.0	6,344.1	26.86	237.195	
5,807.1	5,746.5	3,994.6	3,890.1	17.0	15.8	175.28	-5,796.6	1,050.5	6,373.0	6,346.1	26.88	237.092	
5,900.0	5,839.5	4,025.5	3,919.4	17.1	16.0	175.24	-5,805.3	1,055.1	6,400.2	6,373.1	27.15	235.779	
5,905.5	5,845.0	4,027.4	3,921.1	17.1	16.0	175.24	-5,805.8	1,055.4	6,401.9	6,374.7	27.16	235.702	
6,000.0	5,939.5	4,069.0	3,960.5	17.3	16.3	175.19	-5,817.8	1,061.8	6,430.5	6,403.0	27.47	234.109	
6,003.9	5,943.4	4,069.0	3,960.5	17.3	16.3	175.19	-5,817.8	1,061.8	6,431.7	6,404.2	27.47	234.096	
6,100.0	6,039.5	4,144.4	4,031.5	17.4	16.8	175.10	-5,839.9	1,073.8	6,461.3	6,433.4	27.91	231.499	
6,102.3	6,041.8	4,147.0	4,034.0	17.4	16.8	175.09	-5,840.7	1,074.2	6,462.0	6,434.1	27.92	231.414	
6,200.0	6,139.5	6,286.5	6,123.6	17.6	24.6	173.57	-6,158.5	1,274.1	6,483.9	6,450.3	33.59	193.014	
6,200.8	6,140.2	6,287.4	6,124.5	17.6	24.6	173.57	-6,158.5	1,274.1	6,483.9	6,450.3	33.60	192.998	
6,294.0	6,233.4	6,380.0	6,217.1	17.8	24.7	173.55	-6,158.2	1,276.2	6,483.8	6,449.9	33.91	191.212	
6,299.2	6,238.7	6,380.0	6,217.1	17.8	24.7	173.55	-6,158.2	1,276.2	6,483.8	6,449.9	33.92	191.161	
6,300.0	6,239.5	6,380.0	6,217.1	17.8	24.7	173.55	-6,158.2	1,276.2	6,483.8	6,449.9	33.92	191.154	
6,360.9	6,300.4	6,431.7	6,268.7	17.9	24.8	173.54	-6,158.1	1,277.4	6,483.8	6,449.7	34.11	190.072	
6,397.6	6,337.1	6,456.9	6,294.0	17.9	24.8	-6.68	-6,158.1	1,277.9	6,483.0	6,448.7	34.29	189.062	
6,400.0	6,339.5	6,458.6	6,295.6	17.9	24.8	-6.68	-6,158.1	1,278.0	6,482.9	6,448.6	34.30	189.019	
6,450.0	6,389.2	6,509.0	6,346.1	18.0	24.9	-6.74	-6,158.3	1,279.1	6,478.7	6,444.4	34.39	188.407	
6,496.0	6,434.7	6,530.5	6,367.5	18.0	24.9	-6.81	-6,158.4	1,279.5	6,471.9	6,437.6	34.29	188.724	
6,500.0	6,438.6	6,534.2	6,371.3	18.0	24.9	-6.82	-6,158.4	1,279.6	6,471.2	6,436.9	34.28	188.761	
6,550.0	6,487.3	6,581.5	6,418.5	18.0	25.0	-6.94	-6,158.7	1,280.5	6,460.3	6,426.2	34.06	189.648	
6,594.5	6,529.8	6,622.8	6,459.8	18.0	25.0	-7.09	-6,158.9	1,281.2	6,447.8	6,414.1	33.75	191.066	
6,600.0	6,535.1	6,627.9	6,464.9	18.1	25.0	-7.11	-6,159.0	1,281.3	6,446.1	6,412.4	33.70	191.282	
6,650.0	6,581.7	6,669.1	6,506.2	18.0	25.1	-7.32	-6,159.2	1,281.9	6,428.6	6,395.4	33.18	193.722	
6,692.9	6,620.6	6,702.8	6,539.8	18.0	25.1	-7.54	-6,159.5	1,282.4	6,411.1	6,378.4	32.63	196.459	
6,700.0	6,626.9	6,708.2	6,545.3	18.0	25.1	-7.58	-6,159.6	1,282.5	6,407.9	6,375.4	32.53	196.968	
6,750.0	6,670.6	6,746.0	6,583.1	18.0	25.2	-7.90	-6,159.9	1,283.1	6,384.2	6,352.5	31.75	201.048	
6,791.3	6,705.4	6,777.2	6,614.2	18.0	25.2	-8.22	-6,160.2	1,283.6	6,362.4	6,331.4	31.03	205.064	
6,800.0	6,712.5	6,783.9	6,620.9	18.0	25.2	-8.30	-6,160.2	1,283.7	6,357.6	6,326.7	30.87	205.977	
6,850.0	6,752.3	6,821.6	6,658.6	18.0	25.3	-8.77	-6,160.6	1,284.3	6,328.1	6,298.2	29.88	211.784	
6,889.7	6,782.5	6,850.2	6,687.2	18.0	25.3	-9.23	-6,160.9	1,284.8	6,302.7	6,273.7	29.04	217.049	
6,900.0	6,790.0	6,857.4	6,694.4	18.0	25.3	-9.36	-6,161.0	1,284.9	6,295.9	6,267.1	28.82	218.494	
6,950.0	6,825.3	6,894.0	6,731.0	18.0	25.4	-10.07	-6,161.4	1,285.5	6,261.2	6,233.5	27.70	226.021	
6,988.2	6,850.5	6,923.7	6,760.7	17.9	25.4	-10.73	-6,161.7	1,285.9	6,233.1	6,206.2	26.84	232.211	
7,000.0	6,858.0	6,933.9	6,770.8	17.9	25.4	-10.96	-6,161.8	1,286.1	6,224.1	6,197.5	26.58	234.162	
7,050.0	6,888.0	6,976.9	6,813.9	18.0	25.5	-12.10	-6,162.2	1,286.7	6,184.7	6,159.2	25.50	242.516	
7,086.6	6,908.1	7,006.0	6,843.0	18.0	25.5	-13.12	-6,162.4	1,287.1	6,154.6	6,129.8	24.78	248.320	
7,100.0	6,915.1	7,016.1	6,853.0	18.0	25.5	-13.54	-6,162.4	1,287.2	6,143.3	6,118.7	24.53	250.415	
7,150.0	6,939.2	7,022.0	6,859.0	18.0	25.6	-15.28	-6,162.5	1,287.3	6,100.0	6,076.3	23.72	257.201	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
7,185.0	6,954.3	7,048.0	6,885.0	18.1	25.6	-16.95	-6,162.6	1,287.6	6,068.8	6,045.4	23.41	259.208	
7,200.0	6,960.3	7,052.5	6,889.4	18.1	25.6	-17.75	-6,162.7	1,287.7	6,055.2	6,031.9	23.34	259.457	
7,250.0	6,978.1	7,065.8	6,902.8	18.3	25.6	-21.05	-6,162.8	1,287.9	6,009.0	5,985.5	23.55	255.183	
7,283.4	6,988.2	7,073.4	6,910.4	18.4	25.6	-24.03	-6,162.8	1,288.0	5,977.5	5,953.3	24.22	246.793	
7,300.0	6,992.6	7,076.8	6,913.7	18.4	25.6	-25.83	-6,162.8	1,288.0	5,961.7	5,937.0	24.76	240.773	
7,350.0	7,003.7	7,085.3	6,922.3	18.7	25.6	-33.15	-6,162.9	1,288.1	5,913.5	5,886.0	27.54	214.750	
7,381.9	7,009.1	7,089.4	6,926.4	18.9	25.6	-40.03	-6,163.0	1,288.2	5,882.4	5,852.0	30.43	193.307	
7,400.0	7,011.4	7,091.3	6,928.3	19.0	25.6	-45.09	-6,163.0	1,288.2	5,864.6	5,832.1	32.50	180.437	
7,450.0	7,015.7	7,094.8	6,931.8	19.3	25.6	-65.04	-6,163.0	1,288.3	5,815.3	5,776.3	39.04	148.975	
7,480.3	7,016.6	7,095.7	6,932.7	19.6	25.6	-81.70	-6,163.0	1,288.3	5,785.3	5,743.7	41.55	139.227	
7,488.2	7,016.6	7,095.8	6,932.8	19.6	25.6	-86.38	-6,163.0	1,288.3	5,777.5	5,735.8	41.70	138.532	
7,500.0	7,016.6	7,095.8	6,932.8	19.7	25.6	-86.38	-6,163.0	1,288.3	5,765.8	5,724.0	41.82	137.869	
7,578.7	7,016.3	7,096.2	6,933.2	20.5	25.6	-86.41	-6,163.0	1,288.3	5,687.8	5,645.1	42.65	133.359	
7,600.0	7,016.2	7,096.3	6,933.3	20.7	25.6	-86.42	-6,163.0	1,288.3	5,666.7	5,623.8	42.87	132.170	
7,677.1	7,016.0	7,096.7	6,933.7	21.6	25.7	-86.45	-6,163.0	1,288.3	5,590.2	5,546.5	43.79	127.668	
7,700.0	7,015.9	7,096.8	6,933.8	21.8	25.7	-86.46	-6,163.0	1,288.3	5,567.6	5,523.5	44.06	126.370	
7,775.6	7,015.7	7,097.2	6,934.2	22.7	25.7	-86.49	-6,163.0	1,288.3	5,492.8	5,447.7	45.04	121.953	
7,800.0	7,015.6	7,097.3	6,934.3	23.0	25.7	-86.50	-6,163.0	1,288.3	5,468.6	5,423.2	45.36	120.566	
7,874.0	7,015.4	7,097.7	6,934.7	24.0	25.7	-86.53	-6,163.0	1,288.3	5,395.3	5,348.9	46.39	116.302	
7,900.0	7,015.3	7,097.9	6,934.8	24.4	25.7	-86.54	-6,163.0	1,288.3	5,369.6	5,322.8	46.75	114.849	
7,972.4	7,015.1	7,098.2	6,935.2	25.4	25.7	-86.56	-6,163.0	1,288.3	5,297.9	5,250.1	47.82	110.783	
8,000.0	7,015.0	7,098.4	6,935.3	25.8	25.7	-86.58	-6,163.0	1,288.3	5,270.6	5,222.4	48.23	109.283	
8,070.8	7,014.8	7,098.7	6,935.7	26.8	25.7	-86.60	-6,163.1	1,288.3	5,200.5	5,151.2	49.32	105.441	
8,100.0	7,014.7	7,098.9	6,935.8	27.3	25.7	-86.62	-6,163.1	1,288.3	5,171.7	5,121.9	49.77	103.909	
8,169.3	7,014.4	7,099.2	6,936.2	28.3	25.7	-86.64	-6,163.1	1,288.3	5,103.2	5,052.3	50.88	100.302	
