

PDC ENERGY

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

**ORIGINAL WELLBORE
PROPOSAL #2**

Anticollision Report

09 July, 2015



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	09/07/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	14,210.5	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	14,090.4	7,000.0	344.2	207.4	2.516	CC
ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1	14,100.0	7,000.0	344.4	207.4	2.514	ES, SF
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,203.3	7,091.6	994.0	879.4	8.671	CC
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,204.7	7,091.6	994.0	879.4	8.669	ES
EXIST DD NEI C18-20D - Wellbore #1 - Wellbore #1	12,400.0	7,088.9	1,013.3	895.0	8.562	SF
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,202.9	7,469.7	421.4	301.8	3.525	CC
EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1	12,204.7	7,469.6	421.4	301.8	3.524	ES, SF
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,261.7	7,587.0	405.9	258.3	2.750	CC, ES
EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1	13,287.4	7,587.2	406.7	258.6	2.747	SF
EXIST VERT FARR #18-12 - Wellbore #1 - Design #1	12,781.3	6,997.5	290.4	39.6	1.158	Level 2, CC, ES, SF
EXIST VERT FARR #18-14 - Wellbore #1 - Design #1	14,210.5	7,013.5	1,552.6	1,274.6	5.584	CC, ES, SF
EXIST VERT FARR #2 - Wellbore #1 - Design #1	12,689.4	7,013.1	1,514.4	1,265.2	6.077	CC
EXIST VERT FARR #2 - Wellbore #1 - Design #1	12,700.0	7,013.0	1,514.4	1,265.0	6.072	ES
EXIST VERT FARR #2 - Wellbore #1 - Design #1	12,893.7	7,011.8	1,528.1	1,275.0	6.039	SF
EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1	13,401.7	7,005.6	998.3	735.7	3.801	CC, ES
EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1	13,484.2	7,005.1	1,001.7	737.5	3.792	SF
FRY 18-1 - Wellbore #1 - Wellbore #1	11,341.9	5,400.0	1,607.9	1,567.8	40.189	CC, ES
FRY 18-1 - Wellbore #1 - Wellbore #1	11,811.0	5,400.0	1,674.9	1,631.3	38.429	SF
FRY 21-18 - Wellbore #1 - Wellbore #1	10,039.7	7,000.0	1,496.3	1,435.9	24.780	CC, ES
FRY 21-18 - Wellbore #1 - Wellbore #1	10,728.3	7,000.0	1,647.2	1,574.0	22.511	SF
FRY 21-6I - Wellbore #1 - Wellbore #1	10,792.5	7,130.7	2,065.4	1,972.3	22.191	CC
FRY 21-6I - Wellbore #1 - Wellbore #1	10,826.7	7,131.1	2,065.7	1,972.0	22.042	ES
FRY 21-6I - Wellbore #1 - Wellbore #1	11,700.0	7,139.4	2,256.0	2,145.8	20.480	SF
FRY 22-18 - Wellbore #1 - Wellbore #1	11,337.2	7,012.1	1,445.8	1,361.0	17.062	CC, ES
FRY 22-18 - Wellbore #1 - Wellbore #1	11,800.0	7,010.0	1,518.0	1,424.6	16.243	SF
FRY 5 - Wellbore #1 - Wellbore #1	10,693.8	7,000.0	874.0	801.2	12.005	CC
FRY 5 - Wellbore #1 - Wellbore #1	10,700.0	7,000.0	874.0	801.1	11.986	ES
FRY 5 - Wellbore #1 - Wellbore #1	10,900.0	6,999.2	898.0	821.3	11.714	SF
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,034.8	6,974.8	430.5	370.2	7.135	CC
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,039.3	6,974.9	430.6	370.1	7.126	ES
FRY PM C 18-4 - Wellbore #1 - Wellbore #1	10,100.0	6,976.1	435.4	373.9	7.074	SF
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	7,268.6	6,980.7	147.6	116.8	4.796	CC, ES
HONEBEIN 13-7U - Wellbore #1 - Wellbore #1	7,283.4	6,986.6	148.2	117.3	4.792	SF
HONEBEIN 7G-203 - ORIGINAL WELLBORE - PROPOSAL	1,000.0	999.0	30.7	26.4	7.237	CC
HONEBEIN 7G-203 - ORIGINAL WELLBORE - PROPOSAL	14,210.5	14,169.1	267.0	-4.7	0.983	Level 1, ES, SF
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOSAL	1,100.0	1,103.0	89.2	84.5	18.998	CC, ES
HONEBEIN 7K-223 - ORIGINAL WELLBORE - PROPOSAL	14,210.5	14,067.7	1,227.3	949.1	4.411	SF

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
NE SW SEC. 7 T4N R64W 6th P.M.						
HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,101.0	27.9	23.2	5.943	CC, ES
HONEBEIN 7K-243 - ORIGINAL WELLBORE - PROPOS	14,210.5	14,069.6	586.5	314.0	2.152	SF
HONEBEIN 7K-323 - ORIGINAL WELLBORE - PROPOS	1,087.5	1,091.5	119.9	115.3	25.826	CC
HONEBEIN 7K-323 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,103.9	119.9	115.2	25.520	ES
HONEBEIN 7K-323 - ORIGINAL WELLBORE - PROPOS	14,210.5	14,149.3	1,595.8	1,316.9	5.722	SF
HONEBEIN 7K-403 - ORIGINAL WELLBORE - PROPOS	1,100.0	1,102.0	58.6	53.9	12.473	CC, ES
HONEBEIN 7K-403 - ORIGINAL WELLBORE - PROPOS	14,210.5	14,211.9	968.7	694.2	3.529	SF
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	987.3	992.3	147.8	143.6	35.232	CC
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	1,000.0	1,004.8	147.8	143.5	34.768	ES
HONEBEIN 7O-243 - ORIGINAL WELLBORE - PROPOS	14,210.5	14,128.6	1,864.2	1,587.8	6.744	SF
HOW SAD C 18-31 - Wellbore #1 - Design #1	10,635.0	6,991.0	548.6	338.2	2.607	CC, ES, SF
LATHAM 7-1 - Wellbore #1 - Wellbore #1	1,358.5	1,337.2	656.5	652.9	178.577	CC
LATHAM 7-1 - Wellbore #1 - Wellbore #1	1,377.9	1,355.8	656.6	652.8	176.205	ES
LATHAM 7-1 - Wellbore #1 - Wellbore #1	8,200.0	7,000.0	884.4	855.9	31.078	SF
LATHAM 7-2 - Wellbore #1 - Wellbore #1	0.0	5.3	846.1			
LATHAM 7-2 - Wellbore #1 - Wellbore #1	600.0	603.6	846.2	844.6	508.736	ES
LATHAM 7-2 - Wellbore #1 - Wellbore #1	10,200.0	7,000.0	2,955.8	2,892.1	46.401	SF
LATHAM 7-3 - Wellbore #1 - Wellbore #1	8,710.0	7,000.0	356.4	319.8	9.742	CC, ES
LATHAM 7-3 - Wellbore #1 - Wellbore #1	8,759.8	7,000.0	359.8	322.4	9.614	SF
LATHAM 7-4 - Wellbore #1 - Wellbore #1	8,782.6	7,021.6	1,391.7	1,353.6	36.501	CC
LATHAM 7-4 - Wellbore #1 - Wellbore #1	8,800.0	7,021.5	1,391.8	1,353.4	36.223	ES
LATHAM 7-4 - Wellbore #1 - Wellbore #1	9,700.0	7,017.4	1,666.8	1,612.4	30.621	SF
SE SE SEC. 18 T4N R64W 6th P.M.						
COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOS	9,947.5	11,613.7	2,250.2	2,104.3	15.418	CC, ES
COLLINS 18Q-301 - ORIGINAL WELLBORE - PROPOS	14,210.5	7,372.3	2,265.7	2,109.6	14.508	SF
NEI C17-33D - Wellbore #1 - Wellbore #1	13,141.7	5,479.0	4,189.1	4,061.8	32.930	CC
NEI C17-33D - Wellbore #1 - Wellbore #1	13,287.4	5,513.8	4,191.3	4,061.0	32.161	ES
NEI C17-33D - Wellbore #1 - Wellbore #1	14,210.5	5,607.0	4,320.8	4,172.9	29.212	SF
NEI C18-21D - Wellbore #1 - Wellbore #1	11,944.0	7,073.6	2,363.7	2,253.4	21.418	CC
NEI C18-21D - Wellbore #1 - Wellbore #1	12,000.0	7,073.7	2,364.4	2,253.0	21.220	ES
NEI C18-21D - Wellbore #1 - Wellbore #1	12,900.0	7,075.4	2,549.7	2,421.2	19.845	SF
NEI C18-22D - Wellbore #1 - Wellbore #1	11,977.4	7,274.0	3,451.9	3,338.1	30.341	CC
NEI C18-22D - Wellbore #1 - Wellbore #1	12,007.8	7,274.0	3,452.0	3,337.7	30.189	ES
NEI C18-22D - Wellbore #1 - Wellbore #1	13,976.3	7,257.3	3,988.9	3,837.2	26.294	SF
NEI C18-23D - Wellbore #1 - Wellbore #1	13,455.0	7,490.6	3,501.6	3,348.2	22.838	CC
NEI C18-23D - Wellbore #1 - Wellbore #1	13,500.0	7,488.3	3,501.9	3,347.7	22.713	ES
NEI C18-23D - Wellbore #1 - Wellbore #1	14,210.5	7,453.6	3,582.0	3,414.3	21.360	SF
NEI C18-24D - Wellbore #1 - Wellbore #1	13,276.2	7,149.2	2,359.6	2,215.9	16.427	CC
NEI C18-24D - Wellbore #1 - Wellbore #1	13,300.0	7,149.4	2,359.7	2,215.6	16.376	ES
NEI C18-24D - Wellbore #1 - Wellbore #1	14,000.0	7,154.3	2,468.1	2,310.7	15.677	SF
OSTER C19-27D - Wellbore #1 - Wellbore #1	14,210.5	7,068.4	3,472.8	3,291.1	19.121	CC, ES, SF

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1										Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT										Offset Well Error:	0.0 usft
Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference	Offset		Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	0.0	0.0	-174.90	-6,940.0	-619.2	6,967.6		
98.4	98.4	107.4	107.4	0.1	0.1	-174.90	-6,939.9	-619.0	6,967.5	6,967.3	0.16 N/A
100.0	100.0	109.0	109.0	0.1	0.1	-174.90	-6,939.9	-619.0	6,967.5	6,967.3	0.16 N/A