8,200.0	7,014.4	7,099.4	6,936.4	28.8	25.7	-86.66	-6,163.1	1,288.3	5,072.8	5,021.4	51.37	98.752	
8,267.7	7,014.1	7,099.8	6,936.7	29.9	25.7	-86.68	-6,163.1	1,288.3	5,005.9	4,953.4	52.48	95.383	
8,300.0	7,014.0	7,099.9	6,936.9	30.4	25.7	-86.70	-6,163.1	1,288.3	4,974.0	4,921.0	53.01	93.826	
8,366.1	7,013.8	7,100.3	6,937.2	31.5	25.7	-86.72	-6,163.1	1,288.3	4,908.6	4,854.5	54.13	90.690	
8,400.0	7,013.7	7,100.5	6,937.4	32.0	25.7	-86.74	-6,163.1	1,288.3	4,875.2	4,820.5	54.70	89.133	
8,464.5	7,013.5	7,100.8	6,937.8	33.1	25.7	-86.76	-6,163.1	1,288.4	4,811.5	4,755.6	55.80	86.222	
8,500.0	7,013.4	7,101.0	6,938.0	33.7	25.7	-86.78	-6,163.1	1,288.4	4,776.5	4,720.0	56.41	84.671	
8,563.0	7,013.2	7,101.3	6,938.3	34.8	25.7	-86.80	-6,163.1	1,288.4	4,714.3	4,656.8	57.51	81.974	
8,600.0	7,013.1	7,101.5	6,938.5	35.4	25.7	-86.82	-6,163.1	1,288.4	4,677.8	4,619.6	58.16	80.435	
8,661.4	7,012.9	7,101.9	6,938.8	36.5	25.7	-86.84	-6,163.1	1,288.4	4,617.2	4,558.0	59.24	77.939	
8,700.0	7,012.8	7,102.1	6,939.0	37.1	25.7	-86.86	-6,163.1	1,288.4	4,579.1	4,519.2	59.92	76.416	
8,759.8	7,012.6	7,102.4	6,939.4	38.2	25.7	-86.88	-6,163.1	1,288.4	4,520.2	4,459.2	60.99	74.109	
8,800.0	7,012.4	7,102.6	6,939.6	38.9	25.7	-86.90	-6,163.1	1,288.4	4,480.6	4,418.9	61.71	72.604	
8,858.2	7,012.3	7,103.0	6,939.9	39.9	25.7	-86.93	-6,163.1	1,288.4	4,423.2	4,360.4	62.76	70.473	
8,900.0	7,012.1	7,103.2	6,940.1	40.7	25.7	-86.94	-6,163.1	1,288.4	4,382.1	4,318.6	63.52	68.988	
8,956.7	7,011.9	7,103.5	6,940.5	41.7	25.7	-86.97	-6,163.1	1,288.4	4,326.3	4,261.7	64.55	67.020	
9,000.0	7,011.8	7,103.7	6,940.7	42.4	25.7	-86.99	-6,163.1	1,288.4	4,283.7	4,218.3	65.34	65.558	
9,055.1	7,011.6	7,104.1	6,941.0	43.4	25.7	-87.01	-6,163.1	1,288.4	4,229.5	4,163.1	66.35	63.742	
9,100.0	7,011.5	7,104.3	6,941.3	44.2	25.7	-87.03	-6,163.1	1,288.4	4,185.3	4,118.1	67.18	62.302	
9,153.5	7,011.3	7,104.6	6,941.6	45.2	25.7	-87.05	-6,163.1	1,288.4	4,132.7	4,064.5	68.17	60.626	
9,200.0	7,011.2	7,104.9	6,941.8	46.1	25.7	-87.07	-6,163.1	1,288.4	4,087.0	4,018.0	69.03	59.210	
9,251.9	7,011.0	7,105.2	6,942.1	47.0	25.7	-87.10	-6,163.1	1,288.4	4,036.0	3,966.0	69.99	57.665	
9,300.0	7,010.9	7,105.5	6,942.4	47.9	25.7	-87.12	-6,163.1	1,288.4	3,988.8	3,917.9	70.88	56.273	
9,350.4	7,010.7	7,105.7	6,942.7	48.8	25.7	-87.14	-6,163.1	1,288.4	3,939.4	3,867.6	71.83	54.847	
9,400.0	7,010.5	7,106.0	6,943.0	49.7	25.7	-87.16	-6,163.1	1,288.4	3,890.7	3,818.0	72.75	53.479	
9,448.8	7,010.4	7,106.3	6,943.3	50.6	25.7	-87.18	-6,163.1	1,288.4	3,842.9	3,769.2	73.67	52.165	
9,500.0	7,010.2	7,106.6	6,943.6	51.6	25.7	-87.21	-6,163.1	1,288.4	3,792.7	3,718.1	74.63	50.821	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	7,010.1	7,106.9	6,943.9	52.5	25.7	-87.23	-6,163.1	1,288.4	3,746.5	3,671.0	75.52	49.610	
9,600.0	7,009.9	7,107.2	6,944.2	53.5	25.7	-87.25	-6,163.1	1,288.4	3,694.8	3,618.3	76.51	48.291	
9,645.6	7,009.8	7,107.5	6,944.4	54.3	25.7	-87.27	-6,163.1	1,288.4	3,650.2	3,572.8	77.38	47.175	
9,700.0	7,009.6	7,107.8	6,944.8	55.3	25.7	-87.30	-6,163.1	1,288.4	3,597.1	3,518.7	78.40	45.879	
9,744.1	7,009.4	7,108.1	6,945.0	56.2	25.7	-87.32	-6,163.1	1,288.5	3,554.0	3,474.8	79.24	44.851	
9,800.0	7,009.3	7,108.4	6,945.4	57.2	25.7	-87.34	-6,163.2	1,288.5	3,499.4	3,419.1	80.30	43.579	
9,842.5	7,009.1	7,108.7	6,945.6	58.0	25.7	-87.36	-6,163.2	1,288.5	3,458.0	3,376.8	81.11	42.634	
9,900.0	7,008.9	7,109.0	6,946.0	59.1	25.7	-87.39	-6,163.2	1,288.5	3,401.9	3,319.7	82.20	41.384	
9,940.9	7,008.8	7,109.3	6,946.2	59.9	25.7	-87.41	-6,163.2	1,288.5	3,362.0	3,279.0	82.98	40.515	
10,000.0	7,008.6	7,109.6	6,946.6	61.0	25.7	-87.44	-6,163.2	1,288.5	3,304.5	3,220.4	84.11	39.288	
10,039.3	7,008.5	7,109.9	6,946.8	61.7	25.7	-87.45	-6,163.2	1,288.5	3,266.3	3,181.4	84.86	38.489	
10,100.0	7,008.3	7,110.2	6,947.2	62.9	25.7	-87.48	-6,163.2	1,288.5	3,207.3	3,121.3	86.02	37.285	
10,137.8	7,008.2	7,110.5	6,947.4	63.6	25.7	-87.50	-6,163.2	1,288.5	3,170.7	3,083.9	86.75	36.551	
10,200.0	7,008.0	7,110.9	6,947.8	64.8	25.7	-87.53	-6,163.2	1,288.5	3,110.3	3,022.4	87.94	35.369	
10,236.2	7,007.9	7,111.1	6,948.1	65.5	25.7	-87.55	-6,163.2	1,288.5	3,075.2	2,986.6	88.63	34.696	
10,300.0	7,007.6	7,111.5	6,948.5	66.7	25.7	-87.58	-6,163.2	1,288.5	3,013.5	2,923.6	89.86	33.536	
10,334.6	7,007.5	7,111.7	6,948.7	67.3	25.7	-87.59	-6,163.2	1,288.5	2,980.0	2,889.5	90.52	32.919	
10,400.0	7,007.3	7,112.1	6,949.1	68.6	25.7	-87.63	-6,163.2	1,288.5	2,916.8	2,825.1	91.78	31.781	
10,433.0	7,007.2	7,112.4	6,949.3	69.2	25.7	-87.64	-6,163.2	1,288.5	2,885.0	2,792.5	92.42	31.217	
10,500.0	7,007.0	7,112.8	6,949.7	70.5	25.7	-87.68	-6,163.2	1,288.5	2,820.5	2,726.8	93.71	30.099	
10,531.5	7,006.9	7,113.0	6,950.0	71.1	25.7	-87.69	-6,163.2	1,288.5	2,790.2	2,695.9	94.31	29.584	
10,600.0	7,006.7	7,113.4	6,950.4	72.4	25.7	-87.72	-6,163.2	1,288.5	2,724.3	2,628.7	95.64	28.486	
10,629.9	7,006.6	7,113.6	6,950.6	73.0	25.7	-87.74	-6,163.2	1,288.5	2,695.7	2,599.4	96.21	28.017	
10,700.0	7,006.4	7,114.1	6,951.1	74.3	25.7	-87.77	-6,163.2	1,288.5	2,628.5	2,530.9	97.57	26.940	
10,728.3	7,006.3	7,114.3	6,951.2	74.9	25.7	-87.79	-6,163.2	1,288.5	2,601.4	2,503.3	98.12	26.513	
10,800.0	7,006.0	7,114.8	6,951.7	76.3	25.7	-87.82	-6,163.2	1,288.5	2,533.0	2,433.5	99.50	25.456	
10,826.7	7,005.9	7,114.9	6,951.9	76.8	25.7	-87.84	-6,163.2	1,288.5	2,507.5	2,407.5	100.02	25.070	
10,900.0	7,005.7	7,115.4	6,952.4	78.2	25.7	-87.88	-6,163.2	1,288.6	2,437.8	2,336.4	101.44	24.032	
10,925.2	7,005.6	7,115.6	6,952.6	78.7	25.7	-87.89	-6,163.2	1,288.6	2,413.9	2,312.0	101.93	23.683	
11,000.0	7,005.4	7,116.1	6,953.1	80.1	25.7	-87.93	-6,163.2	1,288.6	2,343.1	2,239.7	103.38	22.665	
11,023.6	7,005.3	7,116.3	6,953.2	80.6	25.7	-87.94	-6,163.2	1,288.6	2,320.8	2,217.0	103.84	22.350	
11,100.0	7,005.1	7,116.8	6,953.7	82.0	25.7	-87.98	-6,163.2	1,288.6	2,248.8	2,143.5	105.32	21.352	
11,122.0	7,005.0	7,116.9	6,953.9	82.5	25.7	-87.99	-6,163.2	1,288.6	2,228.1	2,122.3	105.75	21.070	
11,200.0	7,004.7	7,117.5	6,954.4	84.0	25.7	-88.03	-6,163.3	1,288.6	2,155.0	2,047.7	107.26	20.091	
11,220.4	7,004.7	7,117.6	6,954.6	84.4	25.7	-88.04	-6,163.3	1,288.6	2,135.9	2,028.2	107.66	19.839	
11,300.0	7,004.4	7,118.2	6,955.1	85.9	25.7	-88.08	-6,163.3	1,288.6	2,061.8	1,952.6	109.21	18.880	
11,318.9	7,004.4	7,118.3	6,955.3	86.3	25.7	-88.09	-6,163.3	1,288.6	2,044.3	1,934.7	109.57	18.657	
11,400.0	7,004.1	7,118.9	6,955.8	87.8	25.7	-88.14	-6,163.3	1,288.6	1,969.3	1,858.1	111.15	17.717	
11,417.3	7,004.0	7,119.0	6,956.0	88.2	25.7	-88.15	-6,163.3	1,288.6	1,953.3	1,841.9	111.49	17.520	
11,500.0	7,003.8	7,119.6	6,956.5	89.8	25.7	-88.19	-6,163.3	1,288.6	1,877.5	1,764.4	113.10	16.600	
11,515.7	7,003.7	7,119.7	6,956.7	90.1	25.7	-88.20	-6,163.3	1,288.6	1,863.2	1,749.8	113.41	16.429	
11,600.0	7,003.4	7,120.3	6,957.3	91.7	25.7	-88.24	-6,163.3	1,288.6	1,786.6	1,671.6	115.05	15.529	
11,614.1	7,003.4	7,120.4	6,957.4	92.0	25.7	-88.25	-6,163.3	1,288.6	1,773.9	1,658.5	115.33	15.381	
11,700.0	7,003.1	7,121.0	6,958.0	93.7	25.7	-88.30	-6,163.3	1,288.6	1,696.8	1,579.8	117.00	14.502	
11,712.6	7,003.1	7,121.1	6,958.1	93.9	25.7	-88.31	-6,163.3	1,288.6	1,685.6	1,568.3	117.25	14.376	
11,800.0	7,002.8	7,121.8	6,958.7	95.6	25.7	-88.35	-6,163.3	1,288.6	1,608.1	1,489.2	118.95	13.519	
11,811.0	7,002.7	7,121.8	6,958.8	95.8	25.7	-88.36	-6,163.3	1,288.6	1,598.5	1,479.3	119.17	13.414	
11,900.0	7,002.5	7,122.5	6,959.5	97.6	25.7	-88.41	-6,163.3	1,288.7	1,520.9	1,400.0	120.91	12.579	
11,909.4	7,002.4	7,122.6	6,959.5	97.7	25.7	-88.42	-6,163.3	1,288.7	1,512.7	1,391.6	121.09	12.493	
12,000.0	7,002.1	7,123.3	6,960.2	99.5	25.7	-88.47	-6,163.3	1,288.7	1,435.3	1,312.4	122.86	11.682	
12,007.8	7,002.1	7,123.3	6,960.3	99.7	25.7	-88.47	-6,163.3	1,288.7	1,428.6	1,305.6	123.01	11.614	
12,100.0	7,001.8	7,124.0	6,961.0	101.5	25.7	-88.52	-6,163.3	1,288.7	1,351.7	1,226.9	124.81	10.830	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	7,001.8	7,124.1	6,961.0	101.6	25.7	-88.53	-6,163.3	1,288.7	1,346.5	1,221.6	124.94	10.778	
12,200.0	7,001.5	7,124.8	6,961.7	103.4	25.7	-88.58	-6,163.3	1,288.7	1,270.4	1,143.7	126.77	10.022	
12,204.7	7,001.5	7,124.8	6,961.8	103.5	25.7	-88.58	-6,163.3	1,288.7	1,266.7	1,139.8	126.86	9.985	
12,300.0	7,001.2	7,125.6	6,962.5	105.3	25.7	-88.64	-6,163.3	1,288.7	1,192.1	1,063.3	128.73	9.260	
12,303.1	7,001.1	7,125.6	6,962.5	105.4	25.7	-88.64	-6,163.3	1,288.7	1,189.7	1,060.9	128.79	9.237	
12,400.0	7,000.8	7,126.3	6,963.3	107.3	25.7	-88.70	-6,163.4	1,288.7	1,117.1	986.5	130.68	8.548	
12,401.5	7,000.8	7,126.4	6,963.3	107.3	25.7	-88.70	-6,163.4	1,288.7	1,116.0	985.3	130.71	8.538	
12,500.0	7,000.5	7,127.1	6,964.1	109.3	25.7	-88.76	-6,163.4	1,288.7	1,046.4	913.8	132.64	7.889	
12,598.4	7,000.2	7,127.9	6,964.9	111.2	25.7	-88.82	-6,163.4	1,288.7	981.8	847.2	134.57	7.296	
12,600.0	7,000.2	7,127.9	6,964.9	111.2	25.7	-88.82	-6,163.4	1,288.7	980.8	846.2	134.60	7.287	
12,696.8	6,999.8	7,128.7	6,965.7	113.1	25.7	-88.88	-6,163.4	1,288.7	923.2	786.7	136.50	6.763	
12,700.0	6,999.8	7,128.7	6,965.7	113.2	25.7	-88.88	-6,163.4	1,288.7	921.4	784.8	136.56	6.747	
12,795.2	6,999.5	7,129.5	6,966.5	115.0	25.7	-88.94	-6,163.4	1,288.7	871.7	733.3	138.43	6.297	
12,800.0	6,999.5	7,129.6	6,966.5	115.1	25.7	-88.94	-6,163.4	1,288.7	869.4	730.9	138.52	6.277	
12,893.7	6,999.2	7,130.3	6,967.3	116.9	25.7	-89.00	-6,163.4	1,288.8	828.8	688.5	140.36	5.905	
12,900.0	6,999.2	7,130.4	6,967.3	117.1	25.7	-89.00	-6,163.4	1,288.8	826.4	685.9	140.48	5.882	
12,992.1	6,998.9	7,131.2	6,968.1	118.9	25.7	-89.06	-6,163.4	1,288.8	795.8	653.5	142.29	5.593	
13,000.0	6,998.8	7,131.2	6,968.2	119.0	25.7	-89.07	-6,163.4	1,288.8	793.7	651.2	142.44	5.572	
13,090.5	6,998.6	7,132.0	6,968.9	120.8	25.7	-89.12	-6,163.4	1,288.8	774.0	629.8	144.22	5.367	
13,100.0	6,998.5	7,132.1	6,969.0	121.0	25.7	-89.13	-6,163.4	1,288.8	772.6	628.2	144.41	5.350	
13,188.9	6,998.2	7,132.8	6,969.8	122.7	25.7	-89.19	-6,163.4	1,288.8	764.4	618.2	146.15	5.230	
13,200.0	6,998.2	7,132.9	6,969.9	122.9	25.7	-89.19	-6,163.4	1,288.8	764.1	617.7	146.37	5.220	
13,215.1	6,998.1	7,133.0	6,970.0	123.2	25.7	-89.20	-6,163.4	1,288.8	763.9	617.3	146.66	5.209 CC, ES	
13,287.4	6,997.9	7,133.7	6,970.6	124.6	25.7	-89.25	-6,163.4	1,288.8	767.3	619.3	148.08	5.182 SF	
13,300.0	6,997.9	7,133.8	6,970.7	124.9	25.7	-89.26	-6,163.4	1,288.8	768.6	620.3	148.33	5.182	
13,385.8	6,997.6	7,134.5	6,971.5	126.6	25.7	-89.31	-6,163.4	1,288.8	782.8	632.8	150.02	5.218	
13,400.0	6,997.5	7,134.7	6,971.6	126.9	25.7	-89.32	-6,163.5	1,288.8	786.0	635.7	150.29	5.230	
13,484.2	6,997.3	7,135.4	6,972.4	128.5	25.7	-89.38	-6,163.5	1,288.8	809.9	658.0	151.95	5.330	
13,500.0	6,997.2	7,135.5	6,972.5	128.8	25.7	-89.39	-6,163.5	1,288.8	815.3	663.1	152.26	5.355	
13,582.6	6,996.9	7,136.3	6,973.2	130.4	25.7	-89.44	-6,163.5	1,288.8	847.7	693.9	153.88	5.509	
13,600.0	6,996.9	7,136.4	6,973.4	130.8	25.7	-89.46	-6,163.5	1,288.8	855.4	701.2	154.22	5.547	
13,681.1	6,996.6	7,137.2	6,974.1	132.4	25.7	-89.51	-6,163.5	1,288.9	894.8	739.0	155.81	5.743	
13,700.0	6,996.5	7,137.3	6,974.3	132.7	25.7	-89.52	-6,163.5	1,288.9	904.8	748.6	156.19	5.793	
13,779.5	6,996.3	7,138.1	6,975.0	134.3	25.7	-89.58	-6,163.5	1,288.9	949.8	792.0	157.75	6.021	
13,800.0	6,996.2	7,138.3	6,975.2	134.7	25.7	-89.59	-6,163.5	1,288.9	962.1	804.0	158.15	6.083	
13,877.9	6,995.9	7,139.0	6,975.9	136.2	25.7	-89.65	-6,163.5	1,288.9	1,011.4	851.7	159.68	6.334	
13,900.0	6,995.9	7,139.2	6,976.1	136.7	25.7	-89.66	-6,163.5	1,288.9	1,026.0	865.8	160.11	6.408	
13,976.3	6,995.6	7,139.9	6,976.9	138.2	25.7	-89.72	-6,163.5	1,288.9	1,078.4	916.8	161.61	6.673	
14,000.0	6,995.5	7,140.1	6,977.1	138.6	25.7	-89.73	-6,163.5	1,288.9	1,095.2	933.2	162.08	6.757	
14,074.8	6,995.3	7,140.8	6,977.8	140.1	25.7	-89.79	-6,163.5	1,288.9	1,150.0	986.5	163.55	7.032	
14,100.0	6,995.2	7,141.1	6,978.0	140.6	25.7	-89.80	-6,163.5	1,288.9	1,169.0	1,004.9	164.04	7.126	
14,162.0	6,995.0	7,141.7	6,978.6	141.8	25.7	-89.85	-6,163.5	1,288.9	1,216.6	1,051.4	165.22	7.363	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	172.02	-5,114.8	716.7	5,164.9				
98.4	98.4	99.1	99.1	0.1	0.1	172.02	-5,114.7	716.6	5,164.7	5,164.5	0.18	N/A	
100.0	100.0	101.0	101.0	0.1	0.1	172.02	-5,114.7	716.6	5,164.7	5,164.5	0.18	N/A	
196.8	196.8	219.5	219.5	0.3	0.2	172.03	-5,114.1	715.9	5,164.1	5,163.6	0.50	N/A	