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

Anticollision Report



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Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
196.8	196.8	208.8	208.8	0.3	0.2	-174.91	-6,939.7	-618.7	6,967.2	6,966.7	0.54	N/A	
200.0	200.0	211.7	211.7	0.3	0.2	-174.91	-6,939.7	-618.7	6,967.2	6,966.7	0.55	N/A	
295.3	295.3	300.0	300.0	0.5	0.3	-174.91	-6,939.5	-618.6	6,967.0	6,966.2	0.84	8,332.317	
300.0	300.0	300.0	300.0	0.5	0.3	-174.91	-6,939.5	-618.6	6,967.0	6,966.1	0.85	8,227.804	
393.7	393.7	390.5	390.5	0.8	0.3	-174.91	-6,939.4	-618.4	6,966.9	6,965.8	1.10	6,319.613	
400.0	400.0	396.4	396.4	0.8	0.4	-174.91	-6,939.4	-618.4	6,966.9	6,965.8	1.12	6,223.127	
424.6	424.6	417.1	417.1	0.8	0.4	-174.91	-6,939.4	-618.3	6,966.9	6,965.7	1.19	5,869.524	
492.1	492.1	472.9	472.9	1.0	0.4	-174.91	-6,939.5	-618.0	6,966.9	6,965.6	1.37	5,076.879	
500.0	500.0	479.4	479.4	1.0	0.4	-174.91	-6,939.5	-618.0	6,967.0	6,965.6	1.39	4,998.151	
590.5	590.5	560.8	560.8	1.2	0.4	-174.91	-6,939.7	-617.6	6,967.2	6,965.5	1.64	4,237.811	
600.0	600.0	569.6	569.6	1.2	0.4	-174.91	-6,939.8	-617.5	6,967.2	6,965.6	1.67	4,171.418	
689.0	689.0	650.2	650.2	1.4	0.5	-174.92	-6,940.1	-617.2	6,967.6	6,965.7	1.91	3,647.646	
700.0	700.0	660.1	660.1	1.4	0.5	-174.92	-6,940.2	-617.1	6,967.6	6,965.7	1.94	3,592.610	
787.4	787.4	739.0	738.9	1.6	0.5	-174.92	-6,940.6	-616.9	6,968.1	6,965.9	2.17	3,210.025	
800.0	800.0	750.4	750.4	1.7	0.5	-174.92	-6,940.7	-616.9	6,968.2	6,965.9	2.20	3,161.417	
885.8	885.8	830.4	830.4	1.9	0.6	-174.92	-6,941.2	-616.6	6,968.7	6,966.3	2.43	2,867.453	
900.0	900.0	844.1	844.0	1.9	0.6	-174.92	-6,941.3	-616.6	6,968.8	6,966.3	2.47	2,824.311	
984.2	984.2	923.6	923.6	2.1	0.6	-174.93	-6,941.9	-616.5	6,969.4	6,966.7	2.69	2,593.940	
1,000.0	1,000.0	937.7	937.7	2.1	0.6	-174.93	-6,942.0	-616.4	6,969.5	6,966.8	2.73	2,555.477	
1,082.7	1,082.7	1,011.8	1,011.8	2.3	0.6	-174.93	-6,942.7	-616.3	6,970.2	6,967.3	2.94	2,371.324	
1,100.0	1,100.0	1,027.0	1,027.0	2.3	0.6	-174.93	-6,942.8	-616.3	6,970.4	6,967.4	2.98	2,336.348	
1,181.1	1,181.1	1,100.0	1,100.0	2.5	0.7	-100.75	-6,943.5	-616.2	6,971.4	6,968.3	3.17	2,197.947	
1,200.0	1,200.0	1,118.5	1,118.4	2.6	0.7	-100.75	-6,943.7	-616.2	6,971.7	6,968.5	3.22	2,165.357	
1,279.5	1,279.4	1,204.0	1,204.0	2.7	0.7	-100.75	-6,944.6	-616.2	6,973.3	6,969.9	3.42	2,038.172	
1,300.0	1,299.8	1,225.7	1,225.7	2.8	0.7	-100.75	-6,944.8	-616.2	6,973.7	6,970.3	3.47	2,007.973	
1,377.9	1,377.5	1,308.1	1,308.0	2.9	0.8	-100.77	-6,945.6	-616.4	6,975.7	6,972.0	3.68	1,895.986	
1,400.0	1,399.5	1,331.4	1,331.4	3.0	0.8	-100.78	-6,945.8	-616.5	6,976.3	6,972.5	3.74	1,866.630	
1,476.4	1,475.3	1,414.9	1,414.8	3.2	0.8	-100.81	-6,946.4	-616.7	6,978.6	6,974.7	3.95	1,764.976	
1,500.0	1,498.7	1,445.7	1,445.6	3.2	0.8	-100.83	-6,946.6	-616.9	6,979.4	6,975.4	4.02	1,735.384	
1,574.8	1,572.6	1,543.2	1,543.1	3.4	0.8	-100.89	-6,947.1	-617.4	6,981.9	6,977.7	4.26	1,640.507	
1,600.0	1,597.5	1,576.0	1,575.9	3.5	0.8	-100.92	-6,947.1	-617.6	6,982.8	6,978.5	4.33	1,611.068	
1,673.2	1,669.4	1,670.4	1,670.3	3.7	0.8	-101.01	-6,947.2	-617.9	6,985.5	6,980.9	4.57	1,528.340	
1,700.2	1,695.8	1,704.2	1,704.1	3.8	0.8	-101.04	-6,947.1	-617.9	6,986.5	6,981.8	4.66	1,500.484	
1,771.6	1,765.7	1,781.6	1,781.6	4.1	0.9	-101.17	-6,946.9	-617.8	6,989.2	6,984.3	4.92	1,421.992	
1,800.0	1,793.4	1,813.6	1,813.6	4.2	0.9	-101.23	-6,946.8	-617.8	6,990.3	6,985.3	5.02	1,392.966	
1,870.1	1,862.0	1,897.5	1,897.4	4.4	0.9	-101.37	-6,946.4	-617.5	6,992.8	6,987.5	5.29	1,322.251	
1,900.0	1,891.2	1,926.7	1,926.7	4.5	0.9	-101.42	-6,946.2	-617.4	6,993.9	6,988.5	5.40	1,294.415	
1,968.5	1,958.3	1,992.5	1,992.4	4.8	0.9	-101.53	-6,945.8	-617.2	6,996.4	6,990.7	5.68	1,232.774	
2,000.0	1,989.1	2,020.4	2,020.3	4.9	0.9	-101.58	-6,945.7	-617.2	6,997.5	6,991.7	5.80	1,206.473	
2,066.9	2,054.5	2,078.0	2,078.0	5.2	0.9	-101.67	-6,945.4	-616.9	7,000.1	6,994.0	6.07	1,152.765	
2,100.0	2,086.9	2,106.9	2,106.9	5.3	0.9	-101.72	-6,945.3	-616.7	7,001.3	6,995.1	6.21	1,127.908	
2,165.3	2,150.8	2,167.0	2,167.0	5.6	0.9	-101.83	-6,945.1	-616.4	7,003.9	6,997.4	6.48	1,080.462	
2,200.0	2,184.7	2,200.0	2,200.0	5.7	1.0	-101.88	-6,945.0	-616.2	7,005.3	6,998.7	6.63	1,056.871	
2,263.8	2,247.1	2,262.2	2,262.1	6.0	1.0	-101.99	-6,944.8	-615.8	7,007.9	7,001.0	6.90	1,015.327	
2,300.0	2,282.5	2,298.1	2,298.1	6.1	1.0	-102.05	-6,944.7	-615.5	7,009.4	7,002.3	7.06	993.148	
2,362.2	2,343.3	2,347.7	2,347.7	6.4	1.0	-102.14	-6,944.6	-615.2	7,012.0	7,004.7	7.33	957.165	
2,400.0	2,380.3	2,377.6	2,377.6	6.6	1.0	-102.19	-6,944.6	-615.1	7,013.7	7,006.2	7.49	936.577	
2,460.6	2,439.6	2,426.8	2,426.8	6.8	1.0	-102.27	-6,944.6	-614.8	7,016.4	7,008.6	7.75	904.996	
2,500.0	2,478.1	2,459.5	2,459.5	7.0	1.0	-102.33	-6,944.6	-614.7	7,018.2	7,010.3	7.92	885.633	
2,559.0	2,535.9	2,509.9	2,509.9	7.2	1.0	-102.41	-6,944.8	-614.5	7,021.0	7,012.9	8.19	857.773	
2,600.0	2,575.9	2,549.3	2,549.2	7.4	1.0	-102.48	-6,944.9	-614.4	7,023.0	7,014.7	8.37	839.295	
2,657.5	2,632.2	2,604.3	2,604.2	7.7	1.1	-102.57	-6,945.0	-614.2	7,025.8	7,017.2	8.63	814.507	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
2,700.0	2,673.8	2,643.1	2,643.1	7.8	1.1	-102.63	-6,945.2	-614.1	7,027.9	7,019.1	8.82	797.202	
2,755.9	2,728.4	2,694.2	2,694.2	8.1	1.1	-102.72	-6,945.4	-614.0	7,030.8	7,021.7	9.07	775.423	
2,800.0	2,771.6	2,733.5	2,733.4	8.3	1.1	-102.79	-6,945.5	-614.0	7,033.0	7,023.7	9.27	759.011	
2,854.3	2,824.7	2,781.6	2,781.5	8.5	1.1	-102.87	-6,945.7	-614.0	7,035.8	7,026.3	9.51	739.627	
2,900.0	2,869.4	2,822.3	2,822.3	8.7	1.1	-102.93	-6,946.0	-613.9	7,038.2	7,028.5	9.72	724.088	
2,952.7	2,921.0	2,869.7	2,869.7	8.9	1.1	-103.01	-6,946.2	-613.9	7,041.1	7,031.1	9.96	706.865	
3,000.0	2,967.2	2,911.9	2,911.9	9.2	1.1	-103.08	-6,946.5	-614.0	7,043.7	7,033.5	10.18	692.136	
3,051.2	3,017.3	2,956.9	2,956.8	9.4	1.2	-103.15	-6,946.8	-614.0	7,046.5	7,036.1	10.41	676.814	
3,100.0	3,065.0	3,000.0	2,999.9	9.6	1.2	-103.23	-6,947.2	-614.0	7,049.2	7,038.6	10.64	662.830	
3,149.6	3,113.5	3,046.1	3,046.1	9.8	1.2	-103.30	-6,947.6	-614.1	7,052.1	7,041.2	10.86	649.131	
3,200.0	3,162.8	3,093.2	3,093.2	10.0	1.2	-103.38	-6,948.0	-614.1	7,055.0	7,043.9	11.10	635.792	
3,248.0	3,209.8	3,143.2	3,143.1	10.3	1.2	-103.46	-6,948.4	-614.2	7,057.8	7,046.5	11.32	623.505	
3,300.0	3,260.6	3,198.2	3,198.2	10.5	1.2	-103.55	-6,948.8	-614.4	7,060.8	7,049.2	11.56	610.734	
3,346.4	3,306.1	3,240.3	3,240.2	10.7	1.2	-103.62	-6,949.2	-614.5	7,063.5	7,051.7	11.78	599.828	
3,400.0	3,358.4	3,288.4	3,288.4	10.9	1.2	-103.70	-6,949.6	-614.8	7,066.6	7,054.6	12.02	587.749	
3,444.9	3,402.3	3,332.6	3,332.5	11.1	1.2	-103.77	-6,950.0	-615.0	7,069.3	7,057.1	12.23	577.946	
3,500.0	3,456.3	3,388.6	3,388.5	11.4	1.3	-103.85	-6,950.4	-615.4	7,072.6	7,060.1	12.49	566.339	
3,543.3	3,498.6	3,426.7	3,426.6	11.6	1.3	-103.92	-6,950.8	-615.7	7,075.2	7,062.5	12.69	557.597	
3,600.0	3,554.1	3,473.9	3,473.8	11.8	1.3	-103.99	-6,951.2	-616.0	7,078.7	7,065.7	12.95	546.595	
3,641.7	3,594.9	3,511.3	3,511.2	12.0	1.3	-104.05	-6,951.6	-616.4	7,081.3	7,068.1	13.14	538.751	
3,700.0	3,651.9	3,574.6	3,574.5	12.3	1.3	-104.15	-6,952.2	-617.0	7,084.9	7,071.5	13.42	528.103	
3,740.1	3,691.2	3,614.0	3,613.9	12.5	1.3	-104.21	-6,952.6	-617.6	7,087.4	7,073.8	13.60	521.047	
3,800.0	3,749.7	3,663.6	3,663.5	12.7	1.3	-104.28	-6,953.1	-618.4	7,091.1	7,077.3	13.88	510.974	
3,838.6	3,787.4	3,700.0	3,699.9	12.9	1.3	-104.33	-6,953.5	-619.2	7,093.6	7,079.6	14.06	504.654	
3,900.0	3,847.5	3,794.0	3,793.9	13.2	1.3	-104.47	-6,954.3	-621.4	7,097.4	7,083.1	14.35	494.742	
3,937.0	3,883.7	3,834.8	3,834.7	13.3	1.3	-104.53	-6,954.6	-622.3	7,099.6	7,085.1	14.52	489.062	
4,000.0	3,945.3	3,900.5	3,900.3	13.6	1.3	-104.62	-6,954.9	-623.7	7,103.4	7,088.6	14.81	479.723	
4,035.4	3,980.0	3,944.0	3,943.8	13.8	1.4	-104.69	-6,955.1	-624.7	7,105.4	7,090.5	14.97	474.602	
4,100.0	4,043.1	4,023.6	4,023.4	14.1	1.4	-104.80	-6,955.3	-626.3	7,109.1	7,093.8	15.27	465.564	
4,133.8	4,076.3	4,065.7	4,065.5	14.2	1.4	-104.87	-6,955.4	-627.0	7,111.0	7,095.6	15.43	460.978	
4,200.0	4,141.0	4,137.4	4,137.2	14.5	1.4	-104.98	-6,955.3	-627.8	7,114.6	7,098.9	15.73	452.325	
4,232.3	4,172.5	4,168.8	4,168.5	14.7	1.4	-105.03	-6,955.3	-628.1	7,116.3	7,100.5	15.88	448.236	
4,300.0	4,238.8	4,233.8	4,233.6	15.0	1.4	-105.13	-6,955.3	-628.8	7,120.1	7,103.9	16.19	439.902	
4,330.7	4,268.8	4,263.0	4,262.8	15.1	1.4	-105.17	-6,955.3	-629.0	7,121.7	7,105.4	16.33	436.226	
4,400.0	4,336.6	4,319.0	4,318.8	15.4	1.4	-105.26	-6,955.3	-629.5	7,125.6	7,109.0	16.64	428.194	
4,429.1	4,365.1	4,337.2	4,337.0	15.6	1.4	-105.29	-6,955.3	-629.6	7,127.3	7,110.5	16.77	424.926	
4,500.0	4,434.4	4,381.5	4,381.2	15.9	1.4	-105.36	-6,955.5	-629.8	7,131.6	7,114.5	17.09	417.199	
4,527.5	4,461.3	4,400.0	4,399.8	16.0	1.4	-105.39	-6,955.6	-629.9	7,133.4	7,116.2	17.22	414.271	
4,600.0	4,532.2	4,449.8	4,449.5	16.4	1.4	-105.47	-6,956.1	-629.9	7,138.1	7,120.6	17.55	406.639	
4,626.0	4,557.6	4,468.2	4,467.9	16.5	1.4	-105.49	-6,956.3	-630.0	7,139.9	7,122.2	17.67	403.972	
4,700.0	4,630.0	4,519.7	4,519.4	16.8	1.4	-105.58	-6,957.0	-630.0	7,145.1	7,127.1	18.02	396.581	
4,724.4	4,653.9	4,536.1	4,535.9	16.9	1.5	-105.60	-6,957.2	-630.0	7,146.9	7,128.7	18.13	394.210	
4,800.0	4,727.8	4,600.0	4,599.8	17.3	1.5	-105.71	-6,958.3	-630.0	7,152.5	7,134.0	18.48	387.000	
4,822.8	4,750.2	4,600.0	4,599.8	17.4	1.5	-105.71	-6,958.3	-630.0	7,154.3	7,135.7	18.58	384.970	
4,900.0	4,825.6	4,649.0	4,648.8	17.7	1.5	-105.79	-6,959.4	-629.7	7,160.4	7,141.5	18.94	378.059	
4,921.2	4,846.4	4,661.8	4,661.6	17.8	1.5	-105.81	-6,959.7	-629.6	7,162.2	7,143.1	19.04	376.207	
5,000.0	4,923.5	4,712.7	4,712.4	18.2	1.5	-105.90	-6,961.1	-629.0	7,168.9	7,149.5	19.40	369.507	
5,019.7	4,942.7	4,728.8	4,728.5	18.3	1.5	-105.92	-6,961.5	-628.8	7,170.6	7,151.1	19.49	367.860	
5,100.0	5,021.3	4,800.0	4,799.7	18.6	1.5	-106.04	-6,963.6	-627.8	7,177.7	7,157.8	19.87	361.280	
5,118.1	5,039.0	4,800.0	4,799.7	18.7	1.5	-106.04	-6,963.6	-627.8	7,179.3	7,159.4	19.95	359.896	
5,200.0	5,119.1	4,873.5	4,873.1	19.1	1.5	-106.17	-6,966.0	-627.1	7,186.8	7,166.5	20.33	353.501	
5,216.5	5,135.3	4,886.5	4,886.1	19.2	1.5	-106.19	-6,966.4	-627.0	7,188.4	7,168.0	20.41	352.248	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
5,300.0	5,216.9	5,005.8	5,005.4	19.6	1.6	-106.38	-6,970.1	-626.6	7,196.0	7,175.2	20.81	345.862	
5,314.9	5,231.5	5,025.2	5,024.8	19.6	1.6	-106.41	-6,970.7	-626.6	7,197.4	7,176.5	20.88	344.751	
5,400.0	5,314.7	5,133.5	5,133.0	20.0	1.6	-106.59	-6,973.5	-626.4	7,204.7	7,183.4	21.28	338.572	
5,413.4	5,327.8	5,149.8	5,149.3	20.1	1.6	-106.61	-6,973.9	-626.4	7,205.9	7,184.5	21.34	337.622	
5,500.0	5,412.5	5,252.1	5,251.5	20.5	1.6	-106.77	-6,976.2	-626.4	7,213.1	7,191.4	21.75	331.609	
5,511.8	5,424.1	5,265.6	5,265.1	20.5	1.7	-106.80	-6,976.4	-626.4	7,214.1	7,192.3	21.81	330.808	
5,600.0	5,510.3	5,396.2	5,395.6	20.9	1.7	-107.00	-6,978.9	-627.0	7,221.2	7,199.0	22.23	324.882	
5,610.2	5,520.3	5,407.4	5,406.8	21.0	1.7	-107.01	-6,979.0	-627.1	7,222.0	7,199.7	22.27	324.220	
5,700.0	5,608.2	5,490.9	5,490.3	21.4	1.7	-107.14	-6,980.3	-628.0	7,228.9	7,206.3	22.69	318.571	
5,708.6	5,616.6	5,500.0	5,499.4	21.4	1.7	-107.15	-6,980.5	-628.1	7,229.6	7,206.9	22.73	318.036	
5,729.2	5,636.7	5,561.2	5,560.7	21.5	1.7	-107.25	-6,981.2	-628.6	7,231.2	7,208.3	22.83	316.683	
5,800.0	5,706.1	5,654.1	5,653.6	21.8	1.8	-107.47	-6,981.9	-629.3	7,235.8	7,212.7	23.10	313.203	
5,807.1	5,713.1	5,660.7	5,660.1	21.8	1.8	-107.49	-6,981.9	-629.4	7,236.3	7,213.2	23.12	312.950	
5,900.0	5,804.7	5,759.3	5,758.8	22.1	1.8	-107.70	-6,982.6	-630.1	7,241.6	7,218.2	23.39	309.621	
5,905.5	5,810.2	5,765.8	5,765.2	22.1	1.8	-107.72	-6,982.6	-630.2	7,241.8	7,218.4	23.40	309.450	
6,000.0	5,903.9	5,865.9	5,865.3	22.3	1.8	-107.89	-6,983.1	-630.9	7,246.1	7,222.5	23.64	306.545	
6,003.9	5,907.8	5,869.8	5,869.3	22.4	1.8	-107.90	-6,983.1	-630.9	7,246.2	7,222.6	23.65	306.444	
6,100.0	6,003.4	5,957.6	5,957.1	22.6	1.8	-108.02	-6,983.5	-631.4	7,249.6	7,225.7	23.85	303.958	
6,102.3	6,005.7	5,959.7	5,959.1	22.6	1.8	-108.02	-6,983.5	-631.4	7,249.6	7,225.8	23.85	303.909	
6,200.0	6,103.2	6,071.4	6,070.8	22.7	1.9	-108.11	-6,984.1	-632.1	7,252.0	7,228.0	24.03	301.773	
6,200.8	6,104.0	6,072.5	6,071.9	22.7	1.9	-108.11	-6,984.1	-632.1	7,252.1	7,228.0	24.03	301.759	
6,299.2	6,202.3	6,174.7	6,174.1	22.9	1.9	-108.15	-6,984.4	-632.9	7,253.2	7,229.0	24.18	300.027	
6,300.0	6,203.1	6,175.4	6,174.8	22.9	1.9	-108.15	-6,984.4	-632.9	7,253.2	7,229.0	24.18	300.012	
6,329.4	6,232.5	6,205.9	6,205.3	22.9	1.9	177.68	-6,984.5	-633.0	7,253.3	7,229.1	24.20	299.750	
6,397.6	6,300.8	6,320.4	6,319.8	23.0	1.9	177.68	-6,984.4	-632.5	7,253.3	7,229.0	24.28	298.674	
6,400.0	6,303.1	6,324.2	6,323.6	23.0	1.9	177.68	-6,984.4	-632.5	7,253.3	7,229.0	24.29	298.636	
6,449.4	6,352.5	6,402.9	6,402.3	23.1	1.9	177.66	-6,983.9	-631.2	7,253.0	7,228.6	24.36	297.758	
6,496.0	6,399.2	6,469.2	6,468.6	23.1	1.9	-2.57	-6,983.2	-629.6	7,251.0	7,226.6	24.39	297.241	
6,500.0	6,403.1	6,474.8	6,474.2	23.1	1.9	-2.57	-6,983.2	-629.4	7,250.7	7,226.3	24.40	297.200	
6,550.0	6,452.8	6,548.5	6,547.9	23.1	1.9	-2.61	-6,982.2	-627.2	7,244.8	7,220.4	24.42	296.638	
6,594.5	6,496.6	6,612.9	6,612.2	23.2	1.9	-2.66	-6,981.1	-625.0	7,236.6	7,212.1	24.44	296.061	
6,600.0	6,502.0	6,619.9	6,619.2	23.2	1.9	-2.67	-6,980.9	-624.8	7,235.3	7,210.9	24.44	295.996	
6,650.0	6,550.5	6,682.9	6,682.1	23.2	1.9	-2.75	-6,979.7	-622.4	7,222.3	7,197.9	24.44	295.554	
6,692.9	6,591.4	6,729.4	6,728.5	23.2	1.9	-2.83	-6,978.7	-620.7	7,208.4	7,184.0	24.39	295.535	
6,700.0	6,598.0	6,736.4	6,735.6	23.2	1.9	-2.84	-6,978.5	-620.4	7,205.9	7,181.5	24.38	295.574	
6,750.0	6,644.4	6,785.5	6,784.6	23.2	1.9	-2.95	-6,977.5	-618.5	7,186.2	7,162.0	24.26	296.220	
6,791.3	6,681.6	6,932.7	6,931.6	23.2	1.9	-3.13	-6,972.9	-612.4	7,167.1	7,142.9	24.20	296.208	
6,800.0	6,689.3	6,940.3	6,939.3	23.2	1.9	-3.16	-6,972.6	-612.0	7,162.8	7,138.7	24.16	296.469	
6,850.0	6,732.6	6,983.4	6,982.3	23.2	1.9	-3.32	-6,971.0	-610.4	7,136.3	7,112.4	23.91	298.472	
6,889.7	6,765.7	7,000.0	6,998.8	23.2	1.9	-3.47	-6,970.4	-609.9	7,113.1	7,089.5	23.64	300.870	
6,900.0	6,774.0	7,000.0	6,998.8	23.2	1.9	-3.51	-6,970.4	-609.9	7,106.9	7,083.3	23.56	301.650	
6,950.0	6,813.3	7,000.0	6,998.8	23.2	1.9	-3.72	-6,970.4	-609.9	7,075.0	7,051.8	23.11	306.081	
6,988.2	6,841.9	7,000.0	6,998.8	23.2	1.9	-3.91	-6,970.4	-609.9	7,048.9	7,026.2	22.72	310.191	
7,000.0	6,850.5	7,000.0	6,998.8	23.2	1.9	-3.97	-6,970.4	-609.9	7,040.6	7,018.0	22.59	311.607	
7,050.0	6,885.2	7,000.0	6,998.8	23.2	1.9	-4.28	-6,970.4	-609.9	7,004.0	6,982.0	22.01	318.260	
7,086.6	6,908.9	7,000.0	6,998.8	23.2	1.9	-4.55	-6,970.4	-609.9	6,975.8	6,954.3	21.54	323.827	
7,100.0	6,917.3	7,000.0	6,998.8	23.2	1.9	-4.67	-6,970.4	-609.9	6,965.2	6,943.9	21.36	326.050	
7,150.0	6,946.6	7,000.0	6,998.8	23.2	1.9	-5.15	-6,970.4	-609.9	6,924.5	6,903.8	20.67	334.955	
7,185.0	6,965.5	7,000.0	6,998.8	23.3	1.9	-5.56	-6,970.4	-609.9	6,894.9	6,874.7	20.17	341.866	
7,200.0	6,973.1	7,000.0	6,998.8	23.3	1.9	-5.76	-6,970.4	-609.9	6,881.9	6,862.0	19.95	344.888	
7,250.0	6,996.5	7,000.0	6,998.8	23.3	1.9	-6.57	-6,970.4	-609.9	6,837.8	6,818.5	19.23	355.663	
7,283.4	7,010.4	7,000.0	6,998.8	23.4	1.9	-7.27	-6,970.4	-609.9	6,807.4	6,788.7	18.74	363.179	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - ABDN VERT FARR #1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,300.0	7,016.8	7,000.0	6,998.8	23.4	1.9	-7.68	-6,970.4	-609.9	6,792.1	6,773.6	18.51	366.944	
7,350.0	7,033.8	7,000.0	6,998.8	23.5	1.9	-9.28	-6,970.4	-609.9	6,745.3	6,727.4	17.84	378.163	
7,381.9	7,043.0	7,000.0	6,998.8	23.6	1.9	-10.71	-6,970.4	-609.9	6,714.8	6,697.4	17.45	384.852	
7,400.0	7,047.6	7,000.0	6,998.8	23.6	1.9	-11.74	-6,970.4	-609.9	6,697.3	6,680.1	17.25	388.361	
7,450.0	7,057.9	7,000.0	6,998.8	23.8	1.9	-15.99	-6,970.4	-609.9	6,648.6	6,631.7	16.81	395.428	
7,480.3	7,062.5	7,000.0	6,998.8	23.9	1.9	-20.44	-6,970.4	-609.9	6,618.7	6,602.0	16.74	395.471	
7,500.0	7,064.8	7,000.0	6,998.8	24.0	1.9	-24.85	-6,970.4	-609.9	6,599.2	6,582.3	16.86	391.384	
7,550.0	7,068.3	7,000.0	6,998.8	24.2	1.9	-50.37	-6,970.4	-609.9	6,549.4	6,530.5	18.95	345.558	
7,578.7	7,068.7	7,000.0	6,998.8	24.4	1.9	-86.21	-6,970.4	-609.9	6,520.7	6,500.1	20.66	315.645	
7,578.9	7,068.7	7,000.0	6,998.8	24.4	1.9	-86.43	-6,970.4	-609.9	6,520.6	6,499.9	20.67	315.491	
7,600.0	7,068.6	7,000.0	6,998.8	24.5	1.9	-86.43	-6,970.4	-609.9	6,499.5	6,478.6	20.87	311.356	
7,677.1	7,068.1	7,000.0	6,998.8	25.1	1.9	-86.43	-6,970.4	-609.9	6,422.4	6,400.8	21.61	297.201	
7,700.0	7,067.9	7,000.0	6,998.8	25.2	1.9	-86.43	-6,970.4	-609.9	6,399.6	6,377.8	21.83	293.191	
7,775.6	7,067.4	7,000.0	6,998.8	25.9	1.9	-86.43	-6,970.4	-609.9	6,324.2	6,301.5	22.64	279.353	
7,800.0	7,067.3	7,000.0	6,998.8	26.1	1.9	-86.43	-6,970.4	-609.9	6,299.8	6,276.9	22.90	275.090	
7,874.0	7,066.8	7,000.0	6,998.8	26.8	1.9	-86.43	-6,970.4	-609.9	6,225.9	6,202.0	23.84	261.126	
7,900.0	7,066.7	7,000.0	6,998.8	27.0	1.9	-86.43	-6,970.4	-609.9	6,199.9	6,175.8	24.17	256.478	
7,972.4	7,066.2	7,000.0	6,998.8	27.8	1.9	-86.43	-6,970.4	-609.9	6,127.6	6,102.5	25.16	243.568	
8,000.0	7,066.0	7,000.0	6,998.8	28.1	1.9	-86.43	-6,970.4	-609.9	6,100.1	6,074.6	25.53	238.915	
8,070.8	7,065.6	7,000.0	6,998.8	28.9	1.9	-86.43	-6,970.4	-609.9	6,029.3	6,002.8	26.55	227.122	
8,100.0	7,065.4	7,000.0	6,998.8	29.3	1.9	-86.43	-6,970.4	-609.9	6,000.2	5,973.3	26.96	222.528	
8,169.3	7,065.0	7,000.0	6,998.8	30.2	1.9	-86.43	-6,970.4	-609.9	5,931.1	5,903.1	28.00	211.840	
8,200.0	7,064.8	7,000.0	6,998.8	30.6	1.9	-86.43	-6,970.4	-609.9	5,900.4	5,872.0	28.46	207.348	
8,267.7	7,064.4	7,000.0	6,998.8	31.5	1.9	-86.43	-6,970.4	-609.9	5,832.8	5,803.3	29.50	197.712	
8,300.0	7,064.2	7,000.0	6,998.8	31.9	1.9	-86.43	-6,970.4	-609.9	5,800.6	5,770.6	30.00	193.351	
8,366.1	7,063.7	7,000.0	6,998.8	32.8	1.9	-86.43	-6,970.4	-609.9	5,734.6	5,703.5	31.05	184.691	
8,400.0	7,063.5	7,000.0	6,998.8	33.3	1.9	-86.43	-6,970.4	-609.9	5,700.8	5,669.2	31.59	180.477	
8,464.5	7,063.1	7,000.0	6,998.8	34.2	1.9	-86.43	-6,970.4	-609.9	5,636.3	5,603.7	32.64	172.707	
8,500.0	7,062.9	7,000.0	6,998.8	34.8	1.9	-86.43	-6,970.4	-609.9	5,601.0	5,567.7	33.21	168.648	
8,563.0	7,062.5	7,000.0	6,998.8	35.7	1.9	-86.43	-6,970.4	-609.9	5,538.1	5,503.8	34.25	161.681	
8,600.0	7,062.3	7,000.0	6,998.8	36.3	1.9	-86.43	-6,970.4	-609.9	5,501.1	5,466.3	34.87	157.780	
8,661.4	7,061.9	7,000.0	6,998.8	37.2	1.9	-86.43	-6,970.4	-609.9	5,439.9	5,404.0	35.90	151.534	
8,700.0	7,061.6	7,000.0	6,998.8	37.8	1.9	-86.43	-6,970.4	-609.9	5,401.3	5,364.8	36.55	147.789	
8,759.8	7,061.3	7,000.0	6,998.8	38.8	1.9	-86.43	-6,970.4	-609.9	5,341.6	5,304.1	37.57	142.187	
8,800.0	7,061.0	7,000.0	6,998.8	39.4	1.9	-86.43	-6,970.4	-609.9	5,301.6	5,263.3	38.25	138.593	
8,858.2	7,060.6	7,000.0	6,998.8	40.3	1.9	-86.43	-6,970.4	-609.9	5,243.4	5,204.2	39.26	133.564	
8,900.0	7,060.4	7,000.0	6,998.8	41.0	1.9	-86.43	-6,970.4	-609.9	5,201.8	5,161.8	39.98	130.116	
8,956.7	7,060.0	7,000.0	6,998.8	41.9	1.9	-86.43	-6,970.4	-609.9	5,145.2	5,104.3	40.97	125.599	
9,000.0	7,059.8	7,000.0	6,998.8	42.6	1.9	-86.43	-6,970.4	-609.9	5,102.0	5,060.3	41.72	122.290	
9,055.1	7,059.4	7,000.0	6,998.8	43.6	1.9	-86.43	-6,970.4	-609.9	5,047.0	5,004.3	42.69	118.228	
9,100.0	7,059.1	7,000.0	6,998.8	44.3	1.9	-86.43	-6,970.4	-609.9	5,002.2	4,958.7	43.48	115.051	
9,153.5	7,058.8	7,000.0	6,998.8	45.2	1.9	-86.43	-6,970.4	-609.9	4,948.8	4,904.4	44.43	111.394	
9,200.0	7,058.5	7,000.0	6,998.8	46.0	1.9	-86.43	-6,970.4	-609.9	4,902.5	4,857.2	45.25	108.343	
9,251.9	7,058.2	7,000.0	6,998.8	46.9	1.9	-86.43	-6,970.4	-609.9	4,850.6	4,804.5	46.18	105.048	
9,300.0	7,057.9	7,000.0	6,998.8	47.7	1.9	-86.43	-6,970.4	-609.9	4,802.7	4,755.7	47.03	102.115	
9,350.4	7,057.6	7,000.0	6,998.8	48.6	1.9	-86.43	-6,970.4	-609.9	4,752.5	4,704.5	47.94	99.142	
9,400.0	7,057.2	7,000.0	6,998.8	49.4	1.9	-86.43	-6,970.4	-609.9	4,703.0	4,654.2	48.83	96.321	
9,448.8	7,056.9	7,000.0	6,998.8	50.3	1.9	-86.43	-6,970.4	-609.9	4,654.3	4,604.6	49.71	93.637	
9,500.0	7,056.6	7,000.0	6,998.8	51.1	1.9	-86.43	-6,970.4	-609.9	4,603.3	4,552.6	50.63	90.922	
9,547.2	7,056.3	7,000.0	6,998.8	52.0	1.9	-86.43	-6,970.4	-609.9	4,556.2	4,504.7	51.48	88.497	
9,600.0	7,056.0	7,000.0	6,998.8	52.9	1.9	-86.43	-6,970.4	-609.9	4,503.5	4,451.1	52.44	85.880	
9,645.6	7,055.7	7,000.0	6,998.8	53.7	1.9	-86.43	-6,970.4	-609.9	4,458.0	4,404.8	53.27	83.687	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,700.0	7,055.4	7,000.0	6,998.8	54.6	1.9	-86.43	-6,970.4	-609.9	4,403.8	4,349.6	54.26	81.164	
9,744.1	7,055.1	7,000.0	6,998.8	55.4	1.9	-86.43	-6,970.4	-609.9	4,359.9	4,304.8	55.06	79.180	
9,800.0	7,054.7	7,000.0	6,998.8	56.4	1.9	-86.43	-6,970.4	-609.9	4,304.1	4,248.1	56.08	76.745	
9,842.5	7,054.5	7,000.0	6,998.8	57.2	1.9	-86.43	-6,970.4	-609.9	4,261.8	4,204.9	56.86	74.949	
9,900.0	7,054.1	7,000.0	6,998.8	58.2	1.9	-86.43	-6,970.4	-609.9	4,204.5	4,146.6	57.92	72.597	
9,940.9	7,053.8	7,000.0	6,998.8	58.9	1.9	-86.43	-6,970.4	-609.9	4,163.7	4,105.0	58.67	70.971	
10,000.0	7,053.5	7,000.0	6,998.8	60.0	1.9	-86.43	-6,970.4	-609.9	4,104.8	4,045.1	59.75	68.697	
10,039.3	7,053.2	7,000.0	6,998.8	60.7	1.9	-86.43	-6,970.4	-609.9	4,065.6	4,005.1	60.48	67.225	
10,100.0	7,052.8	7,000.0	6,998.8	61.8	1.9	-86.43	-6,970.4	-609.9	4,005.2	3,943.6	61.59	65.025	
10,137.8	7,052.6	7,000.0	6,998.8	62.4	1.9	-86.43	-6,970.4	-609.9	3,967.5	3,905.3	62.29	63.693	
10,200.0	7,052.2	7,000.0	6,998.8	63.6	1.9	-86.43	-6,970.4	-609.9	3,905.6	3,842.1	63.44	61.562	
10,236.2	7,052.0	7,000.0	6,998.8	64.2	1.9	-86.43	-6,970.4	-609.9	3,869.5	3,805.4	64.11	60.356	
10,300.0	7,051.6	7,000.0	6,998.8	65.4	1.9	-86.43	-6,970.4	-609.9	3,806.0	3,740.7	65.29	58.292	
10,334.6	7,051.4	7,000.0	6,998.8	66.0	1.9	-86.43	-6,970.4	-609.9	3,771.5	3,705.5	65.93	57.201	
10,400.0	7,051.0	7,000.0	6,998.8	67.2	1.9	-86.43	-6,970.4	-609.9	3,706.4	3,639.2	67.15	55.199	
10,433.0	7,050.7	7,000.0	6,998.8	67.8	1.9	-86.43	-6,970.4	-609.9	3,673.5	3,605.7	67.76	54.213	
10,500.0	7,050.3	7,000.0	6,998.8	69.0	1.9	-86.43	-6,970.4	-609.9	3,606.8	3,537.8	69.00	52.270	
10,531.5	7,050.1	7,000.0	6,998.8	69.6	1.9	-86.43	-6,970.4	-609.9	3,575.5	3,505.9	69.59	51.380	
10,600.0	7,049.7	7,000.0	6,998.8	70.8	1.9	-86.43	-6,970.4	-609.9	3,507.3	3,436.4	70.87	49.493	
10,629.9	7,049.5	7,000.0	6,998.8	71.4	1.9	-86.43	-6,970.4	-609.9	3,477.5	3,406.1	71.42	48.690	
10,700.0	7,049.1	7,000.0	6,998.8	72.7	1.9	-86.43	-6,970.4	-609.9	3,407.8	3,335.1	72.73	46.856	
10,728.3	7,048.9	7,000.0	6,998.8	73.2	1.9	-86.43	-6,970.4	-609.9	3,379.6	3,306.4	73.26	46.133	
10,800.0	7,048.4	7,000.0	6,998.8	74.5	1.9	-86.43	-6,970.4	-609.9	3,308.3	3,233.7	74.60	44.350	
10,826.7	7,048.3	7,000.0	6,998.8	75.0	1.9	-86.43	-6,970.4	-609.9	3,281.7	3,206.6	75.10	43.700	
10,900.0	7,047.8	7,000.0	6,998.8	76.3	1.9	-86.43	-6,970.4	-609.9	3,208.9	3,132.4	76.47	41.965	
10,925.2	7,047.7	7,000.0	6,998.8	76.8	1.9	-86.43	-6,970.4	-609.9	3,183.8	3,106.9	76.94	41.383	
11,000.0	7,047.2	7,000.0	6,998.8	78.2	1.9	-86.43	-6,970.4	-609.9	3,109.5	3,031.1	78.34	39.694	
11,023.6	7,047.0	7,000.0	6,998.8	78.6	1.9	-86.43	-6,970.4	-609.9	3,086.0	3,007.2	78.78	39.173	
11,100.0	7,046.6	7,000.0	6,998.8	80.0	1.9	-86.43	-6,970.4	-609.9	3,010.1	2,929.9	80.21	37.527	
11,122.0	7,046.4	7,000.0	6,998.8	80.4	1.9	-86.43	-6,970.4	-609.9	2,988.2	2,907.6	80.62	37.064	
11,200.0	7,045.9	7,000.0	6,998.8	81.9	1.9	-86.43	-6,970.4	-609.9	2,910.8	2,828.7	82.09	35.460	
11,220.4	7,045.8	7,000.0	6,998.8	82.3	1.9	-86.43	-6,970.4	-609.9	2,890.5	2,808.0	82.47	35.049	
11,300.0	7,045.3	7,000.0	6,998.8	83.7	1.9	-86.43	-6,970.4	-609.9	2,811.5	2,727.5	83.96	33.485	
11,318.9	7,045.2	7,000.0	6,998.8	84.1	1.9	-86.43	-6,970.4	-609.9	2,792.8	2,708.5	84.32	33.122	
11,400.0	7,044.7	7,000.0	6,998.8	85.6	1.9	-86.43	-6,970.4	-609.9	2,712.3	2,626.4	85.84	31.596	
11,417.3	7,044.6	7,000.0	6,998.8	85.9	1.9	-86.43	-6,970.4	-609.9	2,695.1	2,609.0	86.17	31.277	
11,500.0	7,044.0	7,000.0	6,998.8	87.5	1.9	-86.43	-6,970.4	-609.9	2,613.1	2,525.4	87.72	29.788	
11,515.7	7,043.9	7,000.0	6,998.8	87.7	1.9	-86.43	-6,970.4	-609.9	2,597.5	2,509.5	88.02	29.511	
11,600.0	7,043.4	7,000.0	6,998.8	89.3	1.9	-86.43	-6,970.4	-609.9	2,514.0	2,424.4	89.61	28.056	
11,614.1	7,043.3	7,000.0	6,998.8	89.6	1.9	-86.43	-6,970.4	-609.9	2,500.0	2,410.1	89.87	27.817	
11,700.0	7,042.8	7,000.0	6,998.8	91.2	1.9	-86.43	-6,970.4	-609.9	2,415.0	2,323.5	91.49	26.396	
11,712.6	7,042.7	7,000.0	6,998.8	91.4	1.9	-86.43	-6,970.4	-609.9	2,402.6	2,310.8	91.73	26.192	
11,800.0	7,042.2	7,000.0	6,998.8	93.0	1.9	-86.43	-6,970.4	-609.9	2,316.1	2,222.7	93.38	24.804	
11,811.0	7,042.1	7,000.0	6,998.8	93.2	1.9	-86.43	-6,970.4	-609.9	2,305.2	2,211.6	93.58	24.632	
11,900.0	7,041.5	7,000.0	6,998.8	94.9	1.9	-86.43	-6,970.4	-609.9	2,217.2	2,122.0	95.26	23.275	
11,909.4	7,041.5	7,000.0	6,998.8	95.1	1.9	-86.43	-6,970.4	-609.9	2,207.9	2,112.5	95.44	23.134	
12,000.0	7,040.9	7,000.0	6,998.8	96.8	1.9	-86.43	-6,970.4	-609.9	2,118.5	2,021.4	97.15	21.806	
12,007.8	7,040.8	7,000.0	6,998.8	96.9	1.9	-86.43	-6,970.4	-609.9	2,110.8	2,013.5	97.30	21.693	
12,100.0	7,040.3	7,000.0	6,998.8	98.7	1.9	-86.43	-6,970.4	-609.9	2,019.9	1,920.9	99.04	20.395	
12,106.3	7,040.2	7,000.0	6,998.8	98.8	1.9	-86.43	-6,970.4	-609.9	2,013.7	1,914.6	99.16	20.308	
12,200.0	7,039.6	7,000.0	6,998.8	100.5	1.9	-86.43	-6,970.4	-609.9	1,921.4	1,820.5	100.93	19.037	
12,204.7	7,039.6	7,000.0	6,998.8	100.6	1.9	-86.43	-6,970.4	-609.9	1,916.8	1,815.8	101.02	18.975	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,300.0	7,039.0	7,000.0	6,998.8	102.4	1.9	-86.43	-6,970.4	-609.9	1,823.1	1,720.3	102.82	17.731	
12,303.1	7,039.0	7,000.0	6,998.8	102.5	1.9	-86.43	-6,970.4	-609.9	1,820.1	1,717.2	102.88	17.691	
12,400.0	7,038.4	7,000.0	6,998.8	104.3	1.9	-86.43	-6,970.4	-609.9	1,725.1	1,620.3	104.71	16.474	
12,401.5	7,038.4	7,000.0	6,998.8	104.3	1.9	-86.43	-6,970.4	-609.9	1,723.5	1,618.8	104.74	16.455	
12,500.0	7,037.8	7,000.0	6,998.8	106.2	1.9	-86.43	-6,970.4	-609.9	1,627.2	1,520.6	106.61	15.263	
12,598.4	7,037.1	7,000.0	6,998.8	108.0	1.9	-86.43	-6,970.4	-609.9	1,531.2	1,422.7	108.47	14.116	
12,600.0	7,037.1	7,000.0	6,998.8	108.0	1.9	-86.43	-6,970.4	-609.9	1,529.6	1,421.1	108.50	14.098	
12,696.8	7,036.5	7,000.0	6,998.8	109.9	1.9	-86.43	-6,970.4	-609.9	1,435.4	1,325.1	110.33	13.010	
12,700.0	7,036.5	7,000.0	6,998.8	109.9	1.9	-86.43	-6,970.4	-609.9	1,432.3	1,321.9	110.39	12.975	
12,795.2	7,035.9	7,000.0	6,998.8	111.7	1.9	-86.43	-6,970.4	-609.9	1,340.1	1,227.9	112.20	11.944	
12,800.0	7,035.9	7,000.0	6,998.8	111.8	1.9	-86.43	-6,970.4	-609.9	1,335.5	1,223.2	112.29	11.893	
12,893.7	7,035.3	7,000.0	6,998.8	113.6	1.9	-86.43	-6,970.4	-609.9	1,245.2	1,131.1	114.07	10.917	
12,900.0	7,035.2	7,000.0	6,998.8	113.7	1.9	-86.43	-6,970.4	-609.9	1,239.1	1,124.9	114.19	10.852	
12,992.1	7,034.7	7,000.0	6,998.8	115.4	1.9	-86.43	-6,970.4	-609.9	1,150.9	1,035.0	115.93	9.928	
13,000.0	7,034.6	7,000.0	6,998.8	115.6	1.9	-86.43	-6,970.4	-609.9	1,143.4	1,027.3	116.08	9.850	
13,090.5	7,034.0	7,000.0	6,998.8	117.3	1.9	-86.43	-6,970.4	-609.9	1,057.4	939.6	117.80	8.976	
13,100.0	7,034.0	7,000.0	6,998.8	117.5	1.9	-86.43	-6,970.4	-609.9	1,048.5	930.5	117.98	8.887	
13,188.9	7,033.4	7,000.0	6,998.8	119.1	1.9	-86.43	-6,970.4	-609.9	964.9	845.2	119.67	8.063	
13,200.0	7,033.4	7,000.0	6,998.8	119.3	1.9	-86.43	-6,970.4	-609.9	954.6	834.7	119.88	7.963	
13,287.4	7,032.8	7,000.0	6,998.8	121.0	1.9	-86.43	-6,970.4	-609.9	873.7	752.1	121.54	7.188	
13,300.0	7,032.7	7,000.0	6,998.8	121.2	1.9	-86.43	-6,970.4	-609.9	862.1	740.3	121.78	7.079	
13,385.8	7,032.2	7,000.0	6,998.8	122.9	1.9	-86.43	-6,970.4	-609.9	784.1	660.7	123.41	6.354	
13,400.0	7,032.1	7,000.0	6,998.8	123.1	1.9	-86.43	-6,970.4	-609.9	771.4	647.7	123.68	6.237	
13,484.2	7,031.6	7,000.0	6,998.8	124.7	1.9	-86.43	-6,970.4	-609.9	697.1	571.8	125.28	5.564	
13,500.0	7,031.5	7,000.0	6,998.8	125.0	1.9	-86.43	-6,970.4	-609.9	683.4	557.8	125.58	5.442	
13,582.6	7,030.9	7,000.0	6,998.8	126.6	1.9	-86.43	-6,970.4	-609.9	613.4	486.3	127.15	4.824	
13,600.0	7,030.8	7,000.0	6,998.8	126.9	1.9	-86.43	-6,970.4	-609.9	599.1	471.6	127.48	4.700	
13,681.1	7,030.3	7,000.0	6,998.8	128.4	1.9	-86.43	-6,970.4	-609.9	534.8	405.8	129.02	4.145	
13,700.0	7,030.2	7,000.0	6,998.8	128.8	1.9	-86.43	-6,970.4	-609.9	520.4	391.1	129.38	4.023	
13,779.5	7,029.7	7,000.0	6,998.8	130.3	1.9	-86.43	-6,970.4	-609.9	463.8	332.9	130.89	3.544	
13,800.0	7,029.6	7,000.0	6,998.8	130.7	1.9	-86.43	-6,970.4	-609.9	450.3	319.1	131.28	3.430	
13,877.9	7,029.1	7,000.0	6,998.8	132.2	1.9	-86.43	-6,970.4	-609.9	404.5	271.7	132.76	3.047	
13,900.0	7,029.0	7,000.0	6,998.8	132.6	1.9	-86.43	-6,970.4	-609.9	393.4	260.2	133.18	2.954	
13,976.3	7,028.5	7,000.0	6,998.8	134.0	1.9	-86.43	-6,970.4	-609.9	362.6	228.0	134.63	2.693	
14,000.0	7,028.3	7,000.0	6,998.8	134.5	1.9	-86.43	-6,970.4	-609.9	355.9	220.8	135.08	2.635	
14,074.8	7,027.9	7,000.0	6,998.8	135.9	1.9	-86.43	-6,970.4	-609.9	344.6	208.1	136.50	2.524	
14,090.4	7,027.8	7,000.0	6,998.8	136.2	1.9	-86.43	-6,970.4	-609.9	344.2	207.4	136.80	2.516 CC	
14,100.0	7,027.7	7,000.0	6,998.8	136.4	1.9	-86.43	-6,970.4	-609.9	344.4	207.4	136.98	2.514 ES, SF	
14,173.2	7,027.2	7,000.0	6,998.8	137.8	1.9	-86.43	-6,970.4	-609.9	354.1	215.7	138.38	2.559	
14,200.0	7,027.1	7,000.0	6,998.8	138.3	1.9	-86.43	-6,970.4	-609.9	361.3	222.4	138.89	2.601	
14,210.5	7,027.0	7,000.0	6,998.8	138.5	1.9	-86.43	-6,970.4	-609.9	364.6	225.5	139.09	2.621	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,564.5	2,531.4	7.2	7.6	-113.17	-5,041.7	466.0	5,155.0	5,140.6	14.42	357.564	
2,600.0	2,575.9	2,622.9	2,588.7	7.4	7.8	-113.17	-5,043.0	454.7	5,158.2	5,143.4	14.81	348.178	
2,657.5	2,632.2	2,689.3	2,653.8	7.7	8.1	-113.17	-5,044.3	441.6	5,162.7	5,147.3	15.32	336.956	
2,700.0	2,673.8	2,730.2	2,693.8	7.8	8.2	-113.16	-5,045.2	433.1	5,165.9	5,150.2	15.67	329.720	
2,755.9	2,728.4	2,785.0	2,747.3	8.1	8.5	-113.14	-5,046.5	421.2	5,170.2	5,154.1	16.13	320.556	
2,800.0	2,771.6	2,866.1	2,826.2	8.3	8.8	-113.10	-5,048.2	402.5	5,173.5	5,156.8	16.69	309.940	
2,854.3	2,824.7	2,913.0	2,871.7	8.5	9.1	-113.08	-5,049.0	391.2	5,177.2	5,160.0	17.14	302.074	
2,900.0	2,869.4	2,949.3	2,906.9	8.7	9.2	-113.06	-5,049.7	382.3	5,180.3	5,162.8	17.51	295.853	
2,952.7	2,921.0	2,974.8	2,931.5	8.9	9.4	-113.04	-5,050.4	376.0	5,184.3	5,166.5	17.86	290.311	
3,000.0	2,967.2	2,997.5	2,953.6	9.2	9.5	-113.02	-5,051.1	370.3	5,188.1	5,170.0	18.17	285.540	
3,051.2	3,017.3	3,042.0	2,996.6	9.4	9.7	-112.99	-5,052.8	359.2	5,192.6	5,174.0	18.61	279.074	
3,100.0	3,065.0	3,074.8	3,028.3	9.6	9.8	-112.97	-5,054.1	351.0	5,196.9	5,177.9	18.97	273.968	
3,149.6	3,113.5	3,170.0	3,120.6	9.8	10.3	-112.91	-5,057.0	327.9	5,200.8	5,181.1	19.63	264.899	
3,200.0	3,162.8	3,224.1	3,173.2	10.0	10.5	-112.88	-5,058.3	315.1	5,204.6	5,184.5	20.09	259.021	
3,248.0	3,209.8	3,257.4	3,205.5	10.3	10.7	-112.87	-5,059.2	307.3	5,208.4	5,187.9	20.45	254.696	
3,300.0	3,260.6	3,299.0	3,246.0	10.5	10.9	-112.85	-5,060.5	297.6	5,212.6	5,191.8	20.86	249.887	
3,346.4	3,306.1	3,299.0	3,246.0	10.7	10.9	-112.85	-5,060.5	297.6	5,216.7	5,195.6	21.06	247.727	
3,400.0	3,358.4	3,352.1	3,297.6	10.9	11.1	-112.82	-5,062.4	285.4	5,221.4	5,199.8	21.54	242.456	
3,444.9	3,402.3	3,378.0	3,322.8	11.1	11.2	-112.81	-5,063.4	279.5	5,225.5	5,203.7	21.85	239.172	
3,500.0	3,456.3	3,427.0	3,370.5	11.4	11.4	-112.79	-5,065.7	268.4	5,230.9	5,208.6	22.31	234.429	
3,543.3	3,498.6	3,459.2	3,401.7	11.6	11.6	-112.77	-5,067.2	261.0	5,235.2	5,212.6	22.65	231.132	
3,600.0	3,554.1	3,579.1	3,518.3	11.8	12.1	-112.71	-5,072.0	233.0	5,240.4	5,217.0	23.45	223.426	
3,641.7	3,594.9	3,638.8	3,576.3	12.0	12.4	-112.68	-5,074.0	219.0	5,243.9	5,220.0	23.91	219.342	
3,700.0	3,651.9	3,718.0	3,653.3	12.3	12.8	-112.65	-5,076.2	200.6	5,248.6	5,224.1	24.53	214.002	
3,740.1	3,691.2	3,769.1	3,702.9	12.5	13.0	-112.62	-5,077.6	188.4	5,251.7	5,226.8	24.94	210.564	
3,800.0	3,749.7	3,812.0	3,744.5	12.7	13.2	-112.59	-5,078.7	177.9	5,256.3	5,230.9	25.40	206.922	
3,838.6	3,787.4	3,812.0	3,744.5	12.9	13.2	-112.59	-5,078.7	177.9	5,259.5	5,234.0	25.57	205.701	
3,900.0	3,847.5	3,871.1	3,801.7	13.2	13.5	-112.55	-5,080.5	163.2	5,264.5	5,238.4	26.14	201.407	
3,937.0	3,883.7	3,888.4	3,818.4	13.3	13.6	-112.54	-5,081.2	158.8	5,267.8	5,241.5	26.39	199.631	
4,000.0	3,945.3	3,941.0	3,869.2	13.6	13.9	-112.50	-5,083.7	145.4	5,273.9	5,247.0	26.93	195.828	
4,035.4	3,980.0	3,941.0	3,869.2	13.8	13.9	-112.50	-5,083.7	145.4	5,277.3	5,250.2	27.08	194.845	
4,100.0	4,043.1	3,980.5	3,907.3	14.1	14.1	-112.47	-5,085.9	135.4	5,284.0	5,256.4	27.56	191.714	
4,133.8	4,076.3	4,007.0	3,932.9	14.2	14.2	-112.45	-5,087.3	128.8	5,287.5	5,259.7	27.84	189.919	
4,200.0	4,141.0	4,069.0	3,993.0	14.5	14.5	-112.42	-5,090.9	113.9	5,294.6	5,266.2	28.44	186.187	
4,232.3	4,172.5	4,086.8	4,010.3	14.7	14.6	-112.41	-5,091.9	109.7	5,298.1	5,269.5	28.65	184.913	
4,300.0	4,238.8	4,149.7	4,071.7	15.0	14.8	-112.39	-5,095.4	96.4	5,305.6	5,276.4	29.21	181.643	
4,330.7	4,268.8	4,178.2	4,099.7	15.1	14.9	-112.39	-5,096.9	91.0	5,308.9	5,279.5	29.46	180.205	
4,400.0	4,336.6	4,259.8	4,180.1	15.4	15.2	-112.41	-5,100.9	77.6	5,316.6	5,286.5	30.05	176.943	
4,429.1	4,365.1	4,297.1	4,216.9	15.6	15.3	-112.43	-5,102.6	72.3	5,319.7	5,289.4	30.30	175.594	
4,500.0	4,434.4	4,402.1	4,321.0	15.9	15.7	-112.50	-5,106.6	59.0	5,327.0	5,296.1	30.92	172.310	
4,527.5	4,461.3	4,711.0	4,628.3	16.0	16.4	-112.82	-5,108.1	29.3	5,329.2	5,297.4	31.79	167.645	
4,600.0	4,532.2	4,756.4	4,673.6	16.4	16.5	-112.90	-5,106.8	27.5	5,332.7	5,300.5	32.16	165.800	
4,626.0	4,557.6	4,767.5	4,684.7	16.5	16.5	-112.92	-5,106.5	27.2	5,334.1	5,301.8	32.29	165.189	
4,700.0	4,630.0	4,798.9	4,716.2	16.8	16.6	-112.98	-5,105.9	26.7	5,338.5	5,305.9	32.65	163.490	
4,724.4	4,653.9	4,839.0	4,756.2	16.9	16.6	-113.06	-5,105.3	26.7	5,340.3	5,307.5	32.81	162.760	
4,800.0	4,727.8	4,839.0	4,756.2	17.3	16.6	-113.06	-5,105.3	26.7	5,345.4	5,312.3	33.14	161.301	
4,822.8	4,750.2	4,858.5	4,775.7	17.4	16.6	-113.11	-5,105.1	26.9	5,347.2	5,313.9	33.26	160.786	
4,900.0	4,825.6	4,912.6	4,829.8	17.7	16.7	-113.22	-5,104.8	27.4	5,353.2	5,319.5	33.64	159.129	
4,921.2	4,846.4	4,927.5	4,844.7	17.8	16.7	-113.25	-5,104.7	27.6	5,354.9	5,321.1	33.75	158.681	
5,000.0	4,923.5	4,989.8	4,907.0	18.2	16.8	-113.39	-5,104.6	28.2	5,361.5	5,327.3	34.15	157.018	
5,019.7	4,942.7	5,010.3	4,927.5	18.3	16.8	-113.43	-5,104.6	28.4	5,363.1	5,328.9	34.25	156.585	
5,100.0	5,021.3	5,094.0	5,011.2	18.6	16.9	-113.61	-5,104.5	29.1	5,369.9	5,335.2	34.68	154.846	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
7,200.0	6,973.1	7,063.8	6,980.7	23.3	19.5	-21.90	-5,086.0	47.0	5,084.5	5,059.7	24.85	204.617	
7,250.0	6,996.5	7,085.0	7,001.9	23.3	19.5	-24.85	-5,085.8	47.4	5,041.1	5,017.5	23.63	213.320	
7,283.4	7,010.4	7,097.5	7,014.4	23.4	19.5	-27.31	-5,085.7	47.6	5,011.3	4,988.2	23.04	217.533	
7,300.0	7,016.8	7,103.3	7,020.2	23.4	19.5	-28.71	-5,085.7	47.7	4,996.3	4,973.4	22.84	218.794	
7,350.0	7,033.8	7,118.6	7,035.5	23.5	19.5	-33.89	-5,085.6	48.0	4,950.2	4,927.4	22.73	217.749	
7,381.9	7,043.0	7,126.8	7,043.7	23.6	19.5	-38.15	-5,085.5	48.1	4,920.2	4,897.0	23.20	212.124	
7,400.0	7,047.6	7,130.9	7,047.8	23.6	19.5	-41.00	-5,085.5	48.2	4,903.0	4,879.4	23.68	207.036	
7,450.0	7,057.9	7,140.2	7,057.0	23.8	19.6	-50.89	-5,085.4	48.3	4,855.1	4,829.1	26.00	186.739	
7,480.3	7,062.5	7,144.2	7,061.1	23.9	19.6	-58.63	-5,085.4	48.4	4,825.8	4,797.8	28.06	171.967	
7,500.0	7,064.8	7,151.0	7,067.9	24.0	19.6	-64.67	-5,085.3	48.5	4,806.7	4,777.0	29.63	162.223	
7,550.0	7,068.3	7,151.0	7,067.9	24.2	19.6	-81.70	-5,085.3	48.5	4,757.9	4,724.7	33.22	143.212	
7,578.7	7,068.7	7,151.0	7,067.9	24.4	19.6	-92.35	-5,085.3	48.5	4,729.8	4,695.2	34.58	136.795	
7,578.9	7,068.7	7,151.0	7,067.9	24.4	19.6	-92.40	-5,085.3	48.5	4,729.7	4,695.1	34.58	136.772	
7,600.0	7,068.6	7,151.0	7,067.9	24.5	19.6	-92.40	-5,085.3	48.5	4,709.0	4,674.2	34.79	135.356	
7,677.1	7,068.1	7,151.0	7,067.9	25.1	19.6	-92.40	-5,085.3	48.5	4,633.6	4,598.1	35.53	130.402	
7,700.0	7,067.9	7,151.0	7,067.9	25.2	19.6	-92.40	-5,085.3	48.5	4,611.3	4,575.6	35.75	128.974	
7,775.6	7,067.4	7,151.0	7,067.9	25.9	19.6	-92.40	-5,085.3	48.5	4,537.6	4,501.0	36.57	124.074	
7,800.0	7,067.3	7,151.0	7,067.9	26.1	19.6	-92.40	-5,085.3	48.5	4,513.7	4,476.9	36.84	122.537	
7,874.0	7,066.8	7,145.9	7,062.8	26.8	19.6	-92.11	-5,085.4	48.4	4,441.6	4,403.8	37.75	117.654	
7,900.0	7,066.7	7,145.6	7,062.5	27.0	19.6	-92.09	-5,085.4	48.4	4,416.2	4,378.2	38.08	115.968	
7,972.4	7,066.2	7,144.7	7,061.6	27.8	19.6	-92.04	-5,085.4	48.4	4,345.7	4,306.7	39.06	111.249	
8,000.0	7,066.0	7,144.4	7,061.3	28.1	19.6	-92.02	-5,085.4	48.4	4,318.9	4,279.4	39.44	109.514	
8,070.8	7,065.6	7,143.6	7,060.5	28.9	19.6	-91.98	-5,085.4	48.4	4,250.0	4,209.5	40.45	105.073	
8,100.0	7,065.4	7,143.2	7,060.1	29.3	19.6	-91.96	-5,085.4	48.4	4,221.6	4,180.8	40.86	103.310	
8,169.3	7,065.0	7,142.4	7,059.3	30.2	19.6	-91.91	-5,085.4	48.4	4,154.3	4,112.4	41.89	99.164	
8,200.0	7,064.8	7,142.0	7,058.9	30.6	19.6	-91.89	-5,085.4	48.4	4,124.5	4,082.2	42.35	97.390	
8,267.7	7,064.4	7,141.2	7,058.1	31.5	19.6	-91.84	-5,085.4	48.4	4,058.9	4,015.5	43.39	93.540	
8,300.0	7,064.2	7,140.9	7,057.8	31.9	19.6	-91.82	-5,085.4	48.4	4,027.5	3,983.7	43.89	91.768	
8,366.1	7,063.7	7,140.1	7,057.0	32.8	19.6	-91.78	-5,085.4	48.3	3,963.5	3,918.6	44.93	88.208	
8,400.0	7,063.5	7,139.7	7,056.6	33.3	19.6	-91.75	-5,085.4	48.3	3,930.7	3,885.3	45.47	86.448	
8,464.5	7,063.1	7,138.9	7,055.8	34.2	19.6	-91.71	-5,085.4	48.3	3,868.3	3,821.8	46.51	83.166	
8,500.0	7,062.9	7,138.5	7,055.4	34.8	19.6	-91.68	-5,085.4	48.3	3,834.1	3,787.0	47.09	81.426	
8,563.0	7,062.5	7,137.7	7,054.6	35.7	19.6	-91.64	-5,085.4	48.3	3,773.3	3,725.2	48.12	78.406	
8,600.0	7,062.3	7,137.3	7,054.2	36.3	19.6	-91.62	-5,085.4	48.3	3,737.6	3,688.8	48.74	76.692	
8,661.4	7,061.9	7,136.6	7,053.4	37.2	19.6	-91.57	-5,085.4	48.3	3,678.4	3,628.7	49.76	73.918	
8,700.0	7,061.6	7,136.1	7,053.0	37.8	19.6	-91.55	-5,085.4	48.3	3,641.3	3,590.9	50.41	72.232	
8,759.8	7,061.3	7,135.4	7,052.3	38.8	19.6	-91.51	-5,085.4	48.3	3,583.8	3,532.3	51.43	69.687	
8,800.0	7,061.0	7,134.9	7,051.8	39.4	19.6	-91.48	-5,085.4	48.2	3,545.2	3,493.1	52.11	68.034	
8,858.2	7,060.6	7,134.2	7,051.1	40.3	19.6	-91.44	-5,085.5	48.2	3,489.3	3,436.2	53.11	65.699	
8,900.0	7,060.4	7,133.7	7,050.6	41.0	19.6	-91.41	-5,085.5	48.2	3,449.3	3,395.5	53.83	64.080	
8,956.7	7,060.0	7,133.0	7,049.9	41.9	19.6	-91.37	-5,085.5	48.2	3,395.1	3,340.3	54.81	61.940	
9,000.0	7,059.8	7,132.5	7,049.4	42.6	19.6	-91.34	-5,085.5	48.2	3,353.7	3,298.1	55.56	60.357	
9,055.1	7,059.4	7,131.8	7,048.7	43.6	19.5	-91.30	-5,085.5	48.2	3,301.1	3,244.6	56.53	58.396	
9,100.0	7,059.1	7,131.3	7,048.2	44.3	19.5	-91.27	-5,085.5	48.2	3,258.3	3,201.0	57.32	56.848	
9,153.5	7,058.8	7,130.6	7,047.5	45.2	19.5	-91.23	-5,085.5	48.2	3,207.4	3,149.1	58.26	55.052	
9,200.0	7,058.5	7,130.1	7,046.9	46.0	19.5	-91.20	-5,085.5	48.2	3,163.3	3,104.2	59.08	53.540	
9,251.9	7,058.2	7,129.4	7,046.3	46.9	19.5	-91.16	-5,085.5	48.1	3,114.0	3,054.0	60.00	51.896	
9,300.0	7,057.9	7,128.8	7,045.7	47.7	19.5	-91.13	-5,085.5	48.1	3,068.5	3,007.6	60.86	50.420	
9,350.4	7,057.6	7,128.2	7,045.1	48.6	19.5	-91.09	-5,085.5	48.1	3,020.9	2,959.1	61.76	48.914	
9,400.0	7,057.2	7,127.6	7,044.5	49.4	19.5	-91.06	-5,085.5	48.1	2,974.1	2,911.4	62.65	47.474	
9,448.8	7,056.9	7,127.0	7,043.9	50.3	19.5	-91.02	-5,085.5	48.1	2,928.1	2,864.6	63.52	46.095	
9,500.0	7,056.6	7,126.4	7,043.3	51.1	19.5	-90.99	-5,085.5	48.1	2,880.0	2,815.6	64.44	44.690	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,547.2	7,056.3	7,125.8	7,042.7	52.0	19.5	-90.95	-5,085.5	48.1	2,835.8	2,770.5	65.30	43.429	
9,600.0	7,056.0	7,125.1	7,042.0	52.9	19.5	-90.92	-5,085.5	48.1	2,786.4	2,720.1	66.25	42.059	
9,645.6	7,055.7	7,124.6	7,041.5	53.7	19.5	-90.88	-5,085.5	48.1	2,743.8	2,676.7	67.08	40.905	
9,700.0	7,055.4	7,123.9	7,040.8	54.6	19.5	-90.85	-5,085.5	48.0	2,693.2	2,625.1	68.06	39.570	
9,744.1	7,055.1	7,123.4	7,040.3	55.4	19.5	-90.81	-5,085.5	48.0	2,652.3	2,583.4	68.86	38.515	
9,800.0	7,054.7	7,122.7	7,039.6	56.4	19.5	-90.77	-5,085.5	48.0	2,600.5	2,530.7	69.88	37.213	
9,842.5	7,054.5	7,122.1	7,039.0	57.2	19.5	-90.74	-5,085.5	48.0	2,561.3	2,490.7	70.66	36.249	
9,900.0	7,054.1	7,121.4	7,038.3	58.2	19.5	-90.70	-5,085.5	48.0	2,508.4	2,436.7	71.71	34.981	
9,940.9	7,053.8	7,120.9	7,037.8	58.9	19.5	-90.67	-5,085.5	48.0	2,470.9	2,398.5	72.46	34.101	
10,000.0	7,053.5	7,120.2	7,037.1	60.0	19.5	-90.63	-5,085.5	48.0	2,417.0	2,343.4	73.54	32.866	
10,039.3	7,053.2	7,119.7	7,036.6	60.7	19.5	-90.60	-5,085.6	48.0	2,381.1	2,306.9	74.26	32.064	
10,100.0	7,052.8	7,118.9	7,035.8	61.8	19.5	-90.56	-5,085.6	48.0	2,326.2	2,250.8	75.38	30.861	
10,137.8	7,052.6	7,118.4	7,035.3	62.4	19.5	-90.53	-5,085.6	48.0	2,292.1	2,216.0	76.07	30.130	
10,200.0	7,052.2	7,117.7	7,034.6	63.6	19.5	-90.49	-5,085.6	47.9	2,236.2	2,159.0	77.22	28.960	
10,236.2	7,052.0	7,117.2	7,034.1	64.2	19.5	-90.46	-5,085.6	47.9	2,203.8	2,125.9	77.89	28.296	
10,300.0	7,051.6	7,116.4	7,033.3	65.4	19.5	-90.41	-5,085.6	47.9	2,147.1	2,068.0	79.06	27.157	
10,334.6	7,051.4	7,116.0	7,032.9	66.0	19.5	-90.39	-5,085.6	47.9	2,116.4	2,036.7	79.70	26.554	
10,400.0	7,051.0	7,115.1	7,032.0	67.2	19.5	-90.34	-5,085.6	47.9	2,059.0	1,978.0	80.91	25.447	
10,433.0	7,050.7	7,114.7	7,031.6	67.8	19.5	-90.32	-5,085.6	47.9	2,030.1	1,948.6	81.52	24.902	
10,500.0	7,050.3	7,113.9	7,030.8	69.0	19.5	-90.27	-5,085.6	47.9	1,972.0	1,889.2	82.76	23.827	
10,531.5	7,050.1	7,113.5	7,030.4	69.6	19.5	-90.24	-5,085.6	47.9	1,944.9	1,861.5	83.35	23.334	
10,600.0	7,049.7	7,112.6	7,029.5	70.8	19.5	-90.19	-5,085.6	47.8	1,886.3	1,801.7	84.62	22.292	
10,629.9	7,049.5	7,112.2	7,029.1	71.4	19.5	-90.17	-5,085.6	47.8	1,861.0	1,775.8	85.18	21.849	
10,700.0	7,049.1	7,111.3	7,028.2	72.7	19.5	-90.12	-5,085.6	47.8	1,802.1	1,715.6	86.48	20.839	
10,728.3	7,048.9	7,111.0	7,027.9	73.2	19.5	-90.10	-5,085.6	47.8	1,778.5	1,691.5	87.01	20.442	
10,800.0	7,048.4	7,110.0	7,026.9	74.5	19.5	-90.05	-5,085.6	47.8	1,719.6	1,631.2	88.34	19.466	
10,826.7	7,048.3	7,109.7	7,026.6	75.0	19.5	-90.03	-5,085.6	47.8	1,697.8	1,609.0	88.84	19.111	
10,900.0	7,047.8	7,108.8	7,025.6	76.3	19.5	-89.97	-5,085.6	47.8	1,639.0	1,548.8	90.20	18.170	
10,925.2	7,047.7	7,108.4	7,025.3	76.8	19.5	-89.95	-5,085.6	47.8	1,619.1	1,528.4	90.67	17.856	
11,000.0	7,047.2	7,107.5	7,024.4	78.2	19.5	-89.90	-5,085.6	47.8	1,560.7	1,468.6	92.07	16.951	
11,023.6	7,047.0	7,107.2	7,024.1	78.6	19.5	-89.88	-5,085.6	47.7	1,542.6	1,450.0	92.51	16.675	
11,100.0	7,046.6	7,106.2	7,023.1	80.0	19.5	-89.82	-5,085.6	47.7	1,485.0	1,391.0	93.94	15.808	
11,122.0	7,046.4	7,105.9	7,022.8	80.4	19.5	-89.81	-5,085.6	47.7	1,468.7	1,374.3	94.35	15.567	
11,200.0	7,045.9	7,104.9	7,021.8	81.9	19.5	-89.75	-5,085.7	47.7	1,412.3	1,316.4	95.81	14.741	
11,220.4	7,045.8	7,104.6	7,021.5	82.3	19.5	-89.73	-5,085.7	47.7	1,397.8	1,301.6	96.19	14.532	
11,300.0	7,045.3	7,103.6	7,020.5	83.7	19.5	-89.67	-5,085.7	47.7	1,343.1	1,245.4	97.68	13.750	
11,318.9	7,045.2	7,103.3	7,020.2	84.1	19.5	-89.66	-5,085.7	47.7	1,330.5	1,232.4	98.03	13.572	
11,400.0	7,044.7	7,102.3	7,019.2	85.6	19.5	-89.60	-5,085.7	47.7	1,278.0	1,178.4	99.55	12.838	
11,417.3	7,044.6	7,102.0	7,018.9	85.9	19.5	-89.59	-5,085.7	47.7	1,267.2	1,167.3	99.87	12.688	
11,500.0	7,044.0	7,100.9	7,017.8	87.5	19.5	-89.52	-5,085.7	47.6	1,217.6	1,116.2	101.42	12.005	
11,515.7	7,043.9	7,100.7	7,017.6	87.7	19.5	-89.51	-5,085.7	47.6	1,208.6	1,106.9	101.72	11.882	
11,600.0	7,043.4	7,099.6	7,016.5	89.3	19.5	-89.45	-5,085.7	47.6	1,162.7	1,059.4	103.30	11.256	
11,614.1	7,043.3	7,099.4	7,016.3	89.6	19.5	-89.44	-5,085.7	47.6	1,155.5	1,051.9	103.57	11.157	
11,700.0	7,042.8	7,098.3	7,015.2	91.2	19.5	-89.37	-5,085.7	47.6	1,114.1	1,009.0	105.18	10.593	
11,712.6	7,042.7	7,098.1	7,015.0	91.4	19.5	-89.36	-5,085.7	47.6	1,108.5	1,003.1	105.41	10.516	
11,800.0	7,042.2	7,097.0	7,013.9	93.0	19.5	-89.29	-5,085.7	47.6	1,072.7	965.6	107.06	10.020	
11,811.0	7,042.1	7,096.8	7,013.7	93.2	19.5	-89.29	-5,085.7	47.6	1,068.6	961.4	107.26	9.963	
11,900.0	7,041.5	7,095.7	7,012.6	94.9	19.5	-89.22	-5,085.7	47.5	1,039.3	930.3	108.93	9.540	
11,909.4	7,041.5	7,095.5	7,012.4	95.1	19.5	-89.21	-5,085.7	47.5	1,036.5	927.4	109.11	9.500	
12,000.0	7,040.9	7,094.3	7,011.2	96.8	19.5	-89.14	-5,085.7	47.5	1,014.6	903.8	110.82	9.156	
12,007.8	7,040.8	7,094.2	7,011.1	96.9	19.5	-89.14	-5,085.7	47.5	1,013.1	902.1	110.96	9.130	
12,100.0	7,040.3	7,093.0	7,009.9	98.7	19.5	-89.06	-5,085.7	47.5	999.4	886.7	112.70	8.868	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,106.3	7,040.2	7,092.9	7,009.8	98.8	19.5	-89.06	-5,085.7	47.5	998.7	885.9	112.81	8.853	
12,200.0	7,039.6	7,091.6	7,008.5	100.5	19.5	-88.99	-5,085.7	47.5	994.0	879.5	114.58	8.676	
12,203.3	7,039.6	7,091.6	7,008.5	100.6	19.5	-88.98	-5,085.7	47.5	994.0	879.4	114.64	8.671 CC	
12,204.7	7,039.6	7,091.6	7,008.5	100.6	19.5	-88.98	-5,085.7	47.5	994.0	879.4	114.67	8.669 ES	
12,300.0	7,039.0	7,090.3	7,007.2	102.4	19.5	-88.91	-5,085.8	47.4	998.7	882.3	116.46	8.576	
12,303.1	7,039.0	7,090.2	7,007.1	102.5	19.5	-88.91	-5,085.8	47.4	999.0	882.5	116.52	8.574	
12,400.0	7,038.4	7,088.9	7,005.8	104.3	19.5	-88.83	-5,085.8	47.4	1,013.3	895.0	118.34	8.562 SF	
12,401.5	7,038.4	7,088.9	7,005.8	104.3	19.5	-88.83	-5,085.8	47.4	1,013.6	895.2	118.37	8.563	
12,500.0	7,037.8	7,087.6	7,004.5	106.2	19.5	-88.75	-5,085.8	47.4	1,037.4	917.1	120.23	8.628	
12,598.4	7,037.1	7,086.2	7,003.1	108.0	19.5	-88.68	-5,085.8	47.4	1,069.7	947.6	122.08	8.762	
12,600.0	7,037.1	7,086.2	7,003.1	108.0	19.5	-88.67	-5,085.8	47.4	1,070.3	948.1	122.11	8.765	
12,696.8	7,036.5	7,084.9	7,001.8	109.9	19.5	-88.60	-5,085.8	47.4	1,109.8	985.9	123.94	8.954	
12,700.0	7,036.5	7,084.9	7,001.8	109.9	19.5	-88.60	-5,085.8	47.4	1,111.2	987.2	124.00	8.962	
12,795.2	7,035.9	7,083.5	7,000.4	111.7	19.5	-88.52	-5,085.8	47.3	1,156.9	1,031.1	125.79	9.197	
12,800.0	7,035.9	7,083.5	7,000.4	111.8	19.5	-88.52	-5,085.8	47.3	1,159.4	1,033.5	125.88	9.210	
12,893.7	7,035.3	7,082.2	6,999.1	113.6	19.5	-88.44	-5,085.8	47.3	1,210.2	1,082.6	127.65	9.481	
12,900.0	7,035.2	7,082.1	6,999.0	113.7	19.5	-88.44	-5,085.8	47.3	1,213.9	1,086.1	127.77	9.500	
12,992.1	7,034.7	7,080.8	6,997.7	115.4	19.5	-88.36	-5,085.8	47.3	1,269.0	1,139.4	129.51	9.798	
13,000.0	7,034.6	7,080.7	6,997.6	115.6	19.5	-88.36	-5,085.8	47.3	1,273.9	1,144.2	129.66	9.825	
13,090.5	7,034.0	7,079.5	6,996.4	117.3	19.5	-88.29	-5,085.8	47.3	1,332.4	1,201.0	131.36	10.143	
13,100.0	7,034.0	7,079.3	6,996.2	117.5	19.5	-88.28	-5,085.8	47.3	1,338.7	1,207.1	131.54	10.177	
13,188.9	7,033.4	7,078.1	6,995.0	119.1	19.5	-88.21	-5,085.8	47.2	1,399.8	1,266.6	133.22	10.508	
13,200.0	7,033.4	7,078.0	6,994.9	119.3	19.5	-88.20	-5,085.8	47.2	1,407.6	1,274.2	133.43	10.550	
13,287.4	7,032.8	7,076.7	6,993.6	121.0	19.5	-88.13	-5,085.9	47.2	1,470.8	1,335.7	135.08	10.888	
13,300.0	7,032.7	7,076.6	6,993.5	121.2	19.5	-88.12	-5,085.9	47.2	1,480.1	1,344.8	135.32	10.938	
13,385.8	7,032.2	7,075.4	6,992.3	122.9	19.5	-88.05	-5,085.9	47.2	1,544.7	1,407.8	136.93	11.281	
13,400.0	7,032.1	7,075.2	6,992.1	123.1	19.5	-88.04	-5,085.9	47.2	1,555.6	1,418.4	137.20	11.338	
13,484.2	7,031.6	7,074.0	6,990.9	124.7	19.5	-87.97	-5,085.9	47.2	1,621.3	1,482.5	138.79	11.682	
13,500.0	7,031.5	7,073.8	6,990.7	125.0	19.5	-87.96	-5,085.9	47.2	1,633.8	1,494.7	139.09	11.746	
13,582.6	7,030.9	7,072.6	6,989.5	126.6	19.5	-87.89	-5,085.9	47.1	1,700.1	1,559.5	140.65	12.088	
13,600.0	7,030.8	7,072.3	6,989.2	126.9	19.5	-87.87	-5,085.9	47.1	1,714.2	1,573.3	140.98	12.160	
13,681.1	7,030.3	7,071.2	6,988.1	128.4	19.5	-87.81	-5,085.9	47.1	1,780.9	1,638.4	142.51	12.497	
13,700.0	7,030.2	7,070.9	6,987.8	128.8	19.5	-87.79	-5,085.9	47.1	1,796.6	1,653.8	142.86	12.576	
13,779.5	7,029.7	7,069.8	6,986.7	130.3	19.5	-87.73	-5,085.9	47.1	1,863.4	1,719.0	144.36	12.907	
13,800.0	7,029.6	7,069.5	6,986.4	130.7	19.5	-87.71	-5,085.9	47.1	1,880.7	1,736.0	144.75	12.993	
13,877.9	7,029.1	7,068.4	6,985.3	132.2	19.5	-87.65	-5,085.9	47.1	1,947.3	1,801.1	146.22	13.318	
13,900.0	7,029.0	7,068.1	6,985.0	132.6	19.5	-87.63	-5,085.9	47.1	1,966.3	1,819.7	146.64	13.409	
13,976.3	7,028.5	7,067.0	6,983.9	134.0	19.5	-87.57	-5,085.9	47.0	2,032.6	1,884.5	148.08	13.726	
14,000.0	7,028.3	7,066.7	6,983.6	134.5	19.5	-87.55	-5,085.9	47.0	2,053.2	1,904.7	148.53	13.824	
14,074.8	7,027.9	7,065.6	6,982.5	135.9	19.5	-87.49	-5,085.9	47.0	2,119.0	1,969.0	149.94	14.132	
14,100.0	7,027.7	7,065.2	6,982.1	136.4	19.5	-87.46	-5,085.9	47.0	2,141.3	1,990.9	150.41	14.236	
14,173.2	7,027.2	7,064.2	6,981.1	137.8	19.5	-87.40	-5,085.9	47.0	2,206.4	2,054.6	151.79	14.535	
14,200.0	7,027.1	7,063.8	6,980.7	138.3	19.5	-87.38	-5,086.0	47.0	2,230.3	2,078.0	152.30	14.644	
14,210.5	7,027.0	7,063.6	6,980.5	138.5	19.5	-87.37	-5,086.0	47.0	2,239.7	2,087.2	152.50	14.687	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-32D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 289-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	171.72	-5,118.5	744.6	5,172.4				
98.4	98.4	86.8	86.8	0.1	0.1	171.72	-5,118.5	744.6	5,172.4	5,172.2	0.18	N/A	
100.0	100.0	88.4	88.4	0.1	0.1	171.72	-5,118.5	744.6	5,172.4	5,172.2	0.18	N/A	
196.8	196.8	186.2	186.2	0.3	0.2	171.72	-5,118.5	744.5	5,172.3	5,171.8	0.49	N/A	
200.0	200.0	189.4	189.4	0.3	0.2	171.72	-5,118.5	744.5	5,172.3	5,171.8	0.50	N/A	
295.3	295.3	285.7	285.7	0.5	0.3	171.73	-5,118.4	744.4	5,172.3	5,171.5	0.80	6,434.687	
300.0	300.0	290.4	290.4	0.5	0.3	171.73	-5,118.4	744.4	5,172.3	5,171.5	0.82	6,304.296	
393.7	393.7	385.3	385.3	0.8	0.5	171.72	-5,118.4	744.4	5,172.2	5,171.0	1.22	4,228.368	
400.0	400.0	391.8	391.8	0.8	0.5	171.73	-5,118.4	744.4	5,172.2	5,171.0	1.25	4,135.381	
492.1	492.1	503.3	503.3	1.0	0.7	171.75	-5,118.5	742.6	5,172.1	5,170.4	1.69	3,056.627	
500.0	500.0	529.5	529.5	1.0	0.8	171.75	-5,118.4	741.7	5,172.1	5,170.3	1.77	2,924.239	
590.5	590.5	635.0	634.8	1.2	1.0	171.81	-5,117.7	736.7	5,170.8	5,168.6	2.21	2,338.882	
600.0	600.0	697.0	696.7	1.2	1.2	171.85	-5,117.3	732.6	5,170.7	5,168.3	2.37	2,181.563	
689.0	689.0	810.0	809.3	1.4	1.4	171.96	-5,116.0	722.9	5,168.6	5,165.7	2.83	1,825.095	
700.0	700.0	821.0	820.2	1.4	1.5	171.97	-5,115.9	721.8	5,168.3	5,165.4	2.88	1,792.012	
787.4	787.4	899.1	897.8	1.6	1.7	172.07	-5,115.2	712.8	5,166.1	5,162.9	3.27	1,578.073	
800.0	800.0	910.3	908.9	1.7	1.7	172.08	-5,115.2	711.3	5,165.8	5,162.5	3.33	1,551.376	
885.8	885.8	1,067.0	1,063.7	1.9	2.2	172.35	-5,114.0	687.0	5,163.4	5,159.5	3.93	1,315.022	
900.0	900.0	1,067.0	1,063.7	1.9	2.2	172.35	-5,114.0	687.0	5,162.9	5,159.0	3.96	1,304.311	
984.2	984.2	1,126.6	1,122.3	2.1	2.5	172.47	-5,113.5	676.2	5,160.2	5,155.9	4.31	1,197.044	
1,000.0	1,000.0	1,135.8	1,131.3	2.1	2.5	172.49	-5,113.4	674.4	5,159.7	5,155.3	4.37	1,180.373	