200.0	200.0	223.4	223.4	0.3	0.2	172.03	-5,114.1	715.8	5,164.1	5,163.6	0.51	N/A	
295.3	295.3	294.5	294.5	0.5	0.3	172.04	-5,113.6	715.3	5,163.4	5,162.6	0.83	6,233.234	
300.0	300.0	297.0	297.0	0.5	0.3	172.04	-5,113.6	715.2	5,163.4	5,162.6	0.84	6,117.696	
330.8	330.8	313.3	313.3	0.6	0.3	172.04	-5,113.6	715.2	5,163.4	5,162.4	0.95	5,458.374	
393.7	393.7	351.0	351.0	0.8	0.4	172.04	-5,113.8	715.0	5,163.6	5,162.4	1.16	4,438.451	
400.0	400.0	351.0	351.0	0.8	0.4	172.04	-5,113.8	715.0	5,163.6	5,162.4	1.18	4,385.106	
492.1	492.1	399.6	399.6	1.0	0.5	172.04	-5,114.3	715.1	5,164.6	5,163.1	1.48	3,479.169	
500.0	500.0	403.8	403.8	1.0	0.5	172.04	-5,114.3	715.1	5,164.7	5,163.2	1.51	3,418.341	
590.5	590.5	479.0	479.0	1.2	0.7	172.04	-5,115.9	715.4	5,166.5	5,164.7	1.87	2,763.776	
600.0	600.0	479.0	479.0	1.2	0.7	172.04	-5,115.9	715.4	5,166.7	5,164.8	1.89	2,732.822	
689.0	689.0	479.0	479.0	1.4	0.7	172.04	-5,115.9	715.4	5,169.3	5,167.2	2.09	2,472.621	
700.0	700.0	479.0	479.0	1.4	0.7	172.04	-5,115.9	715.4	5,169.7	5,167.6	2.12	2,443.856	
787.4	787.4	541.4	541.3	1.6	0.8	172.03	-5,118.0	716.4	5,173.0	5,170.5	2.45	2,109.619	
800.0	800.0	546.7	546.6	1.7	0.8	172.03	-5,118.3	716.6	5,173.5	5,171.1	2.49	2,075.780	
885.8	885.8	607.0	606.8	1.9	1.0	172.01	-5,121.2	718.6	5,178.0	5,175.2	2.82	1,835.552	
900.0	900.0	607.0	606.8	1.9	1.0	172.01	-5,121.2	718.6	5,178.7	5,175.9	2.85	1,815.310	
984.2	984.2	607.0	606.8	2.1	1.0	172.01	-5,121.2	718.6	5,183.9	5,180.9	3.04	1,704.011	
1,000.0	1,000.0	607.0	606.8	2.1	1.0	172.01	-5,121.2	718.6	5,185.0	5,181.9	3.08	1,684.774	
1,082.7	1,082.7	666.0	665.6	2.3	1.1	171.99	-5,125.2	721.4	5,191.1	5,187.7	3.41	1,522.825	
1,100.0	1,100.0	666.0	665.6	2.3	1.1	171.99	-5,125.2	721.4	5,192.5	5,189.0	3.45	1,506.021	
1,181.1	1,181.1	706.4	705.8	2.5	1.2	109.27	-5,128.4	723.6	5,199.7	5,196.0	3.71	1,400.731	
1,200.0	1,200.0	726.0	725.3	2.6	1.3	109.23	-5,129.9	724.8	5,201.6	5,197.8	3.80	1,369.057	
1,279.5	1,279.4	726.0	725.3	2.7	1.3	109.06	-5,129.9	724.8	5,210.5	5,206.5	3.97	1,311.102	
1,300.0	1,299.8	726.0	725.3	2.8	1.3	109.01	-5,129.9	724.8	5,213.1	5,209.0	4.02	1,297.091	
1,377.9	1,377.5	782.0	780.9	3.0	1.4	108.83	-5,135.1	728.6	5,223.2	5,218.9	4.33	1,204.991	
1,400.0	1,399.5	789.3	788.2	3.0	1.4	108.77	-5,135.9	729.1	5,226.4	5,222.0	4.40	1,186.996	
1,476.4	1,475.3	854.0	852.3	3.2	1.6	108.58	-5,143.3	734.3	5,238.8	5,234.1	4.75	1,103.738	
1,500.0	1,498.7	854.0	852.3	3.2	1.6	108.51	-5,143.3	734.3	5,242.6	5,237.8	4.80	1,091.154	
1,574.8	1,572.6	854.0	852.3	3.5	1.6	108.25	-5,143.3	734.3	5,255.8	5,250.8	5.01	1,049.668	
1,600.0	1,597.5	854.0	852.3	3.5	1.6	108.16	-5,143.3	734.3	5,260.6	5,255.5	5.08	1,036.455	
1,673.2	1,669.4	854.0	852.3	3.7	1.6	107.87	-5,143.3	734.3	5,275.6	5,270.3	5.30	995.637	
1,700.0	1,695.7	854.0	852.3	3.8	1.6	107.75	-5,143.3	734.3	5,281.5	5,276.1	5.38	981.539	
1,771.6	1,765.7	911.7	909.2	4.1	1.8	107.83	-5,151.2	739.7	5,297.0	5,291.2	5.78	916.920	
1,800.0	1,793.4	920.9	918.2	4.2	1.9	107.84	-5,152.5	740.7	5,303.4	5,297.5	5.90	899.365	
1,870.1	1,862.0	983.0	979.1	4.4	2.1	107.92	-5,162.4	748.0	5,320.2	5,313.9	6.31	842.901	
1,900.0	1,891.3	983.0	979.1	4.5	2.1	107.92	-5,162.4	748.0	5,327.1	5,320.7	6.42	830.139	
1,968.5	1,958.3	983.0	979.1	4.8	2.1	107.92	-5,162.4	748.0	5,343.7	5,337.0	6.67	801.328	
2,000.0	1,989.1	983.0	979.1	4.9	2.1	107.92	-5,162.4	748.0	5,351.5	5,344.8	6.78	788.771	
2,066.9	2,054.5	983.0	979.1	5.2	2.1	107.92	-5,162.4	748.0	5,368.9	5,361.8	7.04	762.809	
2,100.0	2,086.9	983.0	979.1	5.3	2.1	107.92	-5,162.4	748.0	5,377.7	5,370.5	7.16	750.674	
2,165.3	2,150.8	1,030.6	1,025.4	5.6	2.3	107.97	-5,170.9	754.3	5,395.0	5,387.4	7.56	713.483	
2,200.0	2,184.7	1,040.0	1,034.6	5.7	2.4	107.98	-5,172.7	755.5	5,404.5	5,396.8	7.72	699.653	
2,263.8	2,247.1	1,057.3	1,051.4	5.9	2.4	107.99	-5,176.1	758.0	5,422.5	5,414.4	8.03	675.362	
2,300.0	2,282.5	1,111.0	1,103.3	6.1	2.7	108.04	-5,187.6	765.8	5,433.5	5,425.2	8.33	652.009	
2,362.2	2,343.4	1,111.0	1,103.3	6.4	2.7	108.04	-5,187.6	765.8	5,451.3	5,442.8	8.58	635.101	
2,400.0	2,380.3	1,111.0	1,103.3	6.5	2.7	108.04	-5,187.6	765.8	5,462.5	5,453.8	8.74	625.328	
2,460.6	2,439.6	1,111.0	1,103.3	6.8	2.7	108.04	-5,187.6	765.8	5,480.9	5,471.9	8.98	610.201	
2,500.0	2,478.1	1,111.0	1,103.3	6.9	2.7	108.04	-5,187.6	765.8	5,493.2	5,484.1	9.14	600.844	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	2,535.9	1,154.1	1,144.7	7.2	2.9	108.08	-5,197.4	772.5	5,511.7	5,502.2	9.52	578.695	
2,600.0	2,576.0	1,172.6	1,162.5	7.4	3.0	108.09	-5,201.7	775.5	5,524.8	5,515.0	9.75	566.509	
2,657.5	2,632.2	1,198.5	1,187.2	7.6	3.2	108.11	-5,207.8	779.7	5,543.4	5,533.3	10.07	550.276	
2,700.0	2,673.8	1,240.0	1,226.9	7.8	3.4	108.14	-5,217.9	786.7	5,557.4	5,547.0	10.38	535.235	
2,755.9	2,728.4	1,240.0	1,226.9	8.0	3.4	108.14	-5,217.9	786.7	5,575.8	5,565.2	10.62	525.206	
2,800.0	2,771.6	1,240.0	1,226.9	8.2	3.4	108.14	-5,217.9	786.7	5,590.8	5,580.0	10.80	517.630	
2,854.3	2,824.7	1,278.9	1,264.0	8.4	3.6	108.16	-5,227.7	793.4	5,609.2	5,598.0	11.16	502.713	
2,900.0	2,869.4	1,295.9	1,280.1	8.6	3.7	108.17	-5,232.1	796.3	5,625.0	5,613.6	11.41	493.168	
2,952.7	2,921.0	1,315.4	1,298.6	8.9	3.8	108.19	-5,237.3	799.6	5,643.5	5,631.8	11.69	482.635	
3,000.0	2,967.2	1,368.0	1,348.4	9.1	4.2	108.22	-5,251.6	808.5	5,660.5	5,648.4	12.07	469.112	
3,051.2	3,017.3	1,368.0	1,348.4	9.3	4.2	108.22	-5,251.6	808.5	5,678.7	5,666.4	12.28	462.306	
3,100.0	3,065.0	1,368.0	1,348.4	9.5	4.2	108.22	-5,251.6	808.5	5,696.4	5,683.9	12.49	456.061	
3,149.6	3,113.5	1,368.0	1,348.4	9.7	4.2	108.22	-5,251.6	808.5	5,714.8	5,702.1	12.70	449.927	
3,200.0	3,162.8	1,413.4	1,391.3	9.9	4.4	108.25	-5,264.5	816.5	5,733.5	5,720.4	13.07	438.543	
3,248.0	3,209.8	1,434.4	1,410.9	10.2	4.6	108.26	-5,270.6	820.3	5,751.6	5,738.2	13.35	430.742	
3,300.0	3,260.7	1,457.0	1,432.1	10.4	4.7	108.28	-5,277.2	824.6	5,771.3	5,757.7	13.65	422.663	
3,346.4	3,306.1	1,496.0	1,468.6	10.6	5.0	108.29	-5,288.8	832.3	5,789.2	5,775.2	13.99	413.749	
3,400.0	3,358.5	1,496.0	1,468.6	10.8	5.0	108.29	-5,288.8	832.3	5,810.0	5,795.7	14.22	408.533	
3,444.9	3,402.4	1,496.0	1,468.6	11.0	5.0	108.29	-5,288.8	832.3	5,827.6	5,813.2	14.41	404.299	