1,082.7	1,082.7	1,195.0	1,189.2	2.3	2.7	172.62	-5,113.7	662.0	5,157.7	5,153.0	4.72	1,093.005	
1,100.0	1,100.0	1,195.0	1,189.2	2.3	2.7	172.62	-5,113.7	662.0	5,157.3	5,152.6	4.76	1,083.981	
1,181.1	1,181.1	1,308.4	1,299.4	2.5	3.3	-112.95	-5,114.6	635.1	5,156.0	5,150.2	5.77	894.040	
1,200.0	1,200.0	1,335.4	1,325.5	2.6	3.4	-112.89	-5,114.8	628.2	5,155.7	5,149.8	5.94	867.866	
1,279.5	1,279.4	1,448.1	1,433.7	2.7	4.0	-112.61	-5,115.3	596.8	5,154.9	5,148.2	6.71	767.797	
1,300.0	1,299.8	1,452.0	1,437.4	2.8	4.0	-112.60	-5,115.3	595.6	5,154.8	5,148.0	6.78	760.506	
1,324.5	1,324.2	1,482.3	1,466.3	2.8	4.2	-112.53	-5,115.5	586.5	5,154.7	5,147.7	7.02	734.384	
1,377.9	1,377.5	1,520.7	1,502.8	2.9	4.4	-112.42	-5,115.8	574.6	5,155.0	5,147.6	7.37	699.055	
1,400.0	1,399.5	1,536.5	1,517.8	3.0	4.5	-112.38	-5,116.0	569.5	5,155.2	5,147.7	7.52	685.505	
1,476.4	1,475.3	1,593.4	1,571.5	3.2	4.9	-112.21	-5,116.9	550.9	5,156.9	5,148.8	8.06	639.785	
1,500.0	1,498.7	1,613.6	1,590.5	3.2	5.0	-112.14	-5,117.2	544.2	5,157.6	5,149.4	8.25	625.037	
1,574.8	1,572.6	1,677.6	1,650.8	3.4	5.5	-111.95	-5,118.5	522.7	5,160.5	5,151.6	8.88	581.270	
1,600.0	1,597.5	1,699.2	1,671.1	3.5	5.6	-111.88	-5,118.9	515.4	5,161.7	5,152.6	9.09	567.902	
1,673.2	1,669.4	1,872.6	1,832.8	3.7	6.9	-111.45	-5,120.6	452.9	5,164.2	5,153.7	10.56	488.955	
1,700.2	1,695.8	1,887.5	1,846.7	3.8	7.0	-111.40	-5,120.7	447.1	5,165.4	5,154.6	10.76	480.086	
1,771.6	1,765.7	1,927.1	1,883.0	4.1	7.3	-111.31	-5,121.2	431.6	5,168.8	5,157.5	11.31	457.061	
1,800.0	1,793.4	1,966.0	1,918.7	4.2	7.6	-111.21	-5,121.9	416.0	5,170.4	5,158.7	11.71	441.571	
1,870.1	1,862.0	2,245.4	2,170.7	4.4	10.0	-110.45	-5,121.2	295.5	5,172.6	5,158.2	14.39	359.466	
1,900.0	1,891.2	2,265.0	2,188.1	4.5	10.2	-110.39	-5,120.8	286.4	5,173.0	5,158.3	14.69	352.247	
1,968.5	1,958.3	2,309.8	2,227.7	4.8	10.7	-110.25	-5,120.1	265.6	5,174.0	5,158.7	15.37	336.577	
2,000.0	1,989.1	2,330.4	2,245.9	4.9	10.9	-110.19	-5,119.8	255.9	5,174.6	5,159.0	15.69	329.842	
2,066.9	2,054.5	2,435.4	2,338.6	5.2	11.8	-109.86	-5,118.3	206.6	5,175.9	5,159.0	16.93	305.779	
2,100.0	2,086.9	2,479.0	2,377.1	5.3	12.2	-109.72	-5,117.3	186.3	5,176.3	5,158.9	17.46	296.486	
2,165.3	2,150.8	2,516.2	2,410.1	5.6	12.6	-109.61	-5,116.5	169.0	5,177.2	5,159.2	18.04	287.005	
2,200.0	2,184.7	2,532.3	2,424.4	5.7	12.7	-109.56	-5,116.3	161.6	5,177.9	5,159.6	18.31	282.716	
2,263.8	2,247.1	2,562.0	2,450.8	6.0	13.0	-109.47	-5,115.9	148.1	5,179.5	5,160.7	18.83	275.090	
2,300.0	2,282.5	2,608.0	2,491.8	6.1	13.4	-109.33	-5,115.7	127.3	5,180.7	5,161.4	19.37	267.409	
2,362.2	2,343.3	2,752.5	2,620.0	6.4	14.7	-108.89	-5,113.5	60.5	5,182.5	5,161.5	20.99	246.957	
2,400.0	2,380.3	2,780.1	2,644.2	6.6	15.0	-108.80	-5,112.9	47.4	5,183.0	5,161.5	21.42	241.929	
2,460.6	2,439.6	2,824.1	2,682.7	6.8	15.5	-108.66	-5,111.9	26.2	5,183.9	5,161.8	22.13	234.269	
2,500.0	2,478.1	2,864.0	2,717.6	7.0	15.9	-108.52	-5,111.1	6.7	5,184.7	5,162.0	22.70	228.363	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,864.0	2,717.6	7.2	15.9	-108.52	-5,111.1	6.7	5,186.1	5,163.1	22.95	225.976	
2,600.0	2,575.9	2,902.9	2,751.4	7.4	16.3	-108.39	-5,110.6	-12.5	5,187.1	5,163.6	23.55	220.298	
2,657.5	2,632.2	2,929.4	2,774.3	7.7	16.6	-108.29	-5,110.4	-25.8	5,189.0	5,164.9	24.08	215.518	
2,700.0	2,673.8	2,948.9	2,791.1	7.8	16.8	-108.22	-5,110.3	-35.6	5,190.7	5,166.2	24.47	212.130	
2,755.9	2,728.4	2,993.0	2,829.1	8.1	17.3	-108.06	-5,110.6	-58.2	5,193.2	5,168.0	25.19	206.165	
2,800.0	2,771.6	2,993.0	2,829.1	8.3	17.3	-108.06	-5,110.6	-58.2	5,195.3	5,169.9	25.38	204.730	
2,854.3	2,824.7	3,027.2	2,858.3	8.5	17.7	-107.94	-5,111.0	-75.8	5,198.2	5,172.2	26.00	199.954	
2,900.0	2,869.4	3,054.2	2,881.4	8.7	18.0	-107.83	-5,111.4	-89.9	5,200.9	5,174.4	26.50	196.258	
2,952.7	2,921.0	3,085.3	2,908.0	8.9	18.3	-107.72	-5,112.0	-106.1	5,204.2	5,177.1	27.08	192.167	
3,000.0	2,967.2	3,121.0	2,938.3	9.2	18.7	-107.58	-5,112.8	-124.9	5,207.3	5,179.6	27.69	188.052	
3,051.2	3,017.3	3,223.5	3,025.9	9.4	19.8	-107.20	-5,114.7	-178.0	5,210.7	5,181.7	29.01	179.586	
3,100.0	3,065.0	3,378.0	3,159.3	9.6	21.4	-106.65	-5,114.5	-256.0	5,212.8	5,182.0	30.82	169.150	
3,149.6	3,113.5	3,378.0	3,159.3	9.8	21.4	-106.65	-5,114.5	-256.0	5,215.0	5,184.0	31.03	168.048	
3,200.0	3,162.8	3,434.5	3,208.5	10.0	21.9	-106.46	-5,114.0	-283.8	5,217.1	5,185.3	31.80	164.049	
3,248.0	3,209.8	3,455.7	3,227.1	10.3	22.1	-106.39	-5,114.0	-294.0	5,219.5	5,187.3	32.22	162.010	
3,300.0	3,260.6	3,506.0	3,271.6	10.5	22.6	-106.23	-5,114.3	-317.4	5,222.6	5,189.7	32.93	158.584	
3,346.4	3,306.1	3,506.0	3,271.6	10.7	22.6	-106.23	-5,114.3	-317.4	5,225.4	5,192.3	33.14	157.695	
3,400.0	3,358.4	3,538.3	3,300.3	10.9	22.9	-106.14	-5,114.8	-332.1	5,229.0	5,195.3	33.66	155.341	
3,444.9	3,402.3	3,575.8	3,333.7	11.1	23.3	-106.03	-5,115.3	-349.1	5,232.0	5,197.8	34.19	153.008	
3,500.0	3,456.3	3,621.8	3,374.8	11.4	23.7	-105.89	-5,116.0	-369.9	5,235.9	5,201.1	34.85	150.239	
3,543.3	3,498.6	3,693.7	3,439.1	11.6	24.3	-105.69	-5,117.0	-402.1	5,239.0	5,203.3	35.68	146.821	
3,600.0	3,554.1	3,781.0	3,517.4	11.8	25.1	-105.45	-5,117.5	-440.6	5,242.5	5,205.8	36.71	142.815	
3,641.7	3,594.9	3,811.9	3,545.2	12.0	25.4	-105.36	-5,117.7	-454.2	5,245.1	5,207.9	37.16	141.132	
3,700.0	3,651.9	3,855.2	3,584.2	12.3	25.7	-105.25	-5,118.0	-473.0	5,248.9	5,211.1	37.80	138.852	
3,740.1	3,691.2	3,892.0	3,617.3	12.5	26.1	-105.15	-5,118.4	-489.0	5,251.6	5,213.3	38.30	137.108	
3,800.0	3,749.7	3,967.8	3,685.4	12.7	26.8	-104.94	-5,119.0	-522.3	5,255.6	5,216.3	39.27	133.835	
3,838.6	3,787.4	4,029.5	3,740.4	12.9	27.3	-104.76	-5,119.1	-550.2	5,258.1	5,218.0	40.02	131.377	
3,900.0	3,847.5	4,148.0	3,844.5	13.2	28.6	-104.39	-5,118.3	-606.8	5,261.3	5,219.8	41.52	126.724	
3,937.0	3,883.7	4,148.0	3,844.5	13.3	28.6	-104.39	-5,118.3	-606.8	5,263.3	5,221.6	41.68	126.272	
4,000.0	3,945.3	4,208.1	3,896.7	13.6	29.2	-104.18	-5,117.7	-636.6	5,266.7	5,224.1	42.61	123.616	
4,035.4	3,980.0	4,226.2	3,912.4	13.8	29.4	-104.12	-5,117.6	-645.6	5,268.9	5,225.9	42.96	122.654	
4,100.0	4,043.1	4,277.0	3,956.4	14.1	29.9	-103.95	-5,117.7	-670.9	5,273.1	5,229.4	43.79	120.425	
4,133.8	4,076.3	4,277.0	3,956.4	14.2	29.9	-103.95	-5,117.7	-670.9	5,275.5	5,231.5	43.94	120.064	
4,200.0	4,141.0	4,362.6	4,030.5	14.5	30.8	-103.66	-5,118.1	-713.8	5,280.1	5,235.0	45.15	116.936	
4,232.3	4,172.5	4,404.8	4,067.0	14.7	31.3	-103.51	-5,118.1	-735.0	5,282.3	5,236.6	45.75	115.457	
4,300.0	4,238.8	4,473.7	4,126.9	15.0	32.0	-103.28	-5,118.0	-769.1	5,286.9	5,240.2	46.76	113.077	
4,330.7	4,268.8	4,505.2	4,154.5	15.1	32.3	-103.18	-5,118.0	-784.2	5,289.0	5,241.8	47.21	112.025	
4,400.0	4,336.6	4,560.1	4,203.1	15.4	32.9	-103.01	-5,118.0	-809.9	5,293.8	5,245.7	48.06	110.153	
4,429.1	4,365.1	4,578.5	4,219.4	15.6	33.0	-102.96	-5,118.0	-818.4	5,295.9	5,247.5	48.36	109.510	
4,500.0	4,434.4	4,623.4	4,259.2	15.9	33.4	-102.83	-5,118.3	-838.9	5,301.3	5,252.2	49.09	107.982	
4,527.5	4,461.3	4,919.0	4,523.9	16.0	36.1	-102.02	-5,113.4	-970.5	5,302.6	5,250.7	51.92	102.133	
4,600.0	4,532.2	4,979.3	4,578.0	16.4	36.7	-101.85	-5,110.8	-996.8	5,304.8	5,252.0	52.78	100.501	
4,626.0	4,557.6	4,996.5	4,593.5	16.5	36.8	-101.81	-5,110.2	-1,004.3	5,305.6	5,252.6	53.05	100.006	
4,700.0	4,630.0	5,047.0	4,639.2	16.8	37.3	-101.68	-5,108.4	-1,025.8	5,308.4	5,254.5	53.83	98.605	
4,724.4	4,653.9	5,176.0	4,756.8	16.9	38.4	-101.38	-5,102.8	-1,078.6	5,308.8	5,253.8	55.01	96.501	
4,800.0	4,727.8	5,241.9	4,817.4	17.3	38.9	-101.24	-5,099.4	-1,104.0	5,310.3	5,254.4	55.85	95.075	
4,822.8	4,750.2	5,257.5	4,831.9	17.4	39.0	-101.21	-5,098.7	-1,109.9	5,310.8	5,254.7	56.08	94.708	
4,900.0	4,825.6	5,304.0	4,875.1	17.7	39.3	-101.13	-5,096.6	-1,126.9	5,312.8	5,256.0	56.78	93.572	
4,921.2	4,846.4	5,304.0	4,875.1	17.8	39.3	-101.13	-5,096.6	-1,126.9	5,313.4	5,256.6	56.87	93.426	
5,000.0	4,923.5	5,360.5	4,928.1	18.2	39.7	-101.03	-5,094.6	-1,146.5	5,316.0	5,258.4	57.60	92.291	
5,019.7	4,942.7	5,370.7	4,937.7	18.3	39.8	-101.02	-5,094.3	-1,150.0	5,316.8	5,259.0	57.76	92.054	
5,100.0	5,021.3	5,432.0	4,995.7	18.6	40.2	-100.94	-5,093.0	-1,169.5	5,320.3	5,261.8	58.52	90.908	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	5,432.0	4,995.7	18.7	40.2	-100.94	-5,093.0	-1,169.5	5,321.1	5,262.5	58.61	90.795	
5,200.0	5,119.1	5,486.1	5,047.2	19.1	40.5	-100.88	-5,092.2	-1,186.1	5,325.2	5,265.9	59.30	89.796	
5,216.5	5,135.3	5,500.3	5,060.7	19.2	40.6	-100.86	-5,092.0	-1,190.5	5,326.1	5,266.6	59.46	89.568	
5,300.0	5,216.9	5,575.3	5,132.2	19.6	41.0	-100.78	-5,091.0	-1,213.5	5,330.5	5,270.2	60.29	88.414	
5,314.9	5,231.5	5,592.1	5,148.1	19.6	41.1	-100.76	-5,090.8	-1,218.5	5,331.3	5,270.8	60.45	88.190	
5,400.0	5,314.7	5,687.5	5,239.6	20.0	41.7	-100.67	-5,089.7	-1,245.7	5,335.7	5,274.4	61.38	86.931	
5,413.4	5,327.8	5,700.2	5,251.9	20.1	41.7	-100.66	-5,089.6	-1,249.1	5,336.4	5,274.9	61.50	86.768	
5,500.0	5,412.5	5,781.4	5,330.4	20.5	42.1	-100.62	-5,088.8	-1,269.6	5,340.9	5,278.6	62.29	85.748	
5,511.8	5,424.1	5,792.5	5,341.1	20.5	42.2	-100.62	-5,088.8	-1,272.3	5,341.5	5,279.1	62.39	85.611	
5,600.0	5,510.3	5,861.5	5,408.4	20.9	42.5	-100.60	-5,088.4	-1,287.7	5,346.3	5,283.2	63.09	84.740	
5,610.2	5,520.3	5,868.8	5,415.6	21.0	42.5	-100.60	-5,088.4	-1,289.3	5,346.9	5,283.7	63.17	84.648	
5,700.0	5,608.2	5,946.0	5,491.2	21.4	42.8	-100.61	-5,088.7	-1,304.4	5,352.2	5,288.3	63.88	83.784	
5,708.6	5,616.6	5,946.0	5,491.2	21.4	42.8	-100.61	-5,088.7	-1,304.4	5,352.7	5,288.8	63.92	83.741	
5,729.2	5,636.7	5,957.3	5,502.4	21.5	42.8	-100.61	-5,088.8	-1,306.5	5,354.0	5,290.0	64.05	83.593	
5,800.0	5,706.1	6,031.8	5,575.9	21.8	43.1	-100.72	-5,089.4	-1,318.6	5,358.2	5,293.7	64.56	82.998	
5,807.1	5,713.1	6,039.3	5,583.2	21.8	43.1	-100.73	-5,089.5	-1,319.6	5,358.6	5,294.0	64.60	82.947	
5,900.0	5,804.7	6,194.3	5,737.2	22.1	43.5	-100.90	-5,090.7	-1,337.8	5,363.2	5,298.0	65.27	82.169	
5,905.5	5,810.2	6,204.8	5,747.7	22.1	43.5	-100.91	-5,090.7	-1,338.8	5,363.5	5,298.1	65.31	82.125	
6,000.0	5,903.9	6,331.0	5,873.5	22.3	43.7	-101.04	-5,090.6	-1,347.9	5,366.3	5,300.5	65.77	81.592	
6,003.9	5,907.8	6,331.0	5,873.5	22.4	43.7	-101.04	-5,090.6	-1,347.9	5,366.4	5,300.6	65.78	81.583	
6,100.0	6,003.4	6,398.0	5,940.4	22.6	43.8	-101.13	-5,090.7	-1,350.8	5,368.7	5,302.6	66.07	81.261	
6,102.3	6,005.7	6,399.4	5,941.8	22.6	43.8	-101.13	-5,090.7	-1,350.9	5,368.8	5,302.7	66.07	81.255	
6,200.0	6,103.2	6,460.0	6,002.4	22.7	43.9	-101.20	-5,091.4	-1,353.0	5,371.2	5,304.9	66.32	80.993	
6,200.8	6,104.0	6,460.0	6,002.4	22.7	43.9	-101.20	-5,091.4	-1,353.0	5,371.3	5,304.9	66.32	80.992	
6,299.2	6,202.3	6,553.9	6,096.3	22.9	43.9	-101.25	-5,092.8	-1,354.8	5,373.5	5,307.0	66.53	80.771	
6,300.0	6,203.1	6,554.7	6,097.0	22.9	43.9	-101.25	-5,092.9	-1,354.8	5,373.5	5,307.0	66.53	80.769	
6,329.4	6,232.5	6,583.9	6,126.2	22.9	44.0	-175.43	-5,093.4	-1,354.9	5,374.1	5,307.5	66.59	80.708	
6,397.6	6,300.8	6,845.0	6,387.3	23.0	44.1	-175.43	-5,093.1	-1,355.3	5,373.9	5,307.1	66.83	80.408	
6,400.0	6,303.1	6,845.0	6,387.3	23.0	44.1	-175.43	-5,093.1	-1,355.3	5,373.9	5,307.0	66.84	80.404	
6,449.4	6,352.5	6,892.5	6,434.8	23.1	44.2	-175.42	-5,092.2	-1,356.0	5,373.0	5,306.0	66.94	80.266	
6,496.0	6,399.2	6,934.3	6,476.6	23.1	44.2	4.39	-5,091.4	-1,356.4	5,370.7	5,303.8	66.88	80.303	
6,500.0	6,403.1	6,937.8	6,480.1	23.1	44.2	4.40	-5,091.4	-1,356.4	5,370.3	5,303.5	66.86	80.319	
6,550.0	6,452.8	7,002.1	6,544.4	23.1	44.3	4.45	-5,090.2	-1,356.9	5,364.3	5,297.8	66.49	80.678	
6,594.5	6,496.6	7,102.0	6,644.3	23.2	44.3	4.53	-5,087.6	-1,358.1	5,355.5	5,289.6	65.94	81.220	
6,600.0	6,502.0	7,102.0	6,644.3	23.2	44.3	4.54	-5,087.6	-1,358.1	5,354.2	5,288.4	65.84	81.318	
6,650.0	6,550.5	7,138.8	6,681.0	23.2	44.4	4.65	-5,086.5	-1,358.8	5,340.8	5,275.9	64.85	82.352	
6,692.9	6,591.4	7,163.0	6,705.2	23.2	44.4	4.76	-5,085.8	-1,359.2	5,326.7	5,262.9	63.76	83.536	
6,700.0	6,598.0	7,166.9	6,709.1	23.2	44.4	4.78	-5,085.7	-1,359.3	5,324.1	5,260.6	63.56	83.759	
6,750.0	6,644.4	7,194.4	6,736.6	23.2	44.4	4.94	-5,085.1	-1,359.9	5,304.4	5,242.4	62.00	85.560	
6,791.3	6,681.6	7,230.0	6,772.2	23.2	44.5	5.11	-5,084.4	-1,360.7	5,285.9	5,225.4	60.51	87.356	
6,800.0	6,689.3	7,230.0	6,772.2	23.2	44.5	5.15	-5,084.4	-1,360.7	5,281.7	5,221.6	60.17	87.782	
6,850.0	6,732.6	7,257.0	6,799.2	23.2	44.5	5.39	-5,083.9	-1,361.4	5,256.1	5,198.0	58.08	90.492	
6,889.7	6,765.7	7,288.6	6,830.8	23.2	44.5	5.63	-5,083.4	-1,362.2	5,233.7	5,177.4	56.27	93.012	
6,900.0	6,774.0	7,296.6	6,838.7	23.2	44.5	5.70	-5,083.2	-1,362.4	5,227.6	5,171.8	55.78	93.721	
6,950.0	6,813.3	7,334.1	6,876.3	23.2	44.6	6.08	-5,082.6	-1,363.3	5,196.3	5,143.1	53.26	97.564	
6,988.2	6,841.9	7,362.0	6,904.2	23.2	44.6	6.42	-5,082.1	-1,364.1	5,170.7	5,119.4	51.21	100.966	
7,000.0	6,850.5	7,371.9	6,914.1	23.2	44.6	6.54	-5,082.0	-1,364.3	5,162.4	5,111.8	50.56	102.103	
7,050.0	6,885.2	7,411.9	6,954.0	23.2	44.7	7.12	-5,081.3	-1,365.5	5,126.0	5,078.3	47.72	107.423	
7,086.6	6,908.9	7,439.1	6,981.2	23.2	44.7	7.64	-5,080.7	-1,366.4	5,097.9	5,052.3	45.56	111.884	
7,100.0	6,917.3	7,448.6	6,990.7	23.2	44.7	7.85	-5,080.5	-1,366.7	5,087.3	5,042.5	44.77	113.639	
7,150.0	6,946.6	7,482.0	7,024.0	23.2	44.7	8.77	-5,079.9	-1,367.9	5,046.5	5,004.7	41.77	120.821	
7,185.0	6,965.5	7,509.0	7,051.0	23.3	44.8	9.59	-5,079.3	-1,368.9	5,016.7	4,977.0	39.70	126.378	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,200.0	6,973.1	7,520.6	7,062.6	23.3	44.8	10.00	-5,079.0	-1,369.3	5,003.7	4,964.9	38.82	128.911	
7,250.0	6,996.5	7,555.9	7,097.8	23.3	44.8	11.64	-5,078.1	-1,370.3	4,959.2	4,923.2	36.02	137.670	
7,283.4	7,010.4	7,576.5	7,118.5	23.4	44.8	13.07	-5,077.6	-1,370.8	4,928.6	4,894.2	34.34	143.537	
7,300.0	7,016.8	7,585.9	7,127.8	23.4	44.9	13.91	-5,077.4	-1,370.9	4,913.2	4,879.6	33.58	146.310	
7,350.0	7,033.8	7,610.5	7,152.5	23.5	44.9	17.26	-5,076.7	-1,371.3	4,866.0	4,834.2	31.81	152.978	
7,381.9	7,043.0	7,620.0	7,162.0	23.6	44.9	20.26	-5,076.4	-1,371.5	4,835.3	4,804.1	31.25	154.727	
7,400.0	7,047.6	7,623.9	7,165.8	23.6	44.9	22.44	-5,076.3	-1,371.5	4,817.7	4,786.5	31.22	154.328	
7,450.0	7,057.9	7,632.2	7,174.2	23.8	44.9	31.52	-5,076.1	-1,371.6	4,768.8	4,736.0	32.73	145.688	
7,480.3	7,062.5	7,635.7	7,177.7	23.9	44.9	40.88	-5,076.0	-1,371.6	4,738.8	4,703.7	35.16	134.788	
7,500.0	7,064.8	7,637.4	7,179.3	24.0	44.9	49.71	-5,075.9	-1,371.7	4,719.3	4,682.0	37.28	126.587	
7,550.0	7,068.3	7,639.3	7,181.2	24.2	44.9	85.60	-5,075.9	-1,371.7	4,669.5	4,630.1	39.46	118.338	
7,578.7	7,068.7	7,638.9	7,180.9	24.4	44.9	109.76	-5,075.9	-1,371.7	4,640.9	4,606.9	34.05	136.283	
7,578.9	7,068.7	7,638.9	7,180.9	24.4	44.9	109.87	-5,075.9	-1,371.7	4,640.8	4,606.8	34.02	136.419	
7,600.0	7,068.6	7,638.3	7,180.2	24.5	44.9	109.78	-5,075.9	-1,371.7	4,619.8	4,585.5	34.24	134.940	
7,677.1	7,068.1	7,635.8	7,177.7	25.1	44.9	109.49	-5,076.0	-1,371.6	4,543.0	4,508.0	35.01	129.756	
7,700.0	7,067.9	7,635.0	7,177.0	25.2	44.9	109.40	-5,076.0	-1,371.6	4,520.3	4,485.0	35.24	128.263	
7,775.6	7,067.4	7,632.6	7,174.5	25.9	44.9	109.11	-5,076.1	-1,371.6	4,445.1	4,409.0	36.10	123.138	
7,800.0	7,067.3	7,631.8	7,173.8	26.1	44.9	109.02	-5,076.1	-1,371.6	4,420.8	4,384.4	36.38	121.531	
7,874.0	7,066.8	7,629.4	7,171.4	26.8	44.9	108.73	-5,076.1	-1,371.6	4,347.2	4,309.8	37.37	116.342	
7,900.0	7,066.7	7,628.6	7,170.5	27.0	44.9	108.63	-5,076.2	-1,371.6	4,321.3	4,283.6	37.71	114.582	
7,972.4	7,066.2	7,626.2	7,168.1	27.8	44.9	108.34	-5,076.2	-1,371.5	4,249.3	4,210.5	38.75	109.662	
8,000.0	7,066.0	7,625.3	7,167.2	28.1	44.9	108.23	-5,076.3	-1,371.5	4,221.8	4,182.7	39.14	107.856	
8,070.8	7,065.6	7,623.0	7,164.9	28.9	44.9	107.95	-5,076.3	-1,371.5	4,151.4	4,111.2	40.21	103.241	
8,100.0	7,065.4	7,622.0	7,164.0	29.3	44.9	107.84	-5,076.4	-1,371.5	4,122.4	4,081.8	40.65	101.412	
8,169.3	7,065.0	7,619.7	7,161.7	30.2	44.9	107.56	-5,076.4	-1,371.5	4,053.6	4,011.8	41.74	97.115	
8,200.0	7,064.8	7,618.7	7,160.7	30.6	44.9	107.43	-5,076.5	-1,371.5	4,023.0	3,980.8	42.22	95.280	
8,267.7	7,064.4	7,615.0	7,156.9	31.5	44.9	106.98	-5,076.6	-1,371.4	3,955.7	3,912.4	43.39	91.172	
8,300.0	7,064.2	7,615.0	7,156.9	31.9	44.9	106.98	-5,076.6	-1,371.4	3,923.7	3,879.8	43.87	89.440	
8,366.1	7,063.7	7,612.3	7,154.3	32.8	44.9	106.65	-5,076.6	-1,371.4	3,858.0	3,813.0	45.00	85.737	
8,400.0	7,063.5	7,610.6	7,152.6	33.3	44.9	106.44	-5,076.7	-1,371.3	3,824.3	3,778.7	45.59	83.887	
8,464.5	7,063.1	7,607.5	7,149.4	34.2	44.9	106.05	-5,076.8	-1,371.3	3,760.2	3,713.5	46.74	80.449	
8,500.0	7,062.9	7,605.7	7,147.7	34.8	44.9	105.84	-5,076.8	-1,371.3	3,725.0	3,677.6	47.37	78.631	
8,563.0	7,062.5	7,602.7	7,144.7	35.7	44.9	105.46	-5,076.9	-1,371.2	3,662.5	3,614.0	48.52	75.489	
8,600.0	7,062.3	7,600.9	7,142.9	36.3	44.9	105.24	-5,077.0	-1,371.2	3,625.7	3,576.5	49.19	73.709	
8,661.4	7,061.9	7,598.0	7,140.0	37.2	44.9	104.87	-5,077.0	-1,371.2	3,564.8	3,514.5	50.32	70.840	
8,700.0	7,061.6	7,596.2	7,138.1	37.8	44.9	104.64	-5,077.1	-1,371.1	3,526.5	3,475.5	51.03	69.101	
8,759.8	7,061.3	7,593.4	7,135.3	38.8	44.9	104.29	-5,077.2	-1,371.1	3,467.1	3,415.0	52.15	66.482	
8,800.0	7,061.0	7,591.5	7,133.5	39.4	44.9	104.05	-5,077.2	-1,371.0	3,427.3	3,374.4	52.90	64.786	
8,858.2	7,060.6	7,588.8	7,130.8	40.3	44.9	103.71	-5,077.3	-1,371.0	3,369.5	3,315.5	54.00	62.397	
8,900.0	7,060.4	7,586.9	7,128.9	41.0	44.9	103.47	-5,077.3	-1,371.0	3,328.1	3,273.3	54.79	60.744	
8,956.7	7,060.0	7,584.3	7,126.3	41.9	44.9	103.15	-5,077.4	-1,370.9	3,271.9	3,216.1	55.87	58.564	
9,000.0	7,059.8	7,582.4	7,124.4	42.6	44.9	102.90	-5,077.5	-1,370.9	3,229.0	3,172.3	56.70	56.954	
9,055.1	7,059.4	7,579.9	7,121.9	43.6	44.8	102.58	-5,077.5	-1,370.8	3,174.4	3,116.7	57.75	54.965	
9,100.0	7,059.1	7,577.9	7,119.9	44.3	44.8	102.33	-5,077.6	-1,370.8	3,130.0	3,071.3	58.62	53.398	
9,153.5	7,058.8	7,575.6	7,117.6	45.2	44.8	102.03	-5,077.6	-1,370.7	3,077.0	3,017.3	59.65	51.583	
9,200.0	7,058.5	7,573.6	7,115.5	46.0	44.8	101.76	-5,077.7	-1,370.7	3,031.0	2,970.4	60.55	50.058	
9,251.9	7,058.2	7,571.3	7,113.3	46.9	44.8	101.47	-5,077.8	-1,370.7	2,979.5	2,918.0	61.56	48.402	
9,300.0	7,057.9	7,569.2	7,111.2	47.7	44.8	101.21	-5,077.8	-1,370.6	2,932.0	2,869.5	62.49	46.918	
9,350.4	7,057.6	7,567.1	7,109.1	48.6	44.8	100.93	-5,077.9	-1,370.6	2,882.2	2,818.7	63.48	45.406	
9,400.0	7,057.2	7,565.0	7,107.0	49.4	44.8	100.66	-5,077.9	-1,370.5	2,833.1	2,768.7	64.45	43.962	
9,448.8	7,056.9	7,562.9	7,104.9	50.3	44.8	100.39	-5,078.0	-1,370.5	2,784.9	2,719.5	65.40	42.581	
9,500.0	7,056.6	7,560.8	7,102.8	51.1	44.8	100.11	-5,078.0	-1,370.4	2,734.3	2,667.9	66.41	41.176	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.3	7,558.8	7,100.8	52.0	44.8	99.86	-5,078.1	-1,370.4	2,687.7	2,620.4	67.34	39.916	
9,600.0	7,056.0	7,556.7	7,098.6	52.9	44.8	99.57	-5,078.1	-1,370.3	2,635.6	2,567.3	68.37	38.548	
9,645.6	7,055.7	7,554.8	7,096.8	53.7	44.8	99.33	-5,078.2	-1,370.3	2,590.6	2,521.3	69.27	37.397	
9,700.0	7,055.4	7,552.6	7,094.6	54.6	44.8	99.04	-5,078.2	-1,370.2	2,537.0	2,466.7	70.35	36.065	
9,744.1	7,055.1	7,550.8	7,092.8	55.4	44.8	98.81	-5,078.3	-1,370.2	2,493.6	2,422.4	71.22	35.014	
9,800.0	7,054.7	7,548.6	7,090.6	56.4	44.8	98.52	-5,078.3	-1,370.1	2,438.5	2,366.2	72.32	33.718	
9,842.5	7,054.5	7,546.9	7,088.9	57.2	44.8	98.29	-5,078.4	-1,370.1	2,396.7	2,323.5	73.16	32.758	
9,900.0	7,054.1	7,544.7	7,086.6	58.2	44.8	98.00	-5,078.4	-1,370.0	2,340.1	2,265.8	74.30	31.495	
9,940.9	7,053.8	7,543.1	7,085.0	58.9	44.8	97.78	-5,078.5	-1,370.0	2,299.9	2,224.8	75.11	30.619	
10,000.0	7,053.5	7,540.8	7,082.8	60.0	44.8	97.48	-5,078.5	-1,369.9	2,241.9	2,165.6	76.28	29.389	
10,039.3	7,053.2	7,539.2	7,081.2	60.7	44.8	97.28	-5,078.6	-1,369.9	2,203.3	2,126.2	77.07	28.590	
10,100.0	7,052.8	7,536.9	7,078.9	61.8	44.8	96.97	-5,078.6	-1,369.8	2,143.8	2,065.6	78.27	27.391	
10,137.8	7,052.6	7,535.5	7,077.5	62.4	44.8	96.78	-5,078.7	-1,369.8	2,106.8	2,027.8	79.02	26.662	
10,200.0	7,052.2	7,533.1	7,075.1	63.6	44.8	96.47	-5,078.7	-1,369.7	2,045.9	1,965.7	80.25	25.493	
10,236.2	7,052.0	7,531.8	7,073.8	64.2	44.8	96.29	-5,078.7	-1,369.6	2,010.5	1,929.5	80.97	24.830	
10,300.0	7,051.6	7,529.4	7,071.4	65.4	44.8	95.97	-5,078.8	-1,369.6	1,948.2	1,866.0	82.24	23.690	
10,334.6	7,051.4	7,528.1	7,070.1	66.0	44.8	95.80	-5,078.8	-1,369.5	1,914.4	1,831.5	82.93	23.086	
10,400.0	7,051.0	7,525.7	7,067.7	67.2	44.8	95.48	-5,078.9	-1,369.5	1,850.8	1,766.5	84.22	21.974	
10,433.0	7,050.7	7,524.5	7,066.5	67.8	44.8	95.32	-5,078.9	-1,369.4	1,818.6	1,733.7	84.88	21.426	
10,500.0	7,050.3	7,522.1	7,064.1	69.0	44.8	95.00	-5,079.0	-1,369.4	1,753.6	1,667.4	86.21	20.341	
10,531.5	7,050.1	7,521.0	7,063.0	69.6	44.8	94.85	-5,079.0	-1,369.3	1,723.1	1,636.2	86.83	19.843	
10,600.0	7,049.7	7,518.6	7,060.6	70.8	44.8	94.52	-5,079.1	-1,369.2	1,656.7	1,568.5	88.19	18.786	
10,629.9	7,049.5	7,517.5	7,059.5	71.4	44.8	94.38	-5,079.1	-1,369.2	1,627.8	1,539.1	88.78	18.335	
10,700.0	7,049.1	7,515.0	7,057.0	72.7	44.8	94.05	-5,079.1	-1,369.1	1,560.3	1,470.1	90.17	17.303	
10,728.3	7,048.9	7,514.0	7,056.1	73.2	44.8	93.91	-5,079.2	-1,369.1	1,533.0	1,442.3	90.73	16.896	
10,800.0	7,048.4	7,511.6	7,053.6	74.5	44.8	93.58	-5,079.2	-1,369.0	1,464.3	1,372.1	92.15	15.890	
10,826.7	7,048.3	7,510.6	7,052.6	75.0	44.8	93.46	-5,079.2	-1,369.0	1,438.7	1,346.0	92.68	15.523	
10,900.0	7,047.8	7,508.1	7,050.1	76.3	44.8	93.12	-5,079.3	-1,368.9	1,368.8	1,274.7	94.13	14.542	
10,925.2	7,047.7	7,507.3	7,049.3	76.8	44.8	93.00	-5,079.3	-1,368.9	1,344.9	1,250.3	94.63	14.213	
11,000.0	7,047.2	7,504.7	7,046.8	78.2	44.8	92.66	-5,079.4	-1,368.8	1,274.1	1,178.0	96.11	13.257	
11,023.6	7,047.0	7,504.0	7,046.0	78.6	44.8	92.55	-5,079.4	-1,368.8	1,251.9	1,155.3	96.57	12.963	
11,100.0	7,046.6	7,501.4	7,043.4	80.0	44.8	92.21	-5,079.4	-1,368.7	1,180.2	1,082.2	98.08	12.034	
11,122.0	7,046.4	7,500.7	7,042.7	80.4	44.8	92.11	-5,079.5	-1,368.6	1,159.7	1,061.2	98.51	11.772	
11,200.0	7,045.9	7,498.1	7,040.1	81.9	44.8	91.77	-5,079.5	-1,368.6	1,087.5	987.4	100.05	10.870	
11,220.4	7,045.8	7,497.5	7,039.5	82.3	44.8	91.68	-5,079.5	-1,368.5	1,068.6	968.2	100.45	10.639	
11,300.0	7,045.3	7,494.9	7,036.9	83.7	44.8	91.33	-5,079.6	-1,368.4	996.1	894.1	102.01	9.764	
11,318.9	7,045.2	7,494.3	7,036.3	84.1	44.8	91.24	-5,079.6	-1,368.4	979.0	876.6	102.38	9.562	
11,400.0	7,044.7	7,491.7	7,033.7	85.6	44.8	90.89	-5,079.7	-1,368.3	906.5	802.5	103.97	8.718	
11,417.3	7,044.6	7,491.1	7,033.1	85.9	44.8	90.82	-5,079.7	-1,368.3	891.2	786.9	104.31	8.544	
11,500.0	7,044.0	7,488.5	7,030.5	87.5	44.8	90.46	-5,079.7	-1,368.2	819.3	713.4	105.93	7.734	
11,515.7	7,043.9	7,488.0	7,030.0	87.7	44.8	90.40	-5,079.7	-1,368.2	805.9	699.6	106.24	7.585	
11,600.0	7,043.4	7,485.6	7,027.6	89.3	44.7	90.07	-5,079.8	-1,368.1	735.4	627.5	107.88	6.817	
11,614.1	7,043.3	7,485.2	7,027.2	89.6	44.7	90.02	-5,079.8	-1,368.1	723.8	615.7	108.15	6.692	
11,700.0	7,042.8	7,482.9	7,024.9	91.2	44.7	89.70	-5,079.8	-1,368.0	655.9	546.1	109.82	5.973	
11,712.6	7,042.7	7,482.6	7,024.6	91.4	44.7	89.66	-5,079.8	-1,368.0	646.4	536.3	110.07	5.873	
11,800.0	7,042.2	7,480.2	7,022.3	93.0	44.7	89.34	-5,079.9	-1,367.9	582.9	471.1	111.76	5.215	
11,811.0	7,042.1	7,479.9	7,022.0	93.2	44.7	89.30	-5,079.9	-1,367.9	575.3	463.4	111.97	5.138	
11,900.0	7,041.5	7,477.6	7,019.6	94.9	44.7	88.98	-5,080.0	-1,367.8	518.9	405.2	113.70	4.564	
11,909.4	7,041.5	7,477.3	7,019.4	95.1	44.7	88.95	-5,080.0	-1,367.8	513.4	399.6	113.88	4.509	
12,000.0	7,040.9	7,474.9	7,017.0	96.8	44.7	88.62	-5,080.0	-1,367.7	467.6	352.0	115.63	4.044	
12,007.8	7,040.8	7,474.7	7,016.8	96.9	44.7	88.59	-5,080.0	-1,367.7	464.3	348.5	115.78	4.010	
12,100.0	7,040.3	7,472.3	7,014.4	98.7	44.7	88.27	-5,080.1	-1,367.6	433.8	316.2	117.56	3.690	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												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
12,106.3	7,040.2	7,472.2	7,014.2	98.8	44.7	88.24	-5,080.1	-1,367.6	432.3	314.6	117.68	3.674	
12,200.0	7,039.6	7,469.7	7,011.8	100.5	44.7	87.91	-5,080.1	-1,367.5	421.4	301.9	119.48	3.527	
12,202.9	7,039.6	7,469.7	7,011.7	100.6	44.7	87.90	-5,080.1	-1,367.5	421.4	301.8	119.54	3.525 CC	
12,204.7	7,039.6	7,469.6	7,011.7	100.6	44.7	87.90	-5,080.1	-1,367.5	421.4	301.8	119.57	3.524 ES, SF	
12,300.0	7,039.0	7,467.1	7,009.2	102.4	44.7	87.56	-5,080.2	-1,367.4	432.4	311.0	121.41	3.562	
12,303.1	7,039.0	7,467.1	7,009.1	102.5	44.7	87.55	-5,080.2	-1,367.4	433.1	311.7	121.47	3.566	
12,400.0	7,038.4	7,464.6	7,006.6	104.3	44.7	87.21	-5,080.2	-1,367.3	465.2	341.9	123.32	3.772	
12,401.5	7,038.4	7,464.5	7,006.6	104.3	44.7	87.21	-5,080.2	-1,367.3	465.8	342.5	123.35	3.777	
12,500.0	7,037.8	7,462.0	7,004.1	106.2	44.7	86.87	-5,080.3	-1,367.2	515.5	390.3	125.24	4.117	
12,598.4	7,037.1	7,459.6	7,001.6	108.0	44.7	86.53	-5,080.3	-1,367.1	577.8	450.7	127.12	4.546	
12,600.0	7,037.1	7,459.5	7,001.6	108.0	44.7	86.52	-5,080.3	-1,367.1	578.9	451.8	127.15	4.553	
12,696.8	7,036.5	7,457.1	6,999.1	109.9	44.7	86.19	-5,080.4	-1,367.0	649.1	520.2	128.99	5.032	
12,700.0	7,036.5	7,457.0	6,999.1	109.9	44.7	86.18	-5,080.4	-1,367.0	651.6	522.5	129.05	5.049	
12,795.2	7,035.9	7,454.6	6,996.7	111.7	44.7	85.86	-5,080.4	-1,367.0	726.8	595.9	130.86	5.554	
12,800.0	7,035.9	7,454.5	6,996.6	111.8	44.7	85.84	-5,080.4	-1,367.0	730.7	599.7	130.95	5.580	
12,893.7	7,035.3	7,452.2	6,994.2	113.6	44.7	85.53	-5,080.5	-1,366.9	809.0	676.2	132.73	6.095	
12,900.0	7,035.2	7,452.0	6,994.1	113.7	44.7	85.51	-5,080.5	-1,366.9	814.4	681.5	132.85	6.130	
12,992.1	7,034.7	7,449.8	6,991.8	115.4	44.7	85.20	-5,080.5	-1,366.8	894.4	759.8	134.59	6.646	
13,000.0	7,034.6	7,449.6	6,991.6	115.6	44.7	85.18	-5,080.5	-1,366.8	901.4	766.7	134.74	6.690	
13,090.5	7,034.0	7,447.4	6,989.4	117.3	44.7	84.88	-5,080.6	-1,366.7	982.3	845.9	136.45	7.199	
13,100.0	7,034.0	7,447.1	6,989.2	117.5	44.7	84.84	-5,080.6	-1,366.7	990.9	854.3	136.63	7.252	
13,188.9	7,033.4	7,445.0	6,987.0	119.1	44.7	84.55	-5,080.6	-1,366.6	1,072.0	933.7	138.30	7.751	
13,200.0	7,033.4	7,444.7	6,986.8	119.3	44.7	84.52	-5,080.6	-1,366.6	1,082.2	943.7	138.51	7.813	
13,287.4	7,032.8	7,442.6	6,984.7	121.0	44.7	84.23	-5,080.7	-1,366.5	1,163.1	1,023.0	140.15	8.299	
13,300.0	7,032.7	7,442.3	6,984.4	121.2	44.7	84.19	-5,080.7	-1,366.5	1,174.9	1,034.5	140.39	8.369	
13,385.8	7,032.2	7,440.2	6,982.3	122.9	44.7	83.91	-5,080.7	-1,366.5	1,255.4	1,113.4	141.99	8.841	
13,400.0	7,032.1	7,439.9	6,982.0	123.1	44.7	83.87	-5,080.7	-1,366.4	1,268.7	1,126.5	142.26	8.918	
13,484.2	7,031.6	7,437.9	6,980.0	124.7	44.7	83.59	-5,080.8	-1,366.4	1,348.5	1,204.6	143.83	9.375	
13,500.0	7,031.5	7,437.5	6,979.6	125.0	44.7	83.54	-5,080.8	-1,366.4	1,363.4	1,219.3	144.13	9.460	
13,582.6	7,030.9	7,435.6	6,977.6	126.6	44.7	83.28	-5,080.8	-1,366.3	1,442.2	1,296.6	145.67	9.901	
13,600.0	7,030.8	7,435.2	6,977.2	126.9	44.7	83.22	-5,080.8	-1,366.3	1,458.8	1,312.9	145.99	9.993	
13,681.1	7,030.3	7,433.3	6,975.3	128.4	44.7	82.97	-5,080.8	-1,366.2	1,536.6	1,389.1	147.50	10.418	
13,700.0	7,030.2	7,432.8	6,974.9	128.8	44.7	82.91	-5,080.9	-1,366.2	1,554.8	1,407.0	147.85	10.516	
13,779.5	7,029.7	7,431.0	6,973.0	130.3	44.7	82.66	-5,080.9	-1,366.1	1,631.5	1,482.1	149.32	10.926	
13,800.0	7,029.6	7,430.5	6,972.6	130.7	44.7	82.59	-5,080.9	-1,366.1	1,651.3	1,501.6	149.70	11.031	
13,877.9	7,029.1	7,428.7	6,970.8	132.2	44.7	82.35	-5,080.9	-1,366.1	1,726.7	1,575.6	151.14	11.425	
13,900.0	7,029.0	7,428.2	6,970.2	132.6	44.7	82.28	-5,080.9	-1,366.1	1,748.1	1,596.6	151.54	11.535	
13,976.3	7,028.5	7,426.4	6,968.5	134.0	44.7	82.05	-5,081.0	-1,366.0	1,822.3	1,669.3	152.95	11.914	
14,000.0	7,028.3	7,425.9	6,967.9	134.5	44.7	81.97	-5,081.0	-1,366.0	1,845.3	1,691.9	153.38	12.030	
14,074.8	7,027.9	7,424.1	6,966.2	135.9	44.7	81.74	-5,081.0	-1,365.9	1,918.1	1,763.4	154.76	12.394	
14,100.0	7,027.7	7,423.6	6,965.7	136.4	44.7	81.67	-5,081.0	-1,365.9	1,942.8	1,787.5	155.22	12.516	
14,173.2	7,027.2	7,421.9	6,964.0	137.8	44.7	81.44	-5,081.1	-1,365.9	2,014.3	1,857.7	156.56	12.866	
14,200.0	7,027.1	7,421.3	6,963.4	138.3	44.7	81.36	-5,081.1	-1,365.8	2,040.5	1,883.4	157.05	12.992	
14,210.5	7,027.0	7,421.1	6,963.2	138.5	44.7	81.33	-5,081.1	-1,365.8	2,050.7	1,893.5	157.24	13.042	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	171.20	-5,118.5	792.0	5,179.4				
98.4	98.4	87.5	87.5	0.1	0.1	171.20	-5,118.5	791.9	5,179.4	5,179.2	0.18	N/A	
100.0	100.0	89.1	89.1	0.1	0.1	171.20	-5,118.5	791.9	5,179.4	5,179.2	0.18	N/A	
196.8	196.8	188.9	188.9	0.3	0.2	171.21	-5,118.5	791.6	5,179.3	5,178.8	0.50	N/A	
200.0	200.0	192.2	192.2	0.3	0.2	171.21	-5,118.5	791.6	5,179.3	5,178.8	0.51	N/A	
295.3	295.3	290.4	290.4	0.5	0.3	171.22	-5,118.4	791.0	5,179.2	5,178.4	0.82	6,323.253	
300.0	300.0	295.2	295.2	0.5	0.3	171.22	-5,118.4	791.0	5,179.2	5,178.3	0.83	6,206.812	
364.5	364.5	351.0	351.0	0.7	0.3	171.22	-5,118.4	790.5	5,179.1	5,178.0	1.03	5,009.508	
393.7	393.7	351.0	351.0	0.8	0.3	171.22	-5,118.4	790.5	5,179.1	5,178.0	1.10	4,710.982	
399.3	399.3	377.5	377.5	0.8	0.4	171.22	-5,118.4	790.2	5,179.1	5,177.9	1.17	4,422.694	
400.0	400.0	377.9	377.9	0.8	0.4	171.22	-5,118.4	790.2	5,179.1	5,177.9	1.17	4,413.813	
492.1	492.1	431.9	431.9	1.0	0.5	171.23	-5,118.8	789.3	5,179.5	5,178.0	1.50	3,451.778	
500.0	500.0	436.5	436.5	1.0	0.5	171.24	-5,118.9	789.2	5,179.6	5,178.1	1.53	3,388.676	
590.5	590.5	479.0	479.0	1.2	0.6	171.25	-5,119.6	788.1	5,180.8	5,179.0	1.83	2,836.555	
600.0	600.0	479.0	479.0	1.2	0.6	171.25	-5,119.6	788.1	5,181.0	5,179.2	1.85	2,804.048	
689.0	689.0	539.2	539.1	1.4	0.8	171.28	-5,121.2	785.8	5,183.0	5,180.8	2.19	2,369.114	
700.0	700.0	544.9	544.7	1.4	0.8	171.28	-5,121.4	785.6	5,183.3	5,181.0	2.23	2,328.805	
787.4	787.4	607.0	606.7	1.6	0.9	171.32	-5,124.0	782.0	5,186.1	5,183.5	2.57	2,020.740	
800.0	800.0	607.0	606.7	1.7	0.9	171.32	-5,124.0	782.0	5,186.5	5,183.9	2.59	1,998.847	
885.8	885.8	630.3	630.0	1.9	1.0	171.34	-5,125.3	780.4	5,190.0	5,187.2	2.85	1,823.612	
900.0	900.0	635.4	635.0	1.9	1.0	171.35	-5,125.6	780.0	5,190.7	5,187.8	2.89	1,795.736	
984.2	984.2	649.0	648.6	2.1	1.0	171.36	-5,126.4	779.0	5,195.3	5,192.2	3.11	1,668.359	
1,000.0	1,000.0	675.2	674.6	2.1	1.1	171.38	-5,128.2	777.1	5,196.1	5,192.9	3.21	1,618.548	
1,082.7	1,082.7	731.0	730.1	2.3	1.3	171.44	-5,132.7	772.8	5,201.6	5,198.1	3.52	1,476.164	
1,100.0	1,100.0	731.0	730.1	2.3	1.3	171.44	-5,132.7	772.8	5,202.7	5,199.2	3.56	1,460.354	
1,181.1	1,181.1	731.0	730.1	2.5	1.3	-114.27	-5,132.7	772.8	5,209.4	5,205.6	3.78	1,377.601	
1,200.0	1,200.0	731.0	730.1	2.6	1.3	-114.24	-5,132.7	772.8	5,211.3	5,207.4	3.82	1,363.166	
1,279.5	1,279.4	801.3	799.8	2.7	1.5	-114.04	-5,139.4	766.5	5,219.4	5,215.2	4.20	1,243.555	
1,300.0	1,299.8	811.1	809.5	2.8	1.5	-113.99	-5,140.4	765.6	5,221.8	5,217.6	4.27	1,223.087	
1,377.9	1,377.5	859.0	856.8	2.9	1.7	-113.78	-5,145.8	760.7	5,231.9	5,227.3	4.58	1,141.240	
1,400.0	1,399.5	859.0	856.8	3.0	1.7	-113.72	-5,145.8	760.7	5,235.0	5,230.4	4.63	1,129.689	
1,476.4	1,475.3	859.0	856.8	3.2	1.7	-113.50	-5,145.8	760.7	5,246.9	5,242.1	4.82	1,088.630	
1,500.0	1,498.7	901.1	898.4	3.2	1.8	-113.43	-5,151.0	756.0	5,250.6	5,245.6	5.02	1,046.891	
1,574.8	1,572.6	932.7	929.4	3.4	2.0	-113.18	-5,155.2	752.2	5,263.8	5,258.5	5.32	989.526	
1,600.0	1,597.5	943.3	939.8	3.5	2.0	-113.09	-5,156.7	750.9	5,268.6	5,263.1	5.42	971.779	
1,673.2	1,669.4	987.0	982.6	3.7	2.2	-112.83	-5,163.2	745.0	5,283.3	5,277.5	5.79	913.184	
1,700.2	1,695.8	987.0	982.6	3.8	2.2	-112.72	-5,163.2	745.0	5,289.0	5,283.1	5.87	901.554	
1,771.6	1,765.7	1,021.8	1,016.7	4.1	2.3	-112.73	-5,168.7	740.1	5,304.6	5,298.4	6.23	850.976	
1,800.0	1,793.4	1,036.5	1,030.9	4.2	2.4	-112.73	-5,171.1	737.9	5,311.0	5,304.6	6.38	832.158	
1,870.1	1,862.0	1,072.6	1,066.1	4.4	2.5	-112.74	-5,177.1	732.4	5,326.9	5,320.1	6.76	787.666	
1,900.0	1,891.2	1,116.0	1,108.3	4.5	2.7	-112.74	-5,184.8	725.3	5,333.9	5,326.9	7.03	758.702	
1,968.5	1,958.3	1,116.0	1,108.3	4.8	2.7	-112.74	-5,184.8	725.3	5,350.0	5,342.7	7.28	734.772	
2,000.0	1,989.1	1,116.0	1,108.3	4.9	2.7	-112.74	-5,184.8	725.3	5,357.6	5,350.2	7.40	724.349	
2,066.9	2,054.5	1,167.8	1,158.4	5.2	3.0	-112.74	-5,194.4	716.4	5,373.9	5,366.0	7.86	683.312	
2,100.0	2,086.9	1,182.9	1,173.0	5.3	3.1	-112.74	-5,197.3	713.8	5,382.1	5,374.0	8.05	668.363	
2,165.3	2,150.8	1,244.0	1,231.8	5.6	3.4	-112.73	-5,209.6	702.6	5,398.9	5,390.3	8.56	630.656	
2,200.0	2,184.7	1,244.0	1,231.8	5.7	3.4	-112.73	-5,209.6	702.6	5,407.7	5,399.0	8.69	621.945	
2,263.8	2,247.1	1,267.8	1,254.6	6.0	3.5	-112.72	-5,214.6	698.1	5,424.3	5,415.3	9.05	599.152	
2,300.0	2,282.5	1,296.4	1,282.1	6.1	3.7	-112.71	-5,220.6	692.6	5,433.9	5,424.6	9.32	582.731	
2,362.2	2,343.3	1,345.5	1,329.0	6.4	4.0	-112.69	-5,231.1	682.9	5,450.4	5,440.7	9.80	556.436	
2,400.0	2,380.3	1,373.0	1,355.3	6.6	4.1	-112.68	-5,237.0	677.4	5,460.6	5,450.5	10.07	542.208	
2,460.6	2,439.6	1,373.0	1,355.3	6.8	4.1	-112.68	-5,237.0	677.4	5,477.1	5,466.8	10.32	530.894	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1													Offset Site Error: 0.0 usft	
Survey Program: 351-MWD													Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,478.1	1,420.6	1,400.6	7.0	4.4	-112.65	-5,247.5	667.4	5,487.8	5,477.1	10.71	512.172		
2,559.0	2,535.9	1,447.7	1,426.3	7.2	4.6	-112.64	-5,253.7	661.4	5,504.3	5,493.2	11.09	496.153		
2,600.0	2,575.9	1,466.5	1,444.0	7.4	4.7	-112.62	-5,258.2	657.0	5,515.9	5,504.6	11.36	485.680		
2,657.5	2,632.2	1,501.0	1,476.5	7.7	5.0	-112.59	-5,266.5	648.8	5,532.5	5,520.7	11.77	470.050		
2,700.0	2,673.8	1,501.0	1,476.5	7.8	5.0	-112.59	-5,266.5	648.8	5,545.0	5,533.0	11.95	464.176		
2,755.9	2,728.4	1,501.0	1,476.5	8.1	5.0	-112.59	-5,266.5	648.8	5,561.8	5,549.6	12.18	456.686		
2,800.0	2,771.6	1,543.4	1,516.1	8.3	5.2	-112.55	-5,277.2	638.3	5,575.0	5,562.4	12.60	442.591		
2,854.3	2,824.7	1,561.8	1,533.3	8.5	5.4	-112.53	-5,282.0	633.8	5,591.7	5,578.8	12.93	432.619		
2,900.0	2,869.4	1,577.2	1,547.7	8.7	5.5	-112.51	-5,286.1	630.0	5,606.0	5,592.8	13.20	424.651		
2,952.7	2,921.0	1,629.0	1,595.7	8.9	5.8	-112.46	-5,300.5	617.1	5,623.1	5,609.4	13.71	410.187		
3,000.0	2,967.2	1,629.0	1,595.7	9.2	5.8	-112.46	-5,300.5	617.1	5,638.2	5,624.3	13.91	405.402		
3,051.2	3,017.3	1,629.0	1,595.7	9.4	5.8	-112.46	-5,300.5	617.1	5,654.9	5,640.8	14.12	400.372		
3,100.0	3,065.0	1,673.4	1,636.8	9.6	6.1	-112.41	-5,313.2	606.0	5,671.1	5,656.6	14.56	389.397		
3,149.6	3,113.5	1,722.1	1,681.9	9.8	6.5	-112.36	-5,327.1	593.8	5,687.6	5,672.5	15.03	378.412		
3,200.0	3,162.8	1,758.0	1,715.1	10.0	6.7	-112.32	-5,337.3	584.9	5,704.3	5,688.8	15.43	369.628		
3,248.0	3,209.8	1,758.0	1,715.1	10.3	6.7	-112.32	-5,337.3	584.9	5,720.5	5,704.8	15.64	365.822		
3,300.0	3,260.6	1,807.4	1,760.6	10.5	7.1	-112.27	-5,351.7	572.1	5,737.9	5,721.8	16.15	355.385		
3,346.4	3,306.1	1,827.4	1,778.9	10.7	7.2	-112.24	-5,357.7	566.7	5,753.8	5,737.4	16.46	349.558		
3,400.0	3,358.4	1,850.4	1,799.9	10.9	7.4	-112.21	-5,364.6	560.3	5,772.4	5,755.6	16.82	343.141		
3,444.9	3,402.3	1,886.0	1,832.1	11.1	7.7	-112.15	-5,375.7	550.1	5,788.2	5,771.0	17.22	336.118		
3,500.0	3,456.3	1,886.0	1,832.1	11.4	7.7	-112.15	-5,375.7	550.1	5,807.7	5,790.3	17.46	332.682		
3,543.3	3,498.6	1,886.0	1,832.1	11.6	7.7	-112.15	-5,375.7	550.1	5,823.4	5,805.7	17.64	330.058		
3,600.0	3,554.1	1,940.1	1,880.9	11.8	8.2	-112.07	-5,392.9	534.2	5,843.8	5,825.6	18.24	320.297		
3,641.7	3,594.9	1,959.4	1,898.3	12.0	8.3	-112.04	-5,399.1	528.5	5,859.1	5,840.5	18.55	315.815		
3,700.0	3,651.9	2,015.0	1,948.0	12.3	8.8	-111.95	-5,417.5	511.9	5,880.8	5,861.6	19.17	306.776		
3,740.1	3,691.2	2,015.0	1,948.0	12.5	8.8	-111.95	-5,417.5	511.9	5,895.7	5,876.3	19.34	304.793		
3,800.0	3,749.7	2,040.7	1,971.0	12.7	9.0	-111.90	-5,426.1	504.1	5,918.2	5,898.4	19.78	299.187		
3,838.6	3,787.4	2,067.0	1,994.4	12.9	9.3	-111.86	-5,435.0	496.0	5,932.8	5,912.7	20.13	294.709		
3,900.0	3,847.5	2,108.7	2,031.2	13.2	9.7	-111.78	-5,449.2	482.7	5,956.3	5,935.6	20.69	287.924		
3,937.0	3,883.7	2,143.0	2,061.4	13.3	10.0	-111.71	-5,460.9	471.4	5,970.4	5,949.4	21.09	283.156		
4,000.0	3,945.3	2,183.3	2,096.8	13.6	10.4	-111.63	-5,474.8	458.0	5,994.7	5,973.0	21.66	276.813		
4,035.4	3,980.0	3,492.0	3,223.3	13.8	22.9	-108.02	-5,798.2	-111.2	6,008.5	5,975.5	32.99	182.144		
4,100.0	4,043.1	3,941.0	3,624.2	14.1	26.6	-106.92	-5,848.5	-306.5	6,020.0	5,983.1	36.92	163.052		
4,133.8	4,076.3	3,941.0	3,624.2	14.2	26.6	-106.92	-5,848.5	-306.5	6,024.5	5,987.4	37.07	162.515		
4,200.0	4,141.0	3,995.6	3,673.8	14.5	27.1	-106.81	-5,852.9	-328.9	6,033.4	5,995.6	37.80	159.594		
4,232.3	4,172.5	4,011.6	3,688.2	14.7	27.2	-106.77	-5,854.2	-335.6	6,037.9	5,999.8	38.08	158.574		
4,300.0	4,238.8	4,069.0	3,739.9	15.0	27.7	-106.64	-5,859.5	-360.0	6,047.7	6,008.8	38.84	155.715		
4,330.7	4,268.8	4,069.0	3,739.9	15.1	27.7	-106.64	-5,859.5	-360.0	6,052.1	6,013.1	38.97	155.285		
4,400.0	4,336.6	4,101.5	3,768.9	15.4	28.0	-106.56	-5,862.7	-374.3	6,062.6	6,023.0	39.58	153.186		
4,429.1	4,365.1	4,120.1	3,785.5	15.6	28.1	-106.51	-5,864.5	-382.5	6,067.1	6,027.2	39.87	152.154		
4,500.0	4,434.4	4,165.0	3,825.2	15.9	28.6	-106.40	-5,869.1	-402.9	6,078.2	6,037.6	40.60	149.726		
4,527.5	4,461.3	4,197.0	3,853.4	16.0	28.8	-106.31	-5,872.4	-417.8	6,082.6	6,041.6	41.01	148.334		
4,600.0	4,532.2	4,264.7	3,912.6	16.4	29.5	-106.13	-5,879.5	-449.9	6,094.3	6,052.3	41.98	145.170		
4,626.0	4,557.6	4,300.4	3,943.7	16.5	29.9	-106.02	-5,883.1	-466.9	6,098.5	6,056.0	42.44	143.697		
4,700.0	4,630.0	4,356.3	3,992.4	16.8	30.4	-105.87	-5,888.7	-493.8	6,110.2	6,067.0	43.29	141.143		
4,724.4	4,653.9	4,369.6	4,004.0	16.9	30.5	-105.83	-5,890.1	-500.1	6,114.2	6,070.7	43.52	140.486		
4,800.0	4,727.8	4,411.0	4,040.3	17.3	30.9	-105.72	-5,894.5	-519.7	6,126.8	6,082.6	44.24	138.499		
4,822.8	4,750.2	4,423.6	4,051.2	17.4	31.1	-105.68	-5,895.9	-525.6	6,130.7	6,086.2	44.45	137.912		
4,900.0	4,825.6	4,454.0	4,078.0	17.7	31.3	-105.60	-5,899.3	-539.8	6,144.1	6,099.0	45.08	136.305		
4,921.2	4,846.4	4,454.0	4,078.0	17.8	31.3	-105.60	-5,899.3	-539.8	6,147.9	6,102.8	45.17	136.103		
5,000.0	4,923.5	4,516.6	4,133.1	18.2	31.9	-105.44	-5,906.8	-568.6	6,162.2	6,116.1	46.05	133.807		
5,019.7	4,942.7	4,526.7	4,142.0	18.3	32.0	-105.41	-5,908.0	-573.2	6,165.8	6,119.6	46.23	133.383		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 351-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,021.3	4,583.0	4,191.6	18.6	32.5	-105.27	-5,915.3	-598.7	6,181.0	6,134.0	47.06	131.340		
5,118.1	5,039.0	4,583.0	4,191.6	18.7	32.5	-105.27	-5,915.3	-598.7	6,184.5	6,137.4	47.14	131.188		
5,200.0	5,119.1	4,676.1	4,273.5	19.1	33.4	-105.03	-5,927.4	-641.3	6,200.3	6,152.0	48.34	128.268		
5,216.5	5,135.3	4,697.7	4,292.4	19.2	33.6	-104.98	-5,930.1	-651.3	6,203.5	6,154.9	48.60	127.632		
5,300.0	5,216.9	4,758.1	4,345.2	19.6	34.2	-104.81	-5,937.8	-679.9	6,219.5	6,169.9	49.55	125.524		
5,314.9	5,231.5	4,767.7	4,353.5	19.6	34.3	-104.79	-5,939.0	-684.4	6,222.4	6,172.7	49.71	125.182		
5,400.0	5,314.7	4,839.0	4,415.3	20.0	35.0	-104.59	-5,948.5	-718.7	6,239.3	6,188.5	50.77	122.895		
5,413.4	5,327.8	4,839.0	4,415.3	20.1	35.0	-104.59	-5,948.5	-718.7	6,241.9	6,191.1	50.83	122.802		
5,500.0	5,412.5	4,910.0	4,476.6	20.5	35.8	-104.39	-5,958.0	-753.3	6,259.4	6,207.5	51.92	120.561		
5,511.8	5,424.1	4,921.4	4,486.4	20.5	35.9	-104.36	-5,959.5	-758.9	6,261.8	6,209.7	52.08	120.225		
5,600.0	5,510.3	5,035.9	4,584.8	20.9	37.1	-104.03	-5,974.6	-815.4	6,279.6	6,226.0	53.58	117.196		
5,610.2	5,520.3	5,053.4	4,599.9	21.0	37.3	-103.98	-5,976.8	-823.9	6,281.6	6,227.8	53.79	116.772		
5,700.0	5,608.2	5,146.4	4,680.6	21.4	38.2	-103.73	-5,988.6	-868.6	6,299.3	6,244.2	55.04	114.456		
5,708.6	5,616.6	5,153.1	4,686.5	21.4	38.3	-103.71	-5,989.4	-871.8	6,301.0	6,245.9	55.13	114.285		
5,729.2	5,636.7	5,169.1	4,700.5	21.5	38.4	-103.67	-5,991.5	-879.2	6,305.1	6,249.7	55.36	113.882		
5,800.0	5,706.1	5,225.0	4,749.6	21.8	38.9	-103.80	-5,998.7	-904.9	6,319.0	6,262.8	56.21	112.416		
5,807.1	5,713.1	5,231.2	4,755.1	21.8	39.0	-103.82	-5,999.6	-907.7	6,320.4	6,264.1	56.29	112.280		
5,900.0	5,804.7	5,321.4	4,834.8	22.1	39.8	-103.92	-6,011.4	-948.0	6,338.2	6,280.8	57.41	110.397		
5,905.5	5,810.2	5,326.7	4,839.6	22.1	39.8	-103.93	-6,012.1	-950.3	6,339.3	6,281.8	57.48	110.292		
6,000.0	5,903.9	5,411.7	4,915.2	22.3	40.6	-104.03	-6,023.4	-987.5	6,356.7	6,298.2	58.50	108.661		
6,003.9	5,907.8	5,415.2	4,918.3	22.4	40.6	-104.03	-6,023.8	-989.0	6,357.4	6,298.9	58.54	108.600		
6,100.0	6,003.4	5,481.0	4,977.1	22.6	41.2	-104.17	-6,032.6	-1,017.2	6,374.7	6,315.3	59.36	107.383		
6,102.3	6,005.7	5,481.0	4,977.1	22.6	41.2	-104.18	-6,032.6	-1,017.2	6,375.1	6,315.7	59.37	107.378		
6,200.0	6,103.2	5,950.6	5,405.4	22.7	44.9	-103.05	-6,085.3	-1,200.8	6,390.1	6,327.2	62.92	101.559		
6,200.8	6,104.0	5,951.2	5,406.1	22.7	45.0	-103.05	-6,085.4	-1,201.0	6,390.2	6,327.3	62.93	101.552		
6,299.2	6,202.3	6,175.3	5,621.9	22.9	46.1	-102.80	-6,102.8	-1,258.4	6,399.3	6,335.2	64.13	99.784		
6,300.0	6,203.1	6,175.6	5,622.2	22.9	46.1	-102.80	-6,102.8	-1,258.5	6,399.4	6,335.3	64.13	99.781		
6,329.4	6,232.5	6,187.1	5,633.3	22.9	46.2	-176.99	-6,103.6	-1,261.2	6,402.1	6,337.8	64.29	99.586		
6,397.6	6,300.8	6,252.0	5,696.3	23.0	46.5	-176.86	-6,109.1	-1,276.1	6,408.8	6,344.2	64.63	99.161		
6,400.0	6,303.1	6,252.0	5,696.3	23.0	46.5	-176.86	-6,109.1	-1,276.1	6,409.0	6,344.4	64.63	99.160		
6,449.4	6,352.5	6,252.0	5,696.3	23.1	46.5	-176.86	-6,109.1	-1,276.1	6,413.8	6,349.1	64.70	99.133		
6,496.0	6,399.2	6,714.4	6,152.5	23.1	47.9	3.51	-6,136.8	-1,343.0	6,415.8	6,350.0	65.83	97.455		
6,500.0	6,403.1	6,726.0	6,164.2	23.1	47.9	3.52	-6,137.1	-1,343.9	6,415.7	6,349.8	65.84	97.440		
6,550.0	6,452.8	6,998.0	6,435.8	23.1	48.3	3.68	-6,140.7	-1,357.2	6,410.9	6,345.0	65.86	97.335		
6,594.5	6,496.6	7,083.7	6,521.4	23.2	48.3	3.73	-6,140.4	-1,358.0	6,403.2	6,337.8	65.39	97.929		
6,600.0	6,502.0	7,093.7	6,531.4	23.2	48.3	3.74	-6,140.3	-1,358.1	6,402.0	6,336.7	65.31	98.027		
6,650.0	6,550.5	7,171.5	6,609.2	23.2	48.4	3.83	-6,139.6	-1,358.7	6,389.5	6,325.0	64.43	99.165		
6,692.9	6,591.4	7,219.6	6,657.4	23.2	48.4	3.92	-6,139.0	-1,358.9	6,375.9	6,312.5	63.43	100.521		
6,700.0	6,598.0	7,227.5	6,665.2	23.2	48.4	3.93	-6,138.9	-1,358.9	6,373.4	6,310.2	63.24	100.778		
6,750.0	6,644.4	7,279.0	6,716.7	23.2	48.4	4.06	-6,138.2	-1,358.9	6,354.1	6,292.3	61.76	102.881		
6,791.3	6,681.6	7,301.4	6,739.1	23.2	48.5	4.19	-6,137.9	-1,358.9	6,335.7	6,275.4	60.31	105.046		
6,800.0	6,689.3	7,305.7	6,743.4	23.2	48.5	4.22	-6,137.9	-1,358.9	6,331.6	6,271.6	59.99	105.551		
6,850.0	6,732.6	7,330.0	6,767.7	23.2	48.5	4.40	-6,137.6	-1,358.8	6,306.3	6,248.3	57.95	108.824		
6,889.7	6,765.7	7,348.7	6,786.4	23.2	48.5	4.58	-6,137.5	-1,358.6	6,284.1	6,227.9	56.15	111.911		
6,900.0	6,774.0	7,369.3	6,807.0	23.2	48.5	4.63	-6,137.4	-1,358.5	6,278.1	6,222.4	55.67	112.767		
6,950.0	6,813.3	7,369.3	6,807.0	23.2	48.5	4.90	-6,137.4	-1,358.5	6,247.2	6,194.0	53.15	117.531		
6,988.2	6,841.9	7,391.9	6,829.6	23.2	48.5	5.15	-6,137.4	-1,358.3	6,221.9	6,170.8	51.10	121.753		
7,000.0	6,850.5	7,396.8	6,834.5	23.2	48.5	5.23	-6,137.4	-1,358.3	6,213.7	6,163.3	50.44	123.179		
7,050.0	6,885.2	7,407.0	6,844.7	23.2	48.5	5.63	-6,137.4	-1,358.2	6,177.9	6,130.3	47.56	129.902		
7,086.6	6,908.9	7,433.6	6,871.2	23.2	48.5	6.00	-6,137.5	-1,357.9	6,150.2	6,104.8	45.37	135.570		
7,100.0	6,917.3	7,439.0	6,876.7	23.2	48.5	6.14	-6,137.6	-1,357.8	6,139.8	6,095.2	44.55	137.823		
7,150.0	6,946.6	7,458.4	6,896.1	23.2	48.5	6.78	-6,137.7	-1,357.6	6,099.5	6,058.1	41.45	147.157		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,185.0	6,965.5	7,470.9	6,908.6	23.3	48.5	7.32	-6,137.8	-1,357.5	6,070.2	6,030.9	39.27	154.576		
7,200.0	6,973.1	7,475.9	6,913.6	23.3	48.5	7.59	-6,137.8	-1,357.4	6,057.4	6,019.1	38.34	158.012		
7,250.0	6,996.5	7,491.6	6,929.3	23.3	48.5	8.66	-6,138.0	-1,357.3	6,013.5	5,978.2	35.31	170.324		
7,283.4	7,010.4	7,501.0	6,938.7	23.4	48.6	9.58	-6,138.1	-1,357.2	5,983.3	5,949.9	33.41	179.114		
7,300.0	7,016.8	7,505.3	6,943.0	23.4	48.6	10.11	-6,138.1	-1,357.1	5,968.1	5,935.6	32.52	183.515		
7,350.0	7,033.8	7,536.0	6,973.7	23.5	48.6	12.30	-6,138.5	-1,356.8	5,921.5	5,891.2	30.28	195.576		
7,381.9	7,043.0	7,536.0	6,973.7	23.6	48.6	14.14	-6,138.5	-1,356.8	5,891.1	5,861.8	29.31	201.010		
7,400.0	7,047.6	7,536.0	6,973.7	23.6	48.6	15.45	-6,138.5	-1,356.8	5,873.7	5,844.7	29.00	202.506		
7,450.0	7,057.9	7,536.0	6,973.7	23.8	48.6	20.74	-6,138.5	-1,356.8	5,825.0	5,795.3	29.66	196.376		
7,480.3	7,062.5	7,537.7	6,975.4	23.9	48.6	26.10	-6,138.5	-1,356.8	5,795.2	5,763.4	31.74	182.582		
7,500.0	7,064.8	7,540.6	6,978.3	24.0	48.6	31.26	-6,138.5	-1,356.7	5,775.7	5,741.5	34.16	169.091		
7,550.0	7,068.3	7,545.3	6,983.0	24.2	48.6	56.80	-6,138.6	-1,356.7	5,726.0	5,681.3	44.66	128.201		
7,578.7	7,068.7	7,546.2	6,983.9	24.4	48.6	84.84	-6,138.6	-1,356.7	5,697.4	5,649.6	47.76	119.291		
7,578.9	7,068.7	7,546.2	6,983.9	24.4	48.6	84.99	-6,138.6	-1,356.7	5,697.2	5,649.5	47.75	119.319		
7,600.0	7,068.6	7,546.3	6,984.0	24.5	48.6	85.02	-6,138.6	-1,356.7	5,676.1	5,628.2	47.96	118.363		
7,677.1	7,068.1	7,547.0	6,984.6	25.1	48.6	85.10	-6,138.6	-1,356.7	5,599.2	5,550.5	48.69	114.988		
7,700.0	7,067.9	7,547.1	6,984.8	25.2	48.6	85.13	-6,138.6	-1,356.7	5,576.4	5,527.5	48.91	114.008		
7,775.6	7,067.4	7,547.7	6,985.4	25.9	48.6	85.21	-6,138.6	-1,356.7	5,501.0	5,451.3	49.72	110.633		
7,800.0	7,067.3	7,547.9	6,985.6	26.1	48.6	85.24	-6,138.6	-1,356.7	5,476.7	5,426.7	49.99	109.566		
7,874.0	7,066.8	7,548.5	6,986.2	26.8	48.6	85.32	-6,138.6	-1,356.7	5,402.9	5,352.0	50.92	106.101		
7,900.0	7,066.7	7,548.7	6,986.4	27.0	48.6	85.35	-6,138.6	-1,356.6	5,377.0	5,325.7	51.25	104.914		
7,972.4	7,066.2	7,549.3	6,987.0	27.8	48.6	85.43	-6,138.7	-1,356.6	5,304.7	5,252.5	52.23	101.567		
8,000.0	7,066.0	7,549.5	6,987.2	28.1	48.6	85.46	-6,138.7	-1,356.6	5,277.3	5,224.6	52.60	100.325		
8,070.8	7,065.6	7,550.1	6,987.7	28.9	48.6	85.54	-6,138.7	-1,356.6	5,206.6	5,153.0	53.61	97.123		
8,100.0	7,065.4	7,550.3	6,988.0	29.3	48.6	85.57	-6,138.7	-1,356.6	5,177.6	5,123.5	54.02	95.841		
8,169.3	7,065.0	7,550.8	6,988.5	30.2	48.6	85.64	-6,138.7	-1,356.6	5,108.5	5,053.4	55.05	92.800		
8,200.0	7,064.8	7,551.1	6,988.8	30.6	48.6	85.68	-6,138.7	-1,356.6	5,077.9	5,022.4	55.50	91.487		
8,267.7	7,064.4	7,551.6	6,989.3	31.5	48.6	85.75	-6,138.7	-1,356.6	5,010.4	4,953.9	56.54	88.616		
8,300.0	7,064.2	7,551.9	6,989.5	31.9	48.6	85.79	-6,138.7	-1,356.6	4,978.2	4,921.2	57.04	87.283		
8,366.1	7,063.7	7,552.4	6,990.0	32.8	48.6	85.86	-6,138.7	-1,356.6	4,912.3	4,854.2	58.08	84.583		
8,400.0	7,063.5	7,552.6	6,990.3	33.3	48.6	85.89	-6,138.7	-1,356.6	4,878.5	4,819.9	58.61	83.237		
8,464.5	7,063.1	7,553.1	6,990.8	34.2	48.6	85.96	-6,138.7	-1,356.6	4,814.2	4,754.6	59.65	80.708		
8,500.0	7,062.9	7,553.4	6,991.1	34.8	48.6	86.00	-6,138.7	-1,356.6	4,778.9	4,718.7	60.22	79.356		
8,563.0	7,062.5	7,553.9	6,991.6	35.7	48.6	86.07	-6,138.7	-1,356.6	4,716.2	4,654.9	61.26	76.991		
8,600.0	7,062.3	7,554.2	6,991.8	36.3	48.6	86.11	-6,138.7	-1,356.6	4,679.3	4,617.4	61.86	75.638		
8,661.4	7,061.9	7,554.6	6,992.3	37.2	48.6	86.18	-6,138.7	-1,356.6	4,618.1	4,555.2	62.89	73.432		
8,700.0	7,061.6	7,554.9	6,992.6	37.8	48.6	86.22	-6,138.7	-1,356.6	4,579.7	4,516.1	63.53	72.082		
8,759.8	7,061.3	7,555.4	6,993.1	38.8	48.6	86.28	-6,138.7	-1,356.6	4,520.1	4,455.5	64.55	70.028		
8,800.0	7,061.0	7,555.7	6,993.4	39.4	48.6	86.33	-6,138.7	-1,356.6	4,480.1	4,414.8	65.23	68.684		
8,858.2	7,060.6	7,556.1	6,993.8	40.3	48.6	86.39	-6,138.7	-1,356.6	4,422.1	4,355.8	66.22	66.773		
8,900.0	7,060.4	7,556.5	6,994.1	41.0	48.6	86.43	-6,138.7	-1,356.6	4,380.5	4,313.5	66.94	65.439		
8,956.7	7,060.0	7,556.9	6,994.6	41.9	48.6	86.49	-6,138.8	-1,356.6	4,324.1	4,256.1	67.92	63.663		
9,000.0	7,059.8	7,557.2	6,994.9	42.6	48.6	86.54	-6,138.8	-1,356.5	4,280.9	4,212.3	68.67	62.339		
9,055.1	7,059.4	7,557.6	6,995.3	43.6	48.6	86.60	-6,138.8	-1,356.5	4,226.1	4,156.4	69.63	60.690		
9,100.0	7,059.1	7,558.0	6,995.6	44.3	48.6	86.64	-6,138.8	-1,356.5	4,181.4	4,111.0	70.42	59.380		
9,153.5	7,058.8	7,558.4	6,996.1	45.2	48.6	86.70	-6,138.8	-1,356.5	4,128.1	4,056.8	71.36	57.849		
9,200.0	7,058.5	7,558.7	6,996.4	46.0	48.6	86.75	-6,138.8	-1,356.5	4,081.9	4,009.7	72.18	56.553		
9,251.9	7,058.2	7,559.1	6,996.8	46.9	48.6	86.80	-6,138.8	-1,356.5	4,030.2	3,957.1	73.10	55.133		
9,300.0	7,057.9	7,559.5	6,997.1	47.7	48.6	86.86	-6,138.8	-1,356.5	3,982.4	3,908.4	73.95	53.852		
9,350.4	7,057.6	7,559.8	6,997.5	48.6	48.6	86.91	-6,138.8	-1,356.5	3,932.3	3,857.4	74.85	52.536		
9,400.0	7,057.2	7,560.2	6,997.9	49.4	48.6	86.96	-6,138.8	-1,356.5	3,882.9	3,807.2	75.73	51.271		
9,448.8	7,056.9	7,560.6	6,998.3	50.3	48.6	87.01	-6,138.8	-1,356.5	3,834.4	3,757.8	76.61	50.052		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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		
9,500.0	7,056.6	7,561.0	6,998.6	51.1	48.6	87.06	-6,138.8	-1,356.5	3,783.5	3,706.0	77.53	48.802		
9,547.2	7,056.3	7,561.3	6,999.0	52.0	48.6	87.11	-6,138.8	-1,356.5	3,736.5	3,658.2	78.38	47.674		
9,600.0	7,056.0	7,561.7	6,999.4	52.9	48.6	87.17	-6,138.8	-1,356.5	3,684.1	3,604.8	79.33	46.441		
9,645.6	7,055.7	7,562.0	6,999.7	53.7	48.6	87.22	-6,138.8	-1,356.5	3,638.7	3,558.6	80.15	45.397		
9,700.0	7,055.4	7,562.4	7,000.1	54.6	48.6	87.27	-6,138.8	-1,356.5	3,584.7	3,503.6	81.14	44.181		
9,744.1	7,055.1	7,562.8	7,000.4	55.4	48.6	87.32	-6,138.8	-1,356.5	3,540.9	3,459.0	81.94	43.215		
9,800.0	7,054.7	7,563.2	7,000.8	56.4	48.6	87.38	-6,138.8	-1,356.5	3,485.4	3,402.4	82.95	42.016		
9,842.5	7,054.5	7,563.5	7,001.2	57.2	48.6	87.42	-6,138.8	-1,356.5	3,443.2	3,359.4	83.73	41.124		
9,900.0	7,054.1	7,563.9	7,001.6	58.2	48.6	87.48	-6,138.8	-1,356.5	3,386.1	3,301.3	84.78	39.942		
9,940.9	7,053.8	7,564.2	7,001.9	58.9	48.6	87.52	-6,138.9	-1,356.5	3,345.5	3,259.9	85.52	39.117		
10,000.0	7,053.5	7,564.6	7,002.3	60.0	48.6	87.58	-6,138.9	-1,356.5	3,286.8	3,200.2	86.60	37.953		
10,039.3	7,053.2	7,564.9	7,002.6	60.7	48.6	87.62	-6,138.9	-1,356.5	3,247.8	3,160.5	87.32	37.192		
10,100.0	7,052.8	7,565.4	7,003.0	61.8	48.6	87.68	-6,138.9	-1,356.5	3,187.6	3,099.2	88.44	36.044		
10,137.8	7,052.6	7,565.6	7,003.3	62.4	48.6	87.72	-6,138.9	-1,356.5	3,150.2	3,061.0	89.13	35.343		
10,200.0	7,052.2	7,566.1	7,003.8	63.6	48.6	87.78	-6,138.9	-1,356.4	3,088.5	2,998.2	90.27	34.212		
10,236.2	7,052.0	7,566.3	7,004.0	64.2	48.6	87.82	-6,138.9	-1,356.4	3,052.6	2,961.6	90.94	33.567		
10,300.0	7,051.6	7,566.8	7,004.5	65.4	48.6	87.89	-6,138.9	-1,356.4	2,989.4	2,897.2	92.12	32.452		
10,334.6	7,051.4	7,567.1	7,004.7	66.0	48.6	87.92	-6,138.9	-1,356.4	2,955.1	2,862.3	92.76	31.859		
10,400.0	7,051.0	7,567.5	7,005.2	67.2	48.6	87.99	-6,138.9	-1,356.4	2,890.3	2,796.4	93.96	30.760		
10,433.0	7,050.7	7,567.8	7,005.4	67.8	48.6	88.02	-6,138.9	-1,356.4	2,857.6	2,763.0	94.57	30.216		
10,500.0	7,050.3	7,568.2	7,005.9	69.0	48.6	88.09	-6,138.9	-1,356.4	2,791.4	2,695.5	95.81	29.134		
10,531.5	7,050.1	7,568.5	7,006.1	69.6	48.6	88.12	-6,138.9	-1,356.4	2,760.2	2,663.8	96.39	28.635		
10,600.0	7,049.7	7,568.9	7,006.6	70.8	48.6	88.19	-6,138.9	-1,356.4	2,692.5	2,594.8	97.66	27.568		
10,629.9	7,049.5	7,569.2	7,006.8	71.4	48.6	88.22	-6,138.9	-1,356.4	2,662.9	2,564.7	98.22	27.112		
10,700.0	7,049.1	7,569.7	7,007.3	72.7	48.6	88.29	-6,138.9	-1,356.4	2,593.6	2,494.1	99.52	26.062		
10,728.3	7,048.9	7,569.9	7,007.5	73.2	48.6	88.32	-6,138.9	-1,356.4	2,565.7	2,465.6	100.05	25.645		
10,800.0	7,048.4	7,570.4	7,008.0	74.5	48.6	88.39	-6,138.9	-1,356.4	2,494.9	2,393.5	101.38	24.610		
10,826.7	7,048.3	7,570.6	7,008.2	75.0	48.6	88.42	-6,138.9	-1,356.4	2,468.5	2,366.7	101.88	24.231		
10,900.0	7,047.8	7,571.1	7,008.7	76.3	48.6	88.49	-6,138.9	-1,356.4	2,396.3	2,293.1	103.24	23.211		
10,925.2	7,047.7	7,571.2	7,008.9	76.8	48.6	88.51	-6,138.9	-1,356.4	2,371.5	2,267.8	103.71	22.867		
11,000.0	7,047.2	7,571.8	7,009.4	78.2	48.6	88.59	-6,139.0	-1,356.4	2,297.8	2,192.7	105.10	21.863		
11,023.6	7,047.0	7,571.9	7,009.6	78.6	48.6	88.61	-6,139.0	-1,356.4	2,274.6	2,169.1	105.54	21.551		
11,100.0	7,046.6	7,572.5	7,010.1	80.0	48.6	88.69	-6,139.0	-1,356.4	2,199.5	2,092.5	106.97	20.562		
11,122.0	7,046.4	7,572.6	7,010.3	80.4	48.6	88.71	-6,139.0	-1,356.4	2,177.8	2,070.5	107.38	20.282		
11,200.0	7,045.9	7,573.2	7,010.8	81.9	48.6	88.78	-6,139.0	-1,356.4	2,101.3	1,992.4	108.84	19.307		
11,220.4	7,045.8	7,573.3	7,011.0	82.3	48.6	88.80	-6,139.0	-1,356.4	2,081.2	1,972.0	109.22	19.056		
11,300.0	7,045.3	7,573.9	7,011.5	83.7	48.6	88.88	-6,139.0	-1,356.4	2,003.3	1,892.5	110.70	18.095		
11,318.9	7,045.2	7,574.0	7,011.7	84.1	48.6	88.90	-6,139.0	-1,356.3	1,984.8	1,873.7	111.06	17.872		
11,400.0	7,044.7	7,574.6	7,012.2	85.6	48.6	88.98	-6,139.0	-1,356.3	1,905.4	1,792.9	112.58	16.926		
11,417.3	7,044.6	7,574.7	7,012.4	85.9	48.6	89.00	-6,139.0	-1,356.3	1,888.5	1,775.6	112.90	16.728		
11,500.0	7,044.0	7,575.2	7,012.9	87.5	48.6	89.08	-6,139.0	-1,356.3	1,807.9	1,693.4	114.45	15.796		
11,515.7	7,043.9	7,575.4	7,013.0	87.7	48.6	89.09	-6,139.0	-1,356.3	1,792.5	1,677.8	114.74	15.622		
11,600.0	7,043.4	7,575.9	7,013.6	89.3	48.6	89.17	-6,139.0	-1,356.3	1,710.6	1,594.2	116.32	14.705		
11,614.1	7,043.3	7,576.0	7,013.7	89.6	48.6	89.19	-6,139.0	-1,356.3	1,696.8	1,580.2	116.59	14.554		
11,700.0	7,042.8	7,576.6	7,014.3	91.2	48.6	89.27	-6,139.0	-1,356.3	1,613.6	1,495.4	118.20	13.652		
11,712.6	7,042.7	7,576.7	7,014.4	91.4	48.6	89.28	-6,139.0	-1,356.3	1,601.4	1,483.0	118.43	13.522		
11,800.0	7,042.2	7,577.3	7,015.0	93.0	48.6	89.37	-6,139.0	-1,356.3	1,517.0	1,396.9	120.07	12.634		
11,811.0	7,042.1	7,577.4	7,015.0	93.2	48.6	89.38	-6,139.0	-1,356.3	1,506.4	1,386.1	120.28	12.524		
11,900.0	7,041.5	7,578.0	7,015.7	94.9	48.6	89.46	-6,139.0	-1,356.3	1,420.9	1,299.0	121.95	11.652		
11,909.4	7,041.5	7,578.0	7,015.7	95.1	48.6	89.47	-6,139.0	-1,356.3	1,411.9	1,289.8	122.13	11.561		
12,000.0	7,040.9	7,578.7	7,016.3	96.8	48.6	89.56	-6,139.0	-1,356.3	1,325.4	1,201.6	123.83	10.703		
12,007.8	7,040.8	7,578.7	7,016.4	96.9	48.6	89.56	-6,139.0	-1,356.3	1,317.9	1,194.0	123.98	10.630		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST DD NEI C18-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 351-MWD												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,100.0	7,040.3	7,579.3	7,017.0	98.7	48.6	89.65	-6,139.0	-1,356.3	1,230.6	1,104.9	125.71	9.789	
12,106.3	7,040.2	7,579.4	7,017.0	98.8	48.6	89.66	-6,139.0	-1,356.3	1,224.7	1,098.8	125.83	9.733	
12,200.0	7,039.6	7,580.0	7,017.7	100.5	48.6	89.75	-6,139.1	-1,356.3	1,136.7	1,009.1	127.59	8.909	
12,204.7	7,039.6	7,580.0	7,017.7	100.6	48.6	89.75	-6,139.1	-1,356.3	1,132.3	1,004.6	127.68	8.868	
12,300.0	7,039.0	7,580.7	7,018.3	102.4	48.6	89.84	-6,139.1	-1,356.3	1,043.9	914.4	129.47	8.063	
12,303.1	7,039.0	7,580.7	7,018.4	102.5	48.6	89.84	-6,139.1	-1,356.3	1,041.0	911.5	129.53	8.037	
12,400.0	7,038.4	7,581.3	7,019.0	104.3	48.6	89.94	-6,139.1	-1,356.3	952.5	821.2	131.35	7.252	
12,401.5	7,038.4	7,581.3	7,019.0	104.3	48.6	89.94	-6,139.1	-1,356.3	951.1	819.8	131.38	7.239	
12,500.0	7,037.8	7,582.0	7,019.7	106.2	48.6	90.03	-6,139.1	-1,356.2	863.1	729.9	133.24	6.478	
12,598.4	7,037.1	7,582.7	7,020.3	108.0	48.6	90.12	-6,139.1	-1,356.2	777.7	642.6	135.09	5.757	
12,600.0	7,037.1	7,582.7	7,020.3	108.0	48.6	90.12	-6,139.1	-1,356.2	776.3	641.2	135.12	5.745	
12,696.8	7,036.5	7,583.3	7,021.0	109.9	48.6	90.21	-6,139.1	-1,356.2	695.6	558.7	136.94	5.080	
12,700.0	7,036.5	7,583.3	7,021.0	109.9	48.6	90.22	-6,139.1	-1,356.2	693.0	556.0	137.00	5.059	
12,795.2	7,035.9	7,584.0	7,021.6	111.7	48.6	90.30	-6,139.1	-1,356.2	618.4	479.6	138.80	4.455	
12,800.0	7,035.9	7,584.0	7,021.7	111.8	48.6	90.31	-6,139.1	-1,356.2	614.8	475.9	138.89	4.426	
12,893.7	7,035.3	7,584.6	7,022.3	113.6	48.6	90.40	-6,139.1	-1,356.2	547.9	407.3	140.65	3.896	
12,900.0	7,035.2	7,584.6	7,022.3	113.7	48.6	90.40	-6,139.1	-1,356.2	543.7	402.9	140.77	3.862	
12,992.1	7,034.7	7,585.2	7,022.9	115.4	48.6	90.49	-6,139.1	-1,356.2	487.3	344.8	142.51	3.419	
13,000.0	7,034.6	7,585.3	7,023.0	115.6	48.6	90.49	-6,139.1	-1,356.2	483.0	340.3	142.66	3.386	
13,090.5	7,034.0	7,585.9	7,023.6	117.3	48.6	90.58	-6,139.1	-1,356.2	440.5	296.2	144.36	3.052	
13,100.0	7,034.0	7,585.9	7,023.6	117.5	48.6	90.59	-6,139.1	-1,356.2	436.9	292.4	144.54	3.023	
13,188.9	7,033.4	7,586.5	7,024.2	119.1	48.6	90.67	-6,139.1	-1,356.2	412.4	266.2	146.22	2.820	
13,200.0	7,033.4	7,586.6	7,024.3	119.3	48.6	90.68	-6,139.1	-1,356.2	410.6	264.1	146.43	2.804	
13,261.7	7,033.0	7,587.0	7,024.7	120.5	48.6	90.73	-6,139.1	-1,356.2	405.9	258.3	147.59	2.750 CC, ES	
13,287.4	7,032.8	7,587.2	7,024.8	121.0	48.6	90.76	-6,139.1	-1,356.2	406.7	258.6	148.08	2.747 SF	
13,300.0	7,032.7	7,587.2	7,024.9	121.2	48.6	90.77	-6,139.1	-1,356.2	407.7	259.4	148.32	2.749	
13,385.8	7,032.2	7,587.8	7,025.5	122.9	48.6	90.85	-6,139.2	-1,356.2	424.4	274.5	149.93	2.831	
13,400.0	7,032.1	7,587.9	7,025.6	123.1	48.6	90.86	-6,139.2	-1,356.2	428.8	278.6	150.20	2.855	
13,484.2	7,031.6	7,588.4	7,026.1	124.7	48.6	90.94	-6,139.2	-1,356.2	462.9	311.1	151.79	3.049	
13,500.0	7,031.5	7,588.5	7,026.2	125.0	48.6	90.95	-6,139.2	-1,356.2	470.7	318.6	152.09	3.095	
13,582.6	7,030.9	7,589.0	7,026.7	126.6	48.6	91.02	-6,139.2	-1,356.2	517.4	363.8	153.65	3.368	
13,600.0	7,030.8	7,589.2	7,026.8	126.9	48.6	91.04	-6,139.2	-1,356.2	528.4	374.4	153.98	3.431	
13,681.1	7,030.3	7,589.7	7,027.3	128.4	48.6	91.11	-6,139.2	-1,356.2	583.6	428.1	155.51	3.753	
13,700.0	7,030.2	7,589.8	7,027.5	128.8	48.6	91.13	-6,139.2	-1,356.1	597.3	441.5	155.86	3.832	
13,779.5	7,029.7	7,590.3	7,028.0	130.3	48.6	91.20	-6,139.2	-1,356.1	657.9	500.5	157.36	4.181	
13,800.0	7,029.6	7,590.4	7,028.1	130.7	48.6	91.22	-6,139.2	-1,356.1	674.1	516.4	157.75	4.273	
13,877.9	7,029.1	7,590.9	7,028.6	132.2	48.6	91.29	-6,139.2	-1,356.1	737.8	578.6	159.22	4.634	
13,900.0	7,029.0	7,591.1	7,028.7	132.6	48.6	91.31	-6,139.2	-1,356.1	756.4	596.7	159.64	4.738	
13,976.3	7,028.5	7,591.5	7,029.2	134.0	48.6	91.38	-6,139.2	-1,356.1	821.8	660.7	161.08	5.102	
14,000.0	7,028.3	7,591.7	7,029.4	134.5	48.6	91.40	-6,139.2	-1,356.1	842.5	680.9	161.52	5.216	
14,074.8	7,027.9	7,592.2	7,029.8	135.9	48.6	91.46	-6,139.2	-1,356.1	908.7	745.8	162.94	5.577	
14,100.0	7,027.7	7,592.3	7,030.0	136.4	48.6	91.49	-6,139.2	-1,356.1	931.3	767.9	163.41	5.699	
14,173.2	7,027.2	7,592.8	7,030.5	137.8	48.6	91.55	-6,139.2	-1,356.1	997.7	832.9	164.79	6.054	
14,200.0	7,027.1	7,592.9	7,030.6	138.3	48.6	91.57	-6,139.2	-1,356.1	1,022.3	857.0	165.30	6.184	
14,210.5	7,027.0	7,593.0	7,030.7	138.5	48.6	91.58	-6,139.2	-1,356.1	1,031.9	866.4	165.50	6.235	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	-173.37	-5,661.3	-658.2	5,699.6				
98.4	98.4	59.9	59.9	0.1	0.6	-173.37	-5,661.3	-658.2	5,699.4	5,698.7	0.72	7,940.835	
100.0	100.0	61.5	61.5	0.1	0.6	-173.37	-5,661.3	-658.2	5,699.4	5,698.7	0.74	7,745.237	
196.8	196.8	158.3	158.3	0.3	2.4	-173.37	-5,661.3	-658.2	5,699.4	5,696.7	2.71	2,102.460	
200.0	200.0	161.5	161.5	0.3	2.5	-173.37	-5,661.3	-658.2	5,699.4	5,696.6	2.79	2,041.926	
295.3	295.3	256.8	256.8	0.5	4.5	-173.37	-5,661.3	-658.2	5,699.4	5,694.4	5.08	1,121.418	
300.0	300.0	261.5	261.5	0.5	4.6	-173.37	-5,661.3	-658.2	5,699.4	5,694.2	5.19	1,097.886	
393.7	393.7	355.2	355.2	0.8	6.6	-173.37	-5,661.3	-658.2	5,699.4	5,692.1	7.33	777.495	
400.0	400.0	361.5	361.5	0.8	6.7	-173.37	-5,661.3	-658.2	5,699.4	5,692.0	7.47	762.634	
492.1	492.1	453.6	453.6	1.0	8.6	-173.37	-5,661.3	-658.2	5,699.4	5,689.9	9.55	596.488	
500.0	500.0	461.5	461.5	1.0	8.7	-173.37	-5,661.3	-658.2	5,699.4	5,689.7	9.73	585.609	
590.5	590.5	552.0	552.0	1.2	10.6	-173.37	-5,661.3	-658.2	5,699.4	5,687.7	11.77	484.230	
600.0	600.0	561.5	561.5	1.2	10.8	-173.37	-5,661.3	-658.2	5,699.4	5,687.5	11.98	475.647	
689.0	689.0	650.5	650.5	1.4	12.6	-173.37	-5,661.3	-658.2	5,699.4	5,685.5	13.98	407.671	
700.0	700.0	661.5	661.5	1.4	12.8	-173.37	-5,661.3	-658.2	5,699.4	5,685.2	14.23	400.582	
787.4	787.4	748.9	748.9	1.6	14.5	-173.37	-5,661.3	-658.2	5,699.4	5,683.3	16.19	352.076	
800.0	800.0	761.5	761.5	1.7	14.8	-173.37	-5,661.3	-658.2	5,699.4	5,683.0	16.47	346.037	
885.8	885.8	847.3	847.3	1.9	16.5	-173.37	-5,661.3	-658.2	5,699.4	5,681.0	18.39	309.853	
900.0	900.0	861.5	861.5	1.9	16.8	-173.37	-5,661.3	-658.2	5,699.4	5,680.7	18.71	304.594	
984.2	984.2	945.7	945.7	2.1	18.5	-173.37	-5,661.3	-658.2	5,699.4	5,678.8	20.60	276.689	
1,000.0	1,000.0	961.5	961.5	2.1	18.8	-173.37	-5,661.3	-658.2	5,699.4	5,678.5	20.95	272.031	
1,082.7	1,082.7	1,044.2	1,044.2	2.3	20.5	-173.37	-5,661.3	-658.2	5,699.4	5,676.6	22.80	249.947	
1,100.0	1,100.0	1,061.5	1,061.5	2.3	20.8	-173.37	-5,661.3	-658.2	5,699.4	5,676.2	23.19	245.766	
1,181.1	1,181.1	1,142.6	1,142.6	2.5	22.5	-99.21	-5,661.3	-658.2	5,699.6	5,674.6	25.00	228.002	
1,200.0	1,200.0	1,161.5	1,161.5	2.6	22.9	-99.21	-5,661.3	-658.2	5,699.7	5,674.3	25.42	224.230	
1,279.5	1,279.4	1,240.9	1,240.9	2.7	24.5	-99.24	-5,661.3	-658.2	5,700.3	5,673.2	27.19	209.679	
1,300.0	1,299.8	1,261.3	1,261.3	2.8	24.9	-99.25	-5,661.3	-658.2	5,700.6	5,672.9	27.64	206.240	
1,377.9	1,377.5	1,339.0	1,339.0	2.9	26.4	-99.29	-5,661.3	-658.2	5,701.6	5,672.2	29.38	194.084	
1,400.0	1,399.5	1,361.0	1,361.0	3.0	26.9	-99.31	-5,661.3	-658.2	5,702.0	5,672.1	29.87	190.909	
1,476.4	1,475.3	1,436.8	1,436.8	3.2	28.4	-99.37	-5,661.3	-658.2	5,703.4	5,671.9	31.58	180.619	
1,500.0	1,498.7	1,460.2	1,460.2	3.2	28.9	-99.39	-5,661.3	-658.2	5,704.0	5,671.9	32.10	177.666	
1,574.8	1,572.6	1,534.1	1,534.1	3.4	30.4	-99.46	-5,661.3	-658.2	5,705.8	5,672.1	33.79	168.852	
1,600.0	1,597.5	1,559.0	1,559.0	3.5	30.9	-99.49	-5,661.3	-658.2	5,706.6	5,672.2	34.36	166.087	
1,673.2	1,669.4	1,630.9	1,630.9	3.7	32.3	-99.58	-5,661.3	-658.2	5,708.9	5,672.8	36.03	158.456	
1,700.2	1,695.8	1,657.3	1,657.3	3.8	32.8	-99.61	-5,661.3	-658.2	5,709.8	5,673.2	36.64	155.830	
1,771.6	1,765.7	1,727.2	1,727.2	4.1	34.2	-99.75	-5,661.3	-658.2	5,712.3	5,674.1	38.29	149.182	
1,800.0	1,793.4	1,754.9	1,754.9	4.2	34.8	-99.81	-5,661.3	-658.2	5,713.4	5,674.4	38.95	146.700	
1,870.1	1,862.0	1,823.5	1,823.5	4.4	36.2	-99.95	-5,661.3	-658.2	5,715.9	5,675.3	40.58	140.861	
1,900.0	1,891.2	1,852.7	1,852.7	4.5	36.8	-100.01	-5,661.3	-658.2	5,717.0	5,675.8	41.28	138.509	
1,968.5	1,958.3	1,919.8	1,919.8	4.8	38.1	-100.15	-5,661.3	-658.2	5,719.6	5,676.7	42.88	133.380	
2,000.0	1,989.1	1,950.6	1,950.6	4.9	38.7	-100.21	-5,661.3	-658.2	5,720.8	5,677.1	43.62	131.149	
2,066.9	2,054.5	2,016.0	2,016.0	5.2	40.1	-100.35	-5,661.3	-658.2	5,723.3	5,678.1	45.20	126.628	
2,100.0	2,086.9	2,048.4	2,048.4	5.3	40.7	-100.41	-5,661.3	-658.2	5,724.6	5,678.6	45.98	124.509	
2,165.3	2,150.8	2,112.3	2,112.3	5.6	42.0	-100.55	-5,661.3	-658.2	5,727.1	5,679.6	47.52	120.511	
2,200.0	2,184.7	2,146.2	2,146.2	5.7	42.7	-100.61	-5,661.3	-658.2	5,728.4	5,680.1	48.34	118.495	
2,263.8	2,247.1	2,208.6	2,208.6	6.0	43.9	-100.74	-5,661.3	-658.2	5,731.0	5,681.1	49.86	114.948	
2,300.0	2,282.5	2,244.0	2,244.0	6.1	44.6	-100.81	-5,661.3	-658.2	5,732.4	5,681.7	50.72	113.028	
2,362.2	2,343.3	2,304.8	2,304.8	6.4	45.9	-100.94	-5,661.3	-658.2	5,734.9	5,682.7	52.20	109.871	
2,400.0	2,380.3	2,341.8	2,341.8	6.6	46.6	-101.01	-5,661.3	-658.2	5,736.4	5,683.3	53.10	108.038	
2,460.6	2,439.6	2,401.1	2,401.1	6.8	47.8	-101.14	-5,661.3	-658.2	5,738.9	5,684.3	54.54	105.221	
2,500.0	2,478.1	2,439.6	2,439.6	7.0	48.6	-101.21	-5,661.3	-658.2	5,740.5	5,685.0	55.48	103.470	
2,559.0	2,535.9	2,497.4	2,497.4	7.2	49.7	-101.33	-5,661.3	-658.2	5,743.0	5,686.1	56.89	100.948	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	2,537.4	2,537.4	7.4	50.5	-101.41	-5,661.3	-658.2	5,744.7	5,686.8	57.87	99.272	
2,657.5	2,632.2	2,593.7	2,593.7	7.7	51.7	-101.53	-5,661.3	-658.2	5,747.1	5,687.9	59.24	97.011	
2,700.0	2,673.8	2,635.3	2,635.3	7.8	52.5	-101.61	-5,661.3	-658.2	5,748.9	5,688.7	60.26	95.404	
2,755.9	2,728.4	2,689.9	2,689.9	8.1	53.6	-101.72	-5,661.3	-658.2	5,751.3	5,689.7	61.60	93.371	
2,800.0	2,771.6	2,733.1	2,733.1	8.3	54.5	-101.81	-5,661.3	-658.2	5,753.2	5,690.6	62.65	91.828	
2,854.3	2,824.7	2,786.2	2,786.2	8.5	55.5	-101.92	-5,661.3	-658.2	5,755.6	5,691.6	63.95	89.997	
2,900.0	2,869.4	2,830.9	2,830.9	8.7	56.4	-102.01	-5,661.3	-658.2	5,757.6	5,692.6	65.05	88.514	
2,952.7	2,921.0	2,882.5	2,882.5	8.9	57.5	-102.11	-5,661.3	-658.2	5,760.0	5,693.6	66.31	86.861	
3,000.0	2,967.2	2,928.7	2,928.7	9.2	58.4	-102.21	-5,661.3	-658.2	5,762.1	5,694.6	67.44	85.434	
3,051.2	3,017.3	2,978.8	2,978.8	9.4	59.4	-102.31	-5,661.3	-658.2	5,764.4	5,695.7	68.67	83.941	
3,100.0	3,065.0	3,026.5	3,026.5	9.6	60.4	-102.40	-5,661.3	-658.2	5,766.6	5,696.8	69.84	82.565	
3,149.6	3,113.5	3,075.0	3,075.0	9.8	61.4	-102.50	-5,661.3	-658.2	5,768.9	5,697.8	71.03	81.214	
3,200.0	3,162.8	3,124.3	3,124.3	10.0	62.3	-102.60	-5,661.3	-658.2	5,771.2	5,699.0	72.24	79.887	
3,248.0	3,209.8	3,171.3	3,171.3	10.3	63.3	-102.70	-5,661.3	-658.2	5,773.4	5,700.0	73.40	78.662	
3,300.0	3,260.6	3,222.1	3,222.1	10.5	64.3	-102.80	-5,661.3	-658.2	5,775.9	5,701.2	74.64	77.380	
3,346.4	3,306.1	3,267.6	3,267.6	10.7	65.2	-102.89	-5,661.3	-658.2	5,778.1	5,702.3	75.76	76.270	
3,400.0	3,358.4	3,319.9	3,319.9	10.9	66.3	-103.00	-5,661.3	-658.2	5,780.6	5,703.6	77.04	75.030	
3,444.9	3,402.3	3,363.8	3,363.8	11.1	67.2	-103.08	-5,661.3	-658.2	5,782.8	5,704.6	78.12	74.023	
3,500.0	3,456.3	3,417.8	3,417.8	11.4	68.3	-103.19	-5,661.3	-658.2	5,785.4	5,706.0	79.45	72.823	
3,543.3	3,498.6	3,460.1	3,460.1	11.6	69.1	-103.28	-5,661.3	-658.2	5,787.5	5,707.0	80.49	71.908	
3,600.0	3,554.1	3,515.6	3,515.6	11.8	70.2	-103.39	-5,661.3	-658.2	5,790.3	5,708.5	81.85	70.746	
3,641.7	3,594.9	3,556.4	3,556.4	12.0	71.0	-103.47	-5,661.3	-658.2	5,792.4	5,709.5	82.85	69.915	
3,700.0	3,651.9	3,613.4	3,613.4	12.3	72.2	-103.58	-5,661.3	-658.2	5,795.3	5,711.0	84.25	68.787	
3,740.1	3,691.2	3,652.7	3,652.7	12.5	73.0	-103.66	-5,661.3	-658.2	5,797.3	5,712.0	85.21	68.032	
3,800.0	3,749.7	3,711.2	3,711.2	12.7	74.2	-103.78	-5,661.3	-658.2	5,800.3	5,713.6	86.65	66.938	
3,838.6	3,787.4	3,748.9	3,748.9	12.9	74.9	-103.86	-5,661.3	-658.2	5,802.2	5,714.7	87.58	66.252	
3,900.0	3,847.5	3,809.0	3,809.0	13.2	76.1	-103.98	-5,661.3	-658.2	5,805.4	5,716.3	89.05	65.190	
3,937.0	3,883.7	3,845.2	3,845.2	13.3	76.8	-104.05	-5,661.3	-658.2	5,807.3	5,717.3	89.94	64.567	
4,000.0	3,945.3	3,906.8	3,906.8	13.6	78.1	-104.17	-5,661.3	-658.2	5,810.5	5,719.1	91.46	63.534	
4,035.4	3,980.0	3,941.5	3,941.5	13.8	78.8	-104.24	-5,661.3	-658.2	5,812.4	5,720.1	92.31	62.968	
4,100.0	4,043.1	4,004.6	4,004.6	14.1	80.1	-104.37	-5,661.3	-658.2	5,815.8	5,721.9	93.86	61.964	
4,133.8	4,076.3	4,037.8	4,037.8	14.2	80.7	-104.43	-5,661.3	-658.2	5,817.6	5,722.9	94.67	61.451	
4,200.0	4,141.0	4,102.5	4,102.5	14.5	82.0	-104.56	-5,661.3	-658.2	5,821.1	5,724.8	96.26	60.473	
4,232.3	4,172.5	4,134.0	4,134.0	14.7	82.7	-104.62	-5,661.3	-658.2	5,822.8	5,725.8	97.03	60.008	
4,300.0	4,238.8	4,200.3	4,200.3	15.0	84.0	-104.75	-5,661.3	-658.2	5,826.4	5,727.8	98.66	59.055	
4,330.7	4,268.8	4,230.3	4,230.3	15.1	84.6	-104.81	-5,661.3	-658.2	5,828.1	5,728.7	99.40	58.634	
4,400.0	4,336.6	4,298.1	4,298.1	15.4	86.0	-104.95	-5,661.3	-658.2	5,831.9	5,730.8	101.06	57.706	
4,429.1	4,365.1	4,326.6	4,326.6	15.6	86.5	-105.00	-5,661.3	-658.2	5,833.5	5,731.7	101.76	57.325	
4,500.0	4,434.4	4,395.9	4,395.9	15.9	87.9	-105.14	-5,661.3	-658.2	5,837.4	5,733.9	103.46	56.420	
4,527.5	4,461.3	4,422.8	4,422.8	16.0	88.5	-105.19	-5,661.3	-658.2	5,838.9	5,734.8	104.12	56.076	
4,600.0	4,532.2	4,493.7	4,493.7	16.4	89.9	-105.33	-5,661.3	-658.2	5,843.0	5,737.1	105.86	55.193	
4,626.0	4,557.6	4,519.1	4,519.1	16.5	90.4	-105.38	-5,661.3	-658.2	5,844.4	5,737.9	106.49	54.884	
4,700.0	4,630.0	4,591.5	4,591.5	16.8	91.9	-105.53	-5,661.3	-658.2	5,848.6	5,740.4	108.26	54.022	
4,724.4	4,653.9	4,615.4	4,615.4	16.9	92.3	-105.57	-5,661.3	-658.2	5,850.0	5,741.2	108.85	53.744	
4,800.0	4,727.8	4,689.3	4,689.3	17.3	93.8	-105.72	-5,661.3	-658.2	5,854.3	5,743.7	110.66	52.902	
4,822.8	4,750.2	4,711.7	4,711.7	17.4	94.3	-105.76	-5,661.3	-658.2	5,855.7	5,744.4	111.21	52.653	
4,900.0	4,825.6	4,787.1	4,787.1	17.7	95.8	-105.91	-5,661.3	-658.2	5,860.1	5,747.1	113.06	51.831	
4,921.2	4,846.4	4,807.9	4,807.9	17.8	96.2	-105.95	-5,661.3	-658.2	5,861.4	5,747.8	113.57	51.609	
5,000.0	4,923.5	4,885.0	4,885.0	18.2	97.8	-106.10	-5,661.3	-658.2	5,866.0	5,750.5	115.46	50.805	
5,019.7	4,942.7	4,904.2	4,904.2	18.3	98.1	-106.14	-5,661.3	-658.2	5,867.1	5,751.2	115.93	50.608	
5,100.0	5,021.3	4,982.8	4,982.8	18.6	99.7	-106.29	-5,661.3	-658.2	5,871.9	5,754.0	117.86	49.821	
5,118.1	5,039.0	5,000.5	5,000.5	18.7	100.1	-106.33	-5,661.3	-658.2	5,873.0	5,754.7	118.29	49.647	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	6,958.0	6,958.0	23.3	139.4	-6.85	-5,661.3	-658.2	5,527.9	5,452.4	75.47	73.251	
7,283.4	7,010.4	6,971.9	6,971.9	23.4	139.7	-7.62	-5,661.3	-658.2	5,497.5	5,427.7	69.85	78.700	
7,300.0	7,016.8	6,978.3	6,978.3	23.4	139.9	-8.07	-5,661.3	-658.2	5,482.3	5,415.1	67.18	81.610	
7,350.0	7,033.8	6,995.3	6,995.3	23.5	140.2	-9.84	-5,661.3	-658.2	5,435.4	5,375.4	59.95	90.670	
7,381.9	7,043.0	7,004.5	7,004.5	23.6	140.4	-11.45	-5,661.3	-658.2	5,404.9	5,348.2	56.65	95.414	
7,400.0	7,047.6	7,009.1	7,009.1	23.6	140.5	-12.62	-5,661.3	-658.2	5,387.4	5,331.8	55.59	96.911	
7,450.0	7,057.9	7,019.4	7,019.4	23.8	140.7	-17.49	-5,661.3	-658.2	5,338.5	5,280.2	58.34	91.508	
7,480.3	7,062.5	7,024.0	7,024.0	23.9	140.8	-22.69	-5,661.3	-658.2	5,308.6	5,241.5	67.10	79.118	
7,500.0	7,064.8	7,026.3	7,026.3	24.0	140.8	-27.93	-5,661.3	-658.2	5,289.1	5,211.3	77.81	67.974	
7,550.0	7,068.3	7,029.8	7,029.8	24.2	140.9	-58.49	-5,661.3	-658.2	5,239.3	5,103.8	135.50	38.667	
7,578.7	7,068.7	7,030.2	7,030.2	24.4	140.9	-96.23	-5,661.3	-658.2	5,210.6	5,051.1	159.47	32.675	
7,578.9	7,068.7	7,030.2	7,030.2	24.4	140.9	-96.43	-5,661.3	-658.2	5,210.5	5,051.1	159.42	32.684	
7,600.0	7,068.6	7,030.1	7,030.1	24.5	140.9	-96.40	-5,661.3	-658.2	5,189.4	5,029.7	159.63	32.508	
7,677.1	7,068.1	7,029.6	7,029.6	25.1	140.9	-96.31	-5,661.3	-658.2	5,112.4	4,952.0	160.39	31.874	
7,700.0	7,067.9	7,029.4	7,029.4	25.2	140.9	-96.28	-5,661.3	-658.2	5,089.5	4,928.9	160.62	31.687	
7,775.6	7,067.4	7,028.9	7,028.9	25.9	140.9	-96.18	-5,661.3	-658.2	5,014.1	4,852.6	161.45	31.057	
7,800.0	7,067.3	7,028.8	7,028.8	26.1	140.9	-96.15	-5,661.3	-658.2	4,989.7	4,828.0	161.72	30.854	
7,874.0	7,066.8	7,028.3	7,028.3	26.8	140.9	-96.06	-5,661.3	-658.2	4,915.8	4,753.2	162.67	30.219	
7,900.0	7,066.7	7,028.2	7,028.2	27.0	140.9	-96.03	-5,661.3	-658.2	4,889.9	4,726.9	163.01	29.998	
7,972.4	7,066.2	7,027.7	7,027.7	27.8	140.8	-95.94	-5,661.3	-658.2	4,817.6	4,653.6	164.00	29.375	
8,000.0	7,066.0	7,027.5	7,027.5	28.1	140.8	-95.91	-5,661.3	-658.2	4,790.1	4,625.7	164.38	29.140	
8,070.8	7,065.6	7,027.1	7,027.1	28.9	140.8	-95.82	-5,661.3	-658.2	4,719.3	4,553.9	165.40	28.532	
8,100.0	7,065.4	7,026.9	7,026.9	29.3	140.8	-95.79	-5,661.3	-658.2	4,690.3	4,524.4	165.83	28.284	
8,169.3	7,065.0	7,026.5	7,026.5	30.2	140.8	-95.70	-5,661.3	-658.2	4,621.1	4,454.2	166.87	27.694	
8,200.0	7,064.8	7,026.3	7,026.3	30.6	140.8	-95.66	-5,661.3	-658.2	4,590.4	4,423.1	167.33	27.434	
8,267.7	7,064.4	7,025.9	7,025.9	31.5	140.8	-95.58	-5,661.3	-658.2	4,522.9	4,354.5	168.38	26.861	
8,300.0	7,064.2	7,025.7	7,025.7	31.9	140.8	-95.54	-5,661.3	-658.2	4,490.7	4,321.8	168.88	26.591	
8,366.1	7,063.7	7,025.2	7,025.2	32.8	140.8	-95.46	-5,661.3	-658.2	4,424.7	4,254.7	169.93	26.037	
8,400.0	7,063.5	7,025.0	7,025.0	33.3	140.8	-95.42	-5,661.3	-658.2	4,390.9	4,220.4	170.48	25.757	
8,464.5	7,063.1	7,024.6	7,024.6	34.2	140.8	-95.34	-5,661.3	-658.2	4,326.5	4,154.9	171.53	25.223	
8,500.0	7,062.9	7,024.4	7,024.4	34.8	140.8	-95.30	-5,661.3	-658.2	4,291.1	4,119.0	172.11	24.933	
8,563.0	7,062.5	7,024.0	7,024.0	35.7	140.8	-95.22	-5,661.3	-658.2	4,228.3	4,055.1	173.15	24.419	
8,600.0	7,062.3	7,023.8	7,023.8	36.3	140.8	-95.17	-5,661.3	-658.2	4,191.3	4,017.6	173.77	24.120	
8,661.4	7,061.9	7,023.4	7,023.4	37.2	140.8	-95.10	-5,661.3	-658.2	4,130.1	3,955.3	174.80	23.627	
8,700.0	7,061.6	7,023.1	7,023.1	37.8	140.8	-95.05	-5,661.3	-658.2	4,091.6	3,916.1	175.46	23.320	
8,759.8	7,061.3	7,022.8	7,022.8	38.8	140.7	-94.98	-5,661.3	-658.2	4,031.9	3,855.4	176.48	22.846	
8,800.0	7,061.0	7,022.5	7,022.5	39.4	140.7	-94.93	-5,661.3	-658.2	3,991.8	3,814.7	177.17	22.531	
8,858.2	7,060.6	7,022.1	7,022.1	40.3	140.7	-94.85	-5,661.3	-658.2	3,933.8	3,755.6	178.18	22.078	
8,900.0	7,060.4	7,021.9	7,021.9	41.0	140.7	-94.80	-5,661.3	-658.2	3,892.1	3,713.2	178.90	21.756	
8,956.7	7,060.0	7,021.5	7,021.5	41.9	140.7	-94.73	-5,661.3	-658.2	3,835.6	3,655.7	179.89	21.322	
9,000.0	7,059.8	7,021.3	7,021.3	42.6	140.7	-94.68	-5,661.3	-658.2	3,792.4	3,611.8	180.65	20.993	
9,055.1	7,059.4	7,020.9	7,020.9	43.6	140.7	-94.61	-5,661.3	-658.2	3,737.5	3,555.9	181.62	20.579	
9,100.0	7,059.1	7,020.6	7,020.6	44.3	140.7	-94.56	-5,661.3	-658.2	3,692.7	3,510.3	182.41	20.244	
9,153.5	7,058.8	7,020.3	7,020.3	45.2	140.7	-94.49	-5,661.3	-658.2	3,639.4	3,456.0	183.36	19.848	
9,200.0	7,058.5	7,020.0	7,020.0	46.0	140.7	-94.43	-5,661.3	-658.2	3,593.0	3,408.8	184.19	19.507	
9,251.9	7,058.2	7,019.7	7,019.7	46.9	140.7	-94.37	-5,661.3	-658.2	3,541.3	3,356.1	185.12	19.130	
9,300.0	7,057.9	7,019.4	7,019.4	47.7	140.7	-94.31	-5,661.3	-658.2	3,493.4	3,307.4	185.98	18.784	
9,350.4	7,057.6	7,019.1	7,019.1	48.6	140.7	-94.25	-5,661.3	-658.2	3,443.2	3,256.3	186.88	18.424	
9,400.0	7,057.2	7,018.7	7,018.7	49.4	140.7	-94.19	-5,661.3	-658.2	3,393.7	3,205.9	187.77	18.073	
9,448.8	7,056.9	7,018.4	7,018.4	50.3	140.7	-94.13	-5,661.3	-658.2	3,345.1	3,156.4	188.66	17.731	
9,500.0	7,056.6	7,018.1	7,018.1	51.1	140.7	-94.06	-5,661.3	-658.2	3,294.1	3,104.5	189.58	17.376	
9,547.2	7,056.3	7,017.8	7,017.8	52.0	140.6	-94.00	-5,661.3	-658.2	3,247.1	3,056.6	190.44	17.050	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.0	7,017.5	7,017.5	52.9	140.6	-93.94	-5,661.3	-658.2	3,194.5	3,003.1	191.40	16.690	
9,645.6	7,055.7	7,017.2	7,017.2	53.7	140.6	-93.88	-5,661.3	-658.2	3,149.0	2,956.8	192.23	16.382	
9,700.0	7,055.4	7,016.9	7,016.9	54.6	140.6	-93.82	-5,661.3	-658.2	3,094.9	2,901.7	193.22	16.018	
9,744.1	7,055.1	7,016.6	7,016.6	55.4	140.6	-93.76	-5,661.3	-658.2	3,051.1	2,857.0	194.03	15.725	
9,800.0	7,054.7	7,016.2	7,016.2	56.4	140.6	-93.69	-5,661.3	-658.2	2,995.4	2,800.3	195.05	15.357	
9,842.5	7,054.5	7,016.0	7,016.0	57.2	140.6	-93.64	-5,661.3	-658.2	2,953.1	2,757.3	195.83	15.080	
9,900.0	7,054.1	7,015.6	7,015.6	58.2	140.6	-93.57	-5,661.3	-658.2	2,895.9	2,699.0	196.89	14.708	
9,940.9	7,053.8	7,015.3	7,015.3	58.9	140.6	-93.52	-5,661.3	-658.2	2,855.2	2,657.5	197.64	14.446	
10,000.0	7,053.5	7,015.0	7,015.0	60.0	140.6	-93.45	-5,661.3	-658.2	2,796.4	2,597.7	198.73	14.072	
10,039.3	7,053.2	7,014.7	7,014.7	60.7	140.6	-93.40	-5,661.3	-658.2	2,757.3	2,557.8	199.45	13.824	
10,100.0	7,052.8	7,014.3	7,014.3	61.8	140.6	-93.32	-5,661.3	-658.2	2,697.0	2,496.4	200.57	13.446	
10,137.8	7,052.6	7,014.1	7,014.1	62.4	140.6	-93.28	-5,661.3	-658.2	2,659.4	2,458.1	201.27	13.213	
10,200.0	7,052.2	7,013.7	7,013.7	63.6	140.6	-93.20	-5,661.3	-658.2	2,597.6	2,395.2	202.42	12.832	
10,236.2	7,052.0	7,013.5	7,013.5	64.2	140.6	-93.15	-5,661.3	-658.2	2,561.6	2,358.5	203.09	12.613	
10,300.0	7,051.6	7,013.1	7,013.1	65.4	140.6	-93.07	-5,661.3	-658.2	2,498.2	2,294.0	204.28	12.230	
10,334.6	7,051.4	7,012.9	7,012.9	66.0	140.6	-93.03	-5,661.3	-658.2	2,463.8	2,258.9	204.92	12.023	
10,400.0	7,051.0	7,012.5	7,012.5	67.2	140.5	-92.95	-5,661.3	-658.2	2,398.9	2,192.8	206.13	11.638	
10,433.0	7,050.7	7,012.2	7,012.2	67.8	140.5	-92.91	-5,661.3	-658.2	2,366.1	2,159.4	206.75	11.445	
10,500.0	7,050.3	7,011.8	7,011.8	69.0	140.5	-92.83	-5,661.3	-658.2	2,299.7	2,091.7	207.99	11.057	
10,531.5	7,050.1	7,011.6	7,011.6	69.6	140.5	-92.79	-5,661.3	-658.2	2,268.5	2,059.9	208.58	10.876	
10,600.0	7,049.7	7,011.2	7,011.2	70.8	140.5	-92.70	-5,661.3	-658.2	2,200.5	1,990.7	209.86	10.486	
10,629.9	7,049.5	7,011.0	7,011.0	71.4	140.5	-92.67	-5,661.3	-658.2	2,170.9	1,960.5	210.41	10.317	
10,700.0	7,049.1	7,010.6	7,010.6	72.7	140.5	-92.58	-5,661.3	-658.2	2,101.5	1,889.7	211.72	9.926	
10,728.3	7,048.9	7,010.4	7,010.4	73.2	140.5	-92.54	-5,661.3	-658.2	2,073.4	1,861.2	212.25	9.769	
10,800.0	7,048.4	7,009.9	7,009.9	74.5	140.5	-92.46	-5,661.3	-658.2	2,002.5	1,788.9	213.59	9.375	
10,826.7	7,048.3	7,009.8	7,009.8	75.0	140.5	-92.42	-5,661.3	-658.2	1,976.0	1,761.9	214.09	9.230	
10,900.0	7,047.8	7,009.3	7,009.3	76.3	140.5	-92.33	-5,661.3	-658.2	1,903.6	1,688.1	215.46	8.835	
10,925.2	7,047.7	7,009.2	7,009.2	76.8	140.5	-92.30	-5,661.3	-658.2	1,878.7	1,662.8	215.93	8.701	
11,000.0	7,047.2	7,008.7	7,008.7	78.2	140.5	-92.21	-5,661.3	-658.2	1,804.8	1,587.5	217.33	8.305	
11,023.6	7,047.0	7,008.5	7,008.5	78.6	140.5	-92.18	-5,661.3	-658.2	1,781.5	1,563.8	217.77	8.181	
11,100.0	7,046.6	7,008.1	7,008.1	80.0	140.5	-92.08	-5,661.3	-658.2	1,706.2	1,487.0	219.20	7.784	
11,122.0	7,046.4	7,007.9	7,007.9	80.4	140.5	-92.06	-5,661.3	-658.2	1,684.5	1,464.9	219.61	7.670	
11,200.0	7,045.9	7,007.4	7,007.4	81.9	140.4	-91.96	-5,661.3	-658.2	1,607.7	1,386.7	221.07	7.272	
11,220.4	7,045.8	7,007.3	7,007.3	82.3	140.4	-91.94	-5,661.3	-658.2	1,587.6	1,366.2	221.46	7.169	
11,300.0	7,045.3	7,006.8	7,006.8	83.7	140.4	-91.84	-5,661.3	-658.2	1,509.5	1,286.6	222.95	6.771	
11,318.9	7,045.2	7,006.7	7,006.7	84.1	140.4	-91.81	-5,661.3	-658.2	1,491.0	1,267.7	223.30	6.677	
11,400.0	7,044.7	7,006.2	7,006.2	85.6	140.4	-91.71	-5,661.3	-658.2	1,411.5	1,186.7	224.82	6.278	
11,417.3	7,044.6	7,006.1	7,006.1	85.9	140.4	-91.69	-5,661.3	-658.2	1,394.6	1,169.4	225.15	6.194	
11,500.0	7,044.0	7,005.5	7,005.5	87.5	140.4	-91.59	-5,661.3	-658.2	1,313.8	1,087.1	226.70	5.795	
11,515.7	7,043.9	7,005.4	7,005.4	87.7	140.4	-91.57	-5,661.3	-658.2	1,298.5	1,071.5	227.00	5.720	
11,600.0	7,043.4	7,004.9	7,004.9	89.3	140.4	-91.47	-5,661.3	-658.2	1,216.5	987.9	228.58	5.322	
11,614.1	7,043.3	7,004.8	7,004.8	89.6	140.4	-91.45	-5,661.3	-658.2	1,202.7	973.9	228.84	5.256	
11,700.0	7,042.8	7,004.3	7,004.3	91.2	140.4	-91.34	-5,661.3	-658.2	1,119.6	889.2	230.46	4.858	
11,712.6	7,042.7	7,004.2	7,004.2	91.4	140.4	-91.33	-5,661.3	-658.2	1,107.5	876.8	230.69	4.801	
11,800.0	7,042.2	7,003.7	7,003.7	93.0	140.4	-91.22	-5,661.3	-658.2	1,023.4	791.0	232.34	4.405	
11,811.0	7,042.1	7,003.6	7,003.6	93.2	140.4	-91.20	-5,661.3	-658.2	1,012.8	780.3	232.54	4.355	
11,900.0	7,041.5	7,003.0	7,003.0	94.9	140.4	-91.09	-5,661.3	-658.2	927.9	693.7	234.22	3.962	
11,909.4	7,041.5	7,003.0	7,003.0	95.1	140.4	-91.08	-5,661.3	-658.2	919.0	684.6	234.39	3.921	
12,000.0	7,040.9	7,002.4	7,002.4	96.8	140.3	-90.97	-5,661.3	-658.2	833.5	597.4	236.10	3.531	
12,007.8	7,040.8	7,002.3	7,002.3	96.9	140.3	-90.96	-5,661.3	-658.2	826.2	589.9	236.24	3.497	
12,100.0	7,040.3	7,001.8	7,001.8	98.7	140.3	-90.85	-5,661.3	-658.2	740.6	502.6	237.98	3.112	
12,106.3	7,040.2	7,001.7	7,001.7	98.8	140.3	-90.84	-5,661.3	-658.2	734.9	496.8	238.09	3.086	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,039.6	7,001.1	7,001.1	100.5	140.3	-90.72	-5,661.3	-658.2	649.8	410.0	239.86	2.709	
12,204.7	7,039.6	7,001.1	7,001.1	100.6	140.3	-90.72	-5,661.3	-658.2	645.6	405.7	239.94	2.691	
12,300.0	7,039.0	7,000.5	7,000.5	102.4	140.3	-90.60	-5,661.3	-658.2	562.1	320.4	241.74	2.325	
12,303.1	7,039.0	7,000.5	7,000.5	102.5	140.3	-90.59	-5,661.3	-658.2	559.5	317.7	241.79	2.314	
12,400.0	7,038.4	6,999.9	6,999.9	104.3	140.3	-90.47	-5,661.3	-658.2	479.3	235.7	243.62	1.967	
12,401.5	7,038.4	6,999.9	6,999.9	104.3	140.3	-90.47	-5,661.3	-658.2	478.1	234.4	243.64	1.962	
12,500.0	7,037.8	6,999.3	6,999.3	106.2	140.3	-90.35	-5,661.3	-658.2	404.3	158.8	245.50	1.647	
12,598.4	7,037.1	6,998.6	6,998.6	108.0	140.3	-90.23	-5,661.3	-658.2	343.2	95.8	247.35	1.387	Level 3
12,600.0	7,037.1	6,998.6	6,998.6	108.0	140.3	-90.22	-5,661.3	-658.2	342.3	95.0	247.38	1.384	Level 3
12,696.8	7,036.5	6,998.0	6,998.0	109.9	140.3	-90.10	-5,661.3	-658.2	302.4	53.2	249.20	1.214	Level 2
12,700.0	7,036.5	6,998.0	6,998.0	109.9	140.3	-90.10	-5,661.3	-658.2	301.5	52.3	249.26	1.210	Level 2
12,781.3	7,036.0	6,997.5	6,997.5	111.5	140.2	-90.00	-5,661.3	-658.2	290.4	39.6	250.78	1.158	Level 2, CC, ES, SF
12,795.2	7,035.9	6,997.4	6,997.4	111.7	140.2	-89.98	-5,661.3	-658.2	290.7	39.6	251.05	1.158	Level 2
12,800.0	7,035.9	6,997.4	6,997.4	111.8	140.2	-89.98	-5,661.3	-658.2	291.0	39.8	251.14	1.159	Level 2
12,893.7	7,035.3	6,996.8	6,996.8	113.6	140.2	-89.86	-5,661.3	-658.2	311.3	58.4	252.90	1.231	Level 2
12,900.0	7,035.2	6,996.7	6,996.7	113.7	140.2	-89.85	-5,661.3	-658.2	313.7	60.7	253.01	1.240	Level 2
12,992.1	7,034.7	6,996.2	6,996.2	115.4	140.2	-89.74	-5,661.3	-658.2	358.8	104.0	254.75	1.408	Level 3
13,000.0	7,034.6	6,996.1	6,996.1	115.6	140.2	-89.73	-5,661.3	-658.2	363.5	108.6	254.89	1.426	Level 3
13,090.5	7,034.0	6,995.5	6,995.5	117.3	140.2	-89.62	-5,661.3	-658.2	424.1	167.6	256.59	1.653	
13,100.0	7,034.0	6,995.5	6,995.5	117.5	140.2	-89.60	-5,661.3	-658.2	431.1	174.3	256.77	1.679	
13,188.9	7,033.4	6,994.9	6,994.9	119.1	140.2	-89.49	-5,661.3	-658.2	500.4	242.0	258.44	1.936	
13,200.0	7,033.4	6,994.9	6,994.9	119.3	140.2	-89.48	-5,661.3	-658.2	509.5	250.8	258.65	1.970	
13,287.4	7,032.8	6,994.3	6,994.3	121.0	140.2	-89.37	-5,661.3	-658.2	583.4	323.1	260.29	2.241	
13,300.0	7,032.7	6,994.2	6,994.2	121.2	140.2	-89.36	-5,661.3	-658.2	594.4	333.9	260.53	2.282	
13,385.8	7,032.2	6,993.7	6,993.7	122.9	140.2	-89.25	-5,661.3	-658.2	670.6	408.4	262.14	2.558	
13,400.0	7,032.1	6,993.6	6,993.6	123.1	140.2	-89.23	-5,661.3	-658.2	683.4	421.0	262.40	2.604	
13,484.2	7,031.6	6,993.1	6,993.1	124.7	140.2	-89.13	-5,661.3	-658.2	760.5	496.5	263.98	2.881	
13,500.0	7,031.5	6,993.0	6,993.0	125.0	140.2	-89.11	-5,661.3	-658.2	775.1	510.8	264.28	2.933	
13,582.6	7,030.9	6,992.4	6,992.4	126.6	140.1	-89.01	-5,661.3	-658.2	852.3	586.5	265.83	3.206	
13,600.0	7,030.8	6,992.3	6,992.3	126.9	140.1	-88.98	-5,661.3	-658.2	868.6	602.5	266.15	3.264	
13,681.1	7,030.3	6,991.8	6,991.8	128.4	140.1	-88.88	-5,661.3	-658.2	945.4	677.7	267.67	3.532	
13,700.0	7,030.2	6,991.7	6,991.7	128.8	140.1	-88.86	-5,661.3	-658.2	963.4	695.4	268.03	3.595	
13,779.5	7,029.7	6,991.2	6,991.2	130.3	140.1	-88.76	-5,661.3	-658.2	1,039.5	770.0	269.52	3.857	
13,800.0	7,029.6	6,991.1	6,991.1	130.7	140.1	-88.74	-5,661.3	-658.2	1,059.2	789.3	269.90	3.924	
13,877.9	7,029.1	6,990.6	6,990.6	132.2	140.1	-88.64	-5,661.3	-658.2	1,134.4	863.0	271.36	4.180	
13,900.0	7,029.0	6,990.5	6,990.5	132.6	140.1	-88.61	-5,661.3	-658.2	1,155.7	883.9	271.78	4.252	
13,976.3	7,028.5	6,990.0	6,990.0	134.0	140.1	-88.52	-5,661.3	-658.2	1,229.8	956.6	273.21	4.501	
14,000.0	7,028.3	6,989.8	6,989.8	134.5	140.1	-88.49	-5,661.3	-658.2	1,252.8	979.1	273.65	4.578	
14,074.8	7,027.9	6,989.4	6,989.4	135.9	140.1	-88.40	-5,661.3	-658.2	1,325.6	1,050.6	275.05	4.820	
14,100.0	7,027.7	6,989.2	6,989.2	136.4	140.1	-88.36	-5,661.3	-658.2	1,350.2	1,074.7	275.52	4.901	
14,173.2	7,027.2	6,988.7	6,988.7	137.8	140.1	-88.27	-5,661.3	-658.2	1,421.8	1,144.9	276.89	5.135	
14,200.0	7,027.1	6,988.6	6,988.6	138.3	140.1	-88.24	-5,661.3	-658.2	1,448.0	1,170.7	277.39	5.220	
14,210.5	7,027.0	6,988.5	6,988.5	138.5	140.1	-88.23	-5,661.3	-658.2	1,458.3	1,180.8	277.59	5.254	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,039.6	7,026.1	7,026.1	100.5	140.6	-90.48	-7,165.9	596.9	2,595.6	2,355.5	240.10	10.810	
12,204.7	7,039.6	7,026.1	7,026.1	100.6	140.6	-90.48	-7,165.9	596.9	2,591.8	2,351.6	240.19	10.791	
12,300.0	7,039.0	7,025.5	7,025.5	102.4	140.6	-90.46	-7,165.9	596.9	2,516.1	2,274.1	241.99	10.398	
12,303.1	7,039.0	7,025.5	7,025.5	102.5	140.6	-90.46	-7,165.9	596.9	2,513.7	2,271.6	242.04	10.385	
12,400.0	7,038.4	7,024.9	7,024.9	104.3	140.5	-90.44	-7,165.9	596.9	2,438.2	2,194.3	243.87	9.998	
12,401.5	7,038.4	7,024.9	7,024.9	104.3	140.5	-90.44	-7,165.9	596.9	2,437.0	2,193.1	243.90	9.992	
12,500.0	7,037.8	7,024.3	7,024.3	106.2	140.5	-90.41	-7,165.9	596.9	2,361.9	2,116.1	245.75	9.611	
12,598.4	7,037.1	7,023.6	7,023.6	108.0	140.5	-90.39	-7,165.9	596.9	2,288.6	2,041.0	247.60	9.243	
12,600.0	7,037.1	7,023.6	7,023.6	108.0	140.5	-90.39	-7,165.9	596.9	2,287.4	2,039.8	247.63	9.237	
12,696.8	7,036.5	7,023.0	7,023.0	109.9	140.5	-90.37	-7,165.9	596.9	2,217.2	1,967.7	249.46	8.888	
12,700.0	7,036.5	7,023.0	7,023.0	109.9	140.5	-90.37	-7,165.9	596.9	2,214.9	1,965.4	249.52	8.877	
12,795.2	7,035.9	7,022.4	7,022.4	111.7	140.5	-90.35	-7,165.9	596.9	2,148.0	1,896.7	251.31	8.547	
12,800.0	7,035.9	7,022.4	7,022.4	111.8	140.5	-90.34	-7,165.9	596.9	2,144.7	1,893.3	251.40	8.531	
12,893.7	7,035.3	7,021.8	7,021.8	113.6	140.5	-90.32	-7,165.9	596.9	2,081.1	1,827.9	253.17	8.220	
12,900.0	7,035.2	7,021.7	7,021.7	113.7	140.5	-90.32	-7,165.9	596.9	2,076.9	1,823.6	253.29	8.200	
12,992.1	7,034.7	7,021.2	7,021.2	115.4	140.5	-90.30	-7,165.9	596.9	2,016.8	1,761.8	255.02	7.908	
13,000.0	7,034.6	7,021.1	7,021.1	115.6	140.5	-90.30	-7,165.9	596.9	2,011.8	1,756.6	255.17	7.884	
13,090.5	7,034.0	7,020.5	7,020.5	117.3	140.5	-90.28	-7,165.9	596.9	1,955.4	1,698.5	256.88	7.612	
13,100.0	7,034.0	7,020.5	7,020.5	117.5	140.5	-90.27	-7,165.9	596.9	1,949.6	1,692.5	257.06	7.584	
13,188.9	7,033.4	7,019.9	7,019.9	119.1	140.4	-90.25	-7,165.9	596.9	1,897.0	1,638.3	258.74	7.332	
13,200.0	7,033.4	7,019.9	7,019.9	119.3	140.4	-90.25	-7,165.9	596.9	1,890.7	1,631.7	258.95	7.301	
13,287.4	7,032.8	7,019.3	7,019.3	121.0	140.4	-90.23	-7,165.9	596.9	1,842.1	1,581.5	260.60	7.069	
13,300.0	7,032.7	7,019.2	7,019.2	121.2	140.4	-90.23	-7,165.9	596.9	1,835.3	1,574.5	260.84	7.036	
13,385.8	7,032.2	7,018.7	7,018.7	122.9	140.4	-90.21	-7,165.9	596.9	1,790.9	1,528.5	262.46	6.824	
13,400.0	7,032.1	7,018.6	7,018.6	123.1	140.4	-90.20	-7,165.9	596.9	1,783.9	1,521.1	262.72	6.790	
13,484.2	7,031.6	7,018.1	7,018.1	124.7	140.4	-90.19	-7,165.9	596.9	1,743.8	1,479.5	264.31	6.597	
13,500.0	7,031.5	7,018.0	7,018.0	125.0	140.4	-90.18	-7,165.9	596.9	1,736.6	1,472.0	264.61	6.563	
13,582.6	7,030.9	7,017.4	7,017.4	126.6	140.4	-90.16	-7,165.9	596.9	1,701.1	1,434.9	266.17	6.391	
13,600.0	7,030.8	7,017.3	7,017.3	126.9	140.4	-90.16	-7,165.9	596.9	1,694.0	1,427.5	266.50	6.356	
13,681.1	7,030.3	7,016.8	7,016.8	128.4	140.4	-90.14	-7,165.9	596.9	1,663.1	1,395.0	268.03	6.205	
13,700.0	7,030.2	7,016.7	7,016.7	128.8	140.4	-90.14	-7,165.9	596.9	1,656.3	1,387.9	268.39	6.171	
13,779.5	7,029.7	7,016.2	7,016.2	130.3	140.4	-90.12	-7,165.9	596.9	1,630.1	1,360.2	269.89	6.040	
13,800.0	7,029.6	7,016.1	7,016.1	130.7	140.4	-90.11	-7,165.9	596.9	1,623.9	1,353.7	270.28	6.008	
13,877.9	7,029.1	7,015.6	7,015.6	132.2	140.4	-90.09	-7,165.9	596.9	1,602.6	1,330.8	271.76	5.897	
13,900.0	7,029.0	7,015.5	7,015.5	132.6	140.4	-90.09	-7,165.9	596.9	1,597.2	1,325.0	272.17	5.868	
13,976.3	7,028.5	7,015.0	7,015.0	134.0	140.3	-90.07	-7,165.9	596.9	1,580.7	1,307.1	273.62	5.777	
14,000.0	7,028.3	7,014.8	7,014.8	134.5	140.3	-90.07	-7,165.9	596.9	1,576.3	1,302.2	274.06	5.752	
14,074.8	7,027.9	7,014.4	7,014.4	135.9	140.3	-90.05	-7,165.9	596.9	1,564.7	1,289.2	275.48	5.680	
14,100.0	7,027.7	7,014.2	7,014.2	136.4	140.3	-90.04	-7,165.9	596.9	1,561.6	1,285.6	275.96	5.659	
14,173.2	7,027.2	7,013.7	7,013.7	137.8	140.3	-90.03	-7,165.9	596.9	1,554.8	1,277.4	277.34	5.606	
14,200.0	7,027.1	7,013.6	7,013.6	138.3	140.3	-90.02	-7,165.9	596.9	1,553.1	1,275.3	277.85	5.590	
14,210.5	7,027.0	7,013.5	7,013.5	138.5	140.3	-90.02	-7,165.9	596.9	1,552.6	1,274.6	278.05	5.584 CC, ES, SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	174.20	-5,573.9	566.1	5,602.6				
98.4	98.4	74.9	74.9	0.1	0.6	174.20	-5,573.9	566.1	5,602.6	5,601.8	0.72	7,739.628	
100.0	100.0	76.5	76.5	0.1	0.6	174.20	-5,573.9	566.1	5,602.6	5,601.8	0.74	7,582.706	
196.8	196.8	173.3	173.3	0.3	2.6	174.20	-5,573.9	566.1	5,602.6	5,599.7	2.90	1,933.787	
200.0	200.0	176.5	176.5	0.3	2.7	174.20	-5,573.9	566.1	5,602.6	5,599.6	2.98	1,880.588	
295.3	295.3	271.8	271.8	0.5	4.7	174.20	-5,573.9	566.1	5,602.6	5,597.3	5.25	1,067.913	
300.0	300.0	276.5	276.5	0.5	4.8	174.20	-5,573.9	566.1	5,602.6	5,597.2	5.36	1,046.178	
393.7	393.7	370.2	370.2	0.8	6.7	174.20	-5,573.9	566.1	5,602.6	5,595.1	7.49	748.108	
400.0	400.0	376.5	376.5	0.8	6.9	174.20	-5,573.9	566.1	5,602.6	5,594.9	7.63	734.106	
492.1	492.1	468.6	468.6	1.0	8.7	174.20	-5,573.9	566.1	5,602.6	5,592.8	9.71	576.920	
500.0	500.0	476.5	476.5	1.0	8.9	174.20	-5,573.9	566.1	5,602.6	5,592.7	9.89	566.566	
590.5	590.5	567.0	567.0	1.2	10.7	174.20	-5,573.9	566.1	5,602.6	5,590.6	11.93	469.815	
600.0	600.0	576.5	576.5	1.2	10.9	174.20	-5,573.9	566.1	5,602.6	5,590.4	12.14	461.595	
689.0	689.0	665.5	665.5	1.4	12.7	174.20	-5,573.9	566.1	5,602.6	5,588.4	14.13	396.371	
700.0	700.0	676.5	676.5	1.4	12.9	174.20	-5,573.9	566.1	5,602.6	5,588.2	14.38	389.554	
787.4	787.4	763.9	763.9	1.6	14.7	174.20	-5,573.9	566.1	5,602.6	5,586.2	16.34	342.838	
800.0	800.0	776.5	776.5	1.7	15.0	174.20	-5,573.9	566.1	5,602.6	5,585.9	16.62	337.013	
885.8	885.8	862.3	862.3	1.9	16.7	174.20	-5,573.9	566.1	5,602.6	5,584.0	18.55	302.070	
900.0	900.0	876.5	876.5	1.9	17.0	174.20	-5,573.9	566.1	5,602.6	5,583.7	18.86	296.985	
984.2	984.2	960.7	960.7	2.1	18.7	174.20	-5,573.9	566.1	5,602.6	5,581.8	20.75	269.981	
1,000.0	1,000.0	976.5	976.5	2.1	19.0	174.20	-5,573.9	566.1	5,602.6	5,581.5	21.10	265.469	
1,082.7	1,082.7	1,059.2	1,059.2	2.3	20.6	174.20	-5,573.9	566.1	5,602.6	5,579.6	22.96	244.063	
1,100.0	1,100.0	1,076.5	1,076.5	2.3	21.0	174.20	-5,573.9	566.1	5,602.6	5,579.2	23.34	240.008	
1,181.1	1,181.1	1,157.6	1,157.6	2.5	22.6	-111.64	-5,573.9	566.1	5,603.0	5,577.8	25.15	222.786	
1,200.0	1,200.0	1,176.5	1,176.5	2.6	23.0	-111.64	-5,573.9	566.1	5,603.2	5,577.6	25.57	219.132	
1,279.5	1,279.4	1,255.9	1,255.9	2.7	24.6	-111.65	-5,573.9	566.1	5,604.6	5,577.3	27.33	205.054	
1,300.0	1,299.8	1,276.3	1,276.3	2.8	25.0	-111.65	-5,573.9	566.1	5,605.1	5,577.3	27.79	201.730	
1,377.9	1,377.5	1,354.0	1,354.0	2.9	26.6	-111.67	-5,573.9	566.1	5,607.5	5,578.0	29.51	189.998	
1,400.0	1,399.5	1,376.0	1,376.0	3.0	27.0	-111.67	-5,573.9	566.1	5,608.4	5,578.4	30.00	186.938	
1,476.4	1,475.3	1,451.8	1,451.8	3.2	28.6	-111.70	-5,573.9	566.1	5,611.7	5,580.0	31.70	177.038	
1,500.0	1,498.7	1,475.2	1,475.2	3.2	29.0	-111.70	-5,573.9	566.1	5,612.9	5,580.7	32.22	174.203	
1,574.8	1,572.6	1,549.1	1,549.1	3.4	30.5	-111.73	-5,573.9	566.1	5,617.1	5,583.3	33.89	165.753	
1,600.0	1,597.5	1,574.0	1,574.0	3.5	31.0	-111.74	-5,573.9	566.1	5,618.7	5,584.3	34.45	163.108	
1,673.2	1,669.4	1,645.9	1,645.9	3.7	32.5	-111.77	-5,573.9	566.1	5,623.9	5,587.8	36.09	155.822	
1,700.2	1,695.8	1,672.3	1,672.3	3.8	33.0	-111.79	-5,573.9	566.1	5,626.0	5,589.3	36.69	153.321	
1,771.6	1,765.7	1,742.2	1,742.2	4.1	34.4	-111.92	-5,573.9	566.1	5,631.6	5,593.3	38.33	146.913	
1,800.0	1,793.4	1,769.9	1,769.9	4.2	35.0	-111.98	-5,573.9	566.1	5,633.8	5,594.9	38.98	144.522	
1,870.1	1,862.0	1,838.5	1,838.5	4.4	36.3	-112.11	-5,573.9	566.1	5,639.4	5,598.8	40.60	138.893	
1,900.0	1,891.2	1,867.7	1,867.7	4.5	36.9	-112.17	-5,573.9	566.1	5,641.8	5,600.5	41.29	136.625	
1,968.5	1,958.3	1,934.8	1,934.8	4.8	38.3	-112.30	-5,573.9	566.1	5,647.3	5,604.4	42.89	131.678	
2,000.0	1,989.1	1,965.6	1,965.6	4.9	38.9	-112.36	-5,573.9	566.1	5,649.8	5,606.2	43.62	129.525	
2,066.9	2,054.5	2,031.0	2,031.0	5.2	40.2	-112.49	-5,573.9	566.1	5,655.2	5,610.1	45.18	125.163	
2,100.0	2,086.9	2,063.4	2,063.4	5.3	40.9	-112.55	-5,573.9	566.1	5,657.9	5,612.0	45.96	123.117	
2,165.3	2,150.8	2,127.3	2,127.3	5.6	42.1	-112.68	-5,573.9	566.1	5,663.3	5,615.8	47.49	119.257	
2,200.0	2,184.7	2,161.2	2,161.2	5.7	42.8	-112.74	-5,573.9	566.1	5,666.1	5,617.8	48.30	117.310	
2,263.8	2,247.1	2,223.6	2,223.6	6.0	44.1	-112.86	-5,573.9	566.1	5,671.3	5,621.5	49.80	113.883	
2,300.0	2,282.5	2,259.0	2,259.0	6.1	44.8	-112.93	-5,573.9	566.1	5,674.3	5,623.7	50.65	112.027	
2,362.2	2,343.3	2,319.8	2,319.8	6.4	46.0	-113.05	-5,573.9	566.1	5,679.5	5,627.3	52.12	108.976	
2,400.0	2,380.3	2,356.8	2,356.8	6.6	46.8	-113.12	-5,573.9	566.1	5,682.6	5,629.6	53.01	107.204	
2,460.6	2,439.6	2,416.1	2,416.1	6.8	48.0	-113.24	-5,573.9	566.1	5,687.7	5,633.2	54.44	104.479	
2,500.0	2,478.1	2,454.6	2,454.6	7.0	48.7	-113.31	-5,573.9	566.1	5,691.0	5,635.6	55.37	102.785	
2,559.0	2,535.9	2,512.4	2,512.4	7.2	49.9	-113.42	-5,573.9	566.1	5,695.9	5,639.2	56.76	100.345	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	2,552.4	2,552.4	7.4	50.7	-113.50	-5,573.9	566.1	5,699.4	5,641.6	57.73	98.723	
2,657.5	2,632.2	2,608.7	2,608.7	7.7	51.8	-113.61	-5,573.9	566.1	5,704.2	5,645.1	59.09	96.533	
2,700.0	2,673.8	2,650.3	2,650.3	7.8	52.7	-113.69	-5,573.9	566.1	5,707.9	5,647.8	60.10	94.978	
2,755.9	2,728.4	2,704.9	2,704.9	8.1	53.8	-113.79	-5,573.9	566.1	5,712.6	5,651.2	61.42	93.008	
2,800.0	2,771.6	2,748.1	2,748.1	8.3	54.6	-113.88	-5,573.9	566.1	5,716.4	5,653.9	62.46	91.514	
2,854.3	2,824.7	2,801.2	2,801.2	8.5	55.7	-113.98	-5,573.9	566.1	5,721.1	5,657.3	63.75	89.739	
2,900.0	2,869.4	2,845.9	2,845.9	8.7	56.6	-114.06	-5,573.9	566.1	5,725.0	5,660.2	64.83	88.302	
2,952.7	2,921.0	2,897.5	2,897.5	8.9	57.6	-114.16	-5,573.9	566.1	5,729.6	5,663.5	66.08	86.700	
3,000.0	2,967.2	2,943.7	2,943.7	9.2	58.6	-114.25	-5,573.9	566.1	5,733.7	5,666.5	67.20	85.317	
3,051.2	3,017.3	2,993.8	2,993.8	9.4	59.6	-114.34	-5,573.9	566.1	5,738.1	5,669.7	68.42	83.868	
3,100.0	3,065.0	3,041.5	3,041.5	9.6	60.5	-114.43	-5,573.9	566.1	5,742.4	5,672.8	69.58	82.534	
3,149.6	3,113.5	3,090.0	3,090.0	9.8	61.5	-114.53	-5,573.9	566.1	5,746.8	5,676.0	70.75	81.223	
3,200.0	3,162.8	3,139.3	3,139.3	10.0	62.5	-114.62	-5,573.9	566.1	5,751.2	5,679.2	71.95	79.935	
3,248.0	3,209.8	3,186.3	3,186.3	10.3	63.4	-114.71	-5,573.9	566.1	5,755.4	5,682.4	73.09	78.747	
3,300.0	3,260.6	3,237.1	3,237.1	10.5	64.5	-114.80	-5,573.9	566.1	5,760.0	5,685.7	74.32	77.503	
3,346.4	3,306.1	3,282.6	3,282.6	10.7	65.4	-114.89	-5,573.9	566.1	5,764.2	5,688.8	75.42	76.425	
3,400.0	3,358.4	3,334.9	3,334.9	10.9	66.4	-114.99	-5,573.9	566.1	5,769.0	5,692.3	76.69	75.221	
3,444.9	3,402.3	3,378.8	3,378.8	11.1	67.3	-115.07	-5,573.9	566.1	5,773.0	5,695.2	77.76	74.243	
3,500.0	3,456.3	3,432.8	3,432.8	11.4	68.4	-115.17	-5,573.9	566.1	5,777.9	5,698.9	79.07	73.077	
3,543.3	3,498.6	3,475.1	3,475.1	11.6	69.3	-115.25	-5,573.9	566.1	5,781.8	5,701.8	80.09	72.188	
3,600.0	3,554.1	3,530.6	3,530.6	11.8	70.4	-115.36	-5,573.9	566.1	5,787.0	5,705.5	81.44	71.059	
3,641.7	3,594.9	3,571.4	3,571.4	12.0	71.2	-115.43	-5,573.9	566.1	5,790.8	5,708.3	82.43	70.251	
3,700.0	3,651.9	3,628.4	3,628.4	12.3	72.3	-115.54	-5,573.9	566.1	5,796.1	5,712.3	83.81	69.156	
3,740.1	3,691.2	3,667.7	3,667.7	12.5	73.1	-115.61	-5,573.9	566.1	5,799.7	5,715.0	84.76	68.422	
3,800.0	3,749.7	3,726.2	3,726.2	12.7	74.3	-115.72	-5,573.9	566.1	5,805.2	5,719.1	86.18	67.359	
3,838.6	3,787.4	3,763.9	3,763.9	12.9	75.1	-115.79	-5,573.9	566.1	5,808.8	5,721.7	87.10	66.692	
3,900.0	3,847.5	3,824.0	3,824.0	13.2	76.3	-115.90	-5,573.9	566.1	5,814.5	5,725.9	88.56	65.658	
3,937.0	3,883.7	3,860.2	3,860.2	13.3	77.0	-115.97	-5,573.9	566.1	5,817.9	5,728.4	89.43	65.052	
4,000.0	3,945.3	3,921.8	3,921.8	13.6	78.2	-116.08	-5,573.9	566.1	5,823.7	5,732.8	90.93	64.048	
4,035.4	3,980.0	3,956.5	3,956.5	13.8	78.9	-116.15	-5,573.9	566.1	5,827.0	5,735.3	91.77	63.497	
4,100.0	4,043.1	4,019.6	4,019.6	14.1	80.2	-116.26	-5,573.9	566.1	5,833.1	5,739.8	93.30	62.520	
4,133.8	4,076.3	4,052.8	4,052.8	14.2	80.9	-116.32	-5,573.9	566.1	5,836.2	5,742.1	94.10	62.021	
4,200.0	4,141.0	4,117.5	4,117.5	14.5	82.2	-116.44	-5,573.9	566.1	5,842.5	5,746.8	95.67	61.069	
4,232.3	4,172.5	4,149.0	4,149.0	14.7	82.8	-116.50	-5,573.9	566.1	5,845.5	5,749.1	96.43	60.616	
4,300.0	4,238.8	4,215.3	4,215.3	15.0	84.1	-116.62	-5,573.9	566.1	5,851.9	5,753.9	98.04	59.689	
4,330.7	4,268.8	4,245.3	4,245.3	15.1	84.7	-116.68	-5,573.9	566.1	5,854.8	5,756.1	98.77	59.279	
4,400.0	4,336.6	4,313.1	4,313.1	15.4	86.1	-116.80	-5,573.9	566.1	5,861.4	5,761.0	100.41	58.375	
4,429.1	4,365.1	4,341.6	4,341.6	15.6	86.7	-116.85	-5,573.9	566.1	5,864.2	5,763.1	101.10	58.004	
4,500.0	4,434.4	4,410.9	4,410.9	15.9	88.1	-116.98	-5,573.9	566.1	5,871.0	5,768.2	102.78	57.123	
4,527.5	4,461.3	4,437.8	4,437.8	16.0	88.6	-117.03	-5,573.9	566.1	5,873.7	5,770.2	103.43	56.788	
4,600.0	4,532.2	4,508.7	4,508.7	16.4	90.0	-117.16	-5,573.9	566.1	5,880.6	5,775.5	105.15	55.928	
4,626.0	4,557.6	4,534.1	4,534.1	16.5	90.6	-117.20	-5,573.9	566.1	5,883.2	5,777.4	105.76	55.626	
4,700.0	4,630.0	4,606.5	4,606.5	16.8	92.0	-117.33	-5,573.9	566.1	5,890.3	5,782.8	107.51	54.786	
4,724.4	4,653.9	4,630.4	4,630.4	16.9	92.5	-117.38	-5,573.9	566.1	5,892.7	5,784.6	108.09	54.516	
4,800.0	4,727.8	4,704.3	4,704.3	17.3	94.0	-117.51	-5,573.9	566.1	5,900.1	5,790.2	109.88	53.695	
4,822.8	4,750.2	4,726.7	4,726.7	17.4	94.4	-117.55	-5,573.9	566.1	5,902.3	5,791.9	110.42	53.453	
4,900.0	4,825.6	4,802.1	4,802.1	17.7	95.9	-117.68	-5,573.9	566.1	5,909.9	5,797.6	112.25	52.651	
4,921.2	4,846.4	4,822.9	4,822.9	17.8	96.4	-117.72	-5,573.9	566.1	5,912.0	5,799.2	112.75	52.434	
5,000.0	4,923.5	4,900.0	4,900.0	18.2	97.9	-117.86	-5,573.9	566.1	5,919.7	5,805.1	114.61	51.650	
5,019.7	4,942.7	4,919.2	4,919.2	18.3	98.3	-117.89	-5,573.9	566.1	5,921.7	5,806.6	115.08	51.458	
5,100.0	5,021.3	4,997.8	4,997.8	18.6	99.9	-118.03	-5,573.9	566.1	5,929.7	5,812.7	116.98	50.691	
5,118.1	5,039.0	5,015.5	5,015.5	18.7	100.2	-118.07	-5,573.9	566.1	5,931.5	5,814.0	117.40	50.521	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	5,095.6	5,095.6	19.1	101.8	-118.21	-5,573.9	566.1	5,939.6	5,820.3	119.34	49.770	
5,216.5	5,135.3	5,111.8	5,111.8	19.2	102.2	-118.24	-5,573.9	566.1	5,941.3	5,821.5	119.73	49.622	
5,300.0	5,216.9	5,193.4	5,193.4	19.6	103.8	-118.38	-5,573.9	566.1	5,949.7	5,827.9	121.70	48.886	
5,314.9	5,231.5	5,208.0	5,208.0	19.6	104.1	-118.41	-5,573.9	566.1	5,951.2	5,829.1	122.06	48.757	
5,400.0	5,314.7	5,291.2	5,291.2	20.0	105.8	-118.55	-5,573.9	566.1	5,959.7	5,835.7	124.07	48.037	
5,413.4	5,327.8	5,304.3	5,304.3	20.1	106.0	-118.58	-5,573.9	566.1	5,961.1	5,836.7	124.38	47.926	
5,500.0	5,412.5	5,389.0	5,389.0	20.5	107.7	-118.73	-5,573.9	566.1	5,969.9	5,843.4	126.43	47.220	
5,511.8	5,424.1	5,400.6	5,400.6	20.5	108.0	-118.75	-5,573.9	566.1	5,971.1	5,844.4	126.70	47.126	
5,600.0	5,510.3	5,486.8	5,486.8	20.9	109.7	-118.90	-5,573.9	566.1	5,980.1	5,851.3	128.79	46.434	
5,610.2	5,520.3	5,496.8	5,496.8	21.0	109.9	-118.92	-5,573.9	566.1	5,981.1	5,852.1	129.03	46.355	
5,700.0	5,608.2	5,584.7	5,584.7	21.4	111.7	-119.07	-5,573.9	566.1	5,990.3	5,859.2	131.15	45.677	
5,708.6	5,616.6	5,593.1	5,593.1	21.4	111.8	-119.09	-5,573.9	566.1	5,991.2	5,859.9	131.35	45.613	
5,729.2	5,636.7	5,613.2	5,613.2	21.5	112.3	-119.12	-5,573.9	566.1	5,993.3	5,861.5	131.83	45.461	
5,800.0	5,706.1	5,682.6	5,682.6	21.8	113.6	-119.35	-5,573.9	566.1	6,000.2	5,866.6	133.58	44.920	
5,807.1	5,713.1	5,689.6	5,689.6	21.8	113.8	-119.38	-5,573.9	566.1	6,000.8	5,867.1	133.74	44.868	
5,900.0	5,804.7	5,781.2	5,781.2	22.1	115.6	-119.64	-5,573.9	566.1	6,008.5	5,872.5	135.95	44.197	
5,905.5	5,810.2	5,786.7	5,786.7	22.1	115.7	-119.65	-5,573.9	566.1	6,008.9	5,872.8	136.08	44.158	
6,000.0	5,903.9	5,880.4	5,880.4	22.3	117.6	-119.86	-5,573.9	566.1	6,015.1	5,876.8	138.28	43.501	
6,003.9	5,907.8	5,884.3	5,884.3	22.4	117.7	-119.87	-5,573.9	566.1	6,015.3	5,876.9	138.37	43.474	
6,100.0	6,003.4	5,979.9	5,979.9	22.6	119.6	-120.02	-5,573.9	566.1	6,020.0	5,879.4	140.55	42.830	
6,102.3	6,005.7	5,982.2	5,982.2	22.6	119.7	-120.03	-5,573.9	566.1	6,020.1	5,879.4	140.61	42.815	
6,200.0	6,103.2	6,079.7	6,079.7	22.7	121.6	-120.13	-5,573.9	566.1	6,023.1	5,880.3	142.77	42.186	
6,200.8	6,104.0	6,080.5	6,080.5	22.7	121.6	-120.13	-5,573.9	566.1	6,023.1	5,880.3	142.79	42.181	
6,299.2	6,202.3	6,178.8	6,178.8	22.9	123.6	-120.18	-5,573.9	566.1	6,024.5	5,879.6	144.92	41.572	
6,300.0	6,203.1	6,179.6	6,179.6	22.9	123.6	-120.18	-5,573.9	566.1	6,024.5	5,879.6	144.93	41.567	
6,329.4	6,232.5	6,209.0	6,209.0	22.9	124.2	165.65	-5,573.9	566.1	6,024.6	5,879.0	145.53	41.396	
6,397.6	6,300.8	6,277.3	6,277.3	23.0	125.6	165.65	-5,573.9	566.1	6,024.6	5,877.6	146.99	40.985	
6,400.0	6,303.1	6,279.6	6,279.6	23.0	125.7	165.65	-5,573.9	566.1	6,024.6	5,877.5	147.04	40.971	
6,449.4	6,352.5	6,329.0	6,329.0	23.1	126.6	165.65	-5,573.9	566.1	6,024.6	5,876.5	148.11	40.677	
6,496.0	6,399.2	6,375.7	6,375.7	23.1	127.6	-14.59	-5,573.9	566.1	6,023.1	5,874.3	148.78	40.483	
6,500.0	6,403.1	6,379.6	6,379.6	23.1	127.7	-14.60	-5,573.9	566.1	6,022.8	5,874.0	148.81	40.474	
6,550.0	6,452.8	6,429.3	6,429.3	23.1	128.7	-14.71	-5,573.9	566.1	6,017.7	5,869.0	148.78	40.448	
6,594.5	6,496.6	6,473.1	6,473.1	23.2	129.5	-14.88	-5,573.9	566.1	6,010.4	5,862.2	148.17	40.565	
6,600.0	6,502.0	6,478.5	6,478.5	23.2	129.7	-14.91	-5,573.9	566.1	6,009.3	5,861.2	148.05	40.589	
6,650.0	6,550.5	6,527.0	6,527.0	23.2	130.6	-15.19	-5,573.9	566.1	5,997.5	5,850.9	146.63	40.902	
6,692.9	6,591.4	6,567.9	6,567.9	23.2	131.5	-15.50	-5,573.9	566.1	5,984.9	5,840.0	144.87	41.313	
6,700.0	6,598.0	6,574.5	6,574.5	23.2	131.6	-15.56	-5,573.9	566.1	5,982.6	5,838.0	144.53	41.394	
6,750.0	6,644.4	6,620.9	6,620.9	23.2	132.5	-16.04	-5,573.9	566.1	5,964.4	5,822.6	141.76	42.075	
6,791.3	6,681.6	6,658.1	6,658.1	23.2	133.3	-16.51	-5,573.9	566.1	5,947.1	5,808.1	138.99	42.787	
6,800.0	6,689.3	6,665.8	6,665.8	23.2	133.4	-16.62	-5,573.9	566.1	5,943.2	5,804.8	138.36	42.954	
6,850.0	6,732.6	6,709.1	6,709.1	23.2	134.3	-17.34	-5,573.9	566.1	5,919.0	5,784.6	134.39	44.042	
6,889.7	6,765.7	6,742.2	6,742.2	23.2	135.0	-18.02	-5,573.9	566.1	5,897.7	5,766.8	130.89	45.059	
6,900.0	6,774.0	6,750.5	6,750.5	23.2	135.1	-18.21	-5,573.9	566.1	5,891.9	5,762.0	129.94	45.343	
6,950.0	6,813.3	6,789.8	6,789.8	23.2	135.9	-19.25	-5,573.9	566.1	5,862.1	5,737.0	125.11	46.854	
6,988.2	6,841.9	6,818.4	6,818.4	23.2	136.5	-20.20	-5,573.9	566.1	5,837.7	5,716.4	121.28	48.133	
7,000.0	6,850.5	6,827.0	6,827.0	23.2	136.7	-20.52	-5,573.9	566.1	5,829.8	5,709.7	120.08	48.548	