3,500.0	3,456.3	1,538.0	1,507.7	11.3	5.3	108.31	-5,301.6	840.9	5,849.4	5,834.6	14.82	394.815	
3,543.3	3,498.6	1,554.5	1,523.0	11.5	5.4	108.31	-5,307.7	844.3	5,866.8	5,851.7	15.07	389.404	
3,600.0	3,554.1	1,576.0	1,542.9	11.7	5.6	108.32	-5,313.4	848.9	5,889.7	5,874.3	15.39	382.616	
3,641.7	3,594.9	1,625.0	1,588.0	11.9	6.0	108.33	-5,329.2	859.5	5,907.0	5,891.2	15.76	374.777	
3,700.0	3,651.9	1,625.0	1,588.0	12.2	6.0	108.33	-5,329.2	859.5	5,930.8	5,914.8	16.01	370.385	
3,740.1	3,691.2	1,635.3	1,597.5	12.3	6.0	108.33	-5,332.6	861.8	5,947.6	5,931.3	16.23	366.507	
3,800.0	3,749.7	1,696.7	1,653.9	12.6	6.5	108.33	-5,352.5	875.8	5,972.5	5,955.8	16.73	356.937	
3,838.6	3,787.5	1,736.3	1,690.2	12.8	6.8	108.33	-5,365.3	885.1	5,988.6	5,971.5	17.06	351.072	
3,900.0	3,847.5	1,753.0	1,705.5	13.0	6.9	108.33	-5,370.6	889.1	6,014.2	5,996.9	17.39	345.837	
3,937.0	3,883.7	1,753.0	1,705.5	13.2	6.9	108.33	-5,370.6	889.1	6,029.9	6,012.4	17.55	343.572	
4,000.0	3,945.4	1,805.5	1,753.4	13.5	7.4	108.33	-5,387.8	902.1	6,056.5	6,038.5	18.06	335.446	
4,035.4	3,980.0	1,818.2	1,764.9	13.7	7.5	108.32	-5,392.0	905.4	6,071.7	6,053.5	18.26	332.428	
4,068.9	4,012.7	1,830.2	1,775.8	13.8	7.6	108.32	-5,396.0	908.5	6,086.2	6,067.7	18.46	329.649	
4,100.0	4,043.2	1,841.3	1,785.8	13.9	7.6	108.60	-5,399.8	911.4	6,099.6	6,081.0	18.64	327.283	
4,133.8	4,076.4	1,882.0	1,822.5	14.0	8.0	108.89	-5,413.7	922.2	6,114.4	6,095.5	18.93	323.004	
4,200.0	4,141.6	1,882.0	1,822.5	14.2	8.0	109.48	-5,413.7	922.2	6,142.8	6,123.6	19.15	320.771	
4,232.3	4,173.4	1,882.0	1,822.5	14.3	8.0	109.77	-5,413.7	922.2	6,156.7	6,137.4	19.25	319.893	
4,300.0	4,240.5	1,882.0	1,822.5	14.5	8.0	110.38	-5,413.7	922.2	6,185.9	6,166.4	19.45	318.104	
4,330.7	4,271.0	1,925.1	1,861.1	14.6	8.4	110.60	-5,428.8	933.9	6,198.8	6,179.0	19.75	313.892	
4,400.0	4,339.9	1,950.6	1,883.8	14.8	8.6	111.17	-5,438.0	940.9	6,228.2	6,208.2	20.06	310.443	
4,429.1	4,368.9	1,961.2	1,893.3	14.8	8.7	111.40	-5,441.8	943.9	6,240.6	6,220.4	20.18	309.175	
4,500.0	4,439.6	2,010.0	1,936.6	15.0	9.2	111.92	-5,459.7	957.5	6,270.6	6,250.0	20.60	304.342	
4,527.5	4,467.1	2,010.0	1,936.6	15.0	9.2	112.16	-5,459.7	957.5	6,282.1	6,261.4	20.66	304.110	
4,600.0	4,539.5	2,010.0	1,936.6	15.1	9.2	112.77	-5,459.7	957.5	6,312.3	6,291.5	20.80	303.535	
4,626.0	4,565.4	2,010.0	1,936.6	15.2	9.2	112.99	-5,459.7	957.5	6,323.2	6,302.4	20.84	303.451	
4,668.9	4,608.4	2,010.0	1,936.6	15.2	9.2	175.93	-5,459.7	957.5	6,341.2	6,320.3	20.90	303.401	
4,700.0	4,639.5	2,058.6	1,979.4	15.3	9.6	175.80	-5,478.1	971.2	6,353.8	6,332.6	21.22	299.461	
4,724.4	4,663.9	2,067.2	1,987.0	15.3	9.7	175.78	-5,481.4	973.7	6,363.9	6,342.6	21.30	298.741	
4,800.0	4,739.5	2,093.8	2,010.3	15.4	10.0	175.71	-5,491.7	981.3	6,395.8	6,374.2	21.57	296.574	
4,822.8	4,762.3	2,138.0	2,048.9	15.4	10.4	175.60	-5,509.1	994.0	6,405.7	6,383.9	21.85	293.201	
4,900.0	4,839.5	2,138.0	2,048.9	15.6	10.4	175.60	-5,509.1	994.0	6,438.6	6,416.6	21.96	293.130	
4,921.2	4,860.7	2,138.0	2,048.9	15.6	10.4	175.60	-5,509.1	994.0	6,447.8	6,425.8	22.00	293.111	
5,000.0	4,939.5	2,247.1	2,143.8	15.7	11.4	175.32	-5,552.1	1,026.2	6,481.7	6,459.0	22.72	285.346	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	4,959.1	2,273.7	2,167.0	15.7	11.7	175.25	-5,562.4	1,034.2	6,490.2	6,467.3	22.89	283.557	
5,100.0	5,039.5	2,358.7	2,241.1	15.9	12.4	175.03	-5,595.3	1,059.6	6,524.5	6,501.0	23.45	278.241	
5,118.1	5,057.6	2,377.9	2,257.9	15.9	12.6	174.98	-5,602.8	1,065.3	6,532.2	6,508.6	23.58	277.074	
5,200.0	5,139.5	2,524.0	2,386.2	16.0	13.8	174.63	-5,658.9	1,106.9	6,566.7	6,542.3	24.42	268.878	
5,216.5	5,156.0	2,539.0	2,399.5	16.0	13.9	174.60	-5,664.6	1,111.1	6,573.6	6,549.0	24.53	268.022	
5,300.0	5,239.5	2,598.5	2,451.9	16.2	14.5	174.46	-5,687.2	1,127.5	6,608.5	6,583.5	24.96	264.725	
5,314.9	5,254.4	2,609.1	2,461.3	16.2	14.6	174.44	-5,691.3	1,130.5	6,614.7	6,589.7	25.04	264.148	
5,400.0	5,339.5	2,670.7	2,515.5	16.3	15.1	174.30	-5,714.9	1,147.6	6,650.5	6,625.0	25.50	260.824	
5,413.4	5,352.8	2,680.8	2,524.4	16.3	15.2	174.27	-5,718.8	1,150.4	6,656.2	6,630.6	25.57	260.263	
5,500.0	5,439.5	2,746.4	2,582.1	16.5	15.9	174.12	-5,744.0	1,168.8	6,692.8	6,666.8	26.07	256.733	
5,511.8	5,451.3	2,755.3	2,589.9	16.5	16.0	174.10	-5,747.5	1,171.3	6,697.8	6,671.7	26.14	256.263	
5,600.0	5,539.5	2,818.3	2,645.3	16.6	16.6	173.96	-5,771.8	1,188.9	6,735.4	6,708.8	26.61	253.099	
5,610.2	5,549.7	2,825.3	2,651.5	16.6	16.6	173.95	-5,774.5	1,190.8	6,739.8	6,713.1	26.66	252.757	
5,700.0	5,639.5	2,887.1	2,705.7	16.8	17.2	173.81	-5,798.6	1,208.0	6,778.3	6,751.1	27.13	249.827	
5,708.6	5,648.1	2,893.1	2,711.0	16.8	17.3	173.80	-5,800.9	1,209.6	6,782.0	6,754.8	27.18	249.550	
5,800.0	5,739.5	2,944.7	2,756.3	17.0	17.8	173.69	-5,821.2	1,223.9	6,821.5	6,793.9	27.60	247.169	
5,807.1	5,746.5	2,948.4	2,759.5	17.0	17.8	173.68	-5,822.7	1,225.0	6,824.6	6,796.9	27.63	247.001	
5,900.0	5,839.5	2,996.6	2,801.6	17.1	18.3	173.57	-5,841.7	1,238.8	6,865.2	6,837.2	28.04	244.859	
5,905.5	5,845.0	2,999.5	2,804.0	17.1	18.3	173.56	-5,842.8	1,239.6	6,867.7	6,839.6	28.06	244.735	
6,000.0	5,939.5	3,053.6	2,851.0	17.3	18.8	173.44	-5,864.4	1,255.7	6,909.5	6,881.0	28.50	242.405	
6,003.9	5,943.4	3,056.6	2,853.6	17.3	18.8	173.43	-5,865.6	1,256.6	6,911.2	6,882.7	28.53	242.274	
6,100.0	6,039.5	3,130.7	2,917.9	17.4	19.6	173.26	-5,895.2	1,278.6	6,954.0	6,924.9	29.08	239.131	
6,102.3	6,041.8	3,132.5	2,919.5	17.4	19.6	173.26	-5,895.9	1,279.1	6,955.1	6,926.0	29.09	239.056	
6,200.0	6,139.5	3,344.5	3,104.5	17.6	21.5	172.80	-5,979.4	1,340.0	6,997.8	6,967.5	30.31	230.861	
6,200.8	6,140.2	3,345.1	3,105.1	17.6	21.5	172.79	-5,979.6	1,340.2	6,998.1	6,967.8	30.32	230.836	
6,299.2	6,238.7	3,451.8	3,198.4	17.8	22.5	172.56	-6,020.6	1,371.7	7,040.6	7,009.6	31.01	227.012	
6,300.0	6,239.5	3,454.4	3,200.7	17.8	22.5	172.55	-6,021.6	1,372.5	7,041.0	7,009.9	31.03	226.919	
6,360.9	6,300.4	3,586.5	3,317.1	17.9	23.7	172.28	-6,071.4	1,410.2	7,066.7	7,034.9	31.77	222.402	
6,397.6	6,337.1	3,629.0	3,354.8	17.9	24.1	-7.84	-6,087.5	1,421.6	7,081.2	7,049.1	32.16	220.153	