7,050.0	6,885.2	6,861.7	6,861.7	23.2	137.4	-22.05	-5,573.9	566.1	5,795.1	5,680.0	115.08	50.357	
7,086.6	6,908.9	6,885.4	6,885.4	23.2	137.8	-23.37	-5,573.9	566.1	5,768.2	5,656.6	111.63	51.673	
7,100.0	6,917.3	6,893.8	6,893.8	23.2	138.0	-23.90	-5,573.9	566.1	5,758.1	5,647.6	110.44	52.139	
7,150.0	6,946.6	6,923.1	6,923.1	23.2	138.6	-26.18	-5,573.9	566.1	5,719.0	5,612.4	106.61	53.642	
7,185.0	6,965.5	6,942.0	6,942.0	23.3	139.0	-28.09	-5,573.9	566.1	5,690.6	5,585.8	104.74	54.333	
7,200.0	6,973.1	6,949.6	6,949.6	23.3	139.1	-29.00	-5,573.9	566.1	5,678.1	5,573.9	104.23	54.477	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	6,973.0	6,973.0	23.3	139.6	-32.52	-5,573.9	566.1	5,635.6	5,531.6	104.05	54.164	
7,283.4	7,010.4	6,986.9	6,986.9	23.4	139.9	-35.37	-5,573.9	566.1	5,606.3	5,500.8	105.56	53.109	
7,300.0	7,016.8	6,993.3	6,993.3	23.4	140.0	-36.97	-5,573.9	566.1	5,591.6	5,484.7	106.88	52.315	
7,350.0	7,033.8	7,010.3	7,010.3	23.5	140.3	-42.64	-5,573.9	566.1	5,546.4	5,433.0	113.39	48.915	
7,381.9	7,043.0	7,019.5	7,019.5	23.6	140.5	-47.07	-5,573.9	566.1	5,517.0	5,397.5	119.54	46.154	
7,400.0	7,047.6	7,024.1	7,024.1	23.6	140.6	-49.91	-5,573.9	566.1	5,500.2	5,376.5	123.66	44.478	
7,450.0	7,057.9	7,034.4	7,034.4	23.8	140.8	-59.13	-5,573.9	566.1	5,453.2	5,316.5	136.69	39.895	
7,480.3	7,062.5	7,039.0	7,039.0	23.9	140.9	-65.75	-5,573.9	566.1	5,424.4	5,279.5	144.85	37.448	
7,500.0	7,064.8	7,041.3	7,041.3	24.0	141.0	-70.45	-5,573.9	566.1	5,405.6	5,255.9	149.74	36.101	
7,550.0	7,068.3	7,044.4	7,044.4	24.2	141.0	-83.41	-5,573.9	566.1	5,357.8	5,199.2	158.55	33.792	
7,578.7	7,068.7	7,045.2	7,045.2	24.4	141.0	-91.18	-5,573.9	566.1	5,330.2	5,170.0	160.22	33.267	
7,578.9	7,068.7	7,045.2	7,045.2	24.4	141.0	-91.21	-5,573.9	566.1	5,330.1	5,169.9	160.23	33.266	
7,600.0	7,068.6	7,045.1	7,045.1	24.5	141.0	-91.21	-5,573.9	566.1	5,309.8	5,149.4	160.43	33.097	
7,677.1	7,068.1	7,044.6	7,044.6	25.1	141.0	-91.19	-5,573.9	566.1	5,235.9	5,074.8	161.17	32.488	
7,700.0	7,067.9	7,044.4	7,044.4	25.2	141.0	-91.19	-5,573.9	566.1	5,214.1	5,052.7	161.38	32.309	
7,775.6	7,067.4	7,043.9	7,043.9	25.9	141.0	-91.17	-5,573.9	566.1	5,141.8	4,979.6	162.19	31.702	
7,800.0	7,067.3	7,043.8	7,043.8	26.1	141.0	-91.16	-5,573.9	566.1	5,118.4	4,956.0	162.45	31.508	
7,874.0	7,066.8	7,043.3	7,043.3	26.8	141.0	-91.14	-5,573.9	566.1	5,047.8	4,884.4	163.39	30.895	
7,900.0	7,066.7	7,043.2	7,043.2	27.0	141.0	-91.14	-5,573.9	566.1	5,023.0	4,859.3	163.71	30.682	
7,972.4	7,066.2	7,042.7	7,042.7	27.8	141.0	-91.12	-5,573.9	566.1	4,954.0	4,789.3	164.69	30.080	
8,000.0	7,066.0	7,042.5	7,042.5	28.1	141.0	-91.11	-5,573.9	566.1	4,927.8	4,762.7	165.06	29.854	
8,070.8	7,065.6	7,042.1	7,042.1	28.9	141.0	-91.10	-5,573.9	566.1	4,860.4	4,694.3	166.07	29.267	
8,100.0	7,065.4	7,041.9	7,041.9	29.3	141.0	-91.09	-5,573.9	566.1	4,832.7	4,666.2	166.49	29.028	
8,169.3	7,065.0	7,041.5	7,041.5	30.2	141.0	-91.07	-5,573.9	566.1	4,767.0	4,599.5	167.51	28.458	
8,200.0	7,064.8	7,041.3	7,041.3	30.6	141.0	-91.07	-5,573.9	566.1	4,737.8	4,569.9	167.97	28.207	
8,267.7	7,064.4	7,040.9	7,040.9	31.5	141.0	-91.05	-5,573.9	566.1	4,673.7	4,504.7	169.00	27.655	
8,300.0	7,064.2	7,040.7	7,040.7	31.9	141.0	-91.04	-5,573.9	566.1	4,643.2	4,473.7	169.50	27.394	
8,366.1	7,063.7	7,040.2	7,040.2	32.8	141.0	-91.03	-5,573.9	566.1	4,580.7	4,410.2	170.54	26.860	
8,400.0	7,063.5	7,040.0	7,040.0	33.3	140.9	-91.02	-5,573.9	566.1	4,548.8	4,377.7	171.07	26.589	
8,464.5	7,063.1	7,039.6	7,039.6	34.2	140.9	-91.00	-5,573.9	566.1	4,488.0	4,315.9	172.12	26.075	
8,500.0	7,062.9	7,039.4	7,039.4	34.8	140.9	-91.00	-5,573.9	566.1	4,454.6	4,281.9	172.69	25.796	
8,563.0	7,062.5	7,039.0	7,039.0	35.7	140.9	-90.98	-5,573.9	566.1	4,395.4	4,221.7	173.72	25.302	
8,600.0	7,062.3	7,038.8	7,038.8	36.3	140.9	-90.97	-5,573.9	566.1	4,360.7	4,186.4	174.33	25.014	
8,661.4	7,061.9	7,038.4	7,038.4	37.2	140.9	-90.96	-5,573.9	566.1	4,303.2	4,127.8	175.36	24.540	
8,700.0	7,061.6	7,038.1	7,038.1	37.8	140.9	-90.95	-5,573.9	566.1	4,267.1	4,091.1	176.00	24.245	
8,759.8	7,061.3	7,037.8	7,037.8	38.8	140.9	-90.93	-5,573.9	566.1	4,211.2	4,034.2	177.01	23.790	
8,800.0	7,061.0	7,037.5	7,037.5	39.4	140.9	-90.92	-5,573.9	566.1	4,173.7	3,996.0	177.69	23.488	
8,858.2	7,060.6	7,037.1	7,037.1	40.3	140.9	-90.91	-5,573.9	566.1	4,119.5	3,940.8	178.69	23.054	
8,900.0	7,060.4	7,036.9	7,036.9	41.0	140.9	-90.90	-5,573.9	566.1	4,080.7	3,901.3	179.41	22.746	
8,956.7	7,060.0	7,036.5	7,036.5	41.9	140.9	-90.89	-5,573.9	566.1	4,028.1	3,847.7	180.39	22.330	
9,000.0	7,059.8	7,036.3	7,036.3	42.6	140.9	-90.88	-5,573.9	566.1	3,988.0	3,806.9	181.14	22.017	
9,055.1	7,059.4	7,035.9	7,035.9	43.6	140.9	-90.86	-5,573.9	566.1	3,937.1	3,755.0	182.10	21.621	
9,100.0	7,059.1	7,035.6	7,035.6	44.3	140.9	-90.85	-5,573.9	566.1	3,895.7	3,712.8	182.88	21.302	
9,153.5	7,058.8	7,035.3	7,035.3	45.2	140.9	-90.84	-5,573.9	566.1	3,846.4	3,662.6	183.83	20.924	
9,200.0	7,058.5	7,035.0	7,035.0	46.0	140.8	-90.83	-5,573.9	566.1	3,803.8	3,619.1	184.64	20.601	
9,251.9	7,058.2	7,034.7	7,034.7	46.9	140.8	-90.82	-5,573.9	566.1	3,756.2	3,570.6	185.56	20.242	
9,300.0	7,057.9	7,034.4	7,034.4	47.7	140.8	-90.81	-5,573.9	566.1	3,712.2	3,525.8	186.41	19.914	
9,350.4	7,057.6	7,034.1	7,034.1	48.6	140.8	-90.79	-5,573.9	566.1	3,666.3	3,479.0	187.31	19.573	
9,400.0	7,057.2	7,033.7	7,033.7	49.4	140.8	-90.78	-5,573.9	566.1	3,621.2	3,433.0	188.20	19.241	
9,448.8	7,056.9	7,033.4	7,033.4	50.3	140.8	-90.77	-5,573.9	566.1	3,576.9	3,387.8	189.07	18.918	
9,500.0	7,056.6	7,033.1	7,033.1	51.1	140.8	-90.76	-5,573.9	566.1	3,530.6	3,340.6	189.99	18.583	
9,547.2	7,056.3	7,032.8	7,032.8	52.0	140.8	-90.75	-5,573.9	566.1	3,488.0	3,297.1	190.84	18.277	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.0	7,032.5	7,032.5	52.9	140.8	-90.73	-5,573.9	566.1	3,440.5	3,248.7	191.79	17.939	
9,645.6	7,055.7	7,032.2	7,032.2	53.7	140.8	-90.72	-5,573.9	566.1	3,399.6	3,207.0	192.61	17.650	
9,700.0	7,055.4	7,031.9	7,031.9	54.6	140.8	-90.71	-5,573.9	566.1	3,351.0	3,157.4	193.60	17.309	
9,744.1	7,055.1	7,031.6	7,031.6	55.4	140.8	-90.70	-5,573.9	566.1	3,311.8	3,117.4	194.39	17.036	
9,800.0	7,054.7	7,031.2	7,031.2	56.4	140.8	-90.69	-5,573.9	566.1	3,262.1	3,066.7	195.41	16.694	
9,842.5	7,054.5	7,031.0	7,031.0	57.2	140.8	-90.68	-5,573.9	566.1	3,224.5	3,028.4	196.18	16.436	
9,900.0	7,054.1	7,030.6	7,030.6	58.2	140.8	-90.66	-5,573.9	566.1	3,173.9	2,976.7	197.23	16.092	
9,940.9	7,053.8	7,030.3	7,030.3	58.9	140.8	-90.65	-5,573.9	566.1	3,138.0	2,940.0	197.98	15.850	
10,000.0	7,053.5	7,030.0	7,030.0	60.0	140.7	-90.64	-5,573.9	566.1	3,086.4	2,887.3	199.06	15.505	
10,039.3	7,053.2	7,029.7	7,029.7	60.7	140.7	-90.63	-5,573.9	566.1	3,052.2	2,852.4	199.78	15.278	
10,100.0	7,052.8	7,029.3	7,029.3	61.8	140.7	-90.62	-5,573.9	566.1	2,999.6	2,798.8	200.89	14.932	
10,137.8	7,052.6	7,029.1	7,029.1	62.4	140.7	-90.61	-5,573.9	566.1	2,967.1	2,765.5	201.58	14.719	
10,200.0	7,052.2	7,028.7	7,028.7	63.6	140.7	-90.59	-5,573.9	566.1	2,913.8	2,711.0	202.72	14.373	
10,236.2	7,052.0	7,028.5	7,028.5	64.2	140.7	-90.58	-5,573.9	566.1	2,882.9	2,679.5	203.39	14.174	
10,300.0	7,051.6	7,028.1	7,028.1	65.4	140.7	-90.57	-5,573.9	566.1	2,828.8	2,624.3	204.56	13.829	
10,334.6	7,051.4	7,027.9	7,027.9	66.0	140.7	-90.56	-5,573.9	566.1	2,799.6	2,594.4	205.20	13.643	
10,400.0	7,051.0	7,027.5	7,027.5	67.2	140.7	-90.54	-5,573.9	566.1	2,744.9	2,538.5	206.40	13.298	
10,433.0	7,050.7	7,027.2	7,027.2	67.8	140.7	-90.54	-5,573.9	566.1	2,717.4	2,510.4	207.02	13.126	
10,500.0	7,050.3	7,026.8	7,026.8	69.0	140.7	-90.52	-5,573.9	566.1	2,662.0	2,453.8	208.25	12.783	
10,531.5	7,050.1	7,026.6	7,026.6	69.6	140.7	-90.51	-5,573.9	566.1	2,636.2	2,427.4	208.83	12.623	
10,600.0	7,049.7	7,026.2	7,026.2	70.8	140.7	-90.50	-5,573.9	566.1	2,580.4	2,370.3	210.10	12.282	
10,629.9	7,049.5	7,026.0	7,026.0	71.4	140.7	-90.49	-5,573.9	566.1	2,556.3	2,345.6	210.66	12.135	
10,700.0	7,049.1	7,025.6	7,025.6	72.7	140.7	-90.47	-5,573.9	566.1	2,500.1	2,288.2	211.96	11.796	
10,728.3	7,048.9	7,025.4	7,025.4	73.2	140.7	-90.47	-5,573.9	566.1	2,477.7	2,265.2	212.48	11.661	
10,800.0	7,048.4	7,024.9	7,024.9	74.5	140.6	-90.45	-5,573.9	566.1	2,421.3	2,207.5	213.81	11.325	
10,826.7	7,048.3	7,024.8	7,024.8	75.0	140.6	-90.44	-5,573.9	566.1	2,400.5	2,186.2	214.31	11.201	
10,900.0	7,047.8	7,024.3	7,024.3	76.3	140.6	-90.43	-5,573.9	566.1	2,344.1	2,128.5	215.67	10.869	
10,925.2	7,047.7	7,024.2	7,024.2	76.8	140.6	-90.42	-5,573.9	566.1	2,325.0	2,108.8	216.14	10.757	
11,000.0	7,047.2	7,023.7	7,023.7	78.2	140.6	-90.40	-5,573.9	566.1	2,268.7	2,051.2	217.53	10.430	
11,023.6	7,047.0	7,023.5	7,023.5	78.6	140.6	-90.40	-5,573.9	566.1	2,251.2	2,033.2	217.97	10.328	
11,100.0	7,046.6	7,023.1	7,023.1	80.0	140.6	-90.38	-5,573.9	566.1	2,195.3	1,975.9	219.39	10.006	
11,122.0	7,046.4	7,022.9	7,022.9	80.4	140.6	-90.37	-5,573.9	566.1	2,179.4	1,959.6	219.80	9.915	
11,200.0	7,045.9	7,022.4	7,022.4	81.9	140.6	-90.35	-5,573.9	566.1	2,124.0	1,902.8	221.26	9.600	
11,220.4	7,045.8	7,022.3	7,022.3	82.3	140.6	-90.35	-5,573.9	566.1	2,109.7	1,888.1	221.64	9.519	
11,300.0	7,045.3	7,021.8	7,021.8	83.7	140.6	-90.33	-5,573.9	566.1	2,055.1	1,832.0	223.12	9.211	
11,318.9	7,045.2	7,021.7	7,021.7	84.1	140.6	-90.33	-5,573.9	566.1	2,042.4	1,818.9	223.48	9.139	
11,400.0	7,044.7	7,021.2	7,021.2	85.6	140.6	-90.31	-5,573.9	566.1	1,988.9	1,763.9	224.99	8.840	
11,417.3	7,044.6	7,021.1	7,021.1	85.9	140.6	-90.30	-5,573.9	566.1	1,977.7	1,752.4	225.32	8.777	
11,500.0	7,044.0	7,020.5	7,020.5	87.5	140.6	-90.28	-5,573.9	566.1	1,925.6	1,698.7	226.86	8.488	
11,515.7	7,043.9	7,020.4	7,020.4	87.7	140.6	-90.28	-5,573.9	566.1	1,915.9	1,688.7	227.16	8.434	
11,600.0	7,043.4	7,019.9	7,019.9	89.3	140.5	-90.26	-5,573.9	566.1	1,865.5	1,636.7	228.74	8.156	
11,614.1	7,043.3	7,019.8	7,019.8	89.6	140.5	-90.26	-5,573.9	566.1	1,857.2	1,628.2	229.00	8.110	
11,700.0	7,042.8	7,019.3	7,019.3	91.2	140.5	-90.24	-5,573.9	566.1	1,808.9	1,578.3	230.61	7.844	
11,712.6	7,042.7	7,019.2	7,019.2	91.4	140.5	-90.23	-5,573.9	566.1	1,802.0	1,571.2	230.84	7.806	
11,800.0	7,042.2	7,018.7	7,018.7	93.0	140.5	-90.21	-5,573.9	566.1	1,756.2	1,523.7	232.48	7.554	
11,811.0	7,042.1	7,018.6	7,018.6	93.2	140.5	-90.21	-5,573.9	566.1	1,750.6	1,518.0	232.69	7.524	
11,900.0	7,041.5	7,018.0	7,018.0	94.9	140.5	-90.19	-5,573.9	566.1	1,707.7	1,473.4	234.36	7.287	
11,909.4	7,041.5	7,018.0	7,018.0	95.1	140.5	-90.19	-5,573.9	566.1	1,703.4	1,468.9	234.54	7.263	
12,000.0	7,040.9	7,017.4	7,017.4	96.8	140.5	-90.16	-5,573.9	566.1	1,663.9	1,427.6	236.24	7.043	
12,007.8	7,040.8	7,017.3	7,017.3	96.9	140.5	-90.16	-5,573.9	566.1	1,660.6	1,424.3	236.38	7.025	
12,100.0	7,040.3	7,016.8	7,016.8	98.7	140.5	-90.14	-5,573.9	566.1	1,625.0	1,386.9	238.11	6.824	
12,106.3	7,040.2	7,016.7	7,016.7	98.8	140.5	-90.14	-5,573.9	566.1	1,622.7	1,384.5	238.23	6.812	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,039.6	7,016.1	7,016.1	100.5	140.5	-90.12	-5,573.9	566.1	1,591.5	1,351.5	239.99	6.631	
12,204.7	7,039.6	7,016.1	7,016.1	100.6	140.5	-90.12	-5,573.9	566.1	1,590.0	1,349.9	240.08	6.623	
12,300.0	7,039.0	7,015.5	7,015.5	102.4	140.5	-90.09	-5,573.9	566.1	1,563.6	1,321.7	241.87	6.465	
12,303.1	7,039.0	7,015.5	7,015.5	102.5	140.5	-90.09	-5,573.9	566.1	1,562.8	1,320.9	241.93	6.460	
12,400.0	7,038.4	7,014.9	7,014.9	104.3	140.4	-90.07	-5,573.9	566.1	1,541.8	1,298.0	243.75	6.325	
12,401.5	7,038.4	7,014.9	7,014.9	104.3	140.4	-90.07	-5,573.9	566.1	1,541.5	1,297.7	243.78	6.323	
12,500.0	7,037.8	7,014.3	7,014.3	106.2	140.4	-90.05	-5,573.9	566.1	1,526.1	1,280.5	245.64	6.213	
12,598.4	7,037.1	7,013.6	7,013.6	108.0	140.4	-90.02	-5,573.9	566.1	1,517.1	1,269.6	247.49	6.130	
12,600.0	7,037.1	7,013.6	7,013.6	108.0	140.4	-90.02	-5,573.9	566.1	1,517.0	1,269.5	247.52	6.129	
12,689.4	7,036.6	7,013.1	7,013.1	109.7	140.4	-90.00	-5,573.9	566.1	1,514.4	1,265.2	249.20	6.077 CC	
12,696.8	7,036.5	7,013.0	7,013.0	109.9	140.4	-90.00	-5,573.9	566.1	1,514.4	1,265.0	249.34	6.073	
12,700.0	7,036.5	7,013.0	7,013.0	109.9	140.4	-90.00	-5,573.9	566.1	1,514.4	1,265.0	249.40	6.072 ES	
12,795.2	7,035.9	7,012.4	7,012.4	111.7	140.4	-89.97	-5,573.9	566.1	1,518.1	1,266.9	251.20	6.043	
12,800.0	7,035.9	7,012.4	7,012.4	111.8	140.4	-89.97	-5,573.9	566.1	1,518.4	1,267.1	251.29	6.042	
12,893.7	7,035.3	7,011.8	7,011.8	113.6	140.4	-89.95	-5,573.9	566.1	1,528.1	1,275.0	253.05	6.039 SF	
12,900.0	7,035.2	7,011.7	7,011.7	113.7	140.4	-89.95	-5,573.9	566.1	1,528.9	1,275.8	253.17	6.039	
12,992.1	7,034.7	7,011.2	7,011.2	115.4	140.4	-89.93	-5,573.9	566.1	1,544.3	1,289.4	254.91	6.058	
13,000.0	7,034.6	7,011.1	7,011.1	115.6	140.4	-89.93	-5,573.9	566.1	1,545.9	1,290.8	255.06	6.061	
13,090.5	7,034.0	7,010.5	7,010.5	117.3	140.4	-89.90	-5,573.9	566.1	1,566.6	1,309.8	256.76	6.101	
13,100.0	7,034.0	7,010.5	7,010.5	117.5	140.4	-89.90	-5,573.9	566.1	1,569.0	1,312.1	256.94	6.107	
13,188.9	7,033.4	7,009.9	7,009.9	119.1	140.3	-89.88	-5,573.9	566.1	1,594.6	1,336.0	258.62	6.166	
13,200.0	7,033.4	7,009.9	7,009.9	119.3	140.3	-89.88	-5,573.9	566.1	1,598.1	1,339.3	258.83	6.174	
13,287.4	7,032.8	7,009.3	7,009.3	121.0	140.3	-89.86	-5,573.9	566.1	1,628.2	1,367.7	260.48	6.251	
13,300.0	7,032.7	7,009.2	7,009.2	121.2	140.3	-89.85	-5,573.9	566.1	1,632.8	1,372.1	260.72	6.263	
13,385.8	7,032.2	7,008.7	7,008.7	122.9	140.3	-89.83	-5,573.9	566.1	1,666.8	1,404.5	262.34	6.354	
13,400.0	7,032.1	7,008.6	7,008.6	123.1	140.3	-89.83	-5,573.9	566.1	1,672.8	1,410.2	262.60	6.370	
13,484.2	7,031.6	7,008.1	7,008.1	124.7	140.3	-89.81	-5,573.9	566.1	1,710.3	1,446.1	264.20	6.474	
13,500.0	7,031.5	7,008.0	7,008.0	125.0	140.3	-89.81	-5,573.9	566.1	1,717.7	1,453.2	264.49	6.494	
13,582.6	7,030.9	7,007.4	7,007.4	126.6	140.3	-89.79	-5,573.9	566.1	1,758.2	1,492.1	266.05	6.608	
13,600.0	7,030.8	7,007.3	7,007.3	126.9	140.3	-89.78	-5,573.9	566.1	1,767.1	1,500.7	266.38	6.634	
13,681.1	7,030.3	7,006.8	7,006.8	128.4	140.3	-89.76	-5,573.9	566.1	1,810.2	1,542.3	267.91	6.757	
13,700.0	7,030.2	7,006.7	7,006.7	128.8	140.3	-89.76	-5,573.9	566.1	1,820.6	1,552.3	268.27	6.786	
13,779.5	7,029.7	7,006.2	7,006.2	130.3	140.3	-89.74	-5,573.9	566.1	1,865.9	1,596.1	269.77	6.917	
13,800.0	7,029.6	7,006.1	7,006.1	130.7	140.3	-89.74	-5,573.9	566.1	1,878.0	1,607.8	270.16	6.951	
13,877.9	7,029.1	7,005.6	7,005.6	132.2	140.3	-89.72	-5,573.9	566.1	1,925.1	1,653.4	271.63	7.087	
13,900.0	7,029.0	7,005.5	7,005.5	132.6	140.3	-89.71	-5,573.9	566.1	1,938.8	1,666.7	272.05	7.127	
13,976.3	7,028.5	7,005.0	7,005.0	134.0	140.2	-89.69	-5,573.9	566.1	1,987.4	1,713.9	273.49	7.267	
14,000.0	7,028.3	7,004.8	7,004.8	134.5	140.2	-89.69	-5,573.9	566.1	2,002.7	1,728.8	273.94	7.311	
14,074.8	7,027.9	7,004.4	7,004.4	135.9	140.2	-89.67	-5,573.9	566.1	2,052.5	1,777.1	275.36	7.454	
14,100.0	7,027.7	7,004.2	7,004.2	136.4	140.2	-89.66	-5,573.9	566.1	2,069.6	1,793.7	275.83	7.503	
14,173.2	7,027.2	7,003.7	7,003.7	137.8	140.2	-89.65	-5,573.9	566.1	2,120.1	1,842.9	277.22	7.648	
14,200.0	7,027.1	7,003.6	7,003.6	138.3	140.2	-89.64	-5,573.9	566.1	2,139.0	1,861.3	277.72	7.702	
14,210.5	7,027.0	7,003.5	7,003.5	138.5	140.2	-89.64	-5,573.9	566.1	2,146.4	1,868.5	277.92	7.723	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	179.57	-6,284.3	47.4	6,284.5				
98.4	98.4	71.9	71.9	0.1	0.6	179.57	-6,284.3	47.4	6,284.5	6,283.7	0.73	8,639.097	
100.0	100.0	73.5	73.5	0.1	0.6	179.57	-6,284.3	47.4	6,284.5	6,283.7	0.74	8,457.614	
196.8	196.8	170.3	170.3	0.3	2.5	179.57	-6,284.3	47.4	6,284.5	6,281.6	2.86	2,198.589	
200.0	200.0	173.5	173.5	0.3	2.6	179.57	-6,284.3	47.4	6,284.5	6,281.5	2.94	2,137.550	
295.3	295.3	268.8	268.8	0.5	4.7	179.57	-6,284.3	47.4	6,284.5	6,279.2	5.21	1,205.506	
300.0	300.0	273.5	273.5	0.5	4.8	179.57	-6,284.3	47.4	6,284.5	6,279.1	5.32	1,180.819	
393.7	393.7	367.2	367.2	0.8	6.7	179.57	-6,284.3	47.4	6,284.5	6,277.0	7.46	842.753	
400.0	400.0	373.5	373.5	0.8	6.8	179.57	-6,284.3	47.4	6,284.5	6,276.9	7.60	826.913	
492.1	492.1	465.6	465.6	1.0	8.7	179.57	-6,284.3	47.4	6,284.5	6,274.8	9.68	649.237	
500.0	500.0	473.5	473.5	1.0	8.9	179.57	-6,284.3	47.4	6,284.5	6,274.6	9.86	637.547	
590.5	590.5	564.0	564.0	1.2	10.7	179.57	-6,284.3	47.4	6,284.5	6,272.6	11.89	528.376	
600.0	600.0	573.5	573.5	1.2	10.9	179.57	-6,284.3	47.4	6,284.5	6,272.4	12.11	519.107	
689.0	689.0	662.5	662.5	1.4	12.7	179.57	-6,284.3	47.4	6,284.5	6,270.4	14.10	445.590	
700.0	700.0	673.5	673.5	1.4	12.9	179.57	-6,284.3	47.4	6,284.5	6,270.1	14.35	437.909	
787.4	787.4	760.9	760.9	1.6	14.7	179.57	-6,284.3	47.4	6,284.5	6,268.1	16.31	385.292	
800.0	800.0	773.5	773.5	1.7	14.9	179.57	-6,284.3	47.4	6,284.5	6,267.9	16.59	378.733	
885.8	885.8	859.3	859.3	1.9	16.7	179.57	-6,284.3	47.4	6,284.5	6,265.9	18.52	339.398	
900.0	900.0	873.5	873.5	1.9	16.9	179.57	-6,284.3	47.4	6,284.5	6,265.6	18.83	333.675	
984.2	984.2	957.7	957.7	2.1	18.6	179.57	-6,284.3	47.4	6,284.5	6,263.7	20.72	303.289	
1,000.0	1,000.0	973.5	973.5	2.1	19.0	179.57	-6,284.3	47.4	6,284.5	6,263.4	21.07	298.213	
1,082.7	1,082.7	1,056.2	1,056.2	2.3	20.6	179.57	-6,284.3	47.4	6,284.5	6,261.5	22.92	274.135	
1,100.0	1,100.0	1,073.5	1,073.5	2.3	21.0	179.57	-6,284.3	47.4	6,284.5	6,261.1	23.31	269.574	
1,181.1	1,181.1	1,154.6	1,154.6	2.5	22.6	-106.27	-6,284.3	47.4	6,284.8	6,259.7	25.12	250.194	
1,200.0	1,200.0	1,173.5	1,173.5	2.6	23.0	-106.27	-6,284.3	47.4	6,284.9	6,259.4	25.54	246.080	
1,279.5	1,279.4	1,252.9	1,252.9	2.7	24.6	-106.28	-6,284.3	47.4	6,286.0	6,258.7	27.31	230.215	
1,300.0	1,299.8	1,273.3	1,273.3	2.8	25.0	-106.29	-6,284.3	47.4	6,286.4	6,258.7	27.76	226.467	
1,377.9	1,377.5	1,351.0	1,351.0	2.9	26.6	-106.31	-6,284.3	47.4	6,288.2	6,258.8	29.49	213.223	
1,400.0	1,399.5	1,373.0	1,373.0	3.0	27.0	-106.32	-6,284.3	47.4	6,288.9	6,258.9	29.98	209.766	
1,476.4	1,475.3	1,448.8	1,448.8	3.2	28.5	-106.35	-6,284.3	47.4	6,291.4	6,259.7	31.68	198.568	
1,500.0	1,498.7	1,472.2	1,472.2	3.2	29.0	-106.36	-6,284.3	47.4	6,292.3	6,260.1	32.21	195.357	
1,574.8	1,572.6	1,546.1	1,546.1	3.4	30.5	-106.39	-6,284.3	47.4	6,295.6	6,261.7	33.89	185.778	
1,600.0	1,597.5	1,571.0	1,571.0	3.5	31.0	-106.41	-6,284.3	47.4	6,296.8	6,262.3	34.45	182.776	
1,673.2	1,669.4	1,642.9	1,642.9	3.7	32.4	-106.45	-6,284.3	47.4	6,300.7	6,264.6	36.11	174.496	
1,700.2	1,695.8	1,669.3	1,669.3	3.8	33.0	-106.46	-6,284.3	47.4	6,302.3	6,265.6	36.72	171.650	
1,771.6	1,765.7	1,739.2	1,739.2	4.1	34.4	-106.59	-6,284.3	47.4	6,306.6	6,268.2	38.36	164.403	
1,800.0	1,793.4	1,766.9	1,766.9	4.2	34.9	-106.64	-6,284.3	47.4	6,308.3	6,269.3	39.01	161.697	
1,870.1	1,862.0	1,835.5	1,835.5	4.4	36.3	-106.77	-6,284.3	47.4	6,312.6	6,272.0	40.64	155.330	
1,900.0	1,891.2	1,864.7	1,864.7	4.5	36.9	-106.82	-6,284.3	47.4	6,314.4	6,273.1	41.33	152.764	
1,968.5	1,958.3	1,931.8	1,931.8	4.8	38.2	-106.94	-6,284.3	47.4	6,318.7	6,275.7	42.93	147.169	
2,000.0	1,989.1	1,962.6	1,962.6	4.9	38.9	-107.00	-6,284.3	47.4	6,320.6	6,276.9	43.67	144.735	
2,066.9	2,054.5	2,028.0	2,028.0	5.2	40.2	-107.11	-6,284.3	47.4	6,324.8	6,279.5	45.24	139.801	
2,100.0	2,086.9	2,060.4	2,060.4	5.3	40.8	-107.17	-6,284.3	47.4	6,326.8	6,280.8	46.02	137.488	
2,165.3	2,150.8	2,124.3	2,124.3	5.6	42.1	-107.29	-6,284.3	47.4	6,330.9	6,283.4	47.56	133.123	
2,200.0	2,184.7	2,158.2	2,158.2	5.7	42.8	-107.35	-6,284.3	47.4	6,333.1	6,284.8	48.37	130.921	
2,263.8	2,247.1	2,220.6	2,220.6	6.0	44.1	-107.46	-6,284.3	47.4	6,337.2	6,287.3	49.88	127.047	
2,300.0	2,282.5	2,256.0	2,256.0	6.1	44.8	-107.52	-6,284.3	47.4	6,339.5	6,288.8	50.74	124.949	
2,362.2	2,343.3	2,316.8	2,316.8	6.4	46.0	-107.63	-6,284.3	47.4	6,343.5	6,291.3	52.21	121.499	
2,400.0	2,380.3	2,353.8	2,353.8	6.6	46.7	-107.70	-6,284.3	47.4	6,345.9	6,292.8	53.11	119.497	
2,460.6	2,439.6	2,413.1	2,413.1	6.8	47.9	-107.81	-6,284.3	47.4	6,349.8	6,295.3	54.54	116.417	
2,500.0	2,478.1	2,451.6	2,451.6	7.0	48.7	-107.87	-6,284.3	47.4	6,352.4	6,296.9	55.48	114.503	
2,559.0	2,535.9	2,509.4	2,509.4	7.2	49.9	-107.98	-6,284.3	47.4	6,356.3	6,299.4	56.88	111.745	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - EXIST VERT FARR C #18-25 - Wellbore #1 - Design #1													Offset Site Error:	0.0 usft
Survey Program: 0-INC													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,600.0	2,575.9	2,549.4	2,549.4	7.4	50.7	-108.05	-6,284.3	47.4	6,358.9	6,301.1	57.85	109.912		
2,657.5	2,632.2	2,605.7	2,605.7	7.7	51.8	-108.15	-6,284.3	47.4	6,362.7	6,303.5	59.22	107.438		
2,700.0	2,673.8	2,647.3	2,647.3	7.8	52.6	-108.22	-6,284.3	47.4	6,365.5	6,305.3	60.23	105.680		
2,755.9	2,728.4	2,701.9	2,701.9	8.1	53.7	-108.32	-6,284.3	47.4	6,369.3	6,307.7	61.57	103.455		
2,800.0	2,771.6	2,745.1	2,745.1	8.3	54.6	-108.40	-6,284.3	47.4	6,372.2	6,309.6	62.62	101.767		
2,854.3	2,824.7	2,798.2	2,798.2	8.5	55.7	-108.49	-6,284.3	47.4	6,375.9	6,311.9	63.91	99.762		
2,900.0	2,869.4	2,842.9	2,842.9	8.7	56.6	-108.57	-6,284.3	47.4	6,378.9	6,313.9	65.00	98.139		
2,952.7	2,921.0	2,894.5	2,894.5	8.9	57.6	-108.66	-6,284.3	47.4	6,382.5	6,316.3	66.26	96.329		
3,000.0	2,967.2	2,940.7	2,940.7	9.2	58.5	-108.75	-6,284.3	47.4	6,385.7	6,318.3	67.38	94.766		
3,051.2	3,017.3	2,990.8	2,990.8	9.4	59.5	-108.83	-6,284.3	47.4	6,389.2	6,320.6	68.61	93.130		
3,100.0	3,065.0	3,038.5	3,038.5	9.6	60.5	-108.92	-6,284.3	47.4	6,392.6	6,322.8	69.77	91.623		
3,149.6	3,113.5	3,087.0	3,087.0	9.8	61.5	-109.00	-6,284.3	47.4	6,396.0	6,325.0	70.95	90.142		
3,200.0	3,162.8	3,136.3	3,136.3	10.0	62.5	-109.09	-6,284.3	47.4	6,399.5	6,327.3	72.16	88.688		
3,248.0	3,209.8	3,183.3	3,183.3	10.3	63.4	-109.17	-6,284.3	47.4	6,402.8	6,329.5	73.30	87.346		
3,300.0	3,260.6	3,234.1	3,234.1	10.5	64.4	-109.26	-6,284.3	47.4	6,406.4	6,331.9	74.54	85.941		
3,346.4	3,306.1	3,279.6	3,279.6	10.7	65.4	-109.34	-6,284.3	47.4	6,409.7	6,334.1	75.65	84.724		
3,400.0	3,358.4	3,331.9	3,331.9	10.9	66.4	-109.44	-6,284.3	47.4	6,413.5	6,336.5	76.93	83.364		
3,444.9	3,402.3	3,375.8	3,375.8	11.1	67.3	-109.51	-6,284.3	47.4	6,416.6	6,338.6	78.01	82.259		
3,500.0	3,456.3	3,429.8	3,429.8	11.4	68.4	-109.61	-6,284.3	47.4	6,420.6	6,341.2	79.32	80.943		
3,543.3	3,498.6	3,472.1	3,472.1	11.6	69.2	-109.68	-6,284.3	47.4	6,423.7	6,343.3	80.36	79.940		
3,600.0	3,554.1	3,527.6	3,527.6	11.8	70.3	-109.78	-6,284.3	47.4	6,427.7	6,346.0	81.71	78.665		
3,641.7	3,594.9	3,568.4	3,568.4	12.0	71.2	-109.85	-6,284.3	47.4	6,430.7	6,348.0	82.71	77.753		
3,700.0	3,651.9	3,625.4	3,625.4	12.3	72.3	-109.95	-6,284.3	47.4	6,434.9	6,350.8	84.10	76.516		
3,740.1	3,691.2	3,664.7	3,664.7	12.5	73.1	-110.02	-6,284.3	47.4	6,437.8	6,352.8	85.06	75.687		
3,800.0	3,749.7	3,723.2	3,723.2	12.7	74.3	-110.12	-6,284.3	47.4	6,442.2	6,355.7	86.49	74.486		
3,838.6	3,787.4	3,760.9	3,760.9	12.9	75.0	-110.19	-6,284.3	47.4	6,445.0	6,357.6	87.41	73.733		
3,900.0	3,847.5	3,821.0	3,821.0	13.2	76.2	-110.29	-6,284.3	47.4	6,449.5	6,360.6	88.88	72.567		
3,937.0	3,883.7	3,857.2	3,857.2	13.3	77.0	-110.35	-6,284.3	47.4	6,452.2	6,362.5	89.76	71.883		
4,000.0	3,945.3	3,918.8	3,918.8	13.6	78.2	-110.46	-6,284.3	47.4	6,456.9	6,365.6	91.27	70.749		
4,035.4	3,980.0	3,953.5	3,953.5	13.8	78.9	-110.52	-6,284.3	47.4	6,459.5	6,367.4	92.11	70.127		
4,100.0	4,043.1	4,016.6	4,016.6	14.1	80.2	-110.63	-6,284.3	47.4	6,464.3	6,370.7	93.65	69.024		
4,133.8	4,076.3	4,049.8	4,049.8	14.2	80.8	-110.69	-6,284.3	47.4	6,466.9	6,372.4	94.46	68.460		
4,200.0	4,141.0	4,114.5	4,114.5	14.5	82.1	-110.80	-6,284.3	47.4	6,471.8	6,375.8	96.04	67.386		
4,232.3	4,172.5	4,146.0	4,146.0	14.7	82.8	-110.85	-6,284.3	47.4	6,474.3	6,377.4	96.81	66.874		
4,300.0	4,238.8	4,212.3	4,212.3	15.0	84.1	-110.97	-6,284.3	47.4	6,479.4	6,381.0	98.43	65.828		
4,330.7	4,268.8	4,242.3	4,242.3	15.1	84.7	-111.02	-6,284.3	47.4	6,481.7	6,382.6	99.16	65.365		
4,400.0	4,336.6	4,310.1	4,310.1	15.4	86.1	-111.14	-6,284.3	47.4	6,487.0	6,386.2	100.82	64.345		
4,429.1	4,365.1	4,338.6	4,338.6	15.6	86.6	-111.18	-6,284.3	47.4	6,489.2	6,387.7	101.51	63.926		
4,500.0	4,434.4	4,407.9	4,407.9	15.9	88.0	-111.30	-6,284.3	47.4	6,494.7	6,391.5	103.20	62.931		
4,527.5	4,461.3	4,434.8	4,434.8	16.0	88.6	-111.35	-6,284.3	47.4	6,496.8	6,392.9	103.86	62.553		
4,600.0	4,532.2	4,505.7	4,505.7	16.4	90.0	-111.47	-6,284.3	47.4	6,502.4	6,396.8	105.59	61.582		
4,626.0	4,557.6	4,531.1	4,531.1	16.5	90.5	-111.51	-6,284.3	47.4	6,504.4	6,398.2	106.21	61.241		
4,700.0	4,630.0	4,603.5	4,603.5	16.8	92.0	-111.64	-6,284.3	47.4	6,510.2	6,402.2	107.98	60.293		
4,724.4	4,653.9	4,627.4	4,627.4	16.9	92.5	-111.68	-6,284.3	47.4	6,512.1	6,403.5	108.56	59.987		
4,800.0	4,727.8	4,701.3	4,701.3	17.3	93.9	-111.80	-6,284.3	47.4	6,518.0	6,407.7	110.36	59.061		
4,822.8	4,750.2	4,723.7	4,723.7	17.4	94.4	-111.84	-6,284.3	47.4	6,519.8	6,408.9	110.91	58.787		
4,900.0	4,825.6	4,799.1	4,799.1	17.7	95.9	-111.97	-6,284.3	47.4	6,525.9	6,413.2	112.75	57.882		
4,921.2	4,846.4	4,819.9	4,819.9	17.8	96.3	-112.01	-6,284.3	47.4	6,527.6	6,414.4	113.25	57.638		
5,000.0	4,923.5	4,897.0	4,897.0	18.2	97.9	-112.14	-6,284.3	47.4	6,533.9	6,418.8	115.13	56.752		
5,019.7	4,942.7	4,916.2	4,916.2	18.3	98.3	-112.17	-6,284.3	47.4	6,535.5	6,419.9	115.60	56.535		
5,100.0	5,021.3	4,994.8	4,994.8	18.6	99.8	-112.30	-6,284.3	47.4	6,541.9	6,424.4	117.51	55.669		
5,118.1	5,039.0	5,012.5	5,012.5	18.7	100.2	-112.33	-6,284.3	47.4	6,543.4	6,425.4	117.95	55.478		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
5,200.0	5,119.1	5,092.6	5,092.6	19.1	101.8	-112.47	-6,284.3	47.4	6,550.0	6,430.1	119.90	54.630	
5,216.5	5,135.3	5,108.8	5,108.8	19.2	102.1	-112.49	-6,284.3	47.4	6,551.3	6,431.0	120.29	54.462	
5,300.0	5,216.9	5,190.4	5,190.4	19.6	103.8	-112.63	-6,284.3	47.4	6,558.1	6,435.8	122.28	53.632	
5,314.9	5,231.5	5,205.0	5,205.0	19.6	104.1	-112.66	-6,284.3	47.4	6,559.3	6,436.7	122.64	53.486	
5,400.0	5,314.7	5,288.2	5,288.2	20.0	105.7	-112.80	-6,284.3	47.4	6,566.3	6,441.6	124.66	52.673	
5,413.4	5,327.8	5,301.3	5,301.3	20.1	106.0	-112.82	-6,284.3	47.4	6,567.4	6,442.4	124.98	52.548	
5,500.0	5,412.5	5,386.0	5,386.0	20.5	107.7	-112.96	-6,284.3	47.4	6,574.5	6,447.5	127.04	51.751	
5,511.8	5,424.1	5,397.6	5,397.6	20.5	107.9	-112.98	-6,284.3	47.4	6,575.5	6,448.2	127.32	51.644	
5,600.0	5,510.3	5,483.8	5,483.8	20.9	109.7	-113.12	-6,284.3	47.4	6,582.8	6,453.4	129.42	50.863	
5,610.2	5,520.3	5,493.8	5,493.8	21.0	109.9	-113.14	-6,284.3	47.4	6,583.7	6,454.0	129.67	50.774	
5,700.0	5,608.2	5,581.7	5,581.7	21.4	111.6	-113.29	-6,284.3	47.4	6,591.2	6,459.4	131.80	50.008	
5,708.6	5,616.6	5,590.1	5,590.1	21.4	111.8	-113.30	-6,284.3	47.4	6,591.9	6,459.9	132.01	49.935	
5,729.2	5,636.7	5,610.2	5,610.2	21.5	112.2	-113.33	-6,284.3	47.4	6,593.6	6,461.1	132.50	49.765	
5,800.0	5,706.1	5,679.6	5,679.6	21.8	113.6	-113.55	-6,284.3	47.4	6,599.2	6,465.0	134.21	49.170	
5,807.1	5,713.1	5,686.6	5,686.6	21.8	113.8	-113.57	-6,284.3	47.4	6,599.8	6,465.4	134.38	49.114	
5,900.0	5,804.7	5,778.2	5,778.2	22.1	115.6	-113.80	-6,284.3	47.4	6,606.0	6,469.5	136.55	48.378	
5,905.5	5,810.2	5,783.7	5,783.7	22.1	115.7	-113.81	-6,284.3	47.4	6,606.3	6,469.7	136.68	48.336	
6,000.0	5,903.9	5,877.4	5,877.4	22.3	117.6	-114.00	-6,284.3	47.4	6,611.4	6,472.5	138.85	47.616	
6,003.9	5,907.8	5,881.3	5,881.3	22.4	117.7	-114.01	-6,284.3	47.4	6,611.6	6,472.6	138.94	47.587	
6,100.0	6,003.4	5,976.9	5,976.9	22.6	119.6	-114.15	-6,284.3	47.4	6,615.4	6,474.3	141.10	46.884	
6,102.3	6,005.7	5,979.2	5,979.2	22.6	119.6	-114.16	-6,284.3	47.4	6,615.5	6,474.3	141.15	46.867	
6,200.0	6,103.2	6,076.7	6,076.7	22.7	121.6	-114.25	-6,284.3	47.4	6,617.9	6,474.6	143.31	46.180	
6,200.8	6,104.0	6,077.5	6,077.5	22.7	121.6	-114.25	-6,284.3	47.4	6,618.0	6,474.6	143.33	46.174	
6,299.2	6,202.3	6,175.8	6,175.8	22.9	123.6	-114.29	-6,284.3	47.4	6,619.1	6,473.6	145.45	45.509	
6,300.0	6,203.1	6,176.6	6,176.6	22.9	123.6	-114.29	-6,284.3	47.4	6,619.1	6,473.6	145.46	45.504	
6,329.4	6,232.5	6,206.0	6,206.0	22.9	124.2	-171.54	-6,284.3	47.4	6,619.2	6,473.1	146.07	45.316	
6,397.6	6,300.8	6,274.3	6,274.3	23.0	125.6	171.54	-6,284.3	47.4	6,619.2	6,471.6	147.52	44.868	
6,400.0	6,303.1	6,276.6	6,276.6	23.0	125.6	171.54	-6,284.3	47.4	6,619.2	6,471.6	147.58	44.853	
6,449.4	6,352.5	6,326.0	6,326.0	23.1	126.6	171.54	-6,284.3	47.4	6,619.2	6,470.5	148.64	44.533	
6,496.0	6,399.2	6,372.7	6,372.7	23.1	127.6	-8.69	-6,284.3	47.4	6,617.6	6,468.3	149.30	44.324	
6,500.0	6,403.1	6,376.6	6,376.6	23.1	127.6	-8.70	-6,284.3	47.4	6,617.4	6,468.1	149.33	44.315	
6,550.0	6,452.8	6,426.3	6,426.3	23.1	128.6	-8.77	-6,284.3	47.4	6,612.2	6,462.9	149.26	44.299	
6,594.5	6,496.6	6,470.1	6,470.1	23.2	129.5	-8.87	-6,284.3	47.4	6,604.7	6,456.1	148.59	44.448	
6,600.0	6,502.0	6,475.5	6,475.5	23.2	129.6	-8.89	-6,284.3	47.4	6,603.5	6,455.1	148.47	44.477	
6,650.0	6,550.5	6,524.0	6,524.0	23.2	130.6	-9.06	-6,284.3	47.4	6,591.6	6,444.6	146.94	44.858	
6,692.9	6,591.4	6,564.9	6,564.9	23.2	131.4	-9.25	-6,284.3	47.4	6,578.6	6,433.6	145.05	45.354	
6,700.0	6,598.0	6,571.5	6,571.5	23.2	131.6	-9.28	-6,284.3	47.4	6,576.2	6,431.6	144.68	45.453	
6,750.0	6,644.4	6,617.9	6,617.9	23.2	132.5	-9.57	-6,284.3	47.4	6,557.7	6,416.0	141.70	46.278	
6,791.3	6,681.6	6,655.1	6,655.1	23.2	133.2	-9.86	-6,284.3	47.4	6,540.0	6,401.3	138.70	47.151	
6,800.0	6,689.3	6,662.8	6,662.8	23.2	133.4	-9.93	-6,284.3	47.4	6,536.0	6,398.0	138.01	47.357	
6,850.0	6,732.6	6,706.1	6,706.1	23.2	134.3	-10.37	-6,284.3	47.4	6,511.3	6,377.6	133.65	48.718	
6,889.7	6,765.7	6,739.2	6,739.2	23.2	134.9	-10.79	-6,284.3	47.4	6,489.5	6,359.8	129.73	50.022	
6,900.0	6,774.0	6,747.5	6,747.5	23.2	135.1	-10.91	-6,284.3	47.4	6,483.6	6,354.9	128.66	50.393	
6,950.0	6,813.3	6,786.8	6,786.8	23.2	135.9	-11.56	-6,284.3	47.4	6,453.2	6,330.1	123.10	52.422	
6,988.2	6,841.9	6,815.4	6,815.4	23.2	136.5	-12.15	-6,284.3	47.4	6,428.1	6,309.6	118.53	54.232	
7,000.0	6,850.5	6,824.0	6,824.0	23.2	136.6	-12.35	-6,284.3	47.4	6,420.1	6,303.0	117.07	54.842	
7,050.0	6,885.2	6,858.7	6,858.7	23.2	137.3	-13.32	-6,284.3	47.4	6,384.5	6,273.8	110.69	57.681	
7,086.6	6,908.9	6,882.4	6,882.4	23.2	137.8	-14.17	-6,284.3	47.4	6,357.0	6,251.1	105.91	60.021	
7,100.0	6,917.3	6,890.8	6,890.8	23.2	138.0	-14.52	-6,284.3	47.4	6,346.7	6,242.5	104.16	60.931	
7,150.0	6,946.6	6,920.1	6,920.1	23.2	138.6	-16.01	-6,284.3	47.4	6,306.7	6,208.9	97.79	64.492	
7,185.0	6,965.5	6,939.0	6,939.0	23.3	138.9	-17.29	-6,284.3	47.4	6,277.6	6,183.9	93.65	67.030	
7,200.0	6,973.1	6,946.6	6,946.6	23.3	139.1	-17.91	-6,284.3	47.4	6,264.8	6,172.8	92.05	68.060	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	6,970.0	6,970.0	23.3	139.6	-20.38	-6,284.3	47.4	6,221.2	6,133.6	87.68	70.952	
7,283.4	7,010.4	6,983.9	6,983.9	23.4	139.8	-22.46	-6,284.3	47.4	6,191.2	6,105.2	86.08	71.923	
7,300.0	7,016.8	6,990.3	6,990.3	23.4	140.0	-23.66	-6,284.3	47.4	6,176.2	6,090.3	85.84	71.948	
7,350.0	7,033.8	7,007.3	7,007.3	23.5	140.3	-28.17	-6,284.3	47.4	6,129.8	6,041.6	88.14	69.544	
7,381.9	7,043.0	7,016.5	7,016.5	23.6	140.5	-31.99	-6,284.3	47.4	6,099.7	6,007.0	92.66	65.828	
7,400.0	7,047.6	7,021.1	7,021.1	23.6	140.6	-34.61	-6,284.3	47.4	6,082.4	5,985.8	96.52	63.016	
7,450.0	7,057.9	7,031.4	7,031.4	23.8	140.8	-44.15	-6,284.3	47.4	6,034.1	5,921.5	112.62	53.579	
7,480.3	7,062.5	7,036.0	7,036.0	23.9	140.9	-52.16	-6,284.3	47.4	6,004.6	5,878.6	126.04	47.639	
7,500.0	7,064.8	7,038.3	7,038.3	24.0	140.9	-58.50	-6,284.3	47.4	5,985.3	5,849.7	135.61	44.135	
7,550.0	7,068.3	7,041.8	7,041.8	24.2	141.0	-78.72	-6,284.3	47.4	5,936.1	5,779.8	156.32	37.975	
7,578.7	7,068.7	7,042.2	7,042.2	24.4	141.0	-92.03	-6,284.3	47.4	5,907.8	5,747.7	160.18	36.883	
7,578.9	7,068.7	7,042.2	7,042.2	24.4	141.0	-92.10	-6,284.3	47.4	5,907.7	5,747.5	160.18	36.883	
7,600.0	7,068.6	7,042.1	7,042.1	24.5	141.0	-92.09	-6,284.3	47.4	5,886.9	5,726.5	160.38	36.705	
7,677.1	7,068.1	7,041.6	7,041.6	25.1	141.0	-92.06	-6,284.3	47.4	5,810.8	5,649.7	161.12	36.066	
7,700.0	7,067.9	7,041.4	7,041.4	25.2	141.0	-92.06	-6,284.3	47.4	5,788.3	5,627.0	161.33	35.878	
7,775.6	7,067.4	7,040.9	7,040.9	25.9	141.0	-92.03	-6,284.3	47.4	5,713.9	5,551.8	162.14	35.240	
7,800.0	7,067.3	7,040.8	7,040.8	26.1	141.0	-92.02	-6,284.3	47.4	5,689.9	5,527.5	162.41	35.035	
7,874.0	7,066.8	7,040.3	7,040.3	26.8	141.0	-91.99	-6,284.3	47.4	5,617.0	5,453.7	163.34	34.388	
7,900.0	7,066.7	7,040.2	7,040.2	27.0	141.0	-91.98	-6,284.3	47.4	5,591.4	5,427.8	163.67	34.163	
7,972.4	7,066.2	7,039.7	7,039.7	27.8	141.0	-91.96	-6,284.3	47.4	5,520.2	5,355.6	164.65	33.527	
8,000.0	7,066.0	7,039.5	7,039.5	28.1	141.0	-91.95	-6,284.3	47.4	5,493.1	5,328.1	165.02	33.287	
8,070.8	7,065.6	7,039.1	7,039.1	28.9	141.0	-91.92	-6,284.3	47.4	5,423.4	5,257.4	166.03	32.666	
8,100.0	7,065.4	7,038.9	7,038.9	29.3	141.0	-91.91	-6,284.3	47.4	5,394.8	5,228.3	166.44	32.412	
8,169.3	7,065.0	7,038.5	7,038.5	30.2	140.9	-91.89	-6,284.3	47.4	5,326.7	5,159.2	167.47	31.807	
8,200.0	7,064.8	7,038.3	7,038.3	30.6	140.9	-91.88	-6,284.3	47.4	5,296.5	5,128.6	167.93	31.541	
8,267.7	7,064.4	7,037.9	7,037.9	31.5	140.9	-91.85	-6,284.3	47.4	5,230.1	5,061.1	168.96	30.954	
8,300.0	7,064.2	7,037.7	7,037.7	31.9	140.9	-91.84	-6,284.3	47.4	5,198.4	5,028.9	169.46	30.676	
8,366.1	7,063.7	7,037.2	7,037.2	32.8	140.9	-91.82	-6,284.3	47.4	5,133.5	4,963.0	170.50	30.108	
8,400.0	7,063.5	7,037.0	7,037.0	33.3	140.9	-91.80	-6,284.3	47.4	5,100.3	4,929.2	171.04	29.820	
8,464.5	7,063.1	7,036.6	7,036.6	34.2	140.9	-91.78	-6,284.3	47.4	5,037.0	4,864.9	172.08	29.272	
8,500.0	7,062.9	7,036.4	7,036.4	34.8	140.9	-91.77	-6,284.3	47.4	5,002.2	4,829.6	172.65	28.974	
8,563.0	7,062.5	7,036.0	7,036.0	35.7	140.9	-91.74	-6,284.3	47.4	4,940.5	4,766.9	173.68	28.446	
8,600.0	7,062.3	7,035.8	7,035.8	36.3	140.9	-91.73	-6,284.3	47.4	4,904.3	4,730.0	174.29	28.138	
8,661.4	7,061.9	7,035.4	7,035.4	37.2	140.9	-91.71	-6,284.3	47.4	4,844.2	4,668.9	175.32	27.631	
8,700.0	7,061.6	7,035.1	7,035.1	37.8	140.9	-91.70	-6,284.3	47.4	4,806.4	4,630.5	175.96	27.315	
8,759.8	7,061.3	7,034.8	7,034.8	38.8	140.9	-91.67	-6,284.3	47.4	4,747.9	4,571.0	176.98	26.828	
8,800.0	7,061.0	7,034.5	7,034.5	39.4	140.9	-91.66	-6,284.3	47.4	4,708.7	4,531.0	177.66	26.504	
8,858.2	7,060.6	7,034.1	7,034.1	40.3	140.9	-91.64	-6,284.3	47.4	4,651.8	4,473.1	178.65	26.038	
8,900.0	7,060.4	7,033.9	7,033.9	41.0	140.9	-91.62	-6,284.3	47.4	4,611.0	4,431.6	179.37	25.707	
8,956.7	7,060.0	7,033.5	7,033.5	41.9	140.8	-91.60	-6,284.3	47.4	4,555.7	4,375.3	180.35	25.260	
9,000.0	7,059.8	7,033.3	7,033.3	42.6	140.8	-91.59	-6,284.3	47.4	4,513.4	4,332.3	181.10	24.922	
9,055.1	7,059.4	7,032.9	7,032.9	43.6	140.8	-91.57	-6,284.3	47.4	4,459.7	4,277.6	182.06	24.495	
9,100.0	7,059.1	7,032.6	7,032.6	44.3	140.8	-91.55	-6,284.3	47.4	4,415.9	4,233.1	182.85	24.151	
9,153.5	7,058.8	7,032.3	7,032.3	45.2	140.8	-91.53	-6,284.3	47.4	4,363.8	4,180.0	183.79	23.743	
9,200.0	7,058.5	7,032.0	7,032.0	46.0	140.8	-91.52	-6,284.3	47.4	4,318.6	4,134.0	184.61	23.393	
9,251.9	7,058.2	7,031.7	7,031.7	46.9	140.8	-91.50	-6,284.3	47.4	4,268.1	4,082.5	185.53	23.005	
9,300.0	7,057.9	7,031.4	7,031.4	47.7	140.8	-91.48	-6,284.3	47.4	4,221.4	4,035.0	186.38	22.649	
9,350.4	7,057.6	7,031.1	7,031.1	48.6	140.8	-91.46	-6,284.3	47.4	4,172.4	3,985.2	187.28	22.279	
9,400.0	7,057.2	7,030.7	7,030.7	49.4	140.8	-91.44	-6,284.3	47.4	4,124.3	3,936.1	188.16	21.919	
9,448.8	7,056.9	7,030.4	7,030.4	50.3	140.8	-91.43	-6,284.3	47.4	4,076.9	3,887.9	189.04	21.567	
9,500.0	7,056.6	7,030.1	7,030.1	51.1	140.8	-91.41	-6,284.3	47.4	4,027.3	3,837.4	189.96	21.201	
9,547.2	7,056.3	7,029.8	7,029.8	52.0	140.8	-91.39	-6,284.3	47.4	3,981.6	3,790.8	190.81	20.867	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.0	7,029.5	7,029.5	52.9	140.8	-91.37	-6,284.3	47.4	3,930.5	3,738.8	191.76	20.498	
9,645.6	7,055.7	7,029.2	7,029.2	53.7	140.8	-91.35	-6,284.3	47.4	3,886.4	3,693.8	192.58	20.181	
9,700.0	7,055.4	7,028.9	7,028.9	54.6	140.8	-91.34	-6,284.3	47.4	3,833.9	3,640.3	193.56	19.807	
9,744.1	7,055.1	7,028.6	7,028.6	55.4	140.7	-91.32	-6,284.3	47.4	3,791.3	3,597.0	194.36	19.506	
9,800.0	7,054.7	7,028.2	7,028.2	56.4	140.7	-91.30	-6,284.3	47.4	3,737.4	3,542.0	195.38	19.129	
9,842.5	7,054.5	7,028.0	7,028.0	57.2	140.7	-91.28	-6,284.3	47.4	3,696.5	3,500.3	196.15	18.845	
9,900.0	7,054.1	7,027.6	7,027.6	58.2	140.7	-91.26	-6,284.3	47.4	3,641.2	3,444.0	197.20	18.464	
9,940.9	7,053.8	7,027.3	7,027.3	58.9	140.7	-91.25	-6,284.3	47.4	3,601.8	3,403.9	197.95	18.196	
10,000.0	7,053.5	7,027.0	7,027.0	60.0	140.7	-91.23	-6,284.3	47.4	3,545.1	3,346.1	199.03	17.812	
10,039.3	7,053.2	7,026.7	7,026.7	60.7	140.7	-91.21	-6,284.3	47.4	3,507.4	3,307.6	199.75	17.559	
10,100.0	7,052.8	7,026.3	7,026.3	61.8	140.7	-91.19	-6,284.3	47.4	3,449.3	3,248.4	200.86	17.173	
10,137.8	7,052.6	7,026.1	7,026.1	62.4	140.7	-91.18	-6,284.3	47.4	3,413.1	3,211.6	201.55	16.934	
10,200.0	7,052.2	7,025.7	7,025.7	63.6	140.7	-91.15	-6,284.3	47.4	3,353.7	3,151.0	202.69	16.546	
10,236.2	7,052.0	7,025.5	7,025.5	64.2	140.7	-91.14	-6,284.3	47.4	3,319.1	3,115.8	203.36	16.321	
10,300.0	7,051.6	7,025.1	7,025.1	65.4	140.7	-91.12	-6,284.3	47.4	3,258.3	3,053.8	204.53	15.931	
10,334.6	7,051.4	7,024.9	7,024.9	66.0	140.7	-91.11	-6,284.3	47.4	3,225.4	3,020.2	205.17	15.720	
10,400.0	7,051.0	7,024.5	7,024.5	67.2	140.7	-91.08	-6,284.3	47.4	3,163.3	2,956.9	206.38	15.328	
10,433.0	7,050.7	7,024.2	7,024.2	67.8	140.7	-91.07	-6,284.3	47.4	3,132.0	2,925.0	206.99	15.131	
10,500.0	7,050.3	7,023.8	7,023.8	69.0	140.7	-91.05	-6,284.3	47.4	3,068.6	2,860.3	208.22	14.737	
10,531.5	7,050.1	7,023.6	7,023.6	69.6	140.6	-91.04	-6,284.3	47.4	3,038.8	2,830.0	208.81	14.553	
10,600.0	7,049.7	7,023.2	7,023.2	70.8	140.6	-91.01	-6,284.3	47.4	2,974.2	2,764.1	210.08	14.158	
10,629.9	7,049.5	7,023.0	7,023.0	71.4	140.6	-91.00	-6,284.3	47.4	2,946.0	2,735.4	210.63	13.987	
10,700.0	7,049.1	7,022.6	7,022.6	72.7	140.6	-90.97	-6,284.3	47.4	2,880.2	2,668.3	211.93	13.590	
10,728.3	7,048.9	7,022.4	7,022.4	73.2	140.6	-90.96	-6,284.3	47.4	2,853.6	2,641.2	212.46	13.432	
10,800.0	7,048.4	7,021.9	7,021.9	74.5	140.6	-90.94	-6,284.3	47.4	2,786.6	2,572.8	213.79	13.035	
10,826.7	7,048.3	7,021.8	7,021.8	75.0	140.6	-90.93	-6,284.3	47.4	2,761.6	2,547.4	214.28	12.888	
10,900.0	7,047.8	7,021.3	7,021.3	76.3	140.6	-90.90	-6,284.3	47.4	2,693.5	2,477.8	215.64	12.490	
10,925.2	7,047.7	7,021.2	7,021.2	76.8	140.6	-90.89	-6,284.3	47.4	2,670.1	2,454.0	216.11	12.355	
11,000.0	7,047.2	7,020.7	7,020.7	78.2	140.6	-90.87	-6,284.3	47.4	2,600.9	2,383.4	217.51	11.958	
11,023.6	7,047.0	7,020.5	7,020.5	78.6	140.6	-90.86	-6,284.3	47.4	2,579.1	2,361.1	217.95	11.834	
11,100.0	7,046.6	7,020.1	7,020.1	80.0	140.6	-90.83	-6,284.3	47.4	2,508.8	2,289.4	219.37	11.437	
11,122.0	7,046.4	7,019.9	7,019.9	80.4	140.6	-90.82	-6,284.3	47.4	2,488.6	2,268.8	219.78	11.323	
11,200.0	7,045.9	7,019.4	7,019.4	81.9	140.6	-90.79	-6,284.3	47.4	2,417.4	2,196.2	221.23	10.927	
11,220.4	7,045.8	7,019.3	7,019.3	82.3	140.6	-90.79	-6,284.3	47.4	2,398.8	2,177.2	221.62	10.824	
11,300.0	7,045.3	7,018.8	7,018.8	83.7	140.5	-90.76	-6,284.3	47.4	2,326.7	2,103.6	223.10	10.429	
11,318.9	7,045.2	7,018.7	7,018.7	84.1	140.5	-90.75	-6,284.3	47.4	2,309.7	2,086.2	223.45	10.336	
11,400.0	7,044.7	7,018.2	7,018.2	85.6	140.5	-90.72	-6,284.3	47.4	2,236.8	2,011.8	224.97	9.943	
11,417.3	7,044.6	7,018.1	7,018.1	85.9	140.5	-90.72	-6,284.3	47.4	2,221.3	1,996.0	225.29	9.860	
11,500.0	7,044.0	7,017.5	7,017.5	87.5	140.5	-90.69	-6,284.3	47.4	2,147.8	1,920.9	226.84	9.468	
11,515.7	7,043.9	7,017.4	7,017.4	87.7	140.5	-90.68	-6,284.3	47.4	2,133.8	1,906.7	227.14	9.395	
11,600.0	7,043.4	7,016.9	7,016.9	89.3	140.5	-90.65	-6,284.3	47.4	2,059.7	1,831.0	228.71	9.006	
11,614.1	7,043.3	7,016.8	7,016.8	89.6	140.5	-90.64	-6,284.3	47.4	2,047.4	1,818.4	228.98	8.941	
11,700.0	7,042.8	7,016.3	7,016.3	91.2	140.5	-90.61	-6,284.3	47.4	1,972.9	1,742.3	230.59	8.556	
11,712.6	7,042.7	7,016.2	7,016.2	91.4	140.5	-90.61	-6,284.3	47.4	1,962.0	1,731.2	230.82	8.500	
11,800.0	7,042.2	7,015.7	7,015.7	93.0	140.5	-90.58	-6,284.3	47.4	1,887.3	1,654.8	232.46	8.119	
11,811.0	7,042.1	7,015.6	7,015.6	93.2	140.5	-90.57	-6,284.3	47.4	1,878.0	1,645.3	232.67	8.071	
11,900.0	7,041.5	7,015.0	7,015.0	94.9	140.5	-90.54	-6,284.3	47.4	1,803.2	1,568.9	234.34	7.695	
11,909.4	7,041.5	7,015.0	7,015.0	95.1	140.5	-90.54	-6,284.3	47.4	1,795.4	1,560.8	234.52	7.656	
12,000.0	7,040.9	7,014.4	7,014.4	96.8	140.5	-90.51	-6,284.3	47.4	1,720.8	1,484.6	236.22	7.285	
12,007.8	7,040.8	7,014.3	7,014.3	96.9	140.5	-90.50	-6,284.3	47.4	1,714.4	1,478.1	236.36	7.253	
12,100.0	7,040.3	7,013.8	7,013.8	98.7	140.4	-90.47	-6,284.3	47.4	1,640.4	1,402.3	238.09	6.890	
12,106.3	7,040.2	7,013.7	7,013.7	98.8	140.4	-90.47	-6,284.3	47.4	1,635.4	1,397.2	238.21	6.865	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,039.6	7,013.1	7,013.1	100.5	140.4	-90.43	-6,284.3	47.4	1,562.2	1,322.3	239.97	6.510	
12,204.7	7,039.6	7,013.1	7,013.1	100.6	140.4	-90.43	-6,284.3	47.4	1,558.6	1,318.6	240.06	6.493	
12,300.0	7,039.0	7,012.5	7,012.5	102.4	140.4	-90.40	-6,284.3	47.4	1,486.7	1,244.8	241.85	6.147	
12,303.1	7,039.0	7,012.5	7,012.5	102.5	140.4	-90.40	-6,284.3	47.4	1,484.4	1,242.5	241.91	6.136	
12,400.0	7,038.4	7,011.9	7,011.9	104.3	140.4	-90.36	-6,284.3	47.4	1,414.2	1,170.4	243.73	5.802	
12,401.5	7,038.4	7,011.9	7,011.9	104.3	140.4	-90.36	-6,284.3	47.4	1,413.1	1,169.3	243.76	5.797	
12,500.0	7,037.8	7,011.3	7,011.3	106.2	140.4	-90.33	-6,284.3	47.4	1,345.2	1,099.6	245.62	5.477	
12,598.4	7,037.1	7,010.6	7,010.6	108.0	140.4	-90.29	-6,284.3	47.4	1,281.3	1,033.9	247.47	5.178	
12,600.0	7,037.1	7,010.6	7,010.6	108.0	140.4	-90.29	-6,284.3	47.4	1,280.3	1,032.8	247.50	5.173	
12,696.8	7,036.5	7,010.0	7,010.0	109.9	140.4	-90.25	-6,284.3	47.4	1,222.0	972.7	249.32	4.901	
12,700.0	7,036.5	7,010.0	7,010.0	109.9	140.4	-90.25	-6,284.3	47.4	1,220.2	970.8	249.38	4.893	
12,795.2	7,035.9	7,009.4	7,009.4	111.7	140.4	-90.22	-6,284.3	47.4	1,168.0	916.9	251.18	4.650	
12,800.0	7,035.9	7,009.4	7,009.4	111.8	140.4	-90.22	-6,284.3	47.4	1,165.6	914.3	251.27	4.639	
12,893.7	7,035.3	7,008.8	7,008.8	113.6	140.3	-90.18	-6,284.3	47.4	1,120.1	867.1	253.03	4.427	
12,900.0	7,035.2	7,008.7	7,008.7	113.7	140.3	-90.18	-6,284.3	47.4	1,117.2	864.1	253.15	4.413	
12,992.1	7,034.7	7,008.2	7,008.2	115.4	140.3	-90.15	-6,284.3	47.4	1,079.0	824.1	254.89	4.233	
13,000.0	7,034.6	7,008.1	7,008.1	115.6	140.3	-90.14	-6,284.3	47.4	1,076.1	821.0	255.04	4.219	
13,090.5	7,034.0	7,007.5	7,007.5	117.3	140.3	-90.11	-6,284.3	47.4	1,045.6	788.9	256.74	4.073	
13,100.0	7,034.0	7,007.5	7,007.5	117.5	140.3	-90.11	-6,284.3	47.4	1,042.9	785.9	256.92	4.059	
13,188.9	7,033.4	7,006.9	7,006.9	119.1	140.3	-90.08	-6,284.3	47.4	1,020.7	762.1	258.60	3.947	
13,200.0	7,033.4	7,006.9	7,006.9	119.3	140.3	-90.07	-6,284.3	47.4	1,018.4	759.6	258.81	3.935	
13,287.4	7,032.8	7,006.3	7,006.3	121.0	140.3	-90.04	-6,284.3	47.4	1,004.8	744.3	260.46	3.858	
13,300.0	7,032.7	7,006.2	7,006.2	121.2	140.3	-90.04	-6,284.3	47.4	1,003.4	742.7	260.70	3.849	
13,385.8	7,032.2	7,005.7	7,005.7	122.9	140.3	-90.01	-6,284.3	47.4	998.4	736.1	262.32	3.806	
13,400.0	7,032.1	7,005.6	7,005.6	123.1	140.3	-90.00	-6,284.3	47.4	998.3	735.7	262.58	3.802	
13,401.7	7,032.1	7,005.6	7,005.6	123.2	140.3	-90.00	-6,284.3	47.4	998.3	735.7	262.62	3.801 CC, ES	
13,484.2	7,031.6	7,005.1	7,005.1	124.7	140.3	-89.97	-6,284.3	47.4	1,001.7	737.5	264.17	3.792 SF	
13,500.0	7,031.5	7,005.0	7,005.0	125.0	140.3	-89.96	-6,284.3	47.4	1,003.1	738.6	264.47	3.793	
13,582.6	7,030.9	7,004.4	7,004.4	126.6	140.3	-89.93	-6,284.3	47.4	1,014.5	748.5	266.03	3.814	
13,600.0	7,030.8	7,004.3	7,004.3	126.9	140.3	-89.93	-6,284.3	47.4	1,017.8	751.4	266.36	3.821	
13,681.1	7,030.3	7,003.8	7,003.8	128.4	140.2	-89.90	-6,284.3	47.4	1,036.6	768.7	267.89	3.870	
13,700.0	7,030.2	7,003.7	7,003.7	128.8	140.2	-89.89	-6,284.3	47.4	1,041.9	773.6	268.25	3.884	
13,779.5	7,029.7	7,003.2	7,003.2	130.3	140.2	-89.86	-6,284.3	47.4	1,067.4	797.6	269.75	3.957	
13,800.0	7,029.6	7,003.1	7,003.1	130.7	140.2	-89.86	-6,284.3	47.4	1,074.8	804.7	270.14	3.979	
13,877.9	7,029.1	7,002.6	7,002.6	132.2	140.2	-89.83	-6,284.3	47.4	1,106.0	834.4	271.61	4.072	
13,900.0	7,029.0	7,002.5	7,002.5	132.6	140.2	-89.82	-6,284.3	47.4	1,115.7	843.7	272.03	4.101	
13,976.3	7,028.5	7,002.0	7,002.0	134.0	140.2	-89.79	-6,284.3	47.4	1,151.8	878.4	273.47	4.212	
14,000.0	7,028.3	7,001.8	7,001.8	134.5	140.2	-89.78	-6,284.3	47.4	1,163.8	889.9	273.92	4.249	
14,074.8	7,027.9	7,001.4	7,001.4	135.9	140.2	-89.76	-6,284.3	47.4	1,204.0	928.6	275.33	4.373	
14,100.0	7,027.7	7,001.2	7,001.2	136.4	140.2	-89.75	-6,284.3	47.4	1,218.3	942.5	275.81	4.417	
14,173.2	7,027.2	7,000.7	7,000.7	137.8	140.2	-89.72	-6,284.3	47.4	1,261.6	984.4	277.19	4.552	
14,200.0	7,027.1	7,000.6	7,000.6	138.3	140.2	-89.71	-6,284.3	47.4	1,278.2	1,000.5	277.70	4.603	
14,210.5	7,027.0	7,000.5	7,000.5	138.5	140.2	-89.71	-6,284.3	47.4	1,284.8	1,006.9	277.90	4.623	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 18-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,100.0	7,040.3	5,400.0	5,399.4	98.7	1.7	-8.50	-4,211.7	-705.6	1,777.6	1,731.8	45.79	38.817	
12,106.3	7,040.2	5,400.0	5,399.4	98.8	1.7	-8.50	-4,211.7	-705.6	1,780.3	1,734.5	45.84	38.835	
12,200.0	7,039.6	5,400.0	5,399.4	100.5	1.7	-8.50	-4,211.7	-705.6	1,822.5	1,775.9	46.56	39.142	
12,204.7	7,039.6	5,400.0	5,399.4	100.6	1.7	-8.50	-4,211.7	-705.6	1,824.7	1,778.1	46.60	39.160	
12,300.0	7,039.0	5,400.0	5,399.4	102.4	1.7	-8.50	-4,211.7	-705.6	1,871.7	1,824.3	47.33	39.547	
12,303.1	7,039.0	5,400.0	5,399.4	102.5	1.7	-8.50	-4,211.7	-705.6	1,873.3	1,825.9	47.35	39.561	
12,400.0	7,038.4	5,400.0	5,399.4	104.3	1.7	-8.50	-4,211.7	-705.6	1,924.8	1,876.7	48.09	40.021	
12,401.5	7,038.4	5,400.0	5,399.4	104.3	1.7	-8.50	-4,211.7	-705.6	1,925.6	1,877.5	48.11	40.029	
12,500.0	7,037.8	5,400.0	5,399.4	106.2	1.7	-8.50	-4,211.7	-705.6	1,981.5	1,932.6	48.86	40.554	
12,598.4	7,037.1	5,400.0	5,399.4	108.0	1.7	-8.50	-4,211.7	-705.6	2,040.6	1,991.0	49.62	41.127	
12,600.0	7,037.1	5,400.0	5,399.4	108.0	1.7	-8.50	-4,211.7	-705.6	2,041.6	1,991.9	49.63	41.136	
12,696.8	7,036.5	5,400.0	5,399.4	109.9	1.7	-8.50	-4,211.7	-705.6	2,102.6	2,052.2	50.37	41.741	
12,700.0	7,036.5	5,400.0	5,399.4	109.9	1.7	-8.50	-4,211.7	-705.6	2,104.7	2,054.3	50.40	41.761	
12,795.2	7,035.9	5,400.0	5,399.4	111.7	1.7	-8.50	-4,211.7	-705.6	2,167.4	2,116.2	51.13	42.389	
12,800.0	7,035.9	5,400.0	5,399.4	111.8	1.7	-8.50	-4,211.7	-705.6	2,170.5	2,119.4	51.17	42.422	
12,893.7	7,035.3	5,400.0	5,399.4	113.6	1.7	-8.50	-4,211.7	-705.6	2,234.5	2,182.7	51.89	43.066	
12,900.0	7,035.2	5,400.0	5,399.4	113.7	1.7	-8.50	-4,211.7	-705.6	2,238.9	2,187.0	51.93	43.111	
12,992.1	7,034.7	5,400.0	5,399.4	115.4	1.7	-8.50	-4,211.7	-705.6	2,304.0	2,251.3	52.64	43.766	
13,000.0	7,034.6	5,400.0	5,399.4	115.6	1.7	-8.50	-4,211.7	-705.6	2,309.7	2,256.9	52.70	43.823	
13,090.5	7,034.0	5,400.0	5,399.4	117.3	1.7	-8.50	-4,211.7	-705.6	2,375.5	2,322.1	53.40	44.484	
13,100.0	7,034.0	5,400.0	5,399.4	117.5	1.7	-8.50	-4,211.7	-705.6	2,382.5	2,329.0	53.47	44.554	
13,188.9	7,033.4	5,400.0	5,399.4	119.1	1.7	-8.50	-4,211.7	-705.6	2,448.8	2,394.7	54.16	45.216	
13,200.0	7,033.4	5,400.0	5,399.4	119.3	1.7	-8.50	-4,211.7	-705.6	2,457.2	2,402.9	54.24	45.299	
13,287.4	7,032.8	5,400.0	5,399.4	121.0	1.7	-8.50	-4,211.7	-705.6	2,523.9	2,469.0	54.92	45.959	
13,300.0	7,032.7	5,400.0	5,399.4	121.2	1.7	-8.50	-4,211.7	-705.6	2,533.6	2,478.6	55.01	46.055	
13,385.8	7,032.2	5,400.0	5,399.4	122.9	1.7	-8.50	-4,211.7	-705.6	2,600.5	2,544.8	55.67	46.709	
13,400.0	7,032.1	5,400.0	5,399.4	123.1	1.7	-8.50	-4,211.7	-705.6	2,611.7	2,555.9	55.78	46.818	
13,484.2	7,031.6	5,400.0	5,399.4	124.7	1.7	-8.50	-4,211.7	-705.6	2,678.6	2,622.1	56.43	47.465	
13,500.0	7,031.5	5,400.0	5,399.4	125.0	1.7	-8.50	-4,211.7	-705.6	2,691.2	2,634.7	56.55	47.586	
13,582.6	7,030.9	5,400.0	5,399.4	126.6	1.7	-8.50	-4,211.7	-705.6	2,757.9	2,700.7	57.19	48.222	
13,600.0	7,030.8	5,400.0	5,399.4	126.9	1.7	-8.50	-4,211.7	-705.6	2,772.0	2,714.7	57.33	48.356	
13,681.1	7,030.3	5,400.0	5,399.4	128.4	1.7	-8.50	-4,211.7	-705.6	2,838.5	2,780.5	57.95	48.981	
13,700.0	7,030.2	5,400.0	5,399.4	128.8	1.7	-8.50	-4,211.7	-705.6	2,854.1	2,796.0	58.10	49.127	
13,779.5	7,029.7	5,400.0	5,399.4	130.3	1.7	-8.50	-4,211.7	-705.6	2,920.1	2,861.4	58.71	49.738	
13,800.0	7,029.6	5,400.0	5,399.4	130.7	1.7	-8.50	-4,211.7	-705.6	2,937.3	2,878.4	58.87	49.896	
13,877.9	7,029.1	5,400.0	5,399.4	132.2	1.7	-8.50	-4,211.7	-705.6	3,002.8	2,943.3	59.47	50.493	
13,900.0	7,029.0	5,400.0	5,399.4	132.6	1.7	-8.50	-4,211.7	-705.6	3,021.4	2,961.8	59.64	50.662	
13,976.3	7,028.5	5,400.0	5,399.4	134.0	1.7	-8.50	-4,211.7	-705.6	3,086.3	3,026.1	60.23	51.244	
14,000.0	7,028.3	5,400.0	5,399.4	134.5	1.7	-8.50	-4,211.7	-705.6	3,106.6	3,046.1	60.41	51.423	
14,074.8	7,027.9	5,400.0	5,399.4	135.9	1.7	-8.50	-4,211.7	-705.6	3,170.8	3,109.8	60.99	51.989	
14,100.0	7,027.7	5,400.0	5,399.4	136.4	1.7	-8.50	-4,211.7	-705.6	3,192.5	3,131.4	61.18	52.180	
14,173.2	7,027.2	5,400.0	5,399.4	137.8	1.7	-8.50	-4,211.7	-705.6	3,256.0	3,194.2	61.75	52.730	
14,200.0	7,027.1	5,400.0	5,399.4	138.3	1.7	-8.50	-4,211.7	-705.6	3,279.3	3,217.4	61.96	52.930	
14,210.5	7,027.0	5,400.0	5,399.4	138.5	1.7	-8.50	-4,211.7	-705.6	3,288.5	3,226.5	62.04	53.009	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	170.00	-2,910.8	513.1	2,955.7				
98.4	98.4	126.4	126.4	0.1	0.1	170.01	-2,909.6	512.5	2,954.7	2,954.5	0.19	N/A	
100.0	100.0	127.5	127.5	0.1	0.1	170.01	-2,909.6	512.5	2,954.7	2,954.5	0.19	N/A	
196.8	196.8	200.0	200.0	0.3	0.2	170.01	-2,908.9	512.5	2,953.8	2,953.3	0.50	5,896.575	
200.0	200.0	200.0	200.0	0.3	0.2	170.01	-2,908.9	512.5	2,953.8	2,953.2	0.51	5,814.363	
295.3	295.3	297.3	297.3	0.5	0.2	170.01	-2,908.5	512.4	2,953.3	2,952.6	0.77	3,828.665	
300.0	300.0	302.2	302.2	0.5	0.2	170.01	-2,908.5	512.4	2,953.3	2,952.5	0.78	3,765.025	
393.7	393.7	396.8	396.7	0.8	0.3	170.01	-2,908.0	512.3	2,952.8	2,951.7	1.04	2,837.188	
400.0	400.0	400.0	400.0	0.8	0.3	170.01	-2,907.9	512.3	2,952.8	2,951.7	1.06	2,794.914	
492.1	492.1	483.1	483.0	1.0	0.3	170.01	-2,907.6	512.4	2,952.4	2,951.2	1.28	2,309.355	
500.0	500.0	489.9	489.9	1.0	0.3	170.01	-2,907.6	512.3	2,952.4	2,951.1	1.30	2,275.659	
590.5	590.5	600.0	600.0	1.2	0.4	170.01	-2,907.2	512.1	2,952.1	2,950.5	1.54	1,920.466	
600.0	600.0	600.0	600.0	1.2	0.4	170.01	-2,907.2	512.1	2,952.0	2,950.5	1.56	1,894.254	
689.0	689.0	676.2	676.2	1.4	0.4	170.01	-2,906.9	512.2	2,951.7	2,949.9	1.78	1,658.727	
692.1	692.1	678.6	678.6	1.4	0.4	170.01	-2,906.9	512.3	2,951.7	2,949.9	1.79	1,651.705	
700.0	700.0	684.7	684.7	1.4	0.4	170.01	-2,906.9	512.3	2,951.7	2,949.9	1.81	1,633.833	
787.4	787.4	785.0	784.9	1.6	0.4	170.00	-2,906.8	512.7	2,951.7	2,949.6	2.02	1,460.325	
800.0	800.0	800.7	800.6	1.7	0.4	170.00	-2,906.7	512.6	2,951.6	2,949.6	2.05	1,438.179	
885.8	885.8	891.7	891.7	1.9	0.5	170.00	-2,906.2	512.7	2,951.1	2,948.8	2.29	1,288.910	
900.0	900.0	906.3	906.3	1.9	0.5	169.99	-2,906.1	512.7	2,951.0	2,948.7	2.33	1,267.182	
984.2	984.2	989.6	989.6	2.1	0.5	169.99	-2,905.5	512.9	2,950.5	2,947.9	2.56	1,152.160	