6,400.0	6,339.5	3,631.8	3,357.3	17.9	24.1	-7.84	-6,088.5	1,422.3	7,082.1	7,049.9	32.19	220.043	
6,450.0	6,389.2	3,688.9	3,408.1	18.0	24.6	-7.75	-6,110.1	1,436.7	7,098.9	7,066.4	32.51	218.351	
6,496.0	6,434.7	3,733.4	3,447.7	18.0	25.0	-7.69	-6,126.9	1,448.0	7,111.4	7,078.8	32.64	217.884	
6,500.0	6,438.6	3,737.2	3,451.1	18.0	25.0	-7.69	-6,128.4	1,449.0	7,112.4	7,079.7	32.64	217.879	
6,550.0	6,487.3	3,785.9	3,494.4	18.0	25.4	-7.67	-6,146.6	1,462.1	7,122.5	7,089.9	32.62	218.343	
6,594.5	6,529.8	3,825.8	3,529.7	18.0	25.8	-7.69	-6,161.4	1,473.1	7,128.7	7,096.2	32.46	219.619	
6,600.0	6,535.1	3,830.3	3,533.7	18.1	25.8	-7.70	-6,163.1	1,474.4	7,129.2	7,096.8	32.43	219.837	
6,650.0	6,581.7	3,871.1	3,569.8	18.0	26.2	-7.75	-6,178.3	1,485.9	7,132.6	7,100.5	32.08	222.370	
6,692.9	6,620.6	3,906.1	3,600.7	18.0	26.5	-7.83	-6,191.3	1,495.7	7,132.8	7,101.1	31.65	225.353	
6,700.0	6,626.9	3,911.9	3,605.8	18.0	26.6	-7.84	-6,193.5	1,497.3	7,132.6	7,101.0	31.57	225.919	
6,750.0	6,670.6	4,064.0	3,740.8	18.0	28.0	-8.25	-6,249.2	1,540.0	7,128.8	7,097.4	31.43	226.784	
6,791.3	6,705.4	4,064.0	3,740.8	18.0	28.0	-8.32	-6,249.2	1,540.0	7,122.9	7,092.3	30.63	232.553	
6,800.0	6,712.5	4,064.0	3,740.8	18.0	28.0	-8.33	-6,249.2	1,540.0	7,121.4	7,091.0	30.45	233.869	
6,850.0	6,752.3	4,118.4	3,789.2	18.0	28.5	-8.60	-6,268.8	1,555.2	7,110.6	7,081.0	29.59	240.322	
6,889.7	6,782.5	4,134.6	3,803.6	18.0	28.6	-8.78	-6,274.8	1,559.7	7,099.8	7,071.1	28.71	247.318	
6,900.0	6,790.0	4,138.8	3,807.3	18.0	28.6	-8.83	-6,276.3	1,560.9	7,096.7	7,068.2	28.47	249.260	
6,950.0	6,825.3	4,193.0	3,855.2	18.0	29.1	-9.22	-6,296.5	1,576.2	7,080.0	7,052.6	27.41	258.338	
6,988.2	6,850.5	4,193.0	3,855.2	17.9	29.1	-9.43	-6,296.5	1,576.2	7,064.9	7,038.5	26.39	267.723	
7,000.0	6,858.0	4,193.0	3,855.2	17.9	29.1	-9.50	-6,296.5	1,576.2	7,059.9	7,033.8	26.07	270.792	
7,050.0	6,888.0	4,193.0	3,855.2	18.0	29.1	-9.85	-6,296.5	1,576.2	7,036.9	7,012.2	24.72	284.636	
7,086.6	6,908.1	4,193.0	3,855.2	18.0	29.1	-10.15	-6,296.5	1,576.2	7,018.4	6,994.7	23.76	295.419	
7,100.0	6,915.1	4,193.0	3,855.2	18.0	29.1	-10.27	-6,296.5	1,576.2	7,011.3	6,987.9	23.40	299.596	
7,150.0	6,939.2	4,193.0	3,855.2	18.0	29.1	-10.77	-6,296.5	1,576.2	6,983.0	6,960.8	22.16	315.054	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	6,954.3	4,193.0	3,855.2	18.1	29.1	-11.18	-6,296.5	1,576.2	6,961.7	6,940.3	21.38	325.555	
7,200.0	6,960.3	4,235.2	3,892.3	18.1	29.6	-11.56	-6,312.5	1,588.5	6,951.8	6,930.6	21.23	327.389	
7,250.0	6,978.1	4,246.8	3,902.4	18.3	29.7	-12.37	-6,316.9	1,592.0	6,918.3	6,897.9	20.43	338.606	
7,283.4	6,988.2	4,254.2	3,908.8	18.4	29.7	-12.99	-6,319.8	1,594.3	6,894.6	6,874.6	20.08	343.333	
7,300.0	6,992.6	4,257.7	3,911.9	18.4	29.8	-13.34	-6,321.1	1,595.3	6,882.5	6,862.6	19.97	344.610	
7,350.0	7,003.7	4,267.6	3,920.5	18.7	29.9	-14.52	-6,325.0	1,598.4	6,844.6	6,824.6	19.97	342.816	
7,381.9	7,009.1	4,273.5	3,925.6	18.9	29.9	-15.42	-6,327.2	1,600.2	6,819.3	6,799.1	20.25	336.779	
7,400.0	7,011.4	4,276.7	3,928.4	19.0	30.0	-15.99	-6,328.5	1,601.2	6,804.6	6,784.1	20.52	331.665	
7,450.0	7,015.7	4,321.0	3,966.6	19.3	30.4	-18.17	-6,345.8	1,615.5	6,763.1	6,741.1	21.98	307.623	
7,480.3	7,016.6	4,321.0	3,966.6	19.6	30.4	-19.52	-6,345.8	1,615.5	6,736.9	6,713.8	23.04	292.406	
7,488.2	7,016.6	4,321.0	3,966.6	19.6	30.4	-19.91	-6,345.8	1,615.5	6,730.0	6,706.6	23.36	288.150	
7,500.0	7,016.6	4,321.0	3,966.6	19.7	30.4	-19.91	-6,345.8	1,615.5	6,719.6	6,696.1	23.42	286.910	
7,578.7	7,016.3	4,321.0	3,966.6	20.5	30.4	-19.91	-6,345.8	1,615.5	6,650.5	6,626.6	23.87	278.571	
7,600.0	7,016.2	4,321.0	3,966.6	20.7	30.4	-19.91	-6,345.8	1,615.5	6,631.8	6,607.8	24.00	276.372	
7,677.1	7,016.0	4,321.0	3,966.6	21.6	30.4	-19.91	-6,345.8	1,615.5	6,564.4	6,539.9	24.48	268.192	
7,700.0	7,015.9	4,321.0	3,966.6	21.8	30.4	-19.91	-6,345.8	1,615.5	6,544.5	6,519.9	24.62	265.831	
7,775.6	7,015.7	4,341.2	3,983.9	22.7	30.6	-20.13	-6,353.8	1,622.2	6,478.7	6,453.3	25.32	255.898	
7,800.0	7,015.6	4,348.9	3,990.5	23.0	30.7	-20.21	-6,356.8	1,624.8	6,457.4	6,431.8	25.56	252.672	
7,874.0	7,015.4	4,372.4	4,010.6	24.0	31.0	-20.47	-6,366.1	1,632.6	6,393.1	6,366.8	26.31	242.967	
7,900.0	7,015.3	4,380.6	4,017.6	24.4	31.1	-20.56	-6,369.4	1,635.3	6,370.5	6,343.9	26.58	239.668	
7,972.4	7,015.1	4,403.7	4,037.4	25.4	31.3	-20.82	-6,378.5	1,643.0	6,307.7	6,280.4	27.35	230.588	
8,000.0	7,015.0	4,412.5	4,044.9	25.8	31.4	-20.92	-6,382.0	1,645.9	6,283.8	6,256.2	27.65	227.244	
8,070.8	7,014.8	4,435.1	4,064.3	26.8	31.7	-21.18	-6,391.0	1,653.5	6,222.5	6,194.1	28.44	218.784	
8,100.0	7,014.7	4,450.0	4,077.0	27.3	31.8	-21.34	-6,396.9	1,658.4	6,197.3	6,168.5	28.83	214.964	
8,169.3	7,014.4	4,509.5	4,128.0	28.3	32.4	-22.03	-6,420.5	1,677.9	6,137.5	6,107.4	30.04	204.276	
8,200.0	7,014.4	4,544.3	4,158.0	28.8	32.8	-22.44	-6,434.3	1,689.0	6,110.9	6,080.2	30.69	199.110	
8,267.7	7,014.1	4,591.7	4,199.0	29.9	33.2	-22.99	-6,453.0	1,703.7	6,052.2	6,020.4	31.81	190.265	
8,300.0	7,014.0	4,603.4	4,209.1	30.4	33.4	-23.13	-6,457.6	1,707.3	6,024.2	5,992.0	32.22	186.969	
8,366.1	7,013.8	4,627.5	4,229.9	31.5	33.6	-23.42	-6,467.2	1,714.7	5,967.0	5,933.9	33.08	180.372	
8,400.0	7,013.7	4,639.8	4,240.7	32.0	33.7	-23.57	-6,472.0	1,718.4	5,937.7	5,904.2	33.53	177.100	
8,464.5	7,013.5	4,663.5	4,261.1	33.1	33.9	-23.85	-6,481.4	1,725.6	5,882.0	5,847.6	34.39	171.014	
8,500.0	7,013.4	4,676.5	4,272.4	33.7	34.1	-24.01	-6,486.6	1,729.5	5,851.4	5,816.5	34.88	167.777	
8,563.0	7,013.2	4,699.7	4,292.5	34.8	34.3	-24.29	-6,495.8	1,736.5	5,797.1	5,761.4	35.75	162.168	
8,600.0	7,013.1	4,706.0	4,298.0	35.4	34.3	-24.37	-6,498.3	1,738.4	5,765.3	5,729.1	36.17	159.393	
8,661.4	7,012.9	4,706.0	4,298.0	36.5	34.3	-24.37	-6,498.3	1,738.4	5,712.6	5,675.8	36.74	155.477	
8,700.0	7,012.8	4,706.0	4,298.0	37.1	34.3	-24.37	-6,498.3	1,738.4	5,679.5	5,642.4	37.10	153.078	
8,759.8	7,012.6	4,745.3	4,332.0	38.2	34.7	-24.86	-6,514.1	1,750.1	5,628.2	5,590.0	38.20	147.336	
8,800.0	7,012.4	4,754.3	4,339.8	38.9	34.8	-24.97	-6,517.7	1,752.8	5,593.9	5,555.2	38.71	144.521	
8,858.2	7,012.3	4,767.4	4,351.2	39.9	34.9	-25.13	-6,523.1	1,756.6	5,544.2	5,504.7	39.45	140.532	
8,900.0	7,012.1	4,777.0	4,359.4	40.7	35.0	-25.25	-6,527.0	1,759.4	5,508.6	5,468.7	39.99	137.750	
8,956.7	7,011.9	4,790.0	4,370.7	41.7	35.2	-25.42	-6,532.4	1,763.2	5,460.5	5,419.8	40.73	134.061	
9,000.0	7,011.8	4,800.1	4,379.4	42.4	35.2	-25.54	-6,536.5	1,766.1	5,423.8	5,382.5	41.30	131.317	
9,055.1	7,011.6	4,835.0	4,409.5	43.4	35.6	-25.98	-6,551.1	1,776.1	5,377.2	5,334.9	42.37	126.925	
9,100.0	7,011.5	4,835.0	4,409.5	44.2	35.6	-25.98	-6,551.1	1,776.1	5,339.2	5,296.4	42.81	124.707	
9,153.5	7,011.3	4,838.9	4,412.9	45.2	35.6	-26.03	-6,552.8	1,777.2	5,294.1	5,250.7	43.41	121.948	
9,200.0	7,011.2	4,868.5	4,438.4	46.1	35.9	-26.41	-6,565.2	1,785.6	5,255.0	5,210.7	44.34	118.526	
9,251.9	7,011.0	4,901.3	4,466.7	47.0	36.2	-26.84	-6,578.9	1,794.8	5,211.3	5,165.9	45.38	114.828	
9,300.0	7,010.9	4,931.4	4,492.7	47.9	36.5	-27.24	-6,591.5	1,803.3	5,170.9	5,124.5	46.36	111.527	
9,350.4	7,010.7	4,962.7	4,519.8	48.8	36.8	-27.66	-6,604.5	1,812.1	5,128.5	5,081.1	47.41	108.180	
9,400.0	7,010.5	4,983.8	4,538.0	49.7	37.0	-27.94	-6,613.2	1,818.0	5,086.8	5,038.5	48.28	105.355	
9,448.8	7,010.4	5,004.3	4,555.8	50.6	37.2	-28.22	-6,621.7	1,823.7	5,045.9	4,996.7	49.15	102.657	
9,500.0	7,010.2	5,025.7	4,574.4	51.6	37.4	-28.52	-6,630.5	1,829.8	5,003.0	4,952.9	50.08	99.909	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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	
9,547.2	7,010.1	5,045.5	4,591.5	52.5	37.6	-28.79	-6,638.7	1,835.4	4,963.5	4,912.5	50.94	97.444	
9,600.0	7,009.9	5,067.5	4,610.5	53.5	37.8	-29.10	-6,647.7	1,841.7	4,919.4	4,867.5	51.91	94.770	
9,645.6	7,009.8	5,086.4	4,626.9	54.3	38.0	-29.37	-6,655.5	1,847.1	4,881.3	4,828.6	52.76	92.520	
9,700.0	7,009.6	5,119.0	4,655.1	55.3	38.3	-29.85	-6,668.9	1,856.5	4,836.1	4,782.1	53.97	89.601	
9,744.1	7,009.4	5,147.8	4,680.1	56.2	38.6	-30.27	-6,680.7	1,864.7	4,799.4	4,744.4	55.02	87.230	
9,800.0	7,009.3	5,184.1	4,711.5	57.2	38.9	-30.81	-6,695.4	1,875.0	4,752.9	4,696.5	56.36	84.325	
9,842.5	7,009.1	5,211.3	4,735.3	58.0	39.2	-31.22	-6,706.4	1,882.8	4,717.5	4,660.1	57.40	82.191	
9,900.0	7,008.9	5,367.3	4,872.2	59.1	40.6	-33.66	-6,767.6	1,925.5	4,669.2	4,607.9	61.31	76.154	
9,940.9	7,008.8	5,379.7	4,883.2	59.9	40.7	-33.86	-6,772.4	1,928.8	4,634.8	4,572.8	62.07	74.666	
10,000.0	7,008.6	5,397.9	4,899.3	61.0	40.9	-34.16	-6,779.4	1,933.6	4,585.4	4,522.2	63.19	72.570	
10,039.3	7,008.5	5,410.1	4,910.1	61.7	41.0	-34.36	-6,784.2	1,936.8	4,552.5	4,488.5	63.93	71.206	
10,100.0	7,008.3	5,429.1	4,926.9	62.9	41.2	-34.67	-6,791.6	1,941.6	4,501.9	4,436.8	65.10	69.153	
10,137.8	7,008.2	5,441.1	4,937.5	63.6	41.3	-34.86	-6,796.3	1,944.7	4,470.5	4,404.7	65.84	67.904	
10,200.0	7,008.0	5,461.0	4,955.0	64.8	41.4	-35.19	-6,804.1	1,949.7	4,418.9	4,351.8	67.06	65.894	
10,236.2	7,007.9	5,477.0	4,969.2	65.5	41.6	-35.46	-6,810.4	1,953.7	4,388.9	4,321.0	67.88	64.655	
10,300.0	7,007.6	5,477.0	4,969.2	66.7	41.6	-35.46	-6,810.4	1,953.7	4,336.3	4,267.6	68.68	63.139	
10,334.6	7,007.5	5,477.0	4,969.2	67.3	41.6	-35.46	-6,810.4	1,953.7	4,307.9	4,238.8	69.11	62.331	
10,400.0	7,007.3	5,508.4	4,996.8	68.6	41.9	-35.99	-6,822.9	1,961.6	4,254.2	4,183.5	70.69	60.180	
10,433.0	7,007.2	5,515.3	5,002.9	69.2	41.9	-36.10	-6,825.7	1,963.4	4,227.2	4,156.0	71.28	59.303	
10,500.0	7,007.0	5,529.4	5,015.3	70.5	42.1	-36.35	-6,831.3	1,967.1	4,172.8	4,100.3	72.48	57.568	
10,531.5	7,006.9	5,536.1	5,021.2	71.1	42.1	-36.46	-6,834.0	1,968.8	4,147.2	4,074.2	73.05	56.770	
10,600.0	7,006.7	5,550.6	5,033.9	72.4	42.3	-36.72	-6,839.8	1,972.7	4,091.9	4,017.6	74.30	55.071	
10,629.9	7,006.6	5,557.0	5,039.5	73.0	42.3	-36.83	-6,842.4	1,974.4	4,067.9	3,993.0	74.85	54.345	
10,700.0	7,006.4	5,572.0	5,052.6	74.3	42.5	-37.09	-6,848.5	1,978.5	4,011.7	3,935.6	76.15	52.682	
10,728.3	7,006.3	5,605.0	5,081.4	74.9	42.8	-37.68	-6,861.8	1,987.7	3,989.3	3,911.9	77.40	51.540	
10,800.0	7,006.0	5,605.0	5,081.4	76.3	42.8	-37.68	-6,861.8	1,987.7	3,932.2	3,853.9	78.34	50.196	
10,826.7	7,005.9	5,605.0	5,081.4	76.8	42.8	-37.68	-6,861.8	1,987.7	3,911.1	3,832.4	78.69	49.703	
10,900.0	7,005.7	5,640.3	5,112.0	78.2	43.1	-38.33	-6,876.1	1,997.7	3,853.4	3,772.7	80.63	47.792	
10,925.2	7,005.6	5,659.0	5,128.3	78.7	43.3	-38.67	-6,883.6	2,003.0	3,833.6	3,752.1	81.49	47.045	
11,000.0	7,005.4	5,713.6	5,176.0	80.1	43.8	-39.70	-6,905.4	2,018.2	3,774.8	3,690.8	84.06	44.909	
11,023.6	7,005.3	5,730.6	5,190.9	80.6	44.0	-40.02	-6,912.1	2,022.9	3,756.3	3,671.4	84.87	44.260	
11,100.0	7,005.1	5,796.3	5,248.6	82.0	44.6	-41.29	-6,937.8	2,041.0	3,696.5	3,608.6	87.85	42.078	
11,122.0	7,005.0	5,815.0	5,265.1	82.5	44.8	-41.66	-6,945.1	2,046.0	3,679.3	3,590.5	88.71	41.473	
11,200.0	7,004.7	5,911.8	5,350.9	84.0	45.6	-43.61	-6,981.8	2,071.9	3,618.3	3,525.5	92.75	39.010	
11,220.4	7,004.7	5,956.1	5,390.4	84.4	46.0	-44.53	-6,997.9	2,083.7	3,602.2	3,507.8	94.42	38.152	
11,300.0	7,004.4	6,013.6	5,442.0	85.9	46.5	-45.76	-7,018.2	2,098.9	3,539.8	3,442.4	97.39	36.346	
11,318.9	7,004.4	6,020.7	5,448.4	86.3	46.5	-45.91	-7,020.7	2,100.8	3,525.0	3,427.1	97.90	36.008	
11,400.0	7,004.1	6,051.2	5,475.8	87.8	46.8	-46.57	-7,031.5	2,108.7	3,461.8	3,361.7	100.08	34.592	
11,417.3	7,004.0	6,057.7	5,481.6	88.2	46.9	-46.72	-7,033.7	2,110.4	3,448.4	3,347.9	100.54	34.297	
11,500.0	7,003.8	6,088.9	5,509.6	89.8	47.1	-47.40	-7,044.7	2,118.5	3,384.6	3,281.8	102.80	32.925	
11,515.7	7,003.7	6,094.8	5,515.0	90.1	47.2	-47.53	-7,046.8	2,120.1	3,372.6	3,269.4	103.23	32.670	
11,600.0	7,003.4	6,126.0	5,543.0	91.7	47.4	-48.23	-7,057.9	2,128.1	3,308.3	3,202.8	105.54	31.346	
11,614.1	7,003.4	6,130.8	5,547.4	92.0	47.5	-48.34	-7,059.6	2,129.3	3,297.6	3,191.7	105.92	31.133	
11,700.0	7,003.1	6,160.7	5,574.2	93.7	47.7	-49.01	-7,070.2	2,136.9	3,232.9	3,124.6	108.24	29.868	
11,712.6	7,003.1	6,165.0	5,578.2	93.9	47.8	-49.11	-7,071.7	2,138.0	3,223.4	3,114.9	108.58	29.688	
11,800.0	7,002.8	6,195.8	5,605.9	95.6	48.0	-49.81	-7,082.7	2,145.7	3,158.4	3,047.4	110.98	28.460	
11,811.0	7,002.7	6,199.7	5,609.4	95.8	48.1	-49.90	-7,084.1	2,146.7	3,150.3	3,039.0	111.28	28.309	
11,900.0	7,002.5	6,231.5	5,637.9	97.6	48.3	-50.63	-7,095.6	2,154.6	3,085.0	2,971.2	113.76	27.117	