1,000.0	1,000.0	1,000.0	1,000.0	2.1	0.5	169.99	-2,905.4	512.9	2,950.4	2,947.8	2.60	1,134.132	
1,082.7	1,082.7	1,070.1	1,070.1	2.3	0.5	169.99	-2,905.2	512.9	2,950.1	2,947.3	2.79	1,056.675	
1,087.2	1,087.2	1,073.8	1,073.7	2.3	0.5	169.99	-2,905.2	512.9	2,950.1	2,947.3	2.80	1,052.694	
1,100.0	1,100.0	1,083.9	1,083.9	2.3	0.5	169.99	-2,905.2	513.0	2,950.1	2,947.3	2.83	1,041.715	
1,181.1	1,181.1	1,162.5	1,162.5	2.5	0.5	-115.86	-2,905.3	513.1	2,950.8	2,947.7	3.06	965.626	
1,200.0	1,200.0	1,181.9	1,181.8	2.6	0.5	-115.86	-2,905.3	513.2	2,951.1	2,948.0	3.10	951.354	
1,279.5	1,279.4	1,267.0	1,266.9	2.7	0.6	-115.92	-2,905.3	513.7	2,952.8	2,949.5	3.30	894.313	
1,300.0	1,299.8	1,289.1	1,289.1	2.8	0.6	-115.93	-2,905.2	513.9	2,953.4	2,950.0	3.35	880.628	
1,377.9	1,377.5	1,372.2	1,372.2	2.9	0.6	-116.01	-2,905.0	514.2	2,956.1	2,952.6	3.55	833.741	
1,400.0	1,399.5	1,395.7	1,395.6	3.0	0.6	-116.04	-2,905.0	514.2	2,957.0	2,953.4	3.60	821.593	
1,476.4	1,475.3	1,462.3	1,462.3	3.2	0.6	-116.10	-2,904.8	514.1	2,960.8	2,957.1	3.79	781.634	
1,500.0	1,498.7	1,482.7	1,482.6	3.2	0.6	-116.13	-2,904.9	514.1	2,962.3	2,958.4	3.85	770.159	
1,574.8	1,572.6	1,554.1	1,554.1	3.4	0.6	-116.22	-2,904.9	514.3	2,967.5	2,963.4	4.07	729.953	
1,600.0	1,597.5	1,579.0	1,578.9	3.5	0.6	-116.26	-2,905.0	514.3	2,969.4	2,965.3	4.14	717.092	
1,673.2	1,669.4	1,665.4	1,665.3	3.7	0.7	-116.44	-2,904.9	514.6	2,975.5	2,971.2	4.38	678.857	
1,700.2	1,695.8	1,699.2	1,699.2	3.8	0.7	-116.52	-2,904.7	514.7	2,977.9	2,973.4	4.47	666.106	
1,771.6	1,765.7	1,755.0	1,755.0	4.1	0.7	-116.72	-2,904.5	514.9	2,984.4	2,979.7	4.71	633.917	
1,800.0	1,793.4	1,777.1	1,777.0	4.2	0.7	-116.80	-2,904.5	515.0	2,987.2	2,982.3	4.80	622.116	
1,870.1	1,862.0	1,854.4	1,854.4	4.4	0.7	-117.08	-2,904.6	515.0	2,993.9	2,988.9	5.05	593.443	
1,900.0	1,891.2	1,894.5	1,894.5	4.5	0.7	-117.22	-2,904.4	515.1	2,996.7	2,991.6	5.15	582.048	
1,968.5	1,958.3	1,953.5	1,953.4	4.8	0.7	-117.43	-2,904.1	515.0	3,003.1	2,997.7	5.40	556.076	
2,000.0	1,989.1	1,979.6	1,979.6	4.9	0.7	-117.52	-2,904.1	514.9	3,006.1	3,000.6	5.52	544.959	
2,066.9	2,054.5	2,042.5	2,042.5	5.2	0.7	-117.74	-2,904.1	514.5	3,012.6	3,006.8	5.77	522.134	
2,100.0	2,086.9	2,075.7	2,075.6	5.3	0.7	-117.85	-2,904.1	514.4	3,015.8	3,010.0	5.89	511.624	
2,165.3	2,150.8	2,149.0	2,149.0	5.6	0.7	-118.11	-2,904.0	514.4	3,022.2	3,016.1	6.16	490.998	
2,200.0	2,184.7	2,190.5	2,190.4	5.7	0.7	-118.25	-2,903.8	514.2	3,025.5	3,019.2	6.29	480.622	
2,263.8	2,247.1	2,242.5	2,242.5	6.0	0.7	-118.43	-2,903.6	514.0	3,031.6	3,025.0	6.55	463.025	
2,300.0	2,282.5	2,270.1	2,270.1	6.1	0.7	-118.52	-2,903.6	513.9	3,035.2	3,028.5	6.69	453.708	
2,362.2	2,343.3	2,326.1	2,326.1	6.4	0.7	-118.71	-2,903.7	513.7	3,041.5	3,034.6	6.94	438.196	
2,400.0	2,380.3	2,369.3	2,369.2	6.6	0.8	-118.85	-2,903.8	513.3	3,045.4	3,038.3	7.10	429.155	
2,460.6	2,439.6	2,429.0	2,429.0	6.8	0.8	-119.05	-2,903.9	512.7	3,051.5	3,044.2	7.35	415.419	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
9,500.0	7,056.6	6,994.8	6,993.9	51.1	1.5	-88.25	-2,923.8	557.2	1,590.7	1,540.2	50.50	31.495	
9,547.2	7,056.3	6,995.1	6,994.3	52.0	1.5	-88.26	-2,923.8	557.2	1,575.3	1,523.9	51.36	30.670	
9,600.0	7,056.0	7,000.0	6,999.1	52.9	1.5	-88.45	-2,923.9	557.4	1,559.6	1,507.2	52.33	29.802	
9,645.6	7,055.7	7,000.0	6,999.1	53.7	1.5	-88.45	-2,923.9	557.4	1,547.3	1,494.2	53.16	29.106	
9,700.0	7,055.4	7,000.0	6,999.1	54.6	1.5	-88.45	-2,923.9	557.4	1,534.4	1,480.2	54.15	28.335	
9,744.1	7,055.1	7,000.0	6,999.1	55.4	1.5	-88.45	-2,923.9	557.4	1,525.2	1,470.3	54.96	27.753	
9,800.0	7,054.7	7,000.0	6,999.1	56.4	1.5	-88.45	-2,923.9	557.4	1,515.4	1,459.4	55.98	27.071	
9,842.5	7,054.5	7,000.0	6,999.1	57.2	1.5	-88.45	-2,923.9	557.4	1,509.3	1,452.5	56.76	26.591	
9,900.0	7,054.1	7,000.0	6,999.1	58.2	1.5	-88.45	-2,923.9	557.4	1,502.8	1,445.0	57.81	25.995	
9,940.9	7,053.8	7,000.0	6,999.1	58.9	1.5	-88.45	-2,923.9	557.4	1,499.6	1,441.0	58.57	25.605	
10,000.0	7,053.5	7,000.0	6,999.1	60.0	1.5	-88.45	-2,923.9	557.4	1,496.9	1,437.2	59.65	25.093	
10,039.3	7,053.2	7,000.0	6,999.1	60.7	1.5	-88.45	-2,923.9	557.4	1,496.3	1,435.9	60.38	24.783	
10,039.7	7,053.2	7,000.0	6,999.1	60.7	1.5	-88.45	-2,923.9	557.4	1,496.3	1,435.9	60.38	24.780 CC, ES	
10,100.0	7,052.8	7,000.0	6,999.1	61.8	1.5	-88.45	-2,923.9	557.4	1,497.5	1,436.0	61.50	24.352	
10,137.8	7,052.6	7,000.0	6,999.1	62.4	1.5	-88.45	-2,923.9	557.4	1,499.5	1,437.3	62.19	24.111	
10,200.0	7,052.2	7,000.0	6,999.1	63.6	1.5	-88.45	-2,923.9	557.4	1,504.9	1,441.5	63.34	23.757	
10,236.2	7,052.0	7,000.0	6,999.1	64.2	1.5	-88.45	-2,923.9	557.4	1,509.2	1,445.2	64.02	23.575	
10,300.0	7,051.6	7,000.0	6,999.1	65.4	1.5	-88.45	-2,923.9	557.4	1,518.8	1,453.6	65.20	23.296	
10,334.6	7,051.4	7,000.0	6,999.1	66.0	1.5	-88.45	-2,923.9	557.4	1,525.1	1,459.3	65.84	23.164	
10,400.0	7,051.0	7,000.0	6,999.1	67.2	1.5	-88.45	-2,923.9	557.4	1,539.1	1,472.0	67.05	22.953	
10,433.0	7,050.7	7,000.0	6,999.1	67.8	1.5	-88.45	-2,923.9	557.4	1,547.2	1,479.5	67.67	22.864	
10,500.0	7,050.3	7,000.0	6,999.1	69.0	1.5	-88.45	-2,923.9	557.4	1,565.5	1,496.6	68.91	22.717	
10,531.5	7,050.1	7,000.0	6,999.1	69.6	1.5	-88.45	-2,923.9	557.4	1,575.1	1,505.6	69.50	22.663	
10,600.0	7,049.7	7,000.0	6,999.1	70.8	1.5	-88.45	-2,923.9	557.4	1,597.8	1,527.0	70.78	22.575	
10,629.9	7,049.5	7,000.0	6,999.1	71.4	1.5	-88.45	-2,923.9	557.4	1,608.5	1,537.2	71.33	22.549	
10,700.0	7,049.1	7,000.0	6,999.1	72.7	1.5	-88.45	-2,923.9	557.4	1,635.6	1,562.9	72.64	22.515	
10,728.3	7,048.9	7,000.0	6,999.1	73.2	1.5	-88.45	-2,923.9	557.4	1,647.2	1,574.0	73.17	22.511 SF	
10,800.0	7,048.4	7,000.0	6,999.1	74.5	1.5	-88.45	-2,923.9	557.4	1,678.4	1,603.9	74.51	22.526	
10,826.7	7,048.3	7,000.0	6,999.1	75.0	1.5	-88.45	-2,923.9	557.4	1,690.7	1,615.7	75.01	22.539	
10,900.0	7,047.8	7,000.0	6,999.1	76.3	1.5	-88.45	-2,923.9	557.4	1,726.0	1,649.6	76.38	22.597	
10,925.2	7,047.7	7,000.0	6,999.1	76.8	1.5	-88.45	-2,923.9	557.4	1,738.7	1,661.9	76.86	22.623	
11,000.0	7,047.2	7,000.0	6,999.1	78.2	1.5	-88.45	-2,923.9	557.4	1,778.0	1,699.7	78.26	22.720	
11,023.6	7,047.0	7,000.0	6,999.1	78.6	1.5	-88.45	-2,923.9	557.4	1,790.8	1,712.1	78.70	22.755	
11,100.0	7,046.6	7,000.0	6,999.1	80.0	1.5	-88.45	-2,923.9	557.4	1,833.9	1,753.8	80.13	22.886	
11,122.0	7,046.4	7,000.0	6,999.1	80.4	1.5	-88.45	-2,923.9	557.4	1,846.8	1,766.2	80.55	22.928	
11,200.0	7,045.9	7,000.0	6,999.1	81.9	1.5	-88.45	-2,923.9	557.4	1,893.5	1,811.5	82.01	23.088	
11,220.4	7,045.8	7,000.0	6,999.1	82.3	1.5	-88.45	-2,923.9	557.4	1,906.1	1,823.7	82.40	23.134	
11,300.0	7,045.3	7,000.0	6,999.1	83.7	1.5	-88.45	-2,923.9	557.4	1,956.4	1,872.5	83.89	23.321	
11,318.9	7,045.2	7,000.0	6,999.1	84.1	1.5	-88.45	-2,923.9	557.4	1,968.6	1,884.4	84.25	23.367	
11,400.0	7,044.7	7,000.0	6,999.1	85.6	1.5	-88.45	-2,923.9	557.4	2,022.3	1,936.5	85.77	23.577	
11,417.3	7,044.6	7,000.0	6,999.1	85.9	1.5	-88.45	-2,923.9	557.4	2,033.9	1,947.8	86.10	23.623	
11,500.0	7,044.0	7,000.0	6,999.1	87.5	1.5	-88.45	-2,923.9	557.4	2,090.8	2,003.2	87.66	23.853	
11,515.7	7,043.9	7,000.0	6,999.1	87.7	1.5	-88.45	-2,923.9	557.4	2,101.9	2,013.9	87.95	23.898	
11,600.0	7,043.4	7,000.0	6,999.1	89.3	1.5	-88.45	-2,923.9	557.4	2,161.9	2,072.3	89.54	24.144	
11,614.1	7,043.3	7,000.0	6,999.1	89.6	1.5	-88.45	-2,923.9	557.4	2,172.1	2,082.3	89.81	24.186	
11,700.0	7,042.8	7,000.0	6,999.1	91.2	1.5	-88.45	-2,923.9	557.4	2,235.1	2,143.7	91.43	24.447	
11,712.6	7,042.7	7,000.0	6,999.1	91.4	1.5	-88.45	-2,923.9	557.4	2,244.5	2,152.8	91.66	24.486	
11,800.0	7,042.2	7,000.0	6,999.1	93.0	1.5	-88.45	-2,923.9	557.4	2,310.4	2,217.1	93.32	24.759	
11,811.0	7,042.1	7,000.0	6,999.1	93.2	1.5	-88.45	-2,923.9	557.4	2,318.8	2,225.2	93.52	24.794	
11,900.0	7,041.5	7,000.0	6,999.1	94.9	1.5	-88.45	-2,923.9	557.4	2,387.4	2,292.2	95.20	25.077	
11,909.4	7,041.5	7,000.0	6,999.1	95.1	1.5	-88.45	-2,923.9	557.4	2,394.8	2,299.4	95.38	25.107	
12,000.0	7,040.9	7,000.0	6,999.1	96.8	1.5	-88.45	-2,923.9	557.4	2,466.2	2,369.1	97.09	25.400	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,007.8	7,040.8	7,000.0	6,999.1	96.9	1.5	-88.45	-2,923.9	557.4	2,472.4	2,375.2	97.24	25.425	
12,100.0	7,040.3	7,000.0	6,999.1	98.7	1.5	-88.45	-2,923.9	557.4	2,546.4	2,447.4	98.99	25.725	
12,106.3	7,040.2	7,000.0	6,999.1	98.8	1.5	-88.45	-2,923.9	557.4	2,551.5	2,452.4	99.10	25.745	
12,200.0	7,039.6	7,000.0	6,999.1	100.5	1.5	-88.45	-2,923.9	557.4	2,627.9	2,527.1	100.88	26.051	
12,204.7	7,039.6	7,000.0	6,999.1	100.6	1.5	-88.45	-2,923.9	557.4	2,631.8	2,530.8	100.97	26.066	
12,300.0	7,039.0	7,000.0	6,999.1	102.4	1.5	-88.45	-2,923.9	557.4	2,710.8	2,608.0	102.77	26.377	
12,303.1	7,039.0	7,000.0	6,999.1	102.5	1.5	-88.45	-2,923.9	557.4	2,713.4	2,610.5	102.83	26.387	
12,400.0	7,038.4	7,000.0	6,999.1	104.3	1.5	-88.45	-2,923.9	557.4	2,794.7	2,690.0	104.67	26.701	
12,401.5	7,038.4	7,000.0	6,999.1	104.3	1.5	-88.45	-2,923.9	557.4	2,796.0	2,691.3	104.69	26.706	
12,500.0	7,037.8	7,000.0	6,999.1	106.2	1.5	-88.45	-2,923.9	557.4	2,879.6	2,773.1	106.56	27.023	
12,598.4	7,037.1	7,000.0	6,999.1	108.0	1.5	-88.45	-2,923.9	557.4	2,964.2	2,855.7	108.43	27.338	
12,600.0	7,037.1	7,000.0	6,999.1	108.0	1.5	-88.45	-2,923.9	557.4	2,965.5	2,857.1	108.46	27.343	
12,696.8	7,036.5	7,000.0	6,999.1	109.9	1.5	-88.45	-2,923.9	557.4	3,049.5	2,939.2	110.29	27.649	
12,700.0	7,036.5	7,000.0	6,999.1	109.9	1.5	-88.45	-2,923.9	557.4	3,052.3	2,941.9	110.35	27.659	
12,795.2	7,035.9	7,000.0	6,999.1	111.7	1.5	-88.45	-2,923.9	557.4	3,135.7	3,023.5	112.16	27.957	
12,800.0	7,035.9	7,000.0	6,999.1	111.8	1.5	-88.45	-2,923.9	557.4	3,139.8	3,027.6	112.25	27.972	
12,893.7	7,035.3	7,000.0	6,999.1	113.6	1.5	-88.45	-2,923.9	557.4	3,222.5	3,108.5	114.03	28.260	
12,900.0	7,035.2	7,000.0	6,999.1	113.7	1.5	-88.45	-2,923.9	557.4	3,228.1	3,114.0	114.15	28.280	
12,992.1	7,034.7	7,000.0	6,999.1	115.4	1.5	-88.45	-2,923.9	557.4	3,310.0	3,194.1	115.90	28.559	
13,000.0	7,034.6	7,000.0	6,999.1	115.6	1.5	-88.45	-2,923.9	557.4	3,317.0	3,201.0	116.05	28.583	
13,090.5	7,034.0	7,000.0	6,999.1	117.3	1.5	-88.45	-2,923.9	557.4	3,398.1	3,280.3	117.77	28.854	
13,100.0	7,034.0	7,000.0	6,999.1	117.5	1.5	-88.45	-2,923.9	557.4	3,406.6	3,288.6	117.95	28.882	
13,188.9	7,033.4	7,000.0	6,999.1	119.1	1.5	-88.45	-2,923.9	557.4	3,486.7	3,367.1	119.64	29.144	
13,200.0	7,033.4	7,000.0	6,999.1	119.3	1.5	-88.45	-2,923.9	557.4	3,496.7	3,376.8	119.85	29.176	
13,287.4	7,032.8	7,000.0	6,999.1	121.0	1.5	-88.45	-2,923.9	557.4	3,575.9	3,454.4	121.51	29.429	
13,300.0	7,032.7	7,000.0	6,999.1	121.2	1.5	-88.45	-2,923.9	557.4	3,587.3	3,465.6	121.75	29.465	
13,385.8	7,032.2	7,000.0	6,999.1	122.9	1.5	-88.45	-2,923.9	557.4	3,665.5	3,542.1	123.38	29.709	
13,400.0	7,032.1	7,000.0	6,999.1	123.1	1.5	-88.45	-2,923.9	557.4	3,678.5	3,554.8	123.65	29.749	
13,484.2	7,031.6	7,000.0	6,999.1	124.7	1.5	-88.45	-2,923.9	557.4	3,755.6	3,630.3	125.25	29.984	
13,500.0	7,031.5	7,000.0	6,999.1	125.0	1.5	-88.45	-2,923.9	557.4	3,770.0	3,644.5	125.55	30.027	
13,582.6	7,030.9	7,000.0	6,999.1	126.6	1.5	-88.45	-2,923.9	557.4	3,846.0	3,718.9	127.13	30.254	
13,600.0	7,030.8	7,000.0	6,999.1	126.9	1.5	-88.45	-2,923.9	557.4	3,862.0	3,734.6	127.46	30.301	
13,681.1	7,030.3	7,000.0	6,999.1	128.4	1.5	-88.45	-2,923.9	557.4	3,936.9	3,807.9	129.00	30.519	
13,700.0	7,030.2	7,000.0	6,999.1	128.8	1.5	-88.45	-2,923.9	557.4	3,954.4	3,825.0	129.36	30.569	
13,779.5	7,029.7	7,000.0	6,999.1	130.3	1.5	-88.45	-2,923.9	557.4	4,028.1	3,897.2	130.87	30.779	
13,800.0	7,029.6	7,000.0	6,999.1	130.7	1.5	-88.45	-2,923.9	557.4	4,047.1	3,915.9	131.26	30.833	
13,877.9	7,029.1	7,000.0	6,999.1	132.2	1.5	-88.45	-2,923.9	557.4	4,119.6	3,986.9	132.75	31.034	
13,900.0	7,029.0	7,000.0	6,999.1	132.6	1.5	-88.45	-2,923.9	557.4	4,140.2	4,007.1	133.17	31.091	
13,976.3	7,028.5	7,000.0	6,999.1	134.0	1.5	-88.45	-2,923.9	557.4	4,211.5	4,076.9	134.62	31.284	
14,000.0	7,028.3	7,000.0	6,999.1	134.5	1.5	-88.45	-2,923.9	557.4	4,233.6	4,098.5	135.07	31.344	
14,074.8	7,027.9	7,000.0	6,999.1	135.9	1.5	-88.45	-2,923.9	557.4	4,303.6	4,167.2	136.49	31.530	
14,100.0	7,027.7	7,000.0	6,999.1	136.4	1.5	-88.45	-2,923.9	557.4	4,327.3	4,190.3	136.98	31.592	
14,173.2	7,027.2	7,000.0	6,999.1	137.8	1.5	-88.45	-2,923.9	557.4	4,396.1	4,257.7	138.37	31.770	
14,200.0	7,027.1	7,000.0	6,999.1	138.3	1.5	-88.45	-2,923.9	557.4	4,421.3	4,282.4	138.88	31.835	
14,210.5	7,027.0	7,000.0	6,999.1	138.5	1.5	-88.45	-2,923.9	557.4	4,431.2	4,292.1	139.08	31.860	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 21-6I - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 644-MWD												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	7,056.6	7,117.1	7,022.4	51.1	22.2	-89.68	-3,678.8	1,124.2	2,436.4	2,367.2	69.18	35.218	
9,547.2	7,056.3	7,117.6	7,022.9	52.0	22.2	-89.69	-3,678.9	1,124.2	2,411.7	2,341.7	70.04	34.434	
9,600.0	7,056.0	7,118.2	7,023.5	52.9	22.2	-89.71	-3,678.9	1,124.2	2,384.9	2,313.9	71.00	33.591	
9,645.6	7,055.7	7,118.7	7,024.0	53.7	22.2	-89.72	-3,678.9	1,124.2	2,362.4	2,290.6	71.83	32.889	
9,700.0	7,055.4	7,119.3	7,024.6	54.6	22.2	-89.74	-3,678.9	1,124.2	2,336.5	2,263.7	72.82	32.085	
9,744.1	7,055.1	7,119.8	7,025.1	55.4	22.2	-89.75	-3,678.9	1,124.2	2,316.2	2,242.6	73.63	31.458	
9,800.0	7,054.7	7,120.4	7,025.7	56.4	22.2	-89.77	-3,678.9	1,124.2	2,291.5	2,216.8	74.65	30.695	
9,842.5	7,054.5	7,120.9	7,026.2	57.2	22.2	-89.78	-3,678.9	1,124.2	2,273.4	2,197.9	75.43	30.138	
9,900.0	7,054.1	7,121.5	7,026.8	58.2	22.2	-89.80	-3,678.9	1,124.2	2,250.0	2,173.5	76.49	29.415	
9,940.9	7,053.8	7,121.9	7,027.3	58.9	22.2	-89.81	-3,678.9	1,124.2	2,234.0	2,156.8	77.24	28.922	
10,000.0	7,053.5	7,122.6	7,027.9	60.0	22.2	-89.83	-3,678.9	1,124.2	2,212.2	2,133.9	78.33	28.242	
10,039.3	7,053.2	7,123.0	7,028.3	60.7	22.2	-89.84	-3,678.9	1,124.2	2,198.4	2,119.3	79.06	27.807	
10,100.0	7,052.8	7,123.6	7,029.0	61.8	22.2	-89.86	-3,679.0	1,124.2	2,178.4	2,098.2	80.18	27.169	
10,137.8	7,052.6	7,124.0	7,029.4	62.4	22.2	-89.87	-3,679.0	1,124.2	2,166.7	2,085.8	80.88	26.789	
10,200.0	7,052.2	7,124.7	7,030.0	63.6	22.2	-89.89	-3,679.0	1,124.2	2,148.7	2,066.6	82.03	26.194	
10,236.2	7,052.0	7,125.1	7,030.4	64.2	22.2	-89.90	-3,679.0	1,124.2	2,139.0	2,056.3	82.70	25.864	
10,300.0	7,051.6	7,125.7	7,031.1	65.4	22.2	-89.92	-3,679.0	1,124.2	2,123.3	2,039.4	83.89	25.312	
10,334.6	7,051.4	7,126.1	7,031.4	66.0	22.2	-89.93	-3,679.0	1,124.2	2,115.5	2,031.0	84.53	25.027	
10,400.0	7,051.0	7,126.8	7,032.1	67.2	22.2	-89.95	-3,679.0	1,124.2	2,102.3	2,016.6	85.75	24.518	
10,433.0	7,050.7	7,127.1	7,032.4	67.8	22.2	-89.96	-3,679.0	1,124.2	2,096.4	2,010.1	86.36	24.275	
10,500.0	7,050.3	7,127.8	7,033.1	69.0	22.2	-89.98	-3,679.0	1,124.2	2,086.0	1,998.4	87.61	23.810	
10,531.5	7,050.1	7,128.1	7,033.4	69.6	22.2	-89.98	-3,679.0	1,124.2	2,081.8	1,993.6	88.20	23.604	
10,600.0	7,049.7	7,128.8	7,034.1	70.8	22.2	-90.00	-3,679.0	1,124.2	2,074.3	1,984.9	89.47	23.183	
10,629.9	7,049.5	7,129.1	7,034.4	71.4	22.2	-90.01	-3,679.1	1,124.2	2,071.8	1,981.7	90.03	23.011	
10,700.0	7,049.1	7,129.8	7,035.1	72.7	22.2	-90.03	-3,679.1	1,124.2	2,067.5	1,976.1	91.34	22.634	
10,728.3	7,048.9	7,130.1	7,035.4	73.2	22.2	-90.04	-3,679.1	1,124.2	2,066.4	1,974.5	91.87	22.491	
10,792.5	7,048.5	7,130.7	7,036.1	74.4	22.2	-90.06	-3,679.1	1,124.2	2,065.4	1,972.3	93.08	22.191 CC	
10,800.0	7,048.4	7,130.8	7,036.1	74.5	22.2	-90.06	-3,679.1	1,124.2	2,065.4	1,972.2	93.22	22.157	
10,826.7	7,048.3	7,131.1	7,036.4	75.0	22.2	-90.07	-3,679.1	1,124.2	2,065.7	1,972.0	93.72	22.042 ES	
10,900.0	7,047.8	7,131.8	7,037.1	76.3	22.2	-90.09	-3,679.1	1,124.2	2,068.2	1,973.1	95.09	21.750	
10,925.2	7,047.7	7,132.0	7,037.4	76.8	22.2	-90.09	-3,679.1	1,124.2	2,069.6	1,974.1	95.56	21.657	
11,000.0	7,047.2	7,132.8	7,038.1	78.2	22.2	-90.11	-3,679.1	1,124.2	2,075.8	1,978.8	96.97	21.407	
11,023.6	7,047.0	7,133.0	7,038.3	78.6	22.2	-90.12	-3,679.1	1,124.2	2,078.3	1,980.9	97.41	21.335	
11,100.0	7,046.6	7,133.7	7,039.1	80.0	22.2	-90.14	-3,679.1	1,124.2	2,088.1	1,989.3	98.85	21.125	
11,122.0	7,046.4	7,133.9	7,039.3	80.4	22.2	-90.15	-3,679.1	1,124.2	2,091.5	1,992.2	99.26	21.071	
11,200.0	7,045.9	7,134.7	7,040.0	81.9	22.2	-90.17	-3,679.1	1,124.2	2,105.2	2,004.5	100.73	20.900	
11,220.4	7,045.8	7,134.9	7,040.2	82.3	22.2	-90.17	-3,679.2	1,124.2	2,109.3	2,008.1	101.11	20.861	
11,300.0	7,045.3	7,135.6	7,041.0	83.7	22.2	-90.19	-3,679.2	1,124.2	2,126.8	2,024.2	102.61	20.727	
11,318.9	7,045.2	7,135.8	7,041.2	84.1	22.2	-90.20	-3,679.2	1,124.2	2,131.4	2,028.4	102.96	20.700	
11,400.0	7,044.7	7,136.6	7,041.9	85.6	22.2	-90.22	-3,679.2	1,124.2	2,152.9	2,048.4	104.49	20.603	
11,417.3	7,044.6	7,136.7	7,042.1	85.9	22.2	-90.22	-3,679.2	1,124.2	2,157.8	2,053.0	104.82	20.586	
11,500.0	7,044.0	7,137.5	7,042.8	87.5	22.2	-90.25	-3,679.2	1,124.2	2,183.2	2,076.8	106.38	20.523	
11,515.7	7,043.9	7,137.7	7,043.0	87.7	22.2	-90.25	-3,679.2	1,124.2	2,188.3	2,081.7	106.68	20.514	
11,600.0	7,043.4	7,138.4	7,043.8	89.3	22.2	-90.27	-3,679.2	1,124.2	2,217.6	2,109.4	108.27	20.483	
11,614.1	7,043.3	7,138.6	7,043.9	89.6	22.2	-90.28	-3,679.2	1,124.2	2,222.8	2,114.3	108.53	20.480	
11,700.0	7,042.8	7,139.4	7,044.7	91.2	22.2	-90.30	-3,679.2	1,124.2	2,256.0	2,145.8	110.16	20.480 SF	
11,712.6	7,042.7	7,139.5	7,044.8	91.4	22.2	-90.30	-3,679.2	1,124.2	2,261.0	2,150.6	110.39	20.482	
11,800.0	7,042.2	7,140.3	7,045.6	93.0	22.2	-90.32	-3,679.2	1,124.2	2,298.0	2,186.0	112.05	20.510	
11,811.0	7,042.1	7,140.4	7,045.7	93.2	22.2	-90.32	-3,679.2	1,124.2	2,302.8	2,190.6	112.25	20.515	
11,900.0	7,041.5	7,141.2	7,046.5	94.9	22.2	-90.35	-3,679.3	1,124.2	2,343.6	2,229.6	113.94	20.569	
11,909.4	7,041.5	7,141.2	7,046.6	95.1	22.2	-90.35	-3,679.3	1,124.2	2,348.0	2,233.9	114.12	20.576	
12,000.0	7,040.9	7,142.1	7,047.4	96.8	22.2	-90.37	-3,679.3	1,124.2	2,392.4	2,276.6	115.83	20.655	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
12,007.8	7,040.8	7,142.1	7,047.5	96.9	22.2	-90.37	-3,679.3	1,124.2	2,396.4	2,280.4	115.98	20.663	
12,100.0	7,040.3	7,142.9	7,048.3	98.7	22.2	-90.40	-3,679.3	1,124.2	2,444.4	2,326.7	117.72	20.764	
12,106.3	7,040.2	7,143.0	7,048.3	98.8	22.2	-90.40	-3,679.3	1,124.2	2,447.8	2,330.0	117.84	20.772	
12,200.0	7,039.6	7,143.8	7,049.2	100.5	22.2	-90.42	-3,679.3	1,124.2	2,499.3	2,379.7	119.62	20.894	
12,204.7	7,039.6	7,143.9	7,049.2	100.6	22.2	-90.42	-3,679.3	1,124.2	2,502.0	2,382.3	119.71	20.901	
12,300.0	7,039.0	7,144.7	7,050.0	102.4	22.2	-90.44	-3,679.3	1,124.2	2,557.0	2,435.5	121.51	21.043	
12,303.1	7,039.0	7,144.7	7,050.0	102.5	22.2	-90.45	-3,679.3	1,124.2	2,558.8	2,437.3	121.57	21.048	
12,400.0	7,038.4	7,145.5	7,050.9	104.3	22.2	-90.47	-3,679.3	1,124.2	2,617.2	2,493.8	123.41	21.207	
12,401.5	7,038.4	7,145.6	7,050.9	104.3	22.2	-90.47	-3,679.3	1,124.2	2,618.1	2,494.7	123.44	21.210	
12,500.0	7,037.8	7,146.4	7,051.7	106.2	22.2	-90.49	-3,679.3	1,124.2	2,679.8	2,554.5	125.31	21.386	
12,598.4	7,037.1	7,147.2	7,052.6	108.0	22.2	-90.52	-3,679.4	1,124.2	2,743.5	2,616.3	127.17	21.573	
12,600.0	7,037.1	7,147.2	7,052.6	108.0	22.2	-90.52	-3,679.4	1,124.2	2,744.6	2,617.4	127.21	21.576	
12,696.8	7,036.5	7,148.1	7,053.4	109.9	22.2	-90.54	-3,679.4	1,124.2	2,809.3	2,680.2	129.04	21.770	
12,700.0	7,036.5	7,148.1	7,053.4	109.9	22.2	-90.54	-3,679.4	1,124.2	2,811.4	2,682.3	129.10	21.776	
12,795.2	7,035.9	7,148.9	7,054.2	111.7	22.2	-90.56	-3,679.4	1,124.2	2,876.9	2,746.0	130.91	21.976	
12,800.0	7,035.9	7,148.9	7,054.2	111.8	22.2	-90.56	-3,679.4	1,124.2	2,880.2	2,749.2	131.00	21.986	
12,893.7	7,035.3	7,157.0	7,062.3	113.6	22.3	-90.79	-3,679.5	1,124.2	2,946.3	2,813.5	132.80	22.186	
12,900.0	7,035.2	7,157.0	7,062.3	113.7	22.3	-90.79	-3,679.5	1,124.2	2,950.8	2,817.9	132.92	22.200	
12,992.1	7,034.7	7,157.0	7,062.3	115.4	22.3	-90.79	-3,679.5	1,124.2	3,017.2	2,882.6	134.67	22.405	
13,000.0	7,034.6	7,157.0	7,062.3	115.6	22.3	-90.79	-3,679.5	1,124.2	3,023.0	2,888.2	134.82	22.423	
13,090.5	7,034.0	7,157.0	7,062.3	117.3	22.3	-90.79	-3,679.5	1,124.2	3,089.7	2,953.2	136.54	22.629	
13,100.0	7,034.0	7,157.0	7,062.3	117.5	22.3	-90.79	-3,679.5	1,124.2	3,096.8	2,960.1	136.72	22.651	
13,188.9	7,033.4	7,157.0	7,062.3	119.1	22.3	-90.79	-3,679.5	1,124.2	3,163.6	3,025.2	138.41	22.857	
13,200.0	7,033.4	7,157.0	7,062.3	119.3	22.3	-90.79	-3,679.5	1,124.2	3,172.0	3,033.4	138.62	22.883	
13,287.4	7,032.8	7,157.0	7,062.3	121.0	22.3	-90.79	-3,679.5	1,124.2	3,238.8	3,098.5	140.28	23.088	
13,300.0	7,032.7	7,157.0	7,062.3	121.2	22.3	-90.79	-3,679.5	1,124.2	3,248.5	3,108.0	140.52	23.118	
13,385.8	7,032.2	7,157.0	7,062.3	122.9	22.3	-90.79	-3,679.5	1,124.2	3,315.2	3,173.1	142.15	23.322	
13,400.0	7,032.1	7,157.0	7,062.3	123.1	22.3	-90.79	-3,679.5	1,124.2	3,326.3	3,183.9	142.42	23.356	
13,484.2	7,031.6	7,157.0	7,062.3	124.7	22.3	-90.79	-3,679.5	1,124.2	3,392.7	3,248.7	144.02	23.557	
13,500.0	7,031.5	7,157.0	7,062.3	125.0	22.3	-90.79	-3,679.5	1,124.2	3,405.3	3,260.9	144.32	23.595	
13,582.6	7,030.9	7,157.0	7,062.3	126.6	22.3	-90.79	-3,679.5	1,124.2	3,471.3	3,325.4	145.90	23.793	
13,600.0	7,030.8	7,157.0	7,062.3	126.9	22.3	-90.79	-3,679.5	1,124.2	3,485.3	3,339.1	146.23	23.835	
13,681.1	7,030.3	7,157.0	7,062.3	128.4	22.3	-90.79	-3,679.5	1,124.2	3,550.9	3,403.2	147.77	24.030	
13,700.0	7,030.2	7,157.0	7,062.3	128.8	22.3	-90.79	-3,679.5	1,124.2	3,566.3	3,418.2	148.13	24.076	
13,779.5	7,029.7	7,157.0	7,062.3	130.3	22.3	-90.79	-3,679.5	1,124.2	3,631.4	3,481.8	149.64	24.267	
13,800.0	7,029.6	7,157.0	7,062.3	130.7	22.3	-90.79	-3,679.5	1,124.2	3,648.3	3,498.3	150.03	24.317	
13,877.9	7,029.1	7,157.0	7,062.3	132.2	22.3	-90.79	-3,679.5	1,124.2	3,712.8	3,561.3	151.52	24.504	
13,900.0	7,029.0	7,157.0	7,062.3	132.6	22.3	-90.79	-3,679.5	1,124.2	3,731.2	3,579.2	151.94	24.557	
13,976.3	7,028.5	7,157.0	7,062.3	134.0	22.3	-90.79	-3,679.5	1,124.2	3,795.0	3,641.6	153.39	24.741	
14,000.0	7,028.3	7,157.0	7,062.3	134.5	22.3	-90.79	-3,679.5	1,124.2	3,814.9	3,661.0	153.84	24.797	
14,074.8	7,027.9	7,157.0	7,062.3	135.9	22.3	-90.79	-3,679.5	1,124.2	3,877.9	3,722.7	155.27	24.976	
14,100.0	7,027.7	7,157.0	7,062.3	136.4	22.3	-90.79	-3,679.5	1,124.2	3,899.3	3,743.6	155.75	25.036	
14,173.2	7,027.2	7,157.0	7,062.3	137.8	22.3	-90.79	-3,679.5	1,124.2	3,961.6	3,804.4	157.14	25.210	
14,200.0	7,027.1	7,157.0	7,062.3	138.3	22.3	-90.79	-3,679.5	1,124.2	3,984.5	3,826.8	157.65	25.274	
14,210.5	7,027.0	7,157.0	7,062.3	138.5	22.3	-90.79	-3,679.5	1,124.2	3,993.5	3,835.6	157.85	25.299	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
0.0	0.0	0.0	0.0	0.0	0.0	173.14	-4,240.5	510.3	4,271.2				
98.4	98.4	79.6	79.6	0.1	0.1	173.14	-4,240.5	510.1	4,271.1	4,271.0	0.15	N/A	
100.0	100.0	81.2	81.2	0.1	0.1	173.14	-4,240.5	510.1	4,271.1	4,271.0	0.15	N/A	
196.8	196.8	199.6	199.6	0.3	0.2	173.15	-4,240.3	509.5	4,270.9	4,270.4	0.51	8,305.313	
200.0	200.0	200.0	200.0	0.3	0.2	173.15	-4,240.3	509.5	4,270.9	4,270.3	0.52	8,183.579	
286.0	286.0	265.5	265.5	0.5	0.2	173.15	-4,240.2	509.2	4,270.6	4,269.9	0.75	5,670.447	
295.3	295.3	272.4	272.3	0.5	0.2	173.15	-4,240.2	509.2	4,270.6	4,269.8	0.78	5,490.292	
300.0	300.0	275.8	275.8	0.5	0.2	173.15	-4,240.2	509.1	4,270.6	4,269.8	0.79	5,402.543	
393.7	393.7	356.7	356.7	0.8	0.3	173.16	-4,240.4	508.8	4,270.9	4,269.8	1.04	4,089.446	
400.0	400.0	362.6	362.6	0.8	0.3	173.16	-4,240.5	508.8	4,270.9	4,269.9	1.06	4,023.704	
492.1	492.1	479.4	479.4	1.0	0.3	173.16	-4,240.7	508.9	4,271.2	4,269.9	1.29	3,303.560	
500.0	500.0	491.5	491.5	1.0	0.3	173.16	-4,240.7	508.9	4,271.1	4,269.8	1.31	3,256.951	
590.5	590.5	591.4	591.4	1.2	0.4	173.16	-4,240.3	508.8	4,270.8	4,269.2	1.55	2,748.308	
600.0	600.0	600.0	600.0	1.2	0.4	173.16	-4,240.3	508.7	4,270.7	4,269.1	1.58	2,705.319	
689.0	689.0	678.2	678.2	1.4	0.4	173.16	-4,240.0	508.2	4,270.4	4,268.6	1.82	2,344.072	
700.0	700.0	687.8	687.8	1.4	0.4	173.17	-4,240.0	508.1	4,270.4	4,268.5	1.85	2,306.047	
749.3	749.3	728.8	728.8	1.6	0.4	173.17	-4,240.0	507.8	4,270.3	4,268.3	1.98	2,153.587	
787.4	787.4	760.0	760.0	1.6	0.4	173.17	-4,240.1	507.6	4,270.3	4,268.3	2.08	2,049.971	
800.0	800.0	770.4	770.4	1.7	0.4	173.17	-4,240.1	507.5	4,270.4	4,268.3	2.12	2,017.872	
885.8	885.8	863.2	863.2	1.9	0.5	173.18	-4,240.3	507.3	4,270.6	4,268.3	2.32	1,838.372	
900.0	900.0	881.3	881.2	1.9	0.5	173.18	-4,240.3	507.3	4,270.6	4,268.2	2.35	1,813.500	
984.2	984.2	990.2	990.2	2.1	0.5	173.18	-4,240.0	507.3	4,270.3	4,267.7	2.57	1,662.485	
1,000.0	1,000.0	1,007.4	1,007.4	2.1	0.5	173.18	-4,239.9	507.3	4,270.2	4,267.6	2.61	1,636.361	
1,082.7	1,082.7	1,082.0	1,082.0	2.3	0.5	173.18	-4,239.5	506.9	4,269.7	4,266.9	2.82	1,511.507	
1,100.0	1,100.0	1,100.0	1,100.0	2.3	0.5	173.18	-4,239.4	506.8	4,269.7	4,266.8	2.87	1,487.260	
1,123.5	1,123.5	1,116.5	1,116.5	2.4	0.5	-112.65	-4,239.4	506.6	4,269.6	4,266.7	2.92	1,460.563	
1,181.1	1,181.1	1,162.0	1,162.0	2.5	0.6	-112.65	-4,239.3	506.3	4,269.9	4,266.9	3.06	1,394.009	
1,200.0	1,200.0	1,177.0	1,176.9	2.6	0.6	-112.65	-4,239.4	506.2	4,270.2	4,267.0	3.11	1,373.470	
1,279.5	1,279.4	1,263.3	1,263.3	2.7	0.6	-112.67	-4,239.5	506.0	4,271.7	4,268.4	3.29	1,298.957	
1,300.0	1,299.8	1,289.0	1,289.0	2.8	0.6	-112.68	-4,239.4	506.0	4,272.2	4,268.9	3.33	1,281.725	
1,377.9	1,377.5	1,379.3	1,379.2	2.9	0.6	-112.73	-4,239.1	505.8	4,274.4	4,270.9	3.53	1,212.520	
1,400.0	1,399.5	1,400.0	1,400.0	3.0	0.6	-112.74	-4,239.0	505.7	4,275.2	4,271.6	3.58	1,194.548	
1,476.4	1,475.3	1,465.2	1,465.2	3.2	0.6	-112.77	-4,238.8	505.2	4,278.3	4,274.6	3.79	1,128.514	
1,500.0	1,498.7	1,484.3	1,484.3	3.2	0.6	-112.78	-4,238.7	505.2	4,279.5	4,275.7	3.86	1,109.741	
1,574.8	1,572.6	1,597.3	1,597.3	3.4	0.7	-112.92	-4,238.2	505.0	4,283.7	4,279.6	4.09	1,047.261	
1,600.0	1,597.5	1,621.7	1,621.7	3.5	0.7	-112.94	-4,237.9	504.9	4,285.1	4,280.9	4.17	1,028.472	
1,673.2	1,669.4	1,688.7	1,688.6	3.7	0.7	-113.01	-4,237.3	504.5	4,289.8	4,285.3	4.41	972.219	
1,700.2	1,695.8	1,711.2	1,711.2	3.8	0.7	-113.03	-4,237.2	504.3	4,291.7	4,287.2	4.50	953.144	
1,771.6	1,765.7	1,766.2	1,766.2	4.1	0.7	-113.16	-4,236.8	503.9	4,297.2	4,292.4	4.76	902.569	
1,800.0	1,793.4	1,788.0	1,788.0	4.2	0.7	-113.22	-4,236.8	503.8	4,299.4	4,294.5	4.86	884.079	
1,870.1	1,862.0	1,884.0	1,884.0	4.4	0.8	-113.46	-4,236.2	504.0	4,304.9	4,299.7	5.14	837.300	
1,900.0	1,891.2	1,914.2	1,914.1	4.5	0.8	-113.54	-4,235.8	504.1	4,307.1	4,301.8	5.26	819.397	
1,968.5	1,958.3	1,963.9	1,963.9	4.8	0.8	-113.67	-4,235.4	504.3	4,312.3	4,306.8	5.52	780.823	
2,000.0	1,989.1	1,986.8	1,986.8	4.9	0.8	-113.73	-4,235.3	504.4	4,314.9	4,309.2	5.65	764.338	
2,066.9	2,054.5	2,041.7	2,041.7	5.2	0.8	-113.88	-4,235.1	504.7	4,320.4	4,314.5	5.91	730.582	
2,100.0	2,086.9	2,070.0	2,070.0	5.3	0.8	-113.95	-4,235.0	504.9	4,323.2	4,317.1	6.05	715.030	
2,165.3	2,150.8	2,150.2	2,150.2	5.6	0.8	-114.17	-4,234.7	505.8	4,328.7	4,322.4	6.32	685.150	
2,200.0	2,184.7	2,200.0	2,199.9	5.7	0.9	-114.30	-4,234.3	506.3	4,331.5	4,325.0	6.46	670.242	
2,263.8	2,247.1	2,245.6	2,245.6	6.0	0.9	-114.42	-4,233.9	506.8	4,336.6	4,329.9	6.72	645.139	
2,300.0	2,282.5	2,269.8	2,269.7	6.1	0.9	-114.48	-4,233.8	507.0	4,339.7	4,332.8	6.87	631.793	
2,362.2	2,343.3	2,325.1	2,325.1	6.4	0.9	-114.63	-4,233.8	507.4	4,345.2	4,338.1	7.13	609.626	
2,400.0	2,380.3	2,381.3	2,381.2	6.6	0.9	-114.77	-4,233.5	507.9	4,348.4	4,341.1	7.29	596.534	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 22-18 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,460.6	2,439.6	2,442.2	2,442.2	6.8	0.9	-114.94	-4,233.0	508.5	4,353.5	4,345.9	7.55	576.872	
2,500.0	2,478.1	2,476.9	2,476.9	7.0	0.9	-115.02	-4,232.8	508.7	4,356.8	4,349.1	7.71	564.887	
2,559.0	2,535.9	2,539.7	2,539.7	7.2	0.9	-115.18	-4,232.5	508.8	4,361.8	4,353.9	7.97	547.400	
2,600.0	2,575.9	2,589.2	2,589.1	7.4	0.9	-115.31	-4,232.2	509.0	4,365.3	4,357.1	8.15	535.767	
2,657.5	2,632.2	2,648.9	2,648.8	7.7	1.0	-115.46	-4,231.6	509.2	4,370.0	4,361.6	8.40	520.542	
2,700.0	2,673.8	2,691.8	2,691.7	7.8	1.0	-115.57	-4,231.3	509.1	4,373.5	4,364.9	8.58	509.901	
2,755.9	2,728.4	2,736.5	2,736.5	8.1	1.0	-115.67	-4,231.0	509.0	4,378.2	4,369.3	8.82	496.613	
2,800.0	2,771.6	2,770.2	2,770.1	8.3	1.0	-115.76	-4,230.8	508.9	4,382.0	4,373.0	9.00	486.668	
2,854.3	2,824.7	2,823.4	2,823.3	8.5	1.0	-115.89	-4,230.6	509.0	4,386.8	4,377.6	9.24	474.755	
2,900.0	2,869.4	2,893.2	2,893.2	8.7	1.0	-116.06	-4,230.0	509.1	4,390.7	4,381.3	9.45	464.832	
2,952.7	2,921.0	2,933.3	2,933.2	8.9	1.0	-116.16	-4,229.7	509.1	4,395.1	4,385.5	9.67	454.467	
3,000.0	2,967.2	2,965.9	2,965.8	9.2	1.0	-116.24	-4,229.5	509.1	4,399.3	4,389.4	9.87	445.654	
3,051.2	3,017.3	3,001.9	3,001.8	9.4	1.1	-116.33	-4,229.4	509.0	4,403.9	4,393.8	10.09	436.485	
3,100.0	3,065.0	3,058.2	3,058.1	9.6	1.1	-116.47	-4,229.3	509.0	4,408.4	4,398.1	10.30	428.079	
3,149.6	3,113.5	3,114.8	3,114.7	9.8	1.1	-116.61	-4,229.0	509.1	4,412.9	4,402.4	10.51	419.820	
3,200.0	3,162.8	3,171.0	3,170.9	10.0	1.1	-116.74	-4,228.7	509.1	4,417.4	4,406.7	10.73	411.664	
3,248.0	3,209.8	3,215.2	3,215.1	10.3	1.1	-116.85	-4,228.4	508.9	4,421.7	4,410.7	10.94	404.280	
3,300.0	3,260.6	3,251.1	3,251.0	10.5	1.1	-116.93	-4,228.3	508.7	4,426.4	4,415.3	11.16	396.742	
3,346.4	3,306.1	3,283.2	3,283.1	10.7	1.1	-117.01	-4,228.3	508.5	4,430.8	4,419.5	11.35	390.254	
3,400.0	3,358.4	3,338.0	3,337.9	10.9	1.1	-117.14	-4,228.4	508.4	4,436.0	4,424.5	11.58	383.088	
3,444.9	3,402.3	3,396.5	3,396.4	11.1	1.1	-117.28	-4,228.3	508.3	4,440.3	4,428.5	11.77	377.295	
3,500.0	3,456.3	3,444.3	3,444.2	11.4	1.1	-117.39	-4,228.2	508.2	4,445.5	4,433.5	12.00	370.358	
3,543.3	3,498.6	3,481.0	3,480.9	11.6	1.1	-117.47	-4,228.2	507.9	4,449.7	4,437.5	12.19	365.091	
3,600.0	3,554.1	3,541.4	3,541.3	11.8	1.1	-117.61	-4,228.3	507.4	4,455.2	4,442.8	12.43	358.349	
3,641.7	3,594.9	3,591.8	3,591.7	12.0	1.2	-117.73	-4,228.2	507.1	4,459.2	4,446.6	12.61	353.505	
3,700.0	3,651.9	3,666.7	3,666.6	12.3	1.2	-117.90	-4,227.9	506.5	4,464.6	4,451.7	12.87	346.855	
3,740.1	3,691.2	3,713.2	3,713.1	12.5	1.2	-118.00	-4,227.6	505.8	4,468.2	4,455.1	13.05	342.426	
3,800.0	3,749.7	3,767.6	3,767.5	12.7	1.2	-118.12	-4,227.3	505.1	4,473.6	4,460.3	13.31	336.110	
3,838.6	3,787.4	3,800.0	3,799.9	12.9	1.2	-118.19	-4,227.1	504.8	4,477.1	4,463.7	13.48	332.183	
3,900.0	3,847.5	3,859.0	3,858.9	13.2	1.2	-118.33	-4,226.8	504.2	4,482.8	4,469.1	13.75	326.117	
3,937.0	3,883.7	3,893.1	3,893.0	13.3	1.2	-118.40	-4,226.6	503.7	4,486.3	4,472.4	13.91	322.581	
4,000.0	3,945.3	3,955.6	3,955.4	13.6	1.3	-118.54	-4,226.4	502.8	4,492.2	4,478.0	14.18	316.745	
4,035.4	3,980.0	3,991.0	3,990.8	13.8	1.3	-118.62	-4,226.2	502.5	4,495.5	4,481.2	14.34	313.564	
4,100.0	4,043.1	4,072.2	4,072.0	14.1	1.3	-118.80	-4,225.7	501.8	4,501.5	4,486.9	14.62	307.850	
4,133.8	4,076.3	4,100.0	4,099.9	14.2	1.3	-118.86	-4,225.4	501.4	4,504.6	4,489.8	14.77	304.988	
4,200.0	4,141.0	4,143.8	4,143.7	14.5	1.3	-118.95	-4,225.2	500.7	4,510.8	4,495.7	15.05	299.684	
4,232.3	4,172.5	4,161.8	4,161.7	14.7	1.3	-118.99	-4,225.2	500.4	4,514.0	4,498.8	15.19	297.185	
4,300.0	4,238.8	4,200.0	4,199.8	15.0	1.3	-119.07	-4,225.4	499.7	4,521.0	4,505.5	15.48	292.110	
4,330.7	4,268.8	4,238.2	4,238.0	15.1	1.3	-119.15	-4,225.7	499.2	4,524.3	4,508.7	15.61	289.840	
4,400.0	4,336.6	4,330.3	4,330.1	15.4	1.4	-119.35	-4,225.9	498.2	4,531.4	4,515.5	15.91	284.866	
4,429.1	4,365.1	4,372.7	4,372.5	15.6	1.4	-119.44	-4,225.8	497.7	4,534.3	4,518.3	16.03	282.816	
4,500.0	4,434.4	4,452.5	4,452.3	15.9	1.4	-119.61	-4,225.5	496.5	4,541.1	4,524.8	16.34	277.951	
4,527.5	4,461.3	4,480.3	4,480.1	16.0	1.4	-119.67	-4,225.4	496.0	4,543.8	4,527.3	16.46	276.103	
4,600.0	4,532.2	4,551.8	4,551.6	16.4	1.4	-119.82	-4,225.0	494.7	4,550.7	4,534.0	16.77	271.370	
4,626.0	4,557.6	4,577.3	4,577.1	16.5	1.4	-119.87	-4,224.9	494.3	4,553.2	4,536.3	16.88	269.716	
4,700.0	4,630.0	4,640.7	4,640.5	16.8	1.4	-120.00	-4,224.7	493.1	4,560.4	4,543.2	17.20	265.156	
4,724.4	4,653.9	4,660.2	4,660.0	16.9	1.4	-120.05	-4,224.7	492.7	4,562.9	4,545.6	17.30	263.696	
4,800.0	4,727.8	4,723.3	4,723.1	17.3	1.5	-120.17	-4,224.7	491.5	4,570.5	4,552.9	17.63	259.298	
4,822.8	4,750.2	4,743.8	4,743.6	17.4	1.5	-120.22	-4,224.7	491.2	4,572.9	4,555.2	17.72	258.004	
4,900.0	4,825.6	4,828.8	4,828.6	17.7	1.5	-120.40	-4,224.7	490.5	4,580.9	4,562.9	18.05	253.771	
4,921.2	4,846.4	4,870.7	4,870.5	17.8	1.5	-120.50	-4,224.3	490.5	4,583.0	4,564.9	18.14	252.665	
5,000.0	4,923.5	4,954.1	4,953.9	18.2	1.5	-120.69	-4,223.2	491.1	4,590.6	4,572.1	18.47	248.523	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,019.7	4,942.7	4,970.8	4,970.6	18.3	1.5	-120.73	-4,223.0	491.1	4,592.5	4,573.9	18.56	247.504	
5,100.0	5,021.3	5,065.7	5,065.4	18.6	1.5	-120.94	-4,222.0	490.7	4,600.3	4,581.4	18.90	243.351	
5,118.1	5,039.0	5,091.5	5,091.3	18.7	1.5	-121.00	-4,221.6	490.6	4,602.0	4,583.0	18.98	242.420	
5,200.0	5,119.1	5,195.0	5,194.7	19.1	1.6	-121.23	-4,219.8	490.0	4,609.4	4,590.0	19.34	238.328	
5,216.5	5,135.3	5,210.3	5,210.0	19.2	1.6	-121.26	-4,219.5	489.8	4,610.8	4,591.4	19.41	237.525	
5,300.0	5,216.9	5,278.9	5,278.6	19.6	1.6	-121.41	-4,218.3	489.2	4,618.4	4,598.6	19.77	233.585	
5,314.9	5,231.5	5,291.2	5,290.9	19.6	1.6	-121.44	-4,218.1	489.1	4,619.8	4,599.9	19.84	232.897	
5,400.0	5,314.7	5,351.4	5,351.1	20.0	1.6	-121.57	-4,217.2	488.8	4,627.9	4,607.7	20.20	229.102	
5,413.4	5,327.8	5,360.7	5,360.4	20.1	1.6	-121.59	-4,217.1	488.8	4,629.2	4,609.0	20.26	228.521	
5,500.0	5,412.5	5,430.7	5,430.4	20.5	1.6	-121.75	-4,216.4	489.0	4,638.0	4,617.4	20.63	224.841	
5,511.8	5,424.1	5,442.9	5,442.6	20.5	1.7	-121.78	-4,216.3	489.0	4,639.2	4,618.6	20.68	224.348	
5,600.0	5,510.3	5,527.1	5,526.8	20.9	1.7	-121.97	-4,215.4	489.4	4,648.3	4,627.2	21.06	220.755	
5,610.2	5,520.3	5,535.4	5,535.1	21.0	1.7	-121.99	-4,215.4	489.4	4,649.4	4,628.3	21.10	220.350	
5,700.0	5,608.2	5,600.0	5,599.7	21.4	1.7	-122.13	-4,214.9	489.4	4,658.9	4,637.4	21.48	216.882	
5,708.6	5,616.6	5,600.0	5,599.7	21.4	1.7	-122.13	-4,214.9	489.4	4,659.9	4,638.3	21.52	216.564	
5,729.2	5,636.7	5,622.7	5,622.4	21.5	1.7	-122.18	-4,214.9	489.4	4,662.1	4,640.5	21.60	215.830	
5,800.0	5,706.1	5,662.7	5,662.4	21.8	1.7	-122.39	-4,214.9	489.6	4,669.7	4,647.9	21.81	214.075	
5,807.1	5,713.1	5,666.7	5,666.4	21.8	1.7	-122.41	-4,214.9	489.6	4,670.5	4,648.7	21.83	213.957	
5,900.0	5,804.7	5,745.4	5,745.1	22.1	1.7	-122.71	-4,215.4	490.6	4,679.6	4,657.6	22.03	212.426	
5,905.5	5,810.2	5,752.7	5,752.4	22.1	1.7	-122.73	-4,215.4	490.7	4,680.1	4,658.1	22.04	212.354	
6,000.0	5,903.9	5,852.5	5,852.2	22.3	1.7	-123.01	-4,215.5	492.4	4,687.5	4,665.3	22.21	211.028	
6,003.9	5,907.8	5,856.0	5,855.7	22.4	1.7	-123.02	-4,215.5	492.4	4,687.8	4,665.5	22.22	210.982	
6,100.0	6,003.4	5,940.4	5,940.1	22.6	1.7	-123.21	-4,215.9	493.5	4,693.6	4,671.2	22.37	209.817	
6,102.3	6,005.7	5,942.4	5,942.1	22.6	1.7	-123.22	-4,215.9	493.5	4,693.7	4,671.4	22.37	209.795	
6,200.0	6,103.2	6,100.0	6,099.7	22.7	1.7	-123.38	-4,216.7	494.1	4,697.9	4,675.4	22.49	208.842	
6,200.8	6,104.0	6,100.0	6,099.7	22.7	1.7	-123.38	-4,216.7	494.1	4,697.9	4,675.4	22.50	208.835	
6,299.2	6,202.3	6,189.5	6,189.2	22.9	1.7	-123.43	-4,216.6	493.8	4,699.1	4,676.5	22.62	207.762	
6,300.0	6,203.1	6,190.2	6,189.9	22.9	1.7	-123.43	-4,216.6	493.8	4,699.1	4,676.5	22.62	207.753	
6,329.4	6,232.5	6,214.4	6,214.0	22.9	1.7	162.40	-4,216.5	493.9	4,699.2	4,676.5	22.63	207.676	
6,338.3	6,241.4	6,221.3	6,220.9	22.9	1.7	162.40	-4,216.5	493.9	4,699.2	4,676.5	22.64	207.568	
6,397.6	6,300.8	6,267.2	6,266.9	23.0	1.7	162.40	-4,216.5	494.0	4,699.3	4,676.5	22.72	206.856	
6,400.0	6,303.1	6,269.1	6,268.7	23.0	1.7	162.40	-4,216.5	494.0	4,699.3	4,676.5	22.72	206.828	
6,449.4	6,352.5	6,311.7	6,311.4	23.1	1.7	162.40	-4,216.7	494.2	4,699.5	4,676.7	22.79	206.189	
6,496.0	6,399.2	6,369.7	6,369.4	23.1	1.7	-17.85	-4,216.7	494.7	4,698.2	4,675.3	22.83	205.778	
6,500.0	6,403.1	6,374.6	6,374.3	23.1	1.7	-17.86	-4,216.7	494.7	4,697.9	4,675.1	22.83	205.754	
6,550.0	6,452.8	6,421.6	6,421.3	23.1	1.7	-18.01	-4,216.6	495.2	4,693.0	4,670.1	22.85	205.391	
6,594.5	6,496.6	6,454.0	6,453.6	23.2	1.7	-18.21	-4,216.6	495.6	4,685.9	4,663.1	22.85	205.054	
6,600.0	6,502.0	6,458.0	6,457.6	23.2	1.7	-18.24	-4,216.6	495.6	4,684.9	4,662.0	22.85	205.023	
6,650.0	6,550.5	6,500.0	6,499.6	23.2	1.7	-18.58	-4,216.8	496.0	4,673.6	4,650.8	22.82	204.834	
6,692.9	6,591.4	6,500.0	6,499.6	23.2	1.7	-18.90	-4,216.8	496.0	4,661.6	4,638.9	22.74	205.014	
6,700.0	6,598.0	6,522.8	6,522.4	23.2	1.7	-19.00	-4,217.0	496.3	4,659.3	4,636.6	22.72	205.048	
6,750.0	6,644.4	6,549.8	6,549.4	23.2	1.7	-19.53	-4,217.2	496.6	4,642.1	4,619.6	22.57	205.713	
6,791.3	6,681.6	6,571.6	6,571.2	23.2	1.7	-20.05	-4,217.6	496.9	4,625.8	4,603.4	22.39	206.642	
6,800.0	6,689.3	6,576.1	6,575.7	23.2	1.7	-20.18	-4,217.6	496.9	4,622.1	4,599.8	22.34	206.895	
6,850.0	6,732.6	6,600.0	6,599.6	23.2	1.7	-20.96	-4,218.1	497.2	4,599.3	4,577.2	22.04	208.642	
6,889.7	6,765.7	6,630.2	6,629.8	23.2	1.7	-21.73	-4,218.7	497.7	4,579.2	4,557.4	21.77	210.389	
6,900.0	6,774.0	6,637.2	6,636.9	23.2	1.7	-21.94	-4,218.9	497.8	4,573.7	4,552.1	21.69	210.914	
6,950.0	6,813.3	6,670.6	6,670.2	23.2	1.7	-23.11	-4,219.6	498.4	4,545.6	4,524.3	21.27	213.714	
6,988.2	6,841.9	6,817.9	6,817.5	23.2	1.7	-24.76	-4,221.1	500.9	4,522.1	4,501.1	21.00	215.307	
7,000.0	6,850.5	6,824.6	6,824.1	23.2	1.7	-25.13	-4,221.1	500.9	4,514.4	4,493.5	20.89	216.119	
7,050.0	6,885.2	6,851.5	6,851.1	23.2	1.7	-26.91	-4,221.1	501.2	4,480.4	4,460.0	20.40	219.635	
7,086.6	6,908.9	6,870.1	6,869.6	23.2	1.7	-28.44	-4,221.1	501.4	4,454.1	4,434.1	20.04	222.247	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,400.0	7,057.2	7,019.2	7,018.8	49.4	1.7	-89.77	-4,221.5	502.6	2,417.3	2,368.4	48.87	49.462	
9,448.8	7,056.9	7,019.0	7,018.6	50.3	1.7	-89.76	-4,221.5	502.6	2,378.3	2,328.6	49.75	47.805	
9,500.0	7,056.6	7,018.9	7,018.4	51.1	1.7	-89.76	-4,221.5	502.6	2,337.9	2,287.2	50.67	46.135	
9,547.2	7,056.3	7,018.7	7,018.3	52.0	1.7	-89.75	-4,221.5	502.6	2,301.0	2,249.4	51.53	44.652	
9,600.0	7,056.0	7,018.6	7,018.1	52.9	1.7	-89.75	-4,221.5	502.6	2,260.1	2,207.7	52.49	43.061	
9,645.6	7,055.7	7,018.4	7,018.0	53.7	1.7	-89.74	-4,221.5	502.6	2,225.2	2,171.9	53.32	41.735	
9,700.0	7,055.4	7,018.3	7,017.8	54.6	1.7	-89.73	-4,221.5	502.6	2,184.2	2,129.9	54.31	40.220	
9,744.1	7,055.1	7,018.1	7,017.7	55.4	1.7	-89.73	-4,221.5	502.6	2,151.4	2,096.3	55.11	39.036	
9,800.0	7,054.7	7,017.9	7,017.5	56.4	1.7	-89.72	-4,221.5	502.6	2,110.3	2,054.2	56.13	37.594	
9,842.5	7,054.5	7,017.8	7,017.4	57.2	1.7	-89.71	-4,221.5	502.6	2,079.5	2,022.6	56.91	36.539	
9,900.0	7,054.1	7,017.6	7,017.2	58.2	1.7	-89.71	-4,221.5	502.6	2,038.6	1,980.6	57.97	35.168	
9,940.9	7,053.8	7,017.5	7,017.0	58.9	1.7	-89.70	-4,221.5	502.6	2,010.0	1,951.2	58.72	34.230	
10,000.0	7,053.5	7,017.3	7,016.8	60.0	1.7	-89.69	-4,221.5	502.6	1,969.4	1,909.6	59.81	32.930	
10,039.3	7,053.2	7,017.1	7,016.7	60.7	1.7	-89.69	-4,221.5	502.6	1,942.9	1,882.3	60.53	32.097	
10,100.0	7,052.8	7,016.9	7,016.5	61.8	1.7	-89.68	-4,221.5	502.6	1,902.9	1,841.2	61.65	30.867	
10,137.8	7,052.6	7,016.8	7,016.4	62.4	1.7	-89.68	-4,221.5	502.6	1,878.6	1,816.2	62.35	30.131	
10,200.0	7,052.2	7,016.6	7,016.1	63.6	1.7	-89.67	-4,221.5	502.6	1,839.4	1,776.0	63.50	28.969	
10,236.2	7,052.0	7,016.5	7,016.0	64.2	1.7	-89.66	-4,221.5	502.6	1,817.3	1,753.1	64.17	28.321	
10,300.0	7,051.6	7,016.2	7,015.8	65.4	1.7	-89.65	-4,221.4	502.6	1,779.4	1,714.0	65.35	27.228	
10,334.6	7,051.4	7,016.1	7,015.7	66.0	1.7	-89.65	-4,221.4	502.6	1,759.4	1,693.4	65.99	26.661	
10,400.0	7,051.0	7,015.9	7,015.4	67.2	1.7	-89.64	-4,221.4	502.6	1,723.0	1,655.8	67.21	25.638	
10,433.0	7,050.7	7,015.8	7,015.3	67.8	1.7	-89.63	-4,221.4	502.5	1,705.2	1,637.4	67.82	25.144	
10,500.0	7,050.3	7,015.5	7,015.1	69.0	1.7	-89.62	-4,221.4	502.5	1,670.7	1,601.6	69.06	24.190	
10,531.5	7,050.1	7,015.4	7,015.0	69.6	1.7	-89.62	-4,221.4	502.5	1,655.1	1,585.5	69.65	23.763	
10,600.0	7,049.7	7,015.1	7,014.7	70.8	1.7	-89.61	-4,221.4	502.5	1,622.9	1,552.0	70.93	22.881	
10,629.9	7,049.5	7,015.0	7,014.6	71.4	1.7	-89.60	-4,221.4	502.5	1,609.5	1,538.0	71.49	22.516	
10,700.0	7,049.1	7,014.8	7,014.3	72.7	1.7	-89.59	-4,221.4	502.5	1,580.0	1,507.2	72.79	21.705	
10,728.3	7,048.9	7,014.7	7,014.2	73.2	1.7	-89.59	-4,221.4	502.5	1,568.8	1,495.4	73.32	21.396	
10,800.0	7,048.4	7,014.4	7,013.9	74.5	1.7	-89.58	-4,221.4	502.5	1,542.4	1,467.7	74.66	20.658	
10,826.7	7,048.3	7,014.3	7,013.8	75.0	1.7	-89.57	-4,221.4	502.5	1,533.2	1,458.1	75.16	20.399	
10,900.0	7,047.8	7,014.0	7,013.5	76.3	1.7	-89.56	-4,221.4	502.5	1,510.4	1,433.9	76.53	19.736	
10,925.2	7,047.7	7,013.9	7,013.4	76.8	1.7	-89.56	-4,221.4	502.5	1,503.3	1,426.3	77.00	19.523	
11,000.0	7,047.2	7,013.6	7,013.1	78.2	1.7	-89.55	-4,221.4	502.5	1,484.6	1,406.2	78.41	18.935	
11,023.6	7,047.0	7,013.5	7,013.0	78.6	1.7	-89.54	-4,221.4	502.5	1,479.4	1,400.6	78.85	18.763	
11,100.0	7,046.6	7,013.2	7,012.7	80.0	1.7	-89.53	-4,221.4	502.5	1,465.1	1,384.8	80.28	18.250	
11,122.0	7,046.4	7,013.1	7,012.6	80.4	1.7	-89.53	-4,221.4	502.5	1,461.7	1,381.0	80.69	18.114	
11,200.0	7,045.9	7,012.7	7,012.3	81.9	1.7	-89.51	-4,221.4	502.5	1,452.3	1,370.1	82.16	17.676	
11,220.4	7,045.8	7,012.7	7,012.2	82.3	1.7	-89.51	-4,221.4	502.5	1,450.5	1,367.9	82.54	17.572	
11,300.0	7,045.3	7,012.3	7,011.9	83.7	1.7	-89.50	-4,221.4	502.5	1,446.2	1,362.2	84.04	17.210	
11,318.9	7,045.2	7,012.2	7,011.8	84.1	1.7	-89.49	-4,221.4	502.5	1,445.9	1,361.5	84.39	17.133	
11,337.2	7,045.1	7,012.1	7,011.7	84.4	1.7	-89.49	-4,221.4	502.5	1,445.8	1,361.0	84.74	17.062 CC, ES	
11,400.0	7,044.7	7,011.9	7,011.4	85.6	1.7	-89.48	-4,221.4	502.5	1,447.1	1,361.2	85.92	16.843	
11,417.3	7,044.6	7,011.8	7,011.4	85.9	1.7	-89.48	-4,221.4	502.5	1,448.0	1,361.7	86.24	16.789	
11,500.0	7,044.0	7,011.4	7,011.0	87.5	1.7	-89.46	-4,221.4	502.5	1,454.9	1,367.1	87.80	16.570	
11,515.7	7,043.9	7,011.4	7,010.9	87.7	1.7	-89.46	-4,221.4	502.5	1,456.7	1,368.6	88.10	16.536	
11,600.0	7,043.4	7,011.0	7,010.5	89.3	1.7	-89.44	-4,221.4	502.5	1,469.5	1,379.8	89.69	16.384	
11,614.1	7,043.3	7,010.9	7,010.5	89.6	1.7	-89.44	-4,221.4	502.5	1,472.0	1,382.1	89.95	16.365	
11,700.0	7,042.8	7,010.5	7,010.1	91.2	1.7	-89.43	-4,221.4	502.5	1,490.6	1,399.0	91.57	16.278	
11,712.6	7,042.7	7,010.4	7,010.0	91.4	1.7	-89.42	-4,221.4	502.5	1,493.7	1,401.9	91.81	16.270	
11,800.0	7,042.2	7,010.0	7,009.6	93.0	1.7	-89.41	-4,221.4	502.5	1,518.0	1,424.6	93.46	16.243 SF	
11,811.0	7,042.1	7,010.0	7,009.5	93.2	1.7	-89.40	-4,221.4	502.5	1,521.4	1,427.7	93.67	16.243	
11,900.0	7,041.5	7,009.5	7,009.1	94.9	1.7	-89.39	-4,221.4	502.5	1,551.4	1,456.1	95.35	16.272	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
11,909.4	7,041.5	7,009.5	7,009.0	95.1	1.7	-89.38	-4,221.4	502.5	1,554.9	1,459.4	95.52	16.277	
12,000.0	7,040.9	7,009.0	7,008.6	96.8	1.7	-89.37	-4,221.4	502.5	1,590.4	1,493.2	97.24	16.357	
12,007.8	7,040.8	7,009.0	7,008.6	96.9	1.7	-89.37	-4,221.4	502.5	1,593.7	1,496.3	97.38	16.365	
12,100.0	7,040.3	7,008.5	7,008.1	98.7	1.7	-89.35	-4,221.4	502.5	1,634.6	1,535.5	99.13	16.491	
12,106.3	7,040.2	7,008.5	7,008.1	98.8	1.7	-89.35	-4,221.4	502.5	1,637.6	1,538.3	99.24	16.500	
12,200.0	7,039.6	7,008.0	7,007.6	100.5	1.7	-89.33	-4,221.4	502.5	1,683.6	1,582.6	101.02	16.667	
12,204.7	7,039.6	7,008.0	7,007.5	100.6	1.7	-89.33	-4,221.4	502.5	1,686.0	1,584.9	101.11	16.676	
12,300.0	7,039.0	7,007.5	7,007.0	102.4	1.7	-89.31	-4,221.4	502.5	1,737.0	1,634.1	102.91	16.879	
12,303.1	7,039.0	7,007.5	7,007.0	102.5	1.7	-89.30	-4,221.4	502.5	1,738.7	1,635.8	102.97	16.886	
12,400.0	7,038.4	7,006.9	7,006.5	104.3	1.7	-89.28	-4,221.4	502.5	1,794.4	1,689.5	104.80	17.121	
12,401.5	7,038.4	7,006.9	7,006.5	104.3	1.7	-89.28	-4,221.4	502.5	1,795.3	1,690.4	104.83	17.125	
12,500.0	7,037.8	7,006.4	7,005.9	106.2	1.7	-89.26	-4,221.4	502.5	1,855.3	1,748.6	106.70	17.389	
12,598.4	7,037.1	7,005.8	7,005.4	108.0	1.7	-89.24	-4,221.4	502.5	1,918.5	1,810.0	108.56	17.672	
12,600.0	7,037.1	7,005.8	7,005.4	108.0	1.7	-89.24	-4,221.4	502.5	1,919.6	1,811.0	108.59	17.677	
12,696.8	7,036.5	7,005.2	7,004.8	109.9	1.7	-89.22	-4,221.4	502.5	1,984.6	1,874.2	110.43	17.972	
12,700.0	7,036.5	7,005.2	7,004.8	109.9	1.7	-89.22	-4,221.4	502.5	1,986.8	1,876.3	110.49	17.982	
12,795.2	7,035.9	7,004.6	7,004.2	111.7	1.7	-89.19	-4,221.4	502.5	2,053.3	1,941.0	112.29	18.285	
12,800.0	7,035.9	7,004.6	7,004.2	111.8	1.7	-89.19	-4,221.4	502.4	2,056.7	1,944.3	112.38	18.300	
12,893.7	7,035.3	7,004.0	7,003.6	113.6	1.7	-89.17	-4,221.4	502.4	2,124.3	2,010.2	114.16	18.608	
12,900.0	7,035.2	7,004.0	7,003.5	113.7	1.7	-89.17	-4,221.4	502.4	2,129.0	2,014.7	114.28	18.629	
12,992.1	7,034.7	7,003.4	7,003.0	115.4	1.7	-89.14	-4,221.4	502.4	2,197.4	2,081.4	116.03	18.939	
13,000.0	7,034.6	7,003.4	7,002.9	115.6	1.7	-89.14	-4,221.4	502.4	2,203.4	2,087.2	116.18	18.966	
13,090.5	7,034.0	7,002.8	7,002.3	117.3	1.7	-89.12	-4,221.4	502.4	2,272.5	2,154.6	117.90	19.275	
13,100.0	7,034.0	7,002.7	7,002.3	117.5	1.7	-89.12	-4,221.4	502.4	2,279.8	2,161.7	118.08	19.308	
13,188.9	7,033.4	7,002.1	7,001.7	119.1	1.7	-89.09	-4,221.4	502.4	2,349.3	2,229.5	119.77	19.615	
13,200.0	7,033.4	7,002.0	7,001.6	119.3	1.7	-89.09	-4,221.4	502.4	2,358.0	2,238.0	119.98	19.654	
13,287.4	7,032.8	7,001.5	7,001.0	121.0	1.7	-89.07	-4,221.4	502.4	2,427.6	2,306.0	121.64	19.958	
13,300.0	7,032.7	7,001.4	7,000.9	121.2	1.7	-89.06	-4,221.4	502.4	2,437.8	2,315.9	121.88	20.002	
13,385.8	7,032.2	7,000.8	7,000.3	122.9	1.7	-89.04	-4,221.4	502.4	2,507.3	2,383.8	123.51	20.301	
13,400.0	7,032.1	7,000.7	7,000.2	123.1	1.7	-89.04	-4,221.4	502.4	2,519.0	2,395.2	123.78	20.351	
13,484.2	7,031.6	7,000.1	6,999.6	124.7	1.7	-89.01	-4,221.4	502.4	2,588.4	2,463.0	125.38	20.645	
13,500.0	7,031.5	7,000.0	6,999.6	125.0	1.7	-89.01	-4,221.4	502.4	2,601.5	2,475.8	125.68	20.700	
13,582.6	7,030.9	7,000.0	6,999.6	126.6	1.7	-89.01	-4,221.4	502.4	2,670.6	2,543.3	127.25	20.987	
13,600.0	7,030.8	7,000.0	6,999.6	126.9	1.7	-89.01	-4,221.4	502.4	2,685.2	2,557.6	127.58	21.047	
13,681.1	7,030.3	7,000.0	6,999.6	128.4	1.7	-89.01	-4,221.4	502.4	2,753.9	2,624.7	129.12	21.328	
13,700.0	7,030.2	7,000.0	6,999.6	128.8	1.7	-89.01	-4,221.4	502.4	2,770.0	2,640.5	129.48	21.393	
13,779.5	7,029.7	7,000.0	6,999.6	130.3	1.7	-89.01	-4,221.4	502.4	2,838.1	2,707.1	131.00	21.666	
13,800.0	7,029.6	7,000.0	6,999.6	130.7	1.7	-89.01	-4,221.4	502.4	2,855.8	2,724.4	131.39	21.736	
13,877.9	7,029.1	7,000.0	6,999.6	132.2	1.7	-89.01	-4,221.4	502.4	2,923.2	2,790.4	132.87	22.001	
13,900.0	7,029.0	7,000.0	6,999.6	132.6	1.7	-89.01	-4,221.4	502.4	2,942.4	2,809.1	133.29	22.075	
13,976.3	7,028.5	7,000.0	6,999.6	134.0	1.7	-89.01	-4,221.4	502.4	3,009.2	2,874.4	134.74	22.332	
14,000.0	7,028.3	7,000.0	6,999.6	134.5	1.7	-89.01	-4,221.4	502.4	3,029.9	2,894.7	135.20	22.412	
14,074.8	7,027.9	7,000.0	6,999.6	135.9	1.7	-89.01	-4,221.4	502.4	3,095.8	2,959.2	136.62	22.660	
14,100.0	7,027.7	7,000.0	6,999.6	136.4	1.7	-89.01	-4,221.4	502.4	3,118.2	2,981.1	137.10	22.744	
14,173.2	7,027.2	7,000.0	6,999.6	137.8	1.7	-89.01	-4,221.4	502.4	3,183.2	3,044.7	138.50	22.984	
14,200.0	7,027.1	7,000.0	6,999.6	138.3	1.7	-89.01	-4,221.4	502.4	3,207.1	3,068.1	139.01	23.072	
14,210.5	7,027.0	7,000.0	6,999.6	138.5	1.7	-89.01	-4,221.4	502.4	3,216.5	3,077.3	139.21	23.106	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
0.0	0.0	0.0	0.0	0.0	0.0	-178.95	-3,657.6	-66.9	3,658.4				
98.4	98.4	65.7	65.7	0.1	0.1	-178.95	-3,657.6	-67.0	3,658.2	3,658.1	0.15	N/A	
100.0	100.0	67.3	67.3	0.1	0.1	-178.95	-3,657.6	-67.0	3,658.2	3,658.1	0.15	N/A	
164.7	164.7	130.2	130.2	0.2	0.1	-178.95	-3,657.6	-67.2	3,658.2	3,657.8	0.37	N/A	
196.8	196.8	159.7	159.7	0.3	0.2	-178.94	-3,657.6	-67.4	3,658.2	3,657.7	0.48	7,615.565	
200.0	200.0	162.6	162.6	0.3	0.2	-178.94	-3,657.6	-67.4	3,658.2	3,657.7	0.49	7,440.796	
295.3	295.3	292.9	292.9	0.5	0.3	-178.93	-3,657.3	-68.5	3,658.1	3,657.2	0.83	4,429.983	
300.0	300.0	300.0	300.0	0.5	0.3	-178.93	-3,657.2	-68.6	3,658.0	3,657.2	0.84	4,347.700	
393.7	393.7	390.2	390.2	0.8	0.4	-178.91	-3,656.4	-69.4	3,657.2	3,656.1	1.12	3,278.854	
400.0	400.0	396.2	396.2	0.8	0.4	-178.91	-3,656.3	-69.5	3,657.1	3,656.0	1.13	3,225.640	
492.1	492.1	526.1	526.0	1.0	0.4	-178.90	-3,654.5	-69.9	3,655.8	3,654.4	1.40	2,602.736	
500.0	500.0	535.1	535.0	1.0	0.4	-178.90	-3,654.3	-69.9	3,655.7	3,654.2	1.43	2,562.326	
590.5	590.5	631.0	631.0	1.2	0.5	-178.91	-3,652.4	-69.6	3,653.8	3,652.2	1.68	2,180.868	
600.0	600.0	639.7	639.6	1.2	0.5	-178.91	-3,652.2	-69.6	3,653.6	3,651.9	1.70	2,148.661	
689.0	689.0	727.0	727.0	1.4	0.5	-178.91	-3,650.5	-69.3	3,651.9	3,650.0	1.94	1,884.752	
700.0	700.0	740.0	739.9	1.4	0.5	-178.91	-3,650.3	-69.2	3,651.7	3,649.7	1.97	1,855.951	
787.4	787.4	837.4	837.3	1.6	0.6	-178.93	-3,648.1	-68.4	3,649.7	3,647.5	2.20	1,657.402	
800.0	800.0	850.5	850.4	1.7	0.6	-178.93	-3,647.8	-68.3	3,649.5	3,647.2	2.24	1,632.636	
885.8	885.8	934.1	934.0	1.9	0.6	-178.93	-3,645.9	-67.8	3,647.4	3,645.0	2.46	1,483.323	
900.0	900.0	946.8	946.7	1.9	0.6	-178.94	-3,645.6	-67.7	3,647.1	3,644.6	2.50	1,461.565	
984.2	984.2	1,027.8	1,027.7	2.1	0.7	-178.95	-3,643.9	-67.0	3,645.3	3,642.6	2.71	1,343.456	
1,000.0	1,000.0	1,045.3	1,045.1	2.1	0.7	-178.95	-3,643.5	-66.8	3,645.0	3,642.2	2.75	1,323.075	
1,082.7	1,082.7	1,137.8	1,137.6	2.3	0.7	-178.97	-3,641.4	-65.8	3,643.1	3,640.1	2.97	1,225.491	
1,100.0	1,100.0	1,157.4	1,157.2	2.3	0.7	-178.97	-3,640.9	-65.6	3,642.7	3,639.6	3.02	1,206.844	
1,181.1	1,181.1	1,248.5	1,248.3	2.5	0.8	-104.87	-3,638.5	-64.7	3,640.8	3,637.5	3.28	1,109.145	
1,200.0	1,200.0	1,269.6	1,269.4	2.6	0.8	-104.89	-3,637.9	-64.5	3,640.4	3,637.1	3.33	1,092.621	
1,279.5	1,279.4	1,349.2	1,348.9	2.7	0.8	-104.98	-3,635.6	-64.1	3,639.1	3,635.6	3.53	1,030.197	
1,300.0	1,299.8	1,368.5	1,368.2	2.8	0.8	-105.00	-3,635.1	-64.0	3,638.9	3,635.3	3.58	1,015.439	
1,377.9	1,377.5	1,441.1	1,440.8	2.9	0.8	-105.11	-3,633.1	-63.9	3,638.4	3,634.6	3.79	960.706	
1,392.5	1,391.9	1,454.5	1,454.2	3.0	0.8	-105.13	-3,632.7	-63.9	3,638.4	3,634.6	3.83	951.197	
1,400.0	1,399.5	1,461.5	1,461.2	3.0	0.9	-105.14	-3,632.5	-63.9	3,638.4	3,634.5	3.84	946.325	
1,476.4	1,475.3	1,537.8	1,537.5	3.2	0.9	-105.27	-3,630.5	-63.8	3,638.8	3,634.7	4.06	896.088	
1,500.0	1,498.7	1,563.5	1,563.1	3.2	0.9	-105.32	-3,629.8	-63.9	3,639.0	3,634.8	4.13	881.473	
1,574.8	1,572.6	1,646.9	1,646.6	3.4	0.9	-105.49	-3,627.5	-64.2	3,639.9	3,635.5	4.36	834.231	
1,600.0	1,597.5	1,675.6	1,675.2	3.5	0.9	-105.55	-3,626.6	-64.3	3,640.3	3,635.8	4.44	819.444	
1,673.2	1,669.4	1,743.9	1,743.5	3.7	1.0	-105.71	-3,624.5	-64.9	3,641.7	3,637.0	4.69	775.920	
1,700.2	1,695.8	1,766.8	1,766.3	3.8	1.0	-105.76	-3,623.8	-65.0	3,642.4	3,637.6	4.78	761.220	
1,771.6	1,765.7	1,821.9	1,821.4	4.1	1.0	-105.93	-3,622.3	-65.4	3,644.6	3,639.5	5.05	721.877	
1,800.0	1,793.4	1,841.2	1,840.7	4.2	1.0	-105.99	-3,621.8	-65.6	3,645.5	3,640.4	5.15	707.564	
1,870.1	1,862.0	1,900.0	1,899.5	4.4	1.0	-106.16	-3,620.7	-66.2	3,648.3	3,642.9	5.43	672.414	
1,900.0	1,891.2	1,912.7	1,912.2	4.5	1.0	-106.20	-3,620.5	-66.3	3,649.6	3,644.0	5.54	659.037	
1,968.5	1,958.3	1,975.5	1,975.0	4.8	1.0	-106.39	-3,619.6	-67.1	3,652.6	3,646.8	5.82	628.057	
2,000.0	1,989.1	2,005.0	2,004.5	4.9	1.1	-106.47	-3,619.2	-67.5	3,654.1	3,648.1	5.94	614.788	
2,066.9	2,054.5	2,074.7	2,074.2	5.2	1.1	-106.67	-3,618.3	-68.5	3,657.1	3,650.9	6.22	587.587	
2,100.0	2,086.9	2,100.0	2,099.5	5.3	1.1	-106.75	-3,617.9	-68.9	3,658.7	3,652.3	6.36	575.295	
2,165.3	2,150.8	2,161.7	2,161.1	5.6	1.1	-106.93	-3,617.1	-69.7	3,661.8	3,655.1	6.64	551.710	
2,200.0	2,184.7	2,190.5	2,189.9	5.7	1.1	-107.01	-3,616.7	-70.1	3,663.5	3,656.7	6.78	540.104	
2,263.8	2,247.1	2,241.5	2,240.9	6.0	1.1	-107.16	-3,616.3	-70.8	3,666.9	3,659.8	7.05	519.882	
2,300.0	2,282.5	2,270.2	2,269.7	6.1	1.1	-107.24	-3,616.1	-71.2	3,668.9	3,661.7	7.21	509.120	
2,362.2	2,343.3	2,321.1	2,320.5	6.4	1.2	-107.39	-3,615.9	-72.2	3,672.5	3,665.1	7.47	491.492	
2,400.0	2,380.3	2,353.3	2,352.8	6.6	1.2	-107.48	-3,615.8	-72.8	3,674.9	3,667.2	7.63	481.436	
2,460.6	2,439.6	2,400.0	2,399.4	6.8	1.2	-107.61	-3,615.8	-73.7	3,678.7	3,670.8	7.89	466.075	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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)	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	2,435.1	2,434.5	7.0	1.2	-107.71	-3,615.9	-74.3	3,681.3	3,673.2	8.06	456.676	
2,559.0	2,535.9	2,480.9	2,480.3	7.2	1.2	-107.83	-3,616.1	-75.2	3,685.3	3,677.0	8.31	443.269	
2,600.0	2,575.9	2,513.1	2,512.5	7.4	1.2	-107.92	-3,616.4	-75.9	3,688.3	3,679.8	8.49	434.469	
2,657.5	2,632.2	2,558.9	2,558.2	7.7	1.2	-108.05	-3,616.8	-76.8	3,692.6	3,683.9	8.74	422.709	
2,700.0	2,673.8	2,600.0	2,599.4	7.8	1.2	-108.16	-3,617.4	-77.6	3,695.9	3,687.0	8.92	414.406	
2,755.9	2,728.4	2,656.5	2,655.8	8.1	1.2	-108.32	-3,618.1	-78.7	3,700.3	3,691.1	9.16	403.983	
2,800.0	2,771.6	2,700.0	2,699.3	8.3	1.2	-108.44	-3,618.5	-79.6	3,703.7	3,694.3	9.35	396.139	
2,854.3	2,824.7	2,748.6	2,747.9	8.5	1.2	-108.57	-3,619.1	-80.7	3,707.9	3,698.3	9.58	386.875	
2,900.0	2,869.4	2,784.1	2,783.4	8.7	1.2	-108.67	-3,619.5	-81.4	3,711.5	3,701.8	9.78	379.465	
2,952.7	2,921.0	2,839.9	2,839.3	8.9	1.3	-108.82	-3,620.4	-82.5	3,715.9	3,705.9	10.01	371.207	
3,000.0	2,967.2	2,898.5	2,897.8	9.2	1.3	-108.98	-3,621.1	-83.8	3,719.7	3,709.5	10.22	364.100	
3,051.2	3,017.3	2,944.5	2,943.7	9.4	1.3	-109.10	-3,621.7	-84.8	3,723.7	3,713.3	10.44	356.733	
3,100.0	3,065.0	2,987.8	2,987.1	9.6	1.3	-109.22	-3,622.2	-85.7	3,727.7	3,717.0	10.65	350.006	
3,149.6	3,113.5	3,029.2	3,028.5	9.8	1.3	-109.33	-3,622.8	-86.4	3,731.8	3,720.9	10.87	343.432	
3,200.0	3,162.8	3,070.3	3,069.6	10.0	1.3	-109.44	-3,623.4	-87.2	3,736.1	3,725.0	11.09	337.031	
3,248.0	3,209.8	3,113.4	3,112.7	10.3	1.3	-109.56	-3,624.2	-88.0	3,740.3	3,729.0	11.29	331.156	
3,300.0	3,260.6	3,173.6	3,172.8	10.5	1.3	-109.73	-3,625.2	-89.1	3,744.8	3,733.3	11.52	325.048	
3,346.4	3,306.1	3,224.5	3,223.7	10.7	1.3	-109.87	-3,625.9	-89.7	3,748.8	3,737.1	11.72	319.783	
3,400.0	3,358.4	3,280.1	3,279.2	10.9	1.3	-110.02	-3,626.7	-90.5	3,753.3	3,741.4	11.96	313.948	
3,444.9	3,402.3	3,322.8	3,322.0	11.1	1.3	-110.14	-3,627.3	-91.0	3,757.1	3,745.0	12.15	309.218	
3,500.0	3,456.3	3,371.9	3,371.1	11.4	1.3	-110.28	-3,627.9	-91.6	3,761.9	3,749.5	12.39	303.620	
3,543.3	3,498.6	3,414.7	3,413.9	11.6	1.3	-110.40	-3,628.6	-92.1	3,765.7	3,753.1	12.58	299.372	
3,600.0	3,554.1	3,485.7	3,484.8	11.8	1.4	-110.60	-3,629.4	-92.8	3,770.5	3,757.7	12.83	293.997	
3,641.7	3,594.9	3,526.5	3,525.6	12.0	1.4	-110.71	-3,629.8	-93.2	3,774.0	3,761.0	13.01	290.162	
3,700.0	3,651.9	3,577.4	3,576.6	12.3	1.4	-110.86	-3,630.4	-93.6	3,779.0	3,765.8	13.26	284.993	
3,740.1	3,691.2	3,613.0	3,612.2	12.5	1.4	-110.95	-3,630.8	-94.0	3,782.5	3,769.1	13.43	281.555	
3,800.0	3,749.7	3,667.3	3,666.5	12.7	1.4	-111.11	-3,631.5	-94.2	3,787.8	3,774.1	13.69	276.625	
3,838.6	3,787.4	3,702.9	3,702.1	12.9	1.4	-111.21	-3,632.0	-94.2	3,791.3	3,777.4	13.86	273.549	
3,900.0	3,847.5	3,775.0	3,774.2	13.2	1.4	-111.43	-3,632.8	-94.0	3,796.8	3,782.6	14.13	268.797	
3,937.0	3,883.7	3,812.8	3,811.9	13.3	1.4	-111.54	-3,633.2	-93.9	3,800.0	3,785.7	14.29	266.012	
4,000.0	3,945.3	3,864.0	3,863.1	13.6	1.4	-111.69	-3,633.8	-93.9	3,805.6	3,791.1	14.56	261.414	
4,035.4	3,980.0	3,900.0	3,899.1	13.8	1.4	-111.79	-3,634.2	-93.9	3,808.9	3,794.2	14.71	258.911	
4,100.0	4,043.1	3,963.9	3,963.1	14.1	1.4	-111.98	-3,635.1	-93.8	3,814.9	3,799.9	14.99	254.484	
4,133.8	4,076.3	4,002.6	4,001.7	14.2	1.4	-112.09	-3,635.5	-93.6	3,817.9	3,802.8	15.14	252.229	
4,200.0	4,141.0	4,073.2	4,072.3	14.5	1.4	-112.30	-3,636.2	-93.4	3,823.9	3,808.5	15.42	247.949	
4,232.3	4,172.5	4,108.0	4,107.1	14.7	1.4	-112.40	-3,636.5	-93.4	3,826.8	3,811.2	15.56	245.915	
4,300.0	4,238.8	4,183.0	4,182.1	15.0	1.4	-112.62	-3,637.0	-93.3	3,832.7	3,816.9	15.85	241.756	
4,330.7	4,268.8	4,217.3	4,216.4	15.1	1.4	-112.72	-3,637.1	-93.2	3,835.4	3,819.4	15.99	239.923	
4,400.0	4,336.6	4,295.1	4,294.2	15.4	1.4	-112.94	-3,637.4	-93.0	3,841.3	3,825.1	16.28	235.899	
4,429.1	4,365.1	4,328.5	4,327.6	15.6	1.4	-113.04	-3,637.4	-92.8	3,843.8	3,827.4	16.41	234.258	
4,500.0	4,434.4	4,400.0	4,399.1	15.9	1.4	-113.25	-3,637.3	-92.7	3,849.7	3,832.9	16.71	230.354	
4,527.5	4,461.3	4,430.2	4,429.3	16.0	1.4	-113.33	-3,637.3	-92.7	3,851.9	3,835.1	16.83	228.902	
4,600.0	4,532.2	4,490.1	4,489.2	16.4	1.4	-113.50	-3,637.4	-92.7	3,858.1	3,840.9	17.13	225.161	
4,626.0	4,557.6	4,514.5	4,513.6	16.5	1.4	-113.57	-3,637.4	-92.7	3,860.3	3,843.1	17.24	223.854	
4,700.0	4,630.0	4,591.0	4,590.1	16.8	1.4	-113.79	-3,637.5	-92.6	3,866.8	3,849.2	17.56	220.221	
4,724.4	4,653.9	4,629.0	4,628.1	16.9	1.4	-113.90	-3,637.5	-92.5	3,868.9	3,851.2	17.66	219.082	
4,800.0	4,727.8	4,757.7	4,756.8	17.3	1.4	-114.25	-3,636.5	-93.8	3,874.6	3,856.7	17.98	215.496	
4,822.8	4,750.2	4,792.9	4,792.0	17.4	1.5	-114.34	-3,635.9	-94.6	3,876.2	3,858.1	18.08	214.392	
4,900.0	4,825.6	4,910.7	4,909.7	17.7	1.5	-114.63	-3,633.4	-97.6	3,881.0	3,862.5	18.42	210.704	
4,921.2	4,846.4	4,931.9	4,930.9	17.8	1.5	-114.68	-3,632.8	-98.1	3,882.2	3,863.7	18.51	209.709	
5,000.0	4,923.5	5,011.6	5,010.5	18.2	1.5	-114.88	-3,630.6	-100.0	3,886.7	3,867.9	18.86	206.114	
5,019.7	4,942.7	5,033.5	5,032.4	18.3	1.5	-114.94	-3,630.0	-100.5	3,887.8	3,868.9	18.94	205.233	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,100.0	5,021.3	5,116.1	5,115.0	18.6	1.5	-115.15	-3,627.4	-101.9	3,892.3	3,873.0	19.30	201.724	
5,118.1	5,039.0	5,130.2	5,129.1	18.7	1.5	-115.19	-3,627.0	-102.1	3,893.4	3,874.0	19.37	200.953	
5,200.0	5,119.1	5,200.0	5,198.8	19.1	1.6	-115.37	-3,625.1	-103.1	3,898.3	3,878.6	19.73	197.557	
5,216.5	5,135.3	5,200.0	5,198.8	19.2	1.6	-115.37	-3,625.1	-103.1	3,899.3	3,879.5	19.80	196.898	
5,300.0	5,216.9	5,258.5	5,257.3	19.6	1.6	-115.53	-3,623.8	-103.8	3,905.0	3,884.8	20.17	193.621	
5,314.9	5,231.5	5,267.9	5,266.7	19.6	1.6	-115.55	-3,623.7	-103.9	3,906.1	3,885.8	20.23	193.051	
5,400.0	5,314.7	5,330.0	5,328.8	20.0	1.6	-115.72	-3,622.9	-104.7	3,912.6	3,892.0	20.60	189.893	
5,413.4	5,327.8	5,341.7	5,340.5	20.1	1.6	-115.75	-3,622.8	-104.8	3,913.7	3,893.0	20.66	189.407	
5,500.0	5,412.5	5,418.6	5,417.4	20.5	1.6	-115.95	-3,622.0	-105.2	3,920.7	3,899.7	21.04	186.353	
5,511.8	5,424.1	5,429.6	5,428.4	20.5	1.6	-115.99	-3,621.9	-105.1	3,921.7	3,900.6	21.09	185.951	
5,600.0	5,510.3	5,513.4	5,512.2	20.9	1.6	-116.23	-3,620.9	-104.3	3,929.1	3,907.6	21.47	183.019	
5,610.2	5,520.3	5,524.5	5,523.3	21.0	1.6	-116.26	-3,620.8	-104.1	3,929.9	3,908.4	21.51	182.687	
5,700.0	5,608.2	5,617.4	5,616.1	21.4	1.6	-116.55	-3,619.3	-101.7	3,937.4	3,915.5	21.89	179.840	
5,708.6	5,616.6	5,624.9	5,623.6	21.4	1.6	-116.58	-3,619.2	-101.5	3,938.1	3,916.2	21.93	179.572	
5,729.2	5,636.7	5,642.7	5,641.4	21.5	1.6	-116.63	-3,618.9	-100.9	3,939.9	3,917.8	22.02	178.941	
5,800.0	5,706.1	5,704.4	5,703.1	21.8	1.6	-116.93	-3,617.9	-98.9	3,945.6	3,923.3	22.25	177.355	
5,807.1	5,713.1	5,711.0	5,709.7	21.8	1.6	-116.95	-3,617.8	-98.6	3,946.1	3,923.8	22.26	177.246	
5,900.0	5,804.7	5,797.3	5,795.9	22.1	1.6	-117.30	-3,616.5	-95.2	3,952.5	3,930.0	22.49	175.779	
5,905.5	5,810.2	5,803.5	5,802.1	22.1	1.6	-117.33	-3,616.4	-95.0	3,952.9	3,930.4	22.50	175.706	
6,000.0	5,903.9	5,929.3	5,927.8	22.3	1.7	-117.70	-3,613.9	-90.0	3,957.6	3,934.9	22.69	174.397	
6,003.9	5,907.8	5,934.3	5,932.7	22.4	1.7	-117.71	-3,613.8	-89.8	3,957.7	3,935.0	22.70	174.350	
6,100.0	6,003.4	6,046.1	6,044.4	22.6	1.7	-117.96	-3,611.1	-86.3	3,960.4	3,937.5	22.88	173.117	
6,102.3	6,005.7	6,048.5	6,046.9	22.6	1.7	-117.96	-3,611.0	-86.2	3,960.4	3,937.5	22.88	173.091	
6,200.0	6,103.2	6,141.1	6,139.5	22.7	1.7	-118.10	-3,608.6	-83.7	3,961.4	3,938.4	23.04	171.964	
6,200.8	6,104.0	6,141.8	6,140.1	22.7	1.7	-118.10	-3,608.6	-83.7	3,961.4	3,938.4	23.04	171.956	
6,299.2	6,202.3	6,244.4	6,242.6	22.9	1.7	-118.17	-3,606.2	-80.7	3,961.1	3,937.9	23.17	170.947	
6,300.0	6,203.1	6,245.6	6,243.8	22.9	1.7	-118.17	-3,606.2	-80.7	3,961.1	3,937.9	23.17	170.937	
6,329.4	6,232.5	6,289.7	6,287.9	22.9	1.7	167.64	-3,605.0	-79.4	3,960.5	3,937.3	23.19	170.783	
6,397.6	6,300.8	6,377.1	6,375.2	23.0	1.7	167.60	-3,602.2	-77.0	3,958.8	3,935.5	23.29	169.975	
6,400.0	6,303.1	6,380.1	6,378.2	23.0	1.7	167.60	-3,602.1	-76.9	3,958.7	3,935.4	23.29	169.946	
6,449.4	6,352.5	6,430.6	6,428.7	23.1	1.7	167.58	-3,600.4	-75.8	3,957.3	3,934.0	23.37	169.325	
6,496.0	6,399.2	6,473.3	6,471.3	23.1	1.7	-12.70	-3,599.0	-75.0	3,954.6	3,931.1	23.43	168.775	
6,500.0	6,403.1	6,476.9	6,474.9	23.1	1.7	-12.71	-3,598.9	-74.9	3,954.2	3,930.8	23.43	168.733	
6,550.0	6,452.8	6,527.3	6,525.3	23.1	1.7	-12.86	-3,597.3	-73.9	3,947.7	3,924.2	23.48	168.134	
6,594.5	6,496.6	6,576.3	6,574.3	23.2	1.8	-13.07	-3,595.7	-72.9	3,939.1	3,915.6	23.51	167.558	
6,600.0	6,502.0	6,582.3	6,580.3	23.2	1.8	-13.10	-3,595.5	-72.8	3,937.8	3,914.3	23.51	167.493	
6,650.0	6,550.5	6,644.1	6,642.1	23.2	1.8	-13.43	-3,593.3	-71.6	3,924.6	3,901.0	23.51	166.944	
6,692.9	6,591.4	6,699.1	6,697.0	23.2	1.8	-13.79	-3,591.1	-70.6	3,910.4	3,886.9	23.47	166.642	
6,700.0	6,598.0	6,709.0	6,706.9	23.2	1.8	-13.86	-3,590.7	-70.4	3,907.8	3,884.4	23.45	166.611	
6,750.0	6,644.4	6,778.2	6,776.0	23.2	1.8	-14.43	-3,587.6	-69.1	3,887.7	3,864.4	23.34	166.553	
6,791.3	6,681.6	6,825.2	6,822.9	23.2	1.8	-14.97	-3,585.3	-68.4	3,868.6	3,845.4	23.19	166.813	
6,800.0	6,689.3	6,833.7	6,831.4	23.2	1.8	-15.09	-3,584.9	-68.3	3,864.3	3,841.2	23.15	166.914	
6,850.0	6,732.6	6,881.8	6,879.4	23.2	1.8	-15.89	-3,582.5	-67.7	3,838.0	3,815.1	22.88	167.723	
6,889.7	6,765.7	6,930.4	6,927.9	23.2	1.8	-16.68	-3,580.0	-67.4	3,815.0	3,792.3	22.63	168.601	
6,900.0	6,774.0	6,945.5	6,943.1	23.2	1.8	-16.91	-3,579.1	-67.3	3,808.7	3,786.2	22.55	168.866	
6,950.0	6,813.3	7,016.1	7,013.5	23.2	1.9	-18.21	-3,574.9	-66.9	3,776.5	3,754.3	22.16	170.385	
6,988.2	6,841.9	7,000.0	6,997.5	23.2	1.9	-19.06	-3,575.9	-67.0	3,750.4	3,728.6	21.77	172.280	
7,000.0	6,850.5	7,000.0	6,997.5	23.2	1.9	-19.37	-3,575.9	-67.0	3,742.0	3,720.4	21.64	172.916	
7,050.0	6,885.2	7,000.0	6,997.5	23.2	1.9	-20.83	-3,575.9	-67.0	3,705.6	3,684.5	21.08	175.791	
7,086.6	6,908.9	7,000.0	6,997.5	23.2	1.9	-22.10	-3,575.9	-67.0	3,677.7	3,657.0	20.65	178.068	
7,100.0	6,917.3	7,000.0	6,997.5	23.2	1.9	-22.60	-3,575.9	-67.0	3,667.2	3,646.7	20.49	179.010	
7,150.0	6,946.6	7,000.0	6,997.5	23.2	1.9	-24.76	-3,575.9	-67.0	3,627.1	3,607.2	19.89	182.374	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,185.0	6,965.5	7,000.0	6,997.5	23.3	1.9	-26.56	-3,575.9	-67.0	3,598.1	3,578.6	19.47	184.778		
7,200.0	6,973.1	7,000.0	6,997.5	23.3	1.9	-27.41	-3,575.9	-67.0	3,585.5	3,566.1	19.33	185.532		
7,250.0	6,996.5	7,000.0	6,997.5	23.3	1.9	-30.72	-3,575.9	-67.0	3,542.3	3,523.5	18.85	187.918		
7,283.4	7,010.4	7,000.0	6,997.5	23.4	1.9	-33.41	-3,575.9	-67.0	3,512.8	3,494.2	18.62	188.699		
7,300.0	7,016.8	7,000.0	6,997.5	23.4	1.9	-34.91	-3,575.9	-67.0	3,497.9	3,479.4	18.53	188.733		
7,350.0	7,033.8	7,000.0	6,997.5	23.5	1.9	-40.28	-3,575.9	-67.0	3,452.4	3,434.0	18.45	187.098		
7,381.9	7,043.0	7,000.0	6,997.5	23.6	1.9	-44.49	-3,575.9	-67.0	3,422.9	3,404.4	18.55	184.488		
7,400.0	7,047.6	7,000.0	6,997.5	23.6	1.9	-47.21	-3,575.9	-67.0	3,406.0	3,387.3	18.66	182.514		
7,450.0	7,057.9	7,000.0	6,997.5	23.8	1.9	-56.16	-3,575.9	-67.0	3,358.8	3,339.7	19.14	175.506		
7,480.3	7,062.5	7,000.0	6,997.5	23.9	1.9	-62.69	-3,575.9	-67.0	3,329.9	3,310.4	19.50	170.761		
7,500.0	7,064.8	7,000.0	6,997.5	24.0	1.9	-67.40	-3,575.9	-67.0	3,311.1	3,291.4	19.73	167.834		
7,550.0	7,068.3	7,000.0	6,997.5	24.2	1.9	-80.69	-3,575.9	-67.0	3,263.0	3,242.8	20.28	160.875		
7,578.7	7,068.7	7,000.0	6,997.5	24.4	1.9	-88.83	-3,575.9	-67.0	3,235.4	3,214.6	20.78	155.670		
7,578.9	7,068.7	7,000.0	6,997.5	24.4	1.9	-88.88	-3,575.9	-67.0	3,235.3	3,214.5	20.79	155.638		
7,600.0	7,068.6	7,000.0	6,997.5	24.5	1.9	-88.88	-3,575.9	-67.0	3,214.9	3,193.9	20.99	153.128		
7,677.1	7,068.1	7,000.0	6,997.5	25.1	1.9	-88.88	-3,575.9	-67.0	3,140.7	3,119.0	21.73	144.506		
7,700.0	7,067.9	7,000.0	6,997.5	25.2	1.9	-88.88	-3,575.9	-67.0	3,118.8	3,096.8	21.95	142.065		
7,775.6	7,067.4	7,000.0	6,997.5	25.9	1.9	-88.88	-3,575.9	-67.0	3,046.3	3,023.6	22.77	133.799		
7,800.0	7,067.3	7,000.0	6,997.5	26.1	1.9	-88.88	-3,575.9	-67.0	3,022.9	2,999.9	23.03	131.254		
7,874.0	7,066.8	7,000.0	6,997.5	26.8	1.9	-88.88	-3,575.9	-67.0	2,952.2	2,928.2	23.98	123.134		
7,900.0	7,066.7	7,000.0	6,997.5	27.0	1.9	-88.88	-3,575.9	-67.0	2,927.3	2,903.0	24.31	120.433		
7,972.4	7,066.2	7,000.0	6,997.5	27.8	1.9	-88.88	-3,575.9	-67.0	2,858.3	2,833.0	25.29	113.007		
8,000.0	7,066.0	7,000.0	6,997.5	28.1	1.9	-88.88	-3,575.9	-67.0	2,832.1	2,806.4	25.67	110.332		
8,070.8	7,065.6	7,000.0	6,997.5	28.9	1.9	-88.88	-3,575.9	-67.0	2,764.8	2,738.1	26.68	103.609		
8,100.0	7,065.4	7,000.0	6,997.5	29.3	1.9	-88.88	-3,575.9	-67.0	2,737.1	2,710.0	27.10	100.991		
8,169.3	7,065.0	7,000.0	6,997.5	30.2	1.9	-88.88	-3,575.9	-67.0	2,671.6	2,643.4	28.14	94.945		
8,200.0	7,064.8	7,000.0	6,997.5	30.6	1.9	-88.88	-3,575.9	-67.0	2,642.5	2,613.9	28.60	92.406		
8,267.7	7,064.4	7,000.0	6,997.5	31.5	1.9	-88.88	-3,575.9	-67.0	2,578.8	2,549.1	29.64	86.993		
8,300.0	7,064.2	7,000.0	6,997.5	31.9	1.9	-88.88	-3,575.9	-67.0	2,548.4	2,518.2	30.14	84.544		
8,366.1	7,063.7	7,000.0	6,997.5	32.8	1.9	-88.88	-3,575.9	-67.0	2,486.4	2,455.2	31.19	79.709		
8,400.0	7,063.5	7,000.0	6,997.5	33.3	1.9	-88.88	-3,575.9	-67.0	2,454.7	2,423.0	31.73	77.359		
8,464.5	7,063.1	7,000.0	6,997.5	34.2	1.9	-88.88	-3,575.9	-67.0	2,394.5	2,361.7	32.78	73.046		
8,500.0	7,062.9	7,000.0	6,997.5	34.8	1.9	-88.88	-3,575.9	-67.0	2,361.5	2,328.2	33.36	70.796		
8,563.0	7,062.5	7,000.0	6,997.5	35.7	1.9	-88.88	-3,575.9	-67.0	2,303.1	2,268.7	34.40	66.951		
8,600.0	7,062.3	7,000.0	6,997.5	36.3	1.9	-88.88	-3,575.9	-67.0	2,268.9	2,233.9	35.01	64.801		
8,661.4	7,061.9	7,000.0	6,997.5	37.2	1.9	-88.88	-3,575.9	-67.0	2,212.4	2,176.3	36.05	61.375		
8,700.0	7,061.6	7,000.0	6,997.5	37.8	1.9	-88.88	-3,575.9	-67.0	2,177.0	2,140.3	36.70	59.323		
8,759.8	7,061.3	7,000.0	6,997.5	38.8	1.9	-88.88	-3,575.9	-67.0	2,122.3	2,084.6	37.72	56.268		
8,800.0	7,061.0	7,000.0	6,997.5	39.4	1.9	-88.88	-3,575.9	-67.0	2,085.8	2,047.4	38.40	54.312		
8,858.2	7,060.6	7,000.0	6,997.5	40.3	1.9	-88.88	-3,575.9	-67.0	2,033.0	1,993.6	39.41	51.587		
8,900.0	7,060.4	7,000.0	6,997.5	41.0	1.9	-88.88	-3,575.9	-67.0	1,995.4	1,955.3	40.13	49.723		
8,956.7	7,060.0	7,000.0	6,997.5	41.9	1.9	-88.88	-3,575.9	-67.0	1,944.6	1,903.5	41.12	47.292		
9,000.0	7,059.8	7,000.0	6,997.5	42.6	1.9	-88.88	-3,575.9	-67.0	1,906.0	1,864.1	41.87	45.517		
9,055.1	7,059.4	7,000.0	6,997.5	43.6	1.9	-88.88	-3,575.9	-67.0	1,857.2	1,814.4	42.84	43.348		
9,100.0	7,059.1	7,000.0	6,997.5	44.3	1.9	-88.88	-3,575.9	-67.0	1,817.7	1,774.1	43.63	41.658		
9,153.5	7,058.8	7,000.0	6,997.5	45.2	1.9	-88.88	-3,575.9	-67.0	1,771.0	1,726.4	44.58	39.723		
9,200.0	7,058.5	7,000.0	6,997.5	46.0	1.9	-88.88	-3,575.9	-67.0	1,730.7	1,685.3	45.41	38.115		
9,251.9	7,058.2	7,000.0	6,997.5	46.9	1.9	-88.88	-3,575.9	-67.0	1,686.1	1,639.7	46.33	36.389		
9,300.0	7,057.9	7,000.0	6,997.5	47.7	1.9	-88.88	-3,575.9	-67.0	1,645.2	1,598.0	47.19	34.861		
9,350.4	7,057.6	7,000.0	6,997.5	48.6	1.9	-88.88	-3,575.9	-67.0	1,602.7	1,554.6	48.10	33.323		
9,400.0	7,057.2	7,000.0	6,997.5	49.4	1.9	-88.88	-3,575.9	-67.0	1,561.4	1,512.4	48.99	31.872		
9,448.8	7,056.9	7,000.0	6,997.5	50.3	1.9	-88.88	-3,575.9	-67.0	1,521.2	1,471.3	49.87	30.504		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY 5 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	7,056.6	7,000.0	6,997.5	51.1	1.9	-88.88	-3,575.9	-67.0	1,479.5	1,428.8	50.79	29.129	
9,547.2	7,056.3	7,000.0	6,997.5	52.0	1.9	-88.88	-3,575.9	-67.0	1,441.7	1,390.1	51.65	27.914	
9,600.0	7,056.0	7,000.0	6,997.5	52.9	1.9	-88.88	-3,575.9	-67.0	1,400.1	1,347.5	52.61	26.615	
9,645.6	7,055.7	7,000.0	6,997.5	53.7	1.9	-88.88	-3,575.9	-67.0	1,364.7	1,311.3	53.44	25.539	
9,700.0	7,055.4	7,000.0	6,997.5	54.6	1.9	-88.88	-3,575.9	-67.0	1,323.5	1,269.0	54.43	24.316	
9,744.1	7,055.1	7,000.0	6,997.5	55.4	1.9	-88.88	-3,575.9	-67.0	1,290.7	1,235.5	55.23	23.368	
9,800.0	7,054.7	7,000.0	6,997.5	56.4	1.9	-88.88	-3,575.9	-67.0	1,250.1	1,193.9	56.25	22.223	
9,842.5	7,054.5	7,000.0	6,997.5	57.2	1.9	-88.88	-3,575.9	-67.0	1,220.1	1,163.0	57.03	21.392	
9,900.0	7,054.1	7,000.0	6,997.5	58.2	1.9	-88.88	-3,575.9	-67.0	1,180.7	1,122.6	58.09	20.326	
9,940.9	7,053.8	7,000.0	6,997.5	58.9	1.9	-88.88	-3,575.9	-67.0	1,153.6	1,094.7	58.84	19.605	
10,000.0	7,053.5	7,000.0	6,997.5	60.0	1.9	-88.88	-3,575.9	-67.0	1,115.9	1,056.0	59.93	18.621	
10,039.3	7,053.2	7,000.0	6,997.5	60.7	1.9	-88.88	-3,575.9	-67.0	1,091.9	1,031.2	60.65	18.002	
10,100.0	7,052.8	7,000.0	6,997.5	61.8	1.9	-88.88	-3,575.9	-67.0	1,056.6	994.9	61.77	17.106	
10,137.8	7,052.6	7,000.0	6,997.5	62.4	1.9	-88.88	-3,575.9	-67.0	1,035.9	973.4	62.47	16.582	
10,200.0	7,052.2	7,000.0	6,997.5	63.6	1.9	-88.88	-3,575.9	-67.0	1,003.8	940.2	63.62	15.779	
10,236.2	7,052.0	7,000.0	6,997.5	64.2	1.9	-88.88	-3,575.9	-67.0	986.5	922.2	64.29	15.345	
10,300.0	7,051.6	7,000.0	6,997.5	65.4	1.9	-88.88	-3,575.9	-67.0	958.6	893.1	65.47	14.641	
10,334.6	7,051.4	7,000.0	6,997.5	66.0	1.9	-88.88	-3,575.9	-67.0	944.9	878.8	66.12	14.292	
10,400.0	7,051.0	7,000.0	6,997.5	67.2	1.9	-88.88	-3,575.9	-67.0	922.0	854.7	67.33	13.695	
10,433.0	7,050.7	7,000.0	6,997.5	67.8	1.9	-88.88	-3,575.9	-67.0	912.1	844.1	67.94	13.424	
10,500.0	7,050.3	7,000.0	6,997.5	69.0	1.9	-88.88	-3,575.9	-67.0	895.2	826.0	69.19	12.939	
10,531.5	7,050.1	7,000.0	6,997.5	69.6	1.9	-88.88	-3,575.9	-67.0	888.9	819.2	69.78	12.740	
10,600.0	7,049.7	7,000.0	6,997.5	70.8	1.9	-88.88	-3,575.9	-67.0	879.0	807.9	71.05	12.371	
10,629.9	7,049.5	7,000.0	6,997.5	71.4	1.9	-88.88	-3,575.9	-67.0	876.3	804.7	71.61	12.237	
10,693.8	7,049.1	7,000.0	6,997.5	72.6	1.9	-88.88	-3,575.9	-67.0	874.0	801.2	72.80	12.005 CC	
10,700.0	7,049.1	7,000.0	6,997.5	72.7	1.9	-88.88	-3,575.9	-67.0	874.0	801.1	72.92	11.986 ES	
10,728.3	7,048.9	7,000.0	6,997.5	73.2	1.9	-88.88	-3,575.9	-67.0	874.7	801.2	73.45	11.908	
10,800.0	7,048.4	7,000.0	6,997.5	74.5	1.9	-88.88	-3,575.9	-67.0	880.4	805.6	74.79	11.772	
10,826.7	7,048.3	7,000.0	6,997.5	75.0	1.9	-88.88	-3,575.9	-67.0	884.0	808.7	75.29	11.742	
10,900.0	7,047.8	6,999.2	6,996.6	76.3	1.9	-88.82	-3,575.9	-67.0	898.0	821.3	76.66	11.714 SF	
10,925.2	7,047.7	6,997.5	6,994.9	76.8	1.9	-88.71	-3,576.0	-67.0	904.1	827.0	77.12	11.723	
11,000.0	7,047.2	6,992.4	6,989.8	78.2	1.9	-88.38	-3,576.4	-67.0	926.0	847.5	78.50	11.797	
11,023.6	7,047.0	6,990.8	6,988.3	78.6	1.9	-88.27	-3,576.5	-67.0	934.1	855.1	78.93	11.834	
11,100.0	7,046.6	6,985.7	6,983.2	80.0	1.9	-87.94	-3,576.8	-67.1	963.6	883.3	80.34	11.994	
11,122.0	7,046.4	6,984.3	6,981.8	80.4	1.9	-87.85	-3,576.9	-67.1	973.1	892.4	80.75	12.051	
11,200.0	7,045.9	6,979.2	6,976.7	81.9	1.8	-87.52	-3,577.2	-67.1	1,009.8	927.6	82.19	12.286	
11,220.4	7,045.8	6,977.9	6,975.4	82.3	1.8	-87.43	-3,577.2	-67.1	1,020.1	937.6	82.56	12.356	
11,300.0	7,045.3	6,972.9	6,970.4	83.7	1.8	-87.10	-3,577.6	-67.1	1,063.3	979.2	84.03	12.653	
11,318.9	7,045.2	6,971.7	6,969.2	84.1	1.8	-87.02	-3,577.6	-67.1	1,074.1	989.7	84.38	12.730	
11,400.0	7,044.7	6,966.6	6,964.2	85.6	1.8	-86.70	-3,577.9	-67.2	1,123.1	1,037.2	85.87	13.079	
11,417.3	7,044.6	6,965.6	6,963.1	85.9	1.8	-86.63	-3,578.0	-67.2	1,134.0	1,047.8	86.19	13.157	
11,500.0	7,044.0	6,960.6	6,958.1	87.5	1.8	-86.30	-3,578.3	-67.2	1,188.3	1,100.6	87.71	13.547	
11,515.7	7,043.9	6,959.6	6,957.2	87.7	1.8	-86.24	-3,578.3	-67.2	1,199.0	1,111.0	88.00	13.624	
11,600.0	7,043.4	6,954.6	6,952.2	89.3	1.8	-85.91	-3,578.6	-67.2	1,258.1	1,168.5	89.56	14.048	
11,614.1	7,043.3	6,953.8	6,951.3	89.6	1.8	-85.86	-3,578.7	-67.2	1,268.3	1,178.5	89.82	14.121	
11,700.0	7,042.8	6,948.8	6,946.4	91.2	1.8	-85.53	-3,578.9	-67.3	1,331.7	1,240.3	91.40	14.570	
11,712.6	7,042.7	6,948.1	6,945.6	91.4	1.8	-85.49	-3,579.0	-67.3	1,341.2	1,249.5	91.63	14.637	
11,800.0	7,042.2	6,943.1	6,940.7	93.0	1.8	-85.16	-3,579.3	-67.3	1,408.5	1,315.3	93.24	15.107	
11,811.0	7,042.1	6,942.5	6,940.1	93.2	1.8	-85.12	-3,579.3	-67.3	1,417.1	1,323.7	93.44	15.167	
11,900.0	7,041.5	6,937.6	6,935.1	94.9	1.8	-84.80	-3,579.6	-67.3	1,488.1	1,393.0	95.07	15.652	
11,909.4	7,041.5	6,937.1	6,934.6	95.1	1.8	-84.77	-3,579.6	-67.3	1,495.7	1,400.4	95.25	15.703	
12,000.0	7,040.9	6,932.1	6,929.7	96.8	1.8	-84.45	-3,579.9	-67.4	1,569.9	1,473.0	96.91	16.200	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,040.8	6,931.7	6,929.3	96.9	1.8	-84.42	-3,579.9	-67.4	1,576.5	1,479.4	97.05	16.243	
12,100.0	7,040.3	6,926.8	6,924.4	98.7	1.8	-84.10	-3,580.2	-67.4	1,653.8	1,555.1	98.74	16.748	
12,106.3	7,040.2	6,926.5	6,924.1	98.8	1.8	-84.08	-3,580.2	-67.4	1,659.1	1,560.3	98.86	16.783	
12,200.0	7,039.6	6,921.6	6,919.2	100.5	1.8	-83.77	-3,580.4	-67.4	1,739.3	1,638.8	100.58	17.294	
12,204.7	7,039.6	6,921.4	6,918.9	100.6	1.8	-83.75	-3,580.5	-67.4	1,743.4	1,642.7	100.66	17.319	
12,300.0	7,039.0	6,916.5	6,914.1	102.4	1.8	-83.44	-3,580.7	-67.5	1,826.3	1,723.9	102.41	17.834	
12,303.1	7,039.0	6,916.3	6,913.9	102.5	1.8	-83.43	-3,580.7	-67.5	1,829.1	1,726.6	102.46	17.851	
12,400.0	7,038.4	6,911.5	6,909.1	104.3	1.8	-83.11	-3,581.0	-67.5	1,914.6	1,810.4	104.24	18.368	
12,401.5	7,038.4	6,911.4	6,909.0	104.3	1.8	-83.11	-3,581.0	-67.5	1,916.0	1,811.7	104.26	18.376	
12,500.0	7,037.8	6,900.0	6,897.6	106.2	1.8	-82.37	-3,581.6	-67.6	2,003.9	1,898.0	105.98	18.909	
12,598.4	7,037.1	6,900.0	6,897.6	108.0	1.8	-82.37	-3,581.6	-67.6	2,092.8	1,984.9	107.83	19.407	
12,600.0	7,037.1	6,900.0	6,897.6	108.0	1.8	-82.37	-3,581.6	-67.6	2,094.2	1,986.4	107.86	19.415	
12,696.8	7,036.5	6,896.4	6,894.0	109.9	1.8	-82.14	-3,581.7	-67.6	2,182.4	2,072.8	109.64	19.905	
12,700.0	7,036.5	6,896.2	6,893.9	109.9	1.8	-82.13	-3,581.8	-67.6	2,185.3	2,075.6	109.70	19.922	
12,795.2	7,035.9	6,890.5	6,888.1	111.7	1.8	-81.76	-3,582.0	-67.7	2,272.8	2,161.4	111.41	20.400	
12,800.0	7,035.9	6,890.2	6,887.9	111.8	1.8	-81.74	-3,582.1	-67.7	2,277.2	2,165.7	111.50	20.424	
12,893.7	7,035.3	6,884.6	6,882.3	113.6	1.8	-81.38	-3,582.3	-67.7	2,363.8	2,250.6	113.18	20.886	
12,900.0	7,035.2	6,884.2	6,881.9	113.7	1.8	-81.36	-3,582.4	-67.7	2,369.7	2,256.4	113.29	20.917	
12,992.1	7,034.7	6,878.7	6,876.4	115.4	1.8	-81.01	-3,582.6	-67.8	2,455.4	2,340.5	114.94	21.362	
13,000.0	7,034.6	6,878.3	6,875.9	115.6	1.8	-80.98	-3,582.7	-67.8	2,462.8	2,347.7	115.08	21.400	
13,090.5	7,034.0	6,872.9	6,870.5	117.3	1.8	-80.63	-3,582.9	-67.8	2,547.5	2,430.8	116.70	21.830	
13,100.0	7,034.0	6,872.3	6,870.0	117.5	1.8	-80.60	-3,583.0	-67.8	2,556.3	2,439.5	116.87	21.874	
13,188.9	7,033.4	6,867.0	6,864.7	119.1	1.8	-80.26	-3,583.2	-67.9	2,640.0	2,521.5	118.45	22.288	
13,200.0	7,033.4	6,866.4	6,864.1	119.3	1.8	-80.22	-3,583.3	-67.9	2,650.4	2,531.7	118.64	22.339	
13,287.4	7,032.8	6,861.2	6,858.9	121.0	1.8	-79.89	-3,583.5	-67.9	2,732.9	2,612.7	120.19	22.738	
13,300.0	7,032.7	6,860.5	6,858.1	121.2	1.8	-79.84	-3,583.6	-67.9	2,744.8	2,624.4	120.41	22.795	
13,385.8	7,032.2	6,855.4	6,853.1	122.9	1.8	-79.52	-3,583.8	-68.0	2,826.2	2,704.2	121.93	23.179	
13,400.0	7,032.1	6,854.6	6,852.2	123.1	1.8	-79.47	-3,583.9	-68.0	2,839.6	2,717.5	122.18	23.242	
13,484.2	7,031.6	6,849.6	6,847.3	124.7	1.8	-79.15	-3,584.1	-68.1	2,919.8	2,796.1	123.66	23.611	
13,500.0	7,031.5	6,848.7	6,846.4	125.0	1.8	-79.09	-3,584.2	-68.1	2,934.8	2,810.9	123.94	23.679	
13,582.6	7,030.9	6,843.8	6,841.5	126.6	1.8	-78.79	-3,584.4	-68.1	3,013.7	2,888.3	125.39	24.035	
13,600.0	7,030.8	6,842.8	6,840.5	126.9	1.8	-78.72	-3,584.4	-68.2	3,030.2	2,904.6	125.69	24.109	
13,681.1	7,030.3	6,838.1	6,835.8	128.4	1.8	-78.42	-3,584.7	-68.2	3,107.8	2,980.7	127.11	24.451	
13,700.0	7,030.2	6,837.0	6,834.7	128.8	1.8	-78.35	-3,584.7	-68.2	3,126.0	2,998.5	127.44	24.530	
13,779.5	7,029.7	6,832.3	6,830.0	130.3	1.8	-78.06	-3,585.0	-68.3	3,202.2	3,073.4	128.82	24.859	
13,800.0	7,029.6	6,831.1	6,828.8	130.7	1.8	-77.98	-3,585.0	-68.3	3,221.9	3,092.8	129.17	24.943	
13,877.9	7,029.1	6,826.6	6,824.3	132.2	1.8	-77.70	-3,585.3	-68.4	3,296.9	3,166.4	130.52	25.259	
13,900.0	7,029.0	6,825.3	6,823.0	132.6	1.8	-77.62	-3,585.3	-68.4	3,318.1	3,187.2	130.91	25.348	
13,976.3	7,028.5	6,820.9	6,818.6	134.0	1.8	-77.34	-3,585.5	-68.4	3,391.7	3,259.5	132.22	25.652	
14,000.0	7,028.3	6,819.5	6,817.2	134.5	1.8	-77.25	-3,585.6	-68.5	3,414.6	3,281.9	132.63	25.745	
14,074.8	7,027.9	6,815.2	6,812.9	135.9	1.8	-76.98	-3,585.8	-68.5	3,486.8	3,352.9	133.91	26.037	
14,100.0	7,027.7	6,813.7	6,811.4	136.4	1.8	-76.89	-3,585.9	-68.5	3,511.2	3,376.8	134.35	26.135	
14,173.2	7,027.2	6,809.5	6,807.2	137.8	1.8	-76.63	-3,586.1	-68.6	3,582.0	3,446.4	135.60	26.416	
14,200.0	7,027.1	6,807.9	6,805.7	138.3	1.8	-76.53	-3,586.2	-68.6	3,607.9	3,471.9	136.05	26.518	
14,210.5	7,027.0	6,807.3	6,805.1	138.5	1.8	-76.49	-3,586.2	-68.6	3,618.1	3,481.9	136.23	26.558	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	-168.27	-2,859.8	-594.0	2,921.1				
98.4	98.4	55.6	55.6	0.1	0.0	-168.27	-2,859.8	-594.0	2,920.8	2,920.7	0.14	N/A	
100.0	100.0	57.1	57.1	0.1	0.0	-168.27	-2,859.8	-594.0	2,920.8	2,920.7	0.15	N/A	
196.8	196.8	158.3	158.3	0.3	0.2	-168.26	-2,859.7	-594.5	2,920.9	2,920.4	0.48	6,049.918	
200.0	200.0	161.8	161.8	0.3	0.2	-168.26	-2,859.7	-594.6	2,920.9	2,920.4	0.49	5,904.130	
295.3	295.3	262.6	262.6	0.5	0.3	-168.24	-2,859.3	-595.4	2,920.6	2,919.8	0.82	3,574.539	
300.0	300.0	267.5	267.5	0.5	0.3	-168.24	-2,859.3	-595.4	2,920.6	2,919.8	0.83	3,510.497	
393.7	393.7	360.3	360.3	0.8	0.4	-168.22	-2,858.8	-596.3	2,920.3	2,919.2	1.11	2,623.138	
400.0	400.0	366.4	366.4	0.8	0.4	-168.22	-2,858.8	-596.4	2,920.3	2,919.2	1.13	2,580.399	
492.1	492.1	457.3	457.3	1.0	0.4	-168.20	-2,858.3	-597.3	2,920.1	2,918.7	1.40	2,089.721	
500.0	500.0	465.2	465.2	1.0	0.4	-168.20	-2,858.3	-597.4	2,920.1	2,918.7	1.42	2,056.587	
590.5	590.5	560.8	560.8	1.2	0.5	-168.18	-2,857.9	-598.3	2,919.8	2,918.1	1.68	1,741.161	
600.0	600.0	571.1	571.1	1.2	0.5	-168.17	-2,857.8	-598.3	2,919.8	2,918.1	1.70	1,713.832	
689.0	689.0	659.9	659.9	1.4	0.5	-168.16	-2,857.2	-599.0	2,919.4	2,917.4	1.95	1,498.207	
700.0	700.0	670.4	670.4	1.4	0.5	-168.16	-2,857.2	-599.1	2,919.3	2,917.3	1.98	1,475.468	
787.4	787.4	760.4	760.4	1.6	0.6	-168.15	-2,856.7	-599.6	2,919.0	2,916.7	2.22	1,317.680	
800.0	800.0	773.9	773.9	1.7	0.6	-168.14	-2,856.6	-599.7	2,918.9	2,916.6	2.25	1,297.720	
885.8	885.8	860.9	860.8	1.9	0.6	-168.14	-2,856.0	-600.0	2,918.4	2,915.9	2.48	1,177.997	
900.0	900.0	874.9	874.9	1.9	0.6	-168.14	-2,855.9	-600.0	2,918.3	2,915.8	2.51	1,160.423	
984.2	984.2	955.4	955.4	2.1	0.7	-168.13	-2,855.5	-600.3	2,917.9	2,915.2	2.74	1,066.811	
1,000.0	1,000.0	970.2	970.2	2.1	0.7	-168.13	-2,855.4	-600.4	2,917.8	2,915.0	2.78	1,051.035	
1,082.7	1,082.7	1,053.1	1,053.1	2.3	0.7	-168.11	-2,854.9	-600.9	2,917.5	2,914.5	2.99	974.672	
1,100.0	1,100.0	1,071.2	1,071.1	2.3	0.7	-168.11	-2,854.9	-601.0	2,917.4	2,914.4	3.04	959.968	
1,181.1	1,181.1	1,152.5	1,152.5	2.5	0.8	-93.97	-2,854.4	-601.3	2,917.2	2,913.9	3.21	908.000	
1,200.0	1,200.0	1,171.1	1,171.1	2.6	0.8	-93.98	-2,854.3	-601.3	2,917.1	2,913.9	3.26	894.737	
1,279.5	1,279.4	1,252.4	1,252.3	2.7	0.8	-94.05	-2,853.9	-601.6	2,917.0	2,913.6	3.46	843.522	
1,300.0	1,299.8	1,273.8	1,273.7	2.8	0.8	-94.07	-2,853.7	-601.7	2,917.0	2,913.5	3.51	831.257	
1,323.1	1,322.9	1,297.9	1,297.9	2.8	0.8	-94.11	-2,853.6	-601.8	2,917.0	2,913.5	3.57	817.176	
1,377.9	1,377.5	1,348.9	1,348.8	2.9	0.8	-94.19	-2,853.3	-602.1	2,917.1	2,913.4	3.71	786.199	
1,400.0	1,399.5	1,369.2	1,369.2	3.0	0.9	-94.22	-2,853.2	-602.1	2,917.2	2,913.4	3.77	774.383	
1,476.4	1,475.3	1,441.7	1,441.7	3.2	0.9	-94.38	-2,852.9	-602.3	2,917.6	2,913.6	3.98	733.367	
1,500.0	1,498.7	1,464.6	1,464.5	3.2	0.9	-94.43	-2,852.9	-602.3	2,917.8	2,913.7	4.04	721.518	
1,574.8	1,572.6	1,537.5	1,537.4	3.4	0.9	-94.64	-2,852.7	-602.3	2,918.5	2,914.3	4.27	683.200	
1,600.0	1,597.5	1,562.2	1,562.2	3.5	0.9	-94.71	-2,852.6	-602.2	2,918.8	2,914.5	4.35	671.209	
1,673.2	1,669.4	1,633.3	1,633.2	3.7	0.9	-94.95	-2,852.5	-602.1	2,919.8	2,915.2	4.60	635.035	
1,700.2	1,695.8	1,659.1	1,659.1	3.8	0.9	-95.05	-2,852.5	-602.1	2,920.3	2,915.6	4.69	622.716	
1,771.6	1,765.7	1,730.8	1,730.7	4.1	1.0	-95.34	-2,852.4	-602.1	2,921.5	2,916.6	4.96	589.226	
1,800.0	1,793.4	1,761.1	1,761.1	4.2	1.0	-95.46	-2,852.3	-602.0	2,922.0	2,917.0	5.07	576.759	
1,870.1	1,862.0	1,831.6	1,831.6	4.4	1.0	-95.75	-2,852.0	-601.9	2,923.2	2,917.9	5.35	546.855	
1,900.0	1,891.2	1,859.6	1,859.6	4.5	1.0	-95.87	-2,852.0	-601.8	2,923.7	2,918.3	5.46	535.063	
1,968.5	1,958.3	1,926.4	1,926.4	4.8	1.0	-96.14	-2,851.8	-601.5	2,925.1	2,919.3	5.75	508.945	
2,000.0	1,989.1	1,959.2	1,959.2	4.9	1.0	-96.28	-2,851.7	-601.4	2,925.7	2,919.8	5.88	497.714	
2,066.9	2,054.5	2,023.7	2,023.6	5.2	1.0	-96.54	-2,851.5	-601.1	2,927.0	2,920.8	6.16	475.125	
2,100.0	2,086.9	2,051.8	2,051.8	5.3	1.0	-96.66	-2,851.4	-601.0	2,927.7	2,921.4	6.30	464.911	
2,165.3	2,150.8	2,108.5	2,108.4	5.6	1.0	-96.89	-2,851.4	-600.7	2,929.2	2,922.7	6.57	445.586	
2,200.0	2,184.7	2,142.0	2,141.9	5.7	1.0	-97.03	-2,851.5	-600.4	2,930.2	2,923.4	6.72	435.965	
2,263.8	2,247.1	2,203.5	2,203.4	6.0	1.0	-97.29	-2,851.6	-600.0	2,931.9	2,924.9	7.00	419.052	
2,300.0	2,282.5	2,237.1	2,237.0	6.1	1.1	-97.43	-2,851.6	-599.7	2,932.9	2,925.8	7.15	410.084	
2,362.2	2,343.3	2,294.9	2,294.8	6.4	1.1	-97.67	-2,851.8	-599.2	2,934.8	2,927.3	7.42	395.383	
2,400.0	2,380.3	2,326.2	2,326.2	6.6	1.1	-97.81	-2,852.0	-598.9	2,936.0	2,928.4	7.59	387.046	
2,460.6	2,439.6	2,375.4	2,375.4	6.8	1.1	-98.01	-2,852.3	-598.3	2,938.1	2,930.3	7.85	374.300	
2,500.0	2,478.1	2,400.0	2,399.9	7.0	1.1	-98.12	-2,852.6	-598.0	2,939.7	2,931.6	8.02	366.545	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,559.0	2,535.9	2,447.6	2,447.5	7.2	1.1	-98.33	-2,853.3	-597.4	2,942.2	2,934.0	8.28	355.418	
2,600.0	2,575.9	2,476.2	2,476.1	7.4	1.1	-98.45	-2,853.8	-597.0	2,944.3	2,935.8	8.46	348.151	
2,657.5	2,632.2	2,522.1	2,522.0	7.7	1.1	-98.65	-2,854.9	-596.4	2,947.4	2,938.7	8.71	338.392	
2,700.0	2,673.8	2,562.2	2,562.1	7.8	1.1	-98.82	-2,856.0	-595.9	2,949.8	2,940.9	8.90	331.522	
2,755.9	2,728.4	2,615.1	2,615.0	8.1	1.1	-99.04	-2,857.3	-595.3	2,953.0	2,943.8	9.15	322.882	
2,800.0	2,771.6	2,657.3	2,657.1	8.3	1.1	-99.22	-2,858.4	-594.8	2,955.6	2,946.2	9.34	316.413	
2,854.3	2,824.7	2,711.6	2,711.4	8.5	1.1	-99.46	-2,859.8	-594.1	2,958.8	2,949.2	9.58	308.767	
2,900.0	2,869.4	2,766.5	2,766.3	8.7	1.1	-99.69	-2,861.1	-593.5	2,961.5	2,951.7	9.79	302.607	
2,952.7	2,921.0	2,824.1	2,823.8	8.9	1.1	-99.93	-2,862.3	-592.8	2,964.4	2,954.4	10.02	295.776	
3,000.0	2,967.2	2,869.7	2,869.4	9.2	1.1	-100.12	-2,863.2	-592.3	2,967.1	2,956.9	10.23	289.941	
3,051.2	3,017.3	2,921.0	2,920.8	9.4	1.1	-100.34	-2,864.3	-591.7	2,970.0	2,959.6	10.46	283.861	
3,100.0	3,065.0	2,973.1	2,972.8	9.6	1.1	-100.56	-2,865.2	-591.2	2,972.8	2,962.1	10.68	278.295	
3,149.6	3,113.5	3,025.5	3,025.2	9.8	1.1	-100.77	-2,866.1	-590.8	2,975.6	2,964.7	10.91	272.852	
3,200.0	3,162.8	3,078.2	3,078.0	10.0	1.1	-100.99	-2,867.0	-590.4	2,978.4	2,967.2	11.13	267.548	
3,248.0	3,209.8	3,125.7	3,125.5	10.3	1.1	-101.18	-2,867.7	-590.1	2,981.0	2,969.7	11.35	262.681	
3,300.0	3,260.6	3,174.8	3,174.5	10.5	1.2	-101.38	-2,868.4	-589.8	2,984.0	2,972.4	11.58	257.630	
3,346.4	3,306.1	3,219.1	3,218.8	10.7	1.2	-101.56	-2,869.1	-589.6	2,986.6	2,974.8	11.79	253.279	
3,400.0	3,358.4	3,270.8	3,270.5	10.9	1.2	-101.76	-2,869.9	-589.5	2,989.8	2,977.7	12.03	248.453	
3,444.9	3,402.3	3,314.7	3,314.4	11.1	1.2	-101.94	-2,870.6	-589.5	2,992.5	2,980.2	12.24	244.550	
3,500.0	3,456.3	3,370.0	3,369.7	11.4	1.2	-102.15	-2,871.4	-589.5	2,995.8	2,983.3	12.49	239.929	
3,543.3	3,498.6	3,412.0	3,411.7	11.6	1.2	-102.32	-2,872.0	-589.6	2,998.4	2,985.7	12.68	236.424	
3,600.0	3,554.1	3,462.6	3,462.3	11.8	1.2	-102.51	-2,872.8	-589.8	3,001.9	2,988.9	12.94	232.010	
3,641.7	3,594.9	3,500.0	3,499.7	12.0	1.2	-102.65	-2,873.5	-590.2	3,004.5	2,991.4	13.13	228.872	
3,700.0	3,651.9	3,561.7	3,561.4	12.3	1.2	-102.88	-2,874.5	-590.9	3,008.3	2,994.9	13.39	224.620	
3,740.1	3,691.2	3,600.0	3,599.7	12.5	1.2	-103.01	-2,875.1	-591.4	3,010.9	2,997.3	13.58	221.789	
3,800.0	3,749.7	3,656.3	3,655.9	12.7	1.2	-103.22	-2,876.0	-592.3	3,014.7	3,000.9	13.85	217.709	
3,838.6	3,787.4	3,690.3	3,689.9	12.9	1.2	-103.34	-2,876.6	-592.9	3,017.3	3,003.3	14.02	215.172	
3,900.0	3,847.5	3,755.2	3,754.8	13.2	1.2	-103.56	-2,877.7	-594.0	3,021.5	3,007.2	14.30	211.249	
3,937.0	3,883.7	3,795.7	3,795.3	13.3	1.3	-103.71	-2,878.3	-594.8	3,024.0	3,009.5	14.47	208.954	
4,000.0	3,945.3	3,851.2	3,850.8	13.6	1.3	-103.90	-2,879.2	-595.9	3,028.2	3,013.4	14.76	205.188	
4,035.4	3,980.0	3,881.9	3,881.5	13.8	1.3	-104.01	-2,879.7	-596.5	3,030.7	3,015.7	14.92	203.140	
4,100.0	4,043.1	3,952.8	3,952.4	14.1	1.3	-104.26	-2,881.0	-597.7	3,035.2	3,020.0	15.21	199.510	
4,133.8	4,076.3	3,993.7	3,993.2	14.2	1.3	-104.40	-2,881.6	-598.1	3,037.5	3,022.1	15.37	197.655	
4,200.0	4,141.0	4,070.9	4,070.4	14.5	1.3	-104.69	-2,882.5	-598.3	3,041.8	3,026.2	15.66	194.196	
4,232.3	4,172.5	4,108.2	4,107.8	14.7	1.3	-104.84	-2,882.8	-598.0	3,043.9	3,028.0	15.81	192.551	
4,300.0	4,238.8	4,186.3	4,185.9	15.0	1.3	-105.15	-2,883.3	-597.0	3,048.0	3,031.9	16.11	189.162	
4,330.7	4,268.8	4,217.3	4,216.8	15.1	1.3	-105.28	-2,883.4	-596.6	3,049.8	3,033.5	16.25	187.665	
4,400.0	4,336.6	4,280.7	4,280.3	15.4	1.3	-105.54	-2,883.7	-595.6	3,054.0	3,037.4	16.56	184.386	
4,429.1	4,365.1	4,308.6	4,308.1	15.6	1.3	-105.65	-2,883.8	-595.2	3,055.8	3,039.1	16.69	183.047	
4,500.0	4,434.4	4,383.6	4,383.1	15.9	1.4	-105.95	-2,884.1	-594.0	3,060.2	3,043.2	17.01	179.875	
4,527.5	4,461.3	4,412.6	4,412.1	16.0	1.4	-106.07	-2,884.2	-593.6	3,061.9	3,044.7	17.14	178.676	
4,600.0	4,532.2	4,488.4	4,487.9	16.4	1.4	-106.37	-2,884.3	-592.4	3,066.3	3,048.8	17.46	175.609	
4,626.0	4,557.6	4,511.5	4,511.0	16.5	1.4	-106.47	-2,884.3	-592.1	3,067.9	3,050.3	17.58	174.539	
4,700.0	4,630.0	4,568.6	4,568.0	16.8	1.4	-106.69	-2,884.5	-591.4	3,072.7	3,054.8	17.91	171.583	
4,724.4	4,653.9	4,587.4	4,586.8	16.9	1.4	-106.77	-2,884.7	-591.2	3,074.4	3,056.3	18.02	170.638	
4,800.0	4,727.8	4,664.3	4,663.8	17.3	1.4	-107.07	-2,885.3	-590.2	3,079.7	3,061.3	18.36	167.781	
4,822.8	4,750.2	4,689.1	4,688.5	17.4	1.4	-107.17	-2,885.5	-589.8	3,081.3	3,062.8	18.46	166.938	
4,900.0	4,825.6	4,760.3	4,759.8	17.7	1.4	-107.45	-2,885.9	-588.7	3,086.7	3,067.9	18.80	164.170	
4,921.2	4,846.4	4,779.4	4,778.9	17.8	1.4	-107.53	-2,886.1	-588.4	3,088.2	3,069.3	18.90	163.429	
5,000.0	4,923.5	4,843.4	4,842.9	18.2	1.4	-107.78	-2,886.7	-587.3	3,094.1	3,074.9	19.25	160.751	
5,019.7	4,942.7	4,858.7	4,858.1	18.3	1.4	-107.84	-2,886.9	-587.0	3,095.7	3,076.3	19.34	160.101	
5,100.0	5,021.3	4,917.5	4,916.9	18.6	1.4	-108.08	-2,887.8	-585.8	3,102.3	3,082.6	19.69	157.523	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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		
5,118.1	5,039.0	4,929.2	4,928.6	18.7	1.4	-108.13	-2,888.0	-585.6	3,103.9	3,084.1	19.78	156.958		
5,200.0	5,119.1	4,982.1	4,981.5	19.1	1.5	-108.34	-2,889.3	-584.4	3,111.5	3,091.4	20.14	154.486		
5,216.5	5,135.3	5,000.0	4,999.4	19.2	1.5	-108.41	-2,889.9	-584.0	3,113.2	3,092.9	20.22	154.001		
5,300.0	5,216.9	5,070.3	5,069.6	19.6	1.5	-108.70	-2,892.2	-582.3	3,121.6	3,101.1	20.59	151.622		
5,314.9	5,231.5	5,084.8	5,084.1	19.6	1.5	-108.76	-2,892.7	-582.0	3,123.2	3,102.5	20.66	151.205		
5,400.0	5,314.7	5,176.3	5,175.5	20.0	1.5	-109.12	-2,895.5	-580.1	3,131.9	3,110.8	21.03	148.902		
5,413.4	5,327.8	5,191.0	5,190.2	20.1	1.5	-109.17	-2,896.0	-579.8	3,133.2	3,112.1	21.09	148.547		
5,500.0	5,412.5	5,296.6	5,295.8	20.5	1.5	-109.57	-2,898.8	-578.7	3,141.7	3,120.3	21.48	146.289		
5,511.8	5,424.1	5,314.3	5,313.5	20.5	1.5	-109.64	-2,899.2	-578.5	3,142.8	3,121.3	21.53	145.986		
5,600.0	5,510.3	5,439.8	5,438.9	20.9	1.6	-110.09	-2,901.0	-577.9	3,150.5	3,128.6	21.92	143.743		
5,610.2	5,520.3	5,451.6	5,450.7	21.0	1.6	-110.14	-2,901.1	-577.9	3,151.3	3,129.4	21.96	143.486		
5,700.0	5,608.2	5,569.8	5,569.0	21.4	1.6	-110.56	-2,901.6	-577.5	3,158.4	3,136.1	22.35	141.323		
5,708.6	5,616.6	5,582.5	5,581.6	21.4	1.6	-110.61	-2,901.6	-577.4	3,159.0	3,136.7	22.39	141.122		
5,729.2	5,636.7	5,611.7	5,610.9	21.5	1.6	-110.72	-2,901.5	-577.1	3,160.5	3,138.0	22.47	140.645		
5,800.0	5,706.1	5,706.8	5,705.9	21.8	1.6	-111.15	-2,900.4	-575.4	3,164.9	3,142.2	22.71	139.391		
5,807.1	5,713.1	5,713.5	5,712.6	21.8	1.6	-111.18	-2,900.3	-575.2	3,165.3	3,142.5	22.72	139.300		
5,900.0	5,804.7	5,801.9	5,801.0	22.1	1.6	-111.55	-2,899.0	-573.0	3,169.7	3,146.8	22.95	138.090		
5,905.5	5,810.2	5,807.6	5,806.6	22.1	1.6	-111.57	-2,898.9	-572.8	3,170.0	3,147.0	22.97	138.029		
6,000.0	5,903.9	5,900.0	5,899.0	22.3	1.6	-111.89	-2,897.5	-570.1	3,173.4	3,150.3	23.17	136.958		
6,003.9	5,907.8	5,900.0	5,899.0	22.4	1.6	-111.90	-2,897.5	-570.1	3,173.6	3,150.4	23.18	136.920		
6,100.0	6,003.4	5,985.2	5,984.1	22.6	1.6	-112.13	-2,896.3	-567.6	3,176.1	3,152.7	23.36	135.983		
6,102.3	6,005.7	5,987.1	5,986.1	22.6	1.6	-112.14	-2,896.3	-567.5	3,176.2	3,152.8	23.36	135.965		
6,200.0	6,103.2	6,057.2	6,056.2	22.7	1.7	-112.29	-2,895.9	-565.4	3,178.2	3,154.7	23.51	135.169		
6,200.8	6,104.0	6,057.8	6,056.7	22.7	1.7	-112.29	-2,895.9	-565.3	3,178.2	3,154.7	23.51	135.165		
6,299.2	6,202.3	6,134.7	6,133.6	22.9	1.7	-112.40	-2,896.1	-562.8	3,179.8	3,156.2	23.64	134.520		
6,300.0	6,203.1	6,135.4	6,134.3	22.9	1.7	-112.40	-2,896.1	-562.8	3,179.8	3,156.2	23.64	134.514		
6,329.4	6,232.5	6,162.2	6,161.1	22.9	1.7	173.41	-2,896.2	-561.8	3,180.1	3,156.5	23.66	134.436		
6,397.6	6,300.8	6,227.4	6,226.2	23.0	1.7	173.37	-2,896.6	-559.3	3,180.8	3,157.1	23.75	133.952		
6,400.0	6,303.1	6,229.8	6,228.6	23.0	1.7	173.36	-2,896.6	-559.2	3,180.9	3,157.1	23.75	133.935		
6,449.4	6,352.5	6,280.4	6,279.1	23.1	1.7	173.33	-2,896.9	-557.0	3,181.4	3,157.5	23.82	133.552		
6,496.0	6,399.2	6,318.4	6,317.1	23.1	1.7	-6.93	-2,897.1	-555.3	3,180.4	3,156.5	23.85	133.335		
6,500.0	6,403.1	6,321.0	6,319.8	23.1	1.7	-6.93	-2,897.1	-555.2	3,180.1	3,156.3	23.85	133.317		
6,550.0	6,452.8	6,354.3	6,353.0	23.1	1.7	-7.01	-2,897.4	-553.7	3,175.7	3,151.8	23.87	133.035		
6,594.5	6,496.6	6,400.0	6,398.7	23.2	1.7	-7.13	-2,898.2	-551.5	3,169.1	3,145.3	23.88	132.718		
6,600.0	6,502.0	6,400.0	6,398.7	23.2	1.7	-7.14	-2,898.2	-551.5	3,168.1	3,144.2	23.88	132.685		
6,650.0	6,550.5	6,420.6	6,419.2	23.2	1.7	-7.28	-2,898.6	-550.5	3,157.3	3,133.5	23.84	132.431		
6,692.9	6,591.4	6,449.1	6,447.7	23.2	1.7	-7.45	-2,899.3	-549.1	3,145.6	3,121.8	23.77	132.343		
6,700.0	6,598.0	6,453.8	6,452.3	23.2	1.7	-7.48	-2,899.5	-548.9	3,143.4	3,119.6	23.75	132.346		
6,750.0	6,644.4	6,500.0	6,498.5	23.2	1.8	-7.76	-2,900.9	-546.6	3,126.5	3,102.9	23.60	132.481		
6,791.3	6,681.6	6,517.4	6,515.8	23.2	1.8	-7.99	-2,901.5	-545.7	3,110.1	3,086.7	23.41	132.838		
6,800.0	6,689.3	6,524.8	6,523.3	23.2	1.8	-8.06	-2,901.7	-545.4	3,106.4	3,083.1	23.37	132.932		
6,850.0	6,732.6	6,567.1	6,565.4	23.2	1.8	-8.46	-2,903.1	-543.0	3,083.4	3,060.3	23.07	133.648		
6,889.7	6,765.7	6,600.0	6,598.3	23.2	1.8	-8.85	-2,904.2	-541.0	3,062.9	3,040.1	22.78	134.444		
6,900.0	6,774.0	6,609.1	6,607.4	23.2	1.8	-8.96	-2,904.6	-540.5	3,057.3	3,034.6	22.70	134.683		
6,950.0	6,813.3	6,655.2	6,653.3	23.2	1.8	-9.59	-2,906.0	-537.4	3,028.4	3,006.1	22.26	136.022		
6,988.2	6,841.9	6,688.5	6,686.6	23.2	1.8	-10.16	-2,907.0	-535.0	3,004.4	2,982.5	21.89	137.270		
7,000.0	6,850.5	6,698.5	6,696.6	23.2	1.8	-10.36	-2,907.3	-534.2	2,996.7	2,974.9	21.76	137.709		
7,050.0	6,885.2	6,733.5	6,731.4	23.2	1.8	-11.26	-2,908.2	-531.5	2,962.3	2,941.1	21.19	139.775		
7,086.6	6,908.9	6,757.3	6,755.1	23.2	1.8	-12.04	-2,908.9	-529.6	2,935.7	2,914.9	20.75	141.480		
7,100.0	6,917.3	6,765.7	6,763.5	23.2	1.8	-12.36	-2,909.1	-528.9	2,925.6	2,905.1	20.58	142.181		
7,150.0	6,946.6	6,795.3	6,792.9	23.2	1.8	-13.72	-2,909.9	-526.3	2,886.7	2,866.8	19.93	144.876		
7,185.0	6,965.5	6,812.8	6,810.3	23.3	1.8	-14.86	-2,910.4	-524.7	2,858.3	2,838.8	19.45	146.960		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - FRY PM C 18-4 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,200.0	6,973.1	6,819.6	6,817.2	23.3	1.8	-15.40	-2,910.6	-524.1	2,845.8	2,826.6	19.26	147.766	
7,250.0	6,996.5	6,841.0	6,838.4	23.3	1.9	-17.54	-2,911.2	-522.2	2,803.2	2,784.5	18.61	150.619	
7,283.4	7,010.4	6,853.8	6,851.2	23.4	1.9	-19.32	-2,911.5	-521.0	2,773.7	2,755.5	18.21	152.317	
7,300.0	7,016.8	6,859.7	6,857.1	23.4	1.9	-20.33	-2,911.7	-520.4	2,758.9	2,740.9	18.03	153.019	
7,350.0	7,033.8	6,875.8	6,873.1	23.5	1.9	-24.07	-2,912.2	-519.0	2,713.2	2,695.6	17.59	154.236	
7,381.9	7,043.0	6,884.5	6,881.8	23.6	1.9	-27.17	-2,912.4	-518.2	2,683.5	2,666.1	17.44	153.864	
7,400.0	7,047.6	6,889.0	6,886.2	23.6	1.9	-29.27	-2,912.6	-517.7	2,666.4	2,649.0	17.42	153.101	
7,450.0	7,057.9	6,900.0	6,897.2	23.8	1.9	-36.80	-2,912.9	-516.7	2,618.7	2,601.0	17.67	148.159	
7,480.3	7,062.5	6,905.9	6,903.0	23.9	1.9	-43.10	-2,913.1	-516.2	2,589.3	2,571.2	18.12	142.912	
7,500.0	7,064.8	6,909.4	6,906.6	24.0	1.9	-48.13	-2,913.2	-515.8	2,570.2	2,551.7	18.52	138.775	
7,550.0	7,068.3	6,915.5	6,912.6	24.2	1.9	-64.85	-2,913.4	-515.3	2,521.2	2,501.4	19.75	127.628	
7,578.7	7,068.7	6,917.0	6,914.1	24.4	1.9	-76.94	-2,913.4	-515.1	2,492.9	2,472.5	20.39	122.241	
7,578.9	7,068.7	6,917.0	6,914.1	24.4	1.9	-77.01	-2,913.4	-515.1	2,492.8	2,472.4	20.40	122.216	
7,600.0	7,068.6	6,917.6	6,914.7	24.5	1.9	-77.09	-2,913.5	-515.1	2,472.0	2,451.4	20.60	120.006	
7,677.1	7,068.1	6,919.8	6,916.9	25.1	1.9	-77.37	-2,913.5	-514.9	2,396.1	2,374.8	21.32	112.391	
7,700.0	7,067.9	6,920.5	6,917.5	25.2	1.9	-77.46	-2,913.5	-514.8	2,373.6	2,352.1	21.53	110.232	
7,775.6	7,067.4	6,922.6	6,919.6	25.9	1.9	-77.73	-2,913.6	-514.6	2,299.4	2,277.0	22.33	102.956	
7,800.0	7,067.3	6,923.2	6,920.3	26.1	1.9	-77.82	-2,913.6	-514.5	2,275.4	2,252.8	22.59	100.714	
7,874.0	7,066.8	6,925.3	6,922.3	26.8	1.9	-78.09	-2,913.7	-514.3	2,202.8	2,179.2	23.53	93.626	
7,900.0	7,066.7	6,926.0	6,923.0	27.0	1.9	-78.18	-2,913.7	-514.3	2,177.3	2,153.4	23.86	91.267	
7,972.4	7,066.2	6,927.9	6,925.0	27.8	1.9	-78.44	-2,913.8	-514.1	2,106.4	2,081.5	24.84	84.809	
8,000.0	7,066.0	6,928.7	6,925.7	28.1	1.9	-78.53	-2,913.8	-514.0	2,079.4	2,054.2	25.21	82.483	
8,070.8	7,065.6	6,930.5	6,927.6	28.9	1.9	-78.78	-2,913.8	-513.8	2,010.1	1,983.9	26.22	76.657	
8,100.0	7,065.4	6,931.3	6,928.3	29.3	1.9	-78.88	-2,913.9	-513.8	1,981.7	1,955.0	26.64	74.390	
8,169.3	7,065.0	6,933.1	6,930.1	30.2	1.9	-79.12	-2,913.9	-513.6	1,914.1	1,886.5	27.67	69.170	
8,200.0	7,064.8	6,933.9	6,930.9	30.6	1.9	-79.22	-2,913.9	-513.5	1,884.2	1,856.1	28.13	66.979	
8,267.7	7,064.4	6,935.6	6,932.6	31.5	1.9	-79.45	-2,914.0	-513.4	1,818.4	1,789.2	29.18	62.320	
8,300.0	7,064.2	6,936.5	6,933.4	31.9	1.9	-79.56	-2,914.0	-513.3	1,787.0	1,757.4	29.68	60.215	
8,366.1	7,063.7	6,938.1	6,935.1	32.8	1.9	-79.78	-2,914.1	-513.1	1,722.9	1,692.2	30.73	56.067	
8,400.0	7,063.5	6,939.0	6,935.9	33.3	1.9	-79.89	-2,914.1	-513.1	1,690.2	1,658.9	31.27	54.052	
8,464.5	7,063.1	6,940.6	6,937.5	34.2	1.9	-80.10	-2,914.1	-512.9	1,627.8	1,595.5	32.32	50.365	
8,500.0	7,062.9	6,941.4	6,938.4	34.8	1.9	-80.22	-2,914.1	-512.8	1,593.7	1,560.8	32.90	48.442	
8,563.0	7,062.5	6,943.0	6,939.9	35.7	1.9	-80.42	-2,914.2	-512.7	1,533.2	1,499.2	33.95	45.164	
8,600.0	7,062.3	6,943.9	6,940.8	36.3	1.9	-80.54	-2,914.2	-512.6	1,497.7	1,463.1	34.56	43.333	
8,661.4	7,061.9	6,945.3	6,942.3	37.2	1.9	-80.74	-2,914.3	-512.5	1,439.0	1,403.4	35.60	40.420	
8,700.0	7,061.6	6,946.3	6,943.2	37.8	1.9	-80.86	-2,914.3	-512.4	1,402.2	1,366.0	36.25	38.678	
8,759.8	7,061.3	6,947.7	6,944.6	38.8	1.9	-81.04	-2,914.3	-512.2	1,345.4	1,308.1	37.28	36.089	
8,800.0	7,061.0	6,948.6	6,945.5	39.4	1.9	-81.17	-2,914.3	-512.2	1,307.4	1,269.5	37.97	34.433	
8,858.2	7,060.6	6,950.0	6,946.9	40.3	1.9	-81.35	-2,914.4	-512.0	1,252.6	1,213.6	38.98	32.132	
8,900.0	7,060.4	6,950.9	6,947.8	41.0	1.9	-81.48	-2,914.4	-511.9	1,213.5	1,173.8	39.71	30.560	
8,956.7	7,060.0	6,952.2	6,949.1	41.9	1.9	-81.65	-2,914.4	-511.8	1,160.7	1,120.0	40.70	28.516	
9,000.0	7,059.8	6,953.2	6,950.1	42.6	1.9	-81.78	-2,914.5	-511.7	1,120.6	1,079.1	41.46	27.025	
9,055.1	7,059.4	6,954.5	6,951.4	43.6	1.9	-81.94	-2,914.5	-511.6	1,069.9	1,027.5	42.44	25.209	
9,100.0	7,059.1	6,955.5	6,952.3	44.3	1.9	-82.08	-2,914.5	-511.5	1,029.0	985.7	43.24	23.798	
9,153.5	7,058.8	6,956.6	6,953.5	45.2	1.9	-82.23	-2,914.6	-511.4	980.6	936.4	44.19	22.189	
9,200.0	7,058.5	6,957.7	6,954.5	46.0	1.9	-82.37	-2,914.6	-511.3	939.1	894.1	45.02	20.857	
9,251.9	7,058.2	6,958.8	6,955.7	46.9	1.9	-82.52	-2,914.6	-511.2	893.3	847.3	45.96	19.436	
9,300.0	7,057.9	6,959.8	6,956.7	47.7	1.9	-82.66	-2,914.7	-511.1	851.5	804.7	46.82	18.184	
9,350.4	7,057.6	6,960.9	6,957.8	48.6	1.9	-82.80	-2,914.7	-511.0	808.4	760.7	47.74	16.935	
9,400.0	7,057.2	6,962.0	6,958.8	49.4	1.9	-82.94	-2,914.7	-510.9	766.9	718.3	48.64	15.768	
9,448.8	7,056.9	6,963.0	6,959.9	50.3	1.9	-83.08	-2,914.7	-510.8	727.0	677.5	49.53	14.680	
9,500.0	7,056.6	6,964.1	6,960.9	51.1	1.9	-83.22	-2,914.8	-510.7	686.5	636.0	50.46	13.604	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,547.2	7,056.3	6,965.1	6,961.9	52.0	1.9	-83.36	-2,914.8	-510.6	650.4	599.0	51.32	12.672	
9,600.0	7,056.0	6,966.2	6,963.0	52.9	1.9	-83.50	-2,914.8	-510.5	611.8	559.5	52.29	11.700	
9,645.6	7,055.7	6,967.1	6,963.9	53.7	1.9	-83.63	-2,914.9	-510.4	580.3	527.1	53.13	10.922	
9,700.0	7,055.4	6,968.2	6,965.0	54.6	1.9	-83.77	-2,914.9	-510.3	545.3	491.2	54.13	10.074	
9,744.1	7,055.1	6,969.1	6,965.9	55.4	1.9	-83.89	-2,914.9	-510.3	519.4	464.5	54.94	9.454	
9,800.0	7,054.7	6,970.2	6,967.1	56.4	1.9	-84.04	-2,914.9	-510.1	490.4	434.4	55.98	8.760	
9,842.5	7,054.5	6,971.1	6,967.9	57.2	1.9	-84.15	-2,915.0	-510.1	471.5	414.7	56.76	8.306	
9,900.0	7,054.1	6,972.2	6,969.0	58.2	1.9	-84.30	-2,915.0	-510.0	451.1	393.3	57.83	7.801	
9,940.9	7,053.8	6,973.0	6,969.8	58.9	1.9	-84.41	-2,915.0	-509.9	440.6	382.0	58.59	7.521	
10,000.0	7,053.5	6,974.2	6,971.0	60.0	1.9	-84.57	-2,915.0	-509.8	431.9	372.2	59.69	7.236	
10,034.8	7,053.3	6,974.8	6,971.6	60.6	1.9	-84.65	-2,915.1	-509.7	430.5	370.2	60.34	7.135 CC	
10,039.3	7,053.2	6,974.9	6,971.7	60.7	1.9	-84.67	-2,915.1	-509.7	430.6	370.1	60.42	7.126 ES	
10,100.0	7,052.8	6,976.1	6,972.9	61.8	1.9	-84.82	-2,915.1	-509.6	435.4	373.9	61.55	7.074 SF	
10,137.8	7,052.6	6,976.8	6,973.6	62.4	1.9	-84.92	-2,915.1	-509.5	442.7	380.4	62.26	7.110	
10,200.0	7,052.2	6,978.0	6,974.8	63.6	1.9	-85.07	-2,915.1	-509.4	461.1	397.7	63.42	7.271	
10,236.2	7,052.0	6,978.7	6,975.5	64.2	1.9	-85.17	-2,915.2	-509.4	475.3	411.2	64.10	7.415	
10,300.0	7,051.6	6,979.9	6,976.7	65.4	1.9	-85.32	-2,915.2	-509.3	505.6	440.4	65.30	7.744	
10,334.6	7,051.4	6,980.5	6,977.3	66.0	1.9	-85.41	-2,915.2	-509.2	524.6	458.7	65.95	7.955	
10,400.0	7,051.0	6,981.7	6,978.5	67.2	1.9	-85.57	-2,915.2	-509.1	564.5	497.4	67.17	8.404	
10,433.0	7,050.7	6,982.3	6,979.1	67.8	1.9	-85.65	-2,915.2	-509.0	586.5	518.7	67.80	8.650	
10,500.0	7,050.3	6,983.5	6,980.3	69.0	1.9	-85.81	-2,915.3	-508.9	633.8	564.8	69.06	9.178	
10,531.5	7,050.1	6,984.1	6,980.9	69.6	1.9	-85.89	-2,915.3	-508.9	657.3	587.6	69.65	9.437	
10,600.0	7,049.7	6,985.3	6,982.1	70.8	1.9	-86.05	-2,915.3	-508.7	710.4	639.5	70.94	10.015	
10,629.9	7,049.5	6,985.9	6,982.6	71.4	1.9	-86.12	-2,915.3	-508.7	734.5	662.9	71.50	10.271	
10,700.0	7,049.1	6,987.1	6,983.8	72.7	1.9	-86.29	-2,915.4	-508.6	792.3	719.5	72.83	10.879	
10,728.3	7,048.9	6,987.6	6,984.3	73.2	1.9	-86.35	-2,915.4	-508.5	816.2	742.9	73.36	11.126	
10,800.0	7,048.4	6,988.8	6,985.6	74.5	1.9	-86.52	-2,915.4	-508.4	877.9	803.2	74.72	11.750	
10,826.7	7,048.3	6,989.3	6,986.0	75.0	1.9	-86.58	-2,915.4	-508.4	901.3	826.1	75.22	11.982	
10,900.0	7,047.8	6,990.6	6,987.3	76.3	1.9	-86.75	-2,915.4	-508.3	966.3	889.7	76.61	12.613	
10,925.2	7,047.7	6,991.0	6,987.7	76.8	1.9	-86.80	-2,915.5	-508.2	988.9	911.8	77.09	12.828	
11,000.0	7,047.2	6,992.3	6,989.0	78.2	1.9	-86.97	-2,915.5	-508.1	1,056.7	978.2	78.51	13.461	
11,023.6	7,047.0	6,992.7	6,989.4	78.6	1.9	-87.03	-2,915.5	-508.1	1,078.3	999.4	78.95	13.658	
11,100.0	7,046.6	6,993.9	6,990.7	80.0	1.9	-87.19	-2,915.5	-507.9	1,148.8	1,068.4	80.40	14.288	
11,122.0	7,046.4	6,994.3	6,991.0	80.4	1.9	-87.24	-2,915.5	-507.9	1,169.2	1,088.4	80.82	14.467	
11,200.0	7,045.9	6,995.6	6,992.3	81.9	1.9	-87.41	-2,915.6	-507.8	1,242.0	1,159.7	82.30	15.092	
11,220.4	7,045.8	6,995.9	6,992.6	82.3	1.9	-87.46	-2,915.6	-507.8	1,261.2	1,178.6	82.69	15.253	
11,300.0	7,045.3	7,000.0	6,996.7	83.7	1.9	-88.00	-2,915.7	-507.4	1,336.3	1,252.0	84.23	15.864	
11,318.9	7,045.2	7,000.0	6,996.7	84.1	1.9	-88.00	-2,915.7	-507.4	1,354.2	1,269.6	84.59	16.009	
11,400.0	7,044.7	7,000.0	6,996.7	85.6	1.9	-88.00	-2,915.7	-507.4	1,431.3	1,345.2	86.12	16.620	
11,417.3	7,044.6	7,000.0	6,996.7	85.9	1.9	-88.00	-2,915.7	-507.4	1,447.8	1,361.4	86.44	16.749	
11,500.0	7,044.0	7,000.0	6,996.7	87.5	1.9	-88.00	-2,915.7	-507.4	1,526.9	1,438.9	88.00	17.352	
11,515.7	7,043.9	7,000.0	6,996.7	87.7	1.9	-88.00	-2,915.7	-507.4	1,542.0	1,453.7	88.30	17.464	
11,600.0	7,043.4	7,000.0	6,996.7	89.3	1.9	-88.00	-2,915.7	-507.4	1,623.1	1,533.2	89.88	18.058	
11,614.1	7,043.3	7,000.0	6,996.7	89.6	1.9	-88.00	-2,915.7	-507.4	1,636.8	1,546.6	90.15	18.156	
11,700.0	7,042.8	7,000.0	6,996.7	91.2	1.9	-88.00	-2,915.7	-507.4	1,719.7	1,628.0	91.77	18.740	
11,712.6	7,042.7	7,000.0	6,996.7	91.4	1.9	-88.00	-2,915.7	-507.4	1,731.9	1,639.9	92.01	18.824	
11,800.0	7,042.2	7,000.0	6,996.7	93.0	1.9	-88.00	-2,915.7	-507.4	1,816.7	1,723.1	93.66	19.397	
11,811.0	7,042.1	7,000.0	6,996.7	93.2	1.9	-88.00	-2,915.7	-507.4	1,827.4	1,733.5	93.86	19.468	
11,900.0	7,041.5	7,000.0	6,996.7	94.9	1.9	-88.00	-2,915.7	-507.4	1,914.0	1,818.5	95.55	20.032	
11,909.4	7,041.5	7,000.0	6,996.7	95.1	1.9	-88.00	-2,915.7	-507.4	1,923.2	1,827.5	95.72	20.091	
12,000.0	7,040.9	7,000.0	6,996.7	96.8	1.9	-88.00	-2,915.7	-507.4	2,011.6	1,914.1	97.44	20.645	
12,007.8	7,040.8	7,000.0	6,996.7	96.9	1.9	-88.00	-2,915.7	-507.4	2,019.2	1,921.6	97.58	20.692	