11,909.4	7,002.4	6,234.9	5,641.0	97.7	48.3	-50.71	-7,096.8	2,155.4	3,078.1	2,964.1	114.03	26.994	
12,000.0	7,002.1	6,272.5	5,674.8	99.5	48.7	-51.59	-7,110.4	2,164.5	3,012.6	2,895.9	116.76	25.801	
12,007.8	7,002.1	6,276.0	5,678.0	99.7	48.7	-51.67	-7,111.7	2,165.4	3,007.0	2,890.0	117.01	25.698	
12,100.0	7,001.8	6,317.8	5,715.6	101.5	49.0	-52.66	-7,126.9	2,175.2	2,941.4	2,821.4	119.94	24.523	

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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. - OSTER C19-27D - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 260-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
12,106.3	7,001.8	6,320.7	5,718.2	101.6	49.1	-52.72	-7,128.0	2,175.9	2,936.9	2,816.8	120.14	24.445	
12,200.0	7,001.5	6,363.7	5,757.0	103.4	49.4	-53.75	-7,143.8	2,185.7	2,871.3	2,748.1	123.17	23.311	
12,204.7	7,001.5	6,365.9	5,759.0	103.5	49.4	-53.80	-7,144.6	2,186.2	2,868.0	2,744.7	123.32	23.256	
12,300.0	7,001.2	6,408.7	5,797.7	105.3	49.8	-54.83	-7,160.4	2,195.7	2,802.4	2,676.0	126.39	22.172	
12,303.1	7,001.1	6,410.1	5,799.0	105.4	49.8	-54.87	-7,160.9	2,196.0	2,800.2	2,673.7	126.49	22.138	
12,400.0	7,000.8	6,452.2	5,837.0	107.3	50.1	-55.90	-7,176.1	2,205.5	2,734.8	2,605.2	129.58	21.105	
12,401.5	7,000.8	6,452.8	5,837.6	107.3	50.1	-55.91	-7,176.3	2,205.6	2,733.8	2,604.1	129.63	21.089	
12,500.0	7,000.5	6,494.3	5,875.2	109.3	50.5	-56.95	-7,191.1	2,215.1	2,668.7	2,536.0	132.75	20.103	
12,598.4	7,000.2	6,504.0	5,884.0	111.2	50.6	-57.19	-7,194.6	2,217.3	2,605.4	2,470.6	134.76	19.334	
12,600.0	7,000.2	6,504.0	5,884.0	111.2	50.6	-57.19	-7,194.6	2,217.3	2,604.4	2,469.6	134.79	19.322	
12,696.8	6,999.8	6,545.6	5,921.6	113.1	50.9	-58.25	-7,209.2	2,227.1	2,543.8	2,405.9	137.92	18.444	
12,700.0	6,999.8	6,546.4	5,922.3	113.2	50.9	-58.27	-7,209.5	2,227.2	2,541.8	2,403.8	138.00	18.419	
12,795.2	6,999.5	6,569.1	5,942.9	115.0	51.1	-58.86	-7,217.5	2,232.8	2,484.3	2,343.9	140.45	17.688	
12,800.0	6,999.5	6,570.2	5,943.9	115.1	51.1	-58.88	-7,217.9	2,233.0	2,481.5	2,340.9	140.57	17.653	
12,893.7	6,999.2	6,592.4	5,964.0	116.9	51.3	-59.46	-7,225.7	2,238.6	2,427.0	2,284.1	142.99	16.973	
12,900.0	6,999.2	6,593.9	5,965.3	117.1	51.3	-59.50	-7,226.2	2,239.0	2,423.4	2,280.3	143.15	16.929	
12,992.1	6,998.9	6,632.0	5,999.6	118.9	51.6	-60.50	-7,239.5	2,248.8	2,372.2	2,226.1	146.13	16.234	
13,000.0	6,998.8	6,632.0	5,999.6	119.0	51.6	-60.50	-7,239.5	2,248.8	2,367.9	2,221.6	146.27	16.189	
13,090.5	6,998.6	6,672.9	6,036.5	120.8	51.9	-61.58	-7,253.8	2,259.2	2,319.7	2,170.4	149.32	15.535	
13,100.0	6,998.5	6,686.4	6,048.6	121.0	52.0	-61.94	-7,258.6	2,262.4	2,314.8	2,164.8	149.96	15.435	
13,188.9	6,998.2	6,790.6	6,143.4	122.7	52.9	-64.71	-7,295.6	2,285.1	2,268.7	2,113.6	155.13	14.625	
13,200.0	6,998.2	6,799.2	6,151.3	122.9	52.9	-64.94	-7,298.7	2,286.8	2,263.1	2,107.5	155.62	14.543	
13,287.4	6,997.9	7,064.1	6,398.7	124.6	54.7	-72.30	-7,381.2	2,331.6	2,218.6	2,053.5	165.04	13.442	
13,300.0	6,997.9	7,068.2	6,402.6	124.9	54.7	-72.42	-7,382.2	2,332.3	2,212.1	2,046.7	165.39	13.375	
13,385.8	6,997.6	7,095.0	6,428.3	126.6	54.9	-73.20	-7,388.7	2,336.3	2,169.3	2,001.6	167.67	12.938	
13,400.0	6,997.5	7,099.2	6,432.3	126.9	54.9	-73.32	-7,389.7	2,337.0	2,162.4	1,994.4	168.04	12.869	
13,484.2	6,997.3	7,122.8	6,455.0	128.5	55.0	-74.01	-7,395.1	2,340.7	2,123.1	1,952.9	170.20	12.474	
13,500.0	6,997.2	7,127.0	6,459.0	128.8	55.0	-74.13	-7,396.1	2,341.3	2,116.0	1,945.4	170.60	12.403	
13,582.6	6,996.9	7,148.8	6,480.1	130.4	55.2	-74.78	-7,400.8	2,344.9	2,080.3	1,907.6	172.69	12.047	
13,600.0	6,996.9	7,155.1	6,486.1	130.8	55.2	-74.96	-7,402.2	2,345.9	2,073.1	1,900.0	173.16	11.972	
13,681.1	6,996.6	7,183.3	6,513.3	132.4	55.3	-75.79	-7,408.1	2,350.4	2,041.0	1,865.7	175.33	11.641	
13,700.0	6,996.5	7,189.4	6,519.2	132.7	55.4	-75.97	-7,409.4	2,351.3	2,033.9	1,858.1	175.82	11.568	
13,779.5	6,996.3	7,213.8	6,542.7	134.3	55.5	-76.70	-7,414.4	2,355.1	2,005.5	1,827.7	177.86	11.276	
13,800.0	6,996.2	7,219.9	6,548.6	134.7	55.5	-76.88	-7,415.6	2,356.0	1,998.6	1,820.2	178.38	11.204	
13,877.9	6,995.9	7,242.7	6,570.7	136.2	55.6	-77.56	-7,420.2	2,359.5	1,974.0	1,793.6	180.33	10.946	
13,900.0	6,995.9	7,249.0	6,576.8	136.7	55.7	-77.75	-7,421.5	2,360.4	1,967.4	1,786.6	180.88	10.877	
13,976.3	6,995.6	7,270.4	6,597.6	138.2	55.8	-78.38	-7,425.7	2,363.6	1,946.6	1,763.8	182.76	10.651	
14,000.0	6,995.5	7,277.2	6,604.1	138.6	55.8	-78.59	-7,427.0	2,364.6	1,940.7	1,757.3	183.34	10.585	
14,074.8	6,995.3	7,298.7	6,625.1	140.1	55.9	-79.23	-7,431.1	2,367.7	1,923.6	1,738.4	185.17	10.388	
14,100.0	6,995.2	7,305.7	6,631.8	140.6	55.9	-79.44	-7,432.4	2,368.7	1,918.4	1,732.7	185.77	10.327	
14,162.0	6,995.0	7,322.2	6,647.9	141.8	56.0	-79.93	-7,435.4	2,371.1	1,907.0	1,719.8	187.21	10.186 CC, ES, SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well HONEBEIN 7K-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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

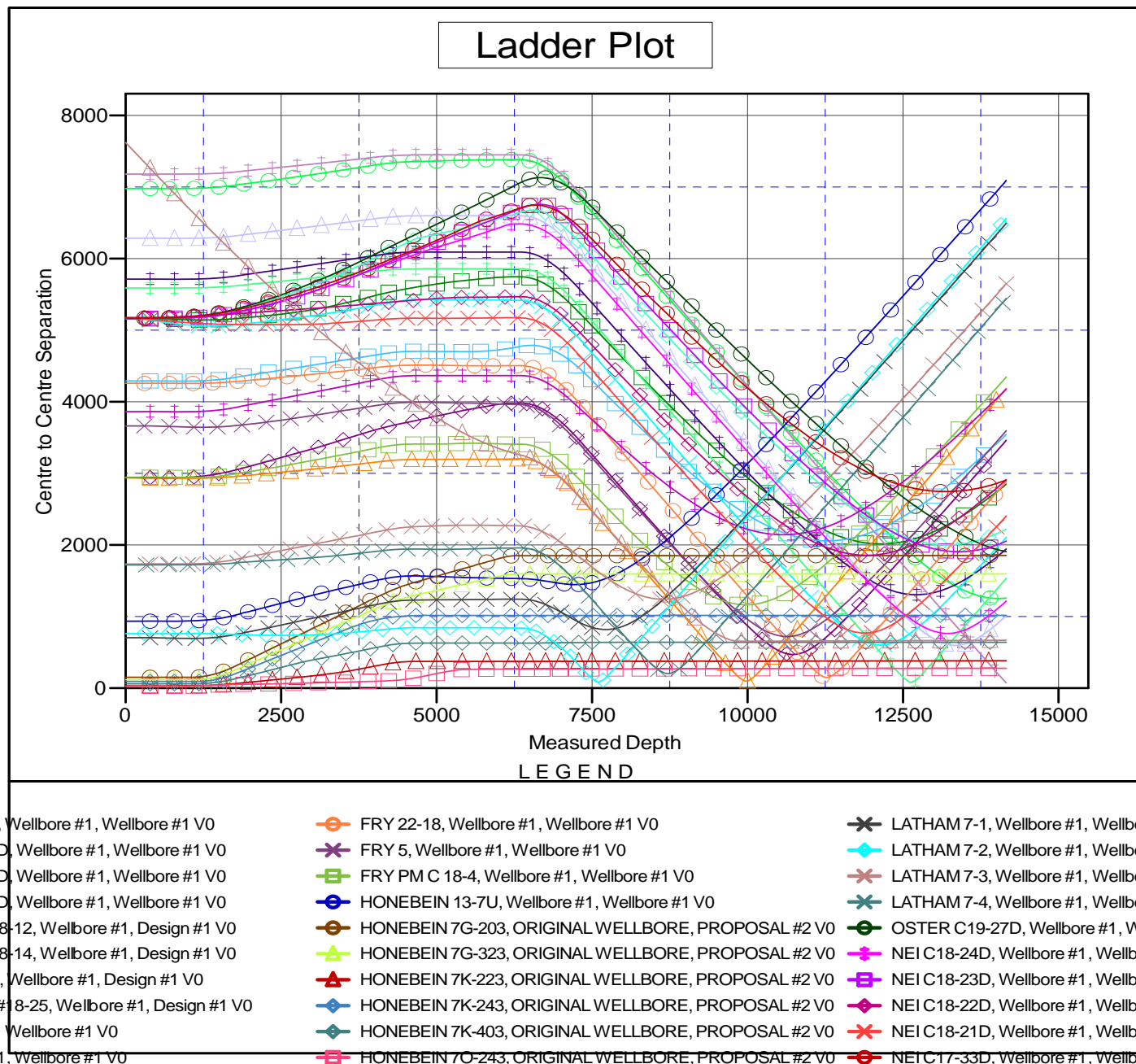
Reference Depths are relative to KB-EST @ 4864.5usft (Original Well ECoordinates are relative to: HONEBEIN 7K-323

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-323
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Reference Site:</b>	NE SW SEC. 7 T4N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4864.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	HONEBEIN 7K-323	<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 @ 4864.5usft (Original Well ECoordinates are relative to: HONEBEIN 7K-323

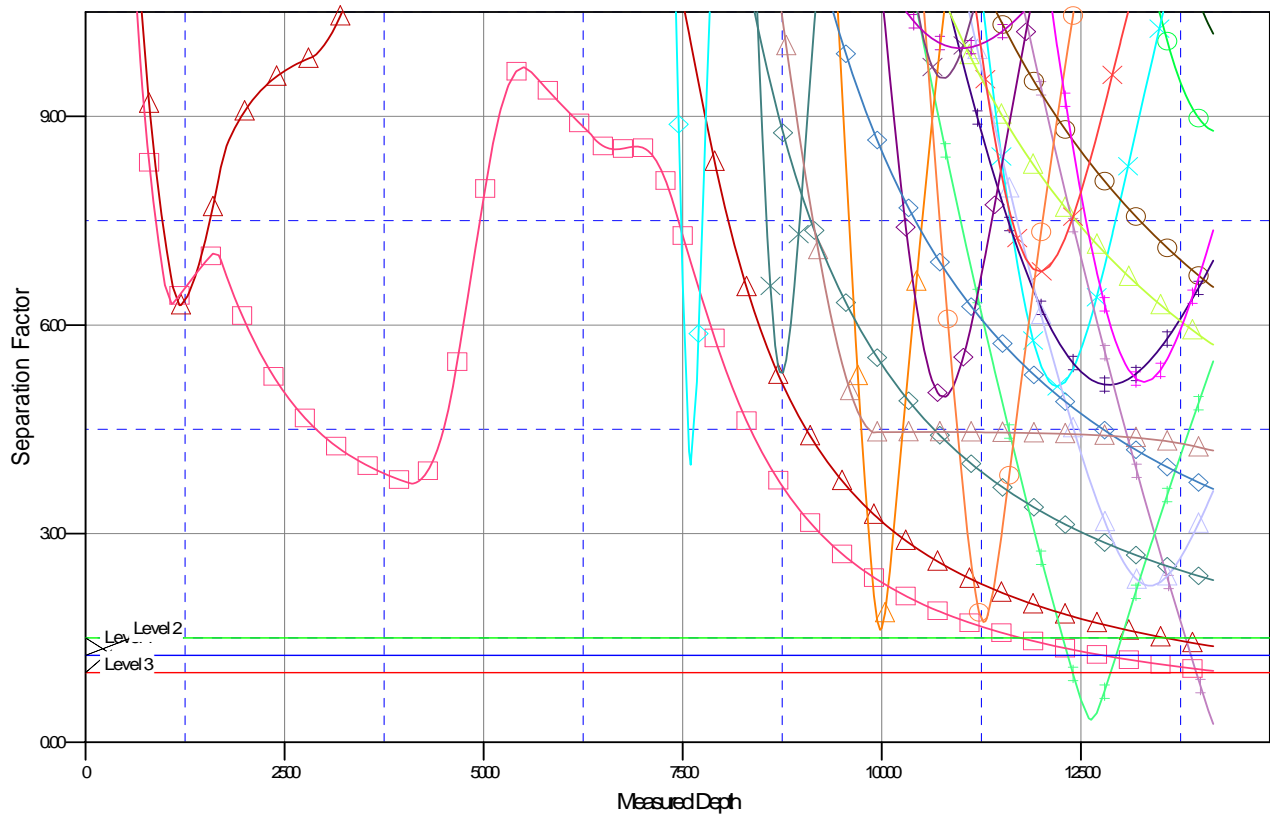
Offset Depths are relative to Offset Datum

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	OSTER C19-27D, Wellbore #1, Well
2, Wellbore #1, Design #1 V0	HONEBEIN 7G-323, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-24D, Wellbore #1, Wellbore
# 8-25, Wellbore #1, Design #1 V0	HONEBEIN 7K-223, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-23D, 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-403, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-21D, Wellbore #1, Wellbore
	HONEBEIN 7O-243, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C17-33D, Wellbore #1, Wellbore