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

Anticollision Report



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Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,100.0	7,040.3	7,000.0	6,996.7	98.7	1.9	-88.00	-2,915.7	-507.4	2,109.3	2,010.0	99.33	21.236	
12,106.3	7,040.2	7,000.0	6,996.7	98.8	1.9	-88.00	-2,915.7	-507.4	2,115.5	2,016.0	99.45	21.273	
12,200.0	7,039.6	7,000.0	6,996.7	100.5	1.9	-88.00	-2,915.7	-507.4	2,207.3	2,106.1	101.22	21.807	
12,204.7	7,039.6	7,000.0	6,996.7	100.6	1.9	-88.00	-2,915.7	-507.4	2,211.9	2,110.6	101.31	21.834	
12,300.0	7,039.0	7,000.0	6,996.7	102.4	1.9	-88.00	-2,915.7	-507.4	2,305.5	2,202.4	103.11	22.359	
12,303.1	7,039.0	7,000.0	6,996.7	102.5	1.9	-88.00	-2,915.7	-507.4	2,308.5	2,205.4	103.17	22.376	
12,400.0	7,038.4	7,000.0	6,996.7	104.3	1.9	-88.00	-2,915.7	-507.4	2,403.8	2,298.8	105.01	22.892	
12,401.5	7,038.4	7,000.0	6,996.7	104.3	1.9	-88.00	-2,915.7	-507.4	2,405.3	2,300.3	105.03	22.900	
12,500.0	7,037.8	7,000.0	6,996.7	106.2	1.9	-88.00	-2,915.7	-507.4	2,502.2	2,395.3	106.90	23.407	
12,598.4	7,037.1	7,000.0	6,996.7	108.0	1.9	-88.00	-2,915.7	-507.4	2,599.2	2,490.4	108.77	23.897	
12,600.0	7,037.1	7,000.0	6,996.7	108.0	1.9	-88.00	-2,915.7	-507.4	2,600.8	2,492.0	108.80	23.905	
12,696.8	7,036.5	7,000.0	6,996.7	109.9	1.9	-88.00	-2,915.7	-507.4	2,696.3	2,585.7	110.63	24.372	
12,700.0	7,036.5	7,000.0	6,996.7	109.9	1.9	-88.00	-2,915.7	-507.4	2,699.5	2,588.8	110.69	24.387	
12,795.2	7,035.9	7,000.0	6,996.7	111.7	1.9	-88.00	-2,915.7	-507.4	2,793.5	2,681.0	112.50	24.831	
12,800.0	7,035.9	7,000.0	6,996.7	111.8	1.9	-88.00	-2,915.7	-507.4	2,798.2	2,685.6	112.59	24.853	
12,893.7	7,035.3	7,000.0	6,996.7	113.6	1.9	-88.00	-2,915.7	-507.4	2,890.8	2,776.4	114.37	25.276	
12,900.0	7,035.2	7,000.0	6,996.7	113.7	1.9	-88.00	-2,915.7	-507.4	2,897.1	2,782.6	114.49	25.305	
12,992.1	7,034.7	7,000.0	6,996.7	115.4	1.9	-88.00	-2,915.7	-507.4	2,988.2	2,871.9	116.24	25.708	
13,000.0	7,034.6	7,000.0	6,996.7	115.6	1.9	-88.00	-2,915.7	-507.4	2,996.0	2,879.6	116.39	25.742	
13,090.5	7,034.0	7,000.0	6,996.7	117.3	1.9	-88.00	-2,915.7	-507.4	3,085.6	2,967.5	118.11	26.126	
13,100.0	7,034.0	7,000.0	6,996.7	117.5	1.9	-88.00	-2,915.7	-507.4	3,095.0	2,976.7	118.29	26.165	
13,188.9	7,033.4	7,000.0	6,996.7	119.1	1.9	-88.00	-2,915.7	-507.4	3,183.1	3,063.1	119.98	26.531	
13,200.0	7,033.4	7,000.0	6,996.7	119.3	1.9	-88.00	-2,915.7	-507.4	3,194.0	3,073.8	120.19	26.576	
13,287.4	7,032.8	7,000.0	6,996.7	121.0	1.9	-88.00	-2,915.7	-507.4	3,280.6	3,158.8	121.85	26.924	
13,300.0	7,032.7	7,000.0	6,996.7	121.2	1.9	-88.00	-2,915.7	-507.4	3,293.1	3,171.1	122.09	26.974	
13,385.8	7,032.2	7,000.0	6,996.7	122.9	1.9	-88.00	-2,915.7	-507.4	3,378.2	3,254.5	123.72	27.306	
13,400.0	7,032.1	7,000.0	6,996.7	123.1	1.9	-88.00	-2,915.7	-507.4	3,392.3	3,268.3	123.99	27.360	
13,484.2	7,031.6	7,000.0	6,996.7	124.7	1.9	-88.00	-2,915.7	-507.4	3,475.9	3,350.3	125.59	27.676	
13,500.0	7,031.5	7,000.0	6,996.7	125.0	1.9	-88.00	-2,915.7	-507.4	3,491.5	3,365.6	125.89	27.735	
13,582.6	7,030.9	7,000.0	6,996.7	126.6	1.9	-88.00	-2,915.7	-507.4	3,573.6	3,446.1	127.46	28.036	
13,600.0	7,030.8	7,000.0	6,996.7	126.9	1.9	-88.00	-2,915.7	-507.4	3,590.8	3,463.0	127.79	28.099	
13,681.1	7,030.3	7,000.0	6,996.7	128.4	1.9	-88.00	-2,915.7	-507.4	3,671.3	3,541.9	129.33	28.386	
13,700.0	7,030.2	7,000.0	6,996.7	128.8	1.9	-88.00	-2,915.7	-507.4	3,690.1	3,560.4	129.69	28.452	
13,779.5	7,029.7	7,000.0	6,996.7	130.3	1.9	-88.00	-2,915.7	-507.4	3,769.0	3,637.8	131.21	28.726	
13,800.0	7,029.6	7,000.0	6,996.7	130.7	1.9	-88.00	-2,915.7	-507.4	3,789.4	3,657.8	131.60	28.795	
13,877.9	7,029.1	7,000.0	6,996.7	132.2	1.9	-88.00	-2,915.7	-507.4	3,866.8	3,733.8	133.08	29.056	
13,900.0	7,029.0	7,000.0	6,996.7	132.6	1.9	-88.00	-2,915.7	-507.4	3,888.8	3,755.3	133.50	29.129	
13,976.3	7,028.5	7,000.0	6,996.7	134.0	1.9	-88.00	-2,915.7	-507.4	3,964.7	3,829.7	134.95	29.378	
14,000.0	7,028.3	7,000.0	6,996.7	134.5	1.9	-88.00	-2,915.7	-507.4	3,988.2	3,852.8	135.40	29.454	
14,074.8	7,027.9	7,000.0	6,996.7	135.9	1.9	-88.00	-2,915.7	-507.4	4,062.5	3,925.7	136.83	29.690	
14,100.0	7,027.7	7,000.0	6,996.7	136.4	1.9	-88.00	-2,915.7	-507.4	4,087.6	3,950.3	137.31	29.769	
14,173.2	7,027.2	7,000.0	6,996.7	137.8	1.9	-88.00	-2,915.7	-507.4	4,160.4	4,021.7	138.70	29.995	
14,200.0	7,027.1	7,000.0	6,996.7	138.3	1.9	-88.00	-2,915.7	-507.4	4,187.1	4,047.8	139.21	30.076	
14,210.5	7,027.0	7,000.0	6,996.7	138.5	1.9	-88.00	-2,915.7	-507.4	4,197.5	4,058.1	139.41	30.108	

Anticollision Report



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Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	-103.66	-193.1	-794.7	818.0				
98.4	98.4	77.7	77.7	0.1	0.1	-103.65	-193.0	-794.7	817.8	817.6	0.18	4,621.248	
100.0	100.0	79.2	79.2	0.1	0.1	-103.65	-193.0	-794.7	817.8	817.6	0.18	4,533.690	
196.8	196.8	175.8	175.8	0.3	0.2	-103.65	-192.9	-794.8	817.8	817.3	0.50	1,637.688	
200.0	200.0	178.9	178.9	0.3	0.2	-103.64	-192.9	-794.8	817.8	817.3	0.51	1,604.360	
295.3	295.3	273.9	273.9	0.5	0.3	-103.63	-192.7	-794.9	817.9	817.1	0.82	993.136	
300.0	300.0	278.6	278.6	0.5	0.3	-103.63	-192.7	-794.9	817.9	817.1	0.84	974.723	
393.7	393.7	372.0	372.0	0.8	0.4	-103.61	-192.5	-795.1	818.1	816.9	1.15	712.731	
400.0	400.0	378.3	378.3	0.8	0.4	-103.61	-192.4	-795.1	818.1	816.9	1.17	700.082	
492.1	492.1	470.1	470.1	1.0	0.5	-103.58	-192.1	-795.3	818.2	816.7	1.47	555.867	
500.0	500.0	478.0	477.9	1.0	0.5	-103.58	-192.1	-795.4	818.2	816.7	1.50	546.251	
590.5	590.5	568.2	568.2	1.2	0.6	-103.54	-191.6	-795.7	818.4	816.6	1.80	455.651	
600.0	600.0	577.6	577.6	1.2	0.6	-103.54	-191.6	-795.7	818.4	816.6	1.83	447.901	
689.0	689.0	663.9	663.9	1.4	0.8	-103.50	-191.2	-796.1	818.8	816.6	2.19	373.856	
700.0	700.0	674.5	674.5	1.4	0.8	-103.50	-191.1	-796.2	818.8	816.6	2.24	365.889	
787.4	787.4	760.0	760.0	1.6	1.0	-103.46	-190.8	-796.9	819.5	816.9	2.61	313.925	
800.0	800.0	772.4	772.4	1.7	1.0	-103.46	-190.8	-797.0	819.6	816.9	2.66	307.687	
885.8	885.8	856.7	856.7	1.9	1.2	-103.45	-190.8	-797.9	820.4	817.4	3.03	270.714	
900.0	900.0	870.6	870.6	1.9	1.2	-103.44	-190.8	-798.0	820.6	817.5	3.09	265.430	
984.2	984.2	952.4	952.4	2.1	1.4	-103.43	-190.8	-799.0	821.6	818.1	3.46	237.671	
1,000.0	1,000.0	967.6	967.6	2.1	1.4	-103.43	-190.8	-799.3	821.8	818.3	3.53	233.106	
1,082.7	1,082.7	1,049.5	1,049.5	2.3	1.6	-103.43	-191.1	-800.5	823.1	819.2	3.88	211.941	
1,100.0	1,100.0	1,067.0	1,066.9	2.3	1.6	-103.43	-191.2	-800.7	823.3	819.4	3.96	208.008	
1,181.1	1,181.1	1,147.6	1,147.6	2.5	1.8	-29.33	-192.0	-801.8	823.6	819.3	4.29	191.866	
1,200.0	1,200.0	1,166.2	1,166.2	2.6	1.8	-29.37	-192.2	-802.1	823.4	819.0	4.37	188.392	
1,279.5	1,279.4	1,245.5	1,245.4	2.7	2.0	-29.57	-193.2	-803.2	821.3	816.6	4.70	174.922	
1,300.0	1,299.8	1,266.1	1,266.0	2.8	2.0	-29.64	-193.5	-803.5	820.5	815.7	4.78	171.690	
1,377.9	1,377.5	1,343.9	1,343.8	2.9	2.2	-29.95	-194.4	-804.5	816.1	811.0	5.10	159.989	
1,400.0	1,399.5	1,365.8	1,365.7	3.0	2.2	-30.06	-194.7	-804.8	814.5	809.3	5.19	156.889	
1,476.4	1,475.3	1,443.3	1,443.2	3.2	2.4	-30.49	-195.5	-805.9	807.9	802.4	5.51	146.527	
1,500.0	1,498.7	1,467.7	1,467.6	3.2	2.4	-30.65	-195.8	-806.1	805.5	799.9	5.61	143.483	
1,574.8	1,572.6	1,542.5	1,542.4	3.4	2.6	-31.20	-196.5	-806.9	796.6	790.7	5.93	134.269	
1,600.0	1,597.5	1,567.1	1,567.0	3.5	2.6	-31.40	-196.7	-807.2	793.3	787.2	6.04	131.353	
1,673.2	1,669.4	1,638.3	1,638.2	3.7	2.8	-32.04	-197.1	-808.0	782.6	776.2	6.36	123.114	
1,700.2	1,695.8	1,664.5	1,664.4	3.8	2.9	-32.30	-197.3	-808.3	778.3	771.8	6.47	120.230	
1,771.6	1,765.7	1,733.9	1,733.7	4.1	3.0	-32.88	-197.5	-809.3	766.7	759.9	6.80	112.677	
1,800.0	1,793.4	1,761.4	1,761.3	4.2	3.1	-33.11	-197.5	-809.8	762.1	755.2	6.94	109.870	
1,870.1	1,862.0	1,829.5	1,829.3	4.4	3.2	-33.68	-197.5	-810.9	751.0	743.7	7.27	103.270	
1,900.0	1,891.2	1,858.6	1,858.4	4.5	3.3	-33.93	-197.5	-811.4	746.3	738.8	7.42	100.636	
1,968.5	1,958.3	1,925.2	1,925.0	4.8	3.4	-34.49	-197.3	-812.6	735.6	727.8	7.75	94.888	
2,000.0	1,989.1	1,955.8	1,955.7	4.9	3.5	-34.75	-197.1	-813.3	730.7	722.8	7.91	92.402	
2,066.9	2,054.5	2,021.2	2,021.0	5.2	3.6	-35.31	-196.7	-814.6	720.4	712.1	8.24	87.383	
2,100.0	2,086.9	2,053.7	2,053.5	5.3	3.7	-35.60	-196.5	-815.3	715.3	706.9	8.41	85.029	
2,165.3	2,150.8	2,117.8	2,117.6	5.6	3.8	-36.17	-196.1	-816.7	705.4	696.7	8.75	80.617	
2,200.0	2,184.7	2,151.9	2,151.6	5.7	3.9	-36.48	-195.9	-817.4	700.2	691.2	8.93	78.402	
2,263.8	2,247.1	2,214.5	2,214.3	6.0	4.0	-37.06	-195.5	-818.8	690.6	681.3	9.27	74.524	
2,300.0	2,282.5	2,250.0	2,249.8	6.1	4.1	-37.39	-195.3	-819.5	685.2	675.7	9.46	72.436	
2,362.2	2,343.3	2,311.1	2,310.9	6.4	4.2	-37.99	-194.9	-820.8	676.0	666.2	9.79	69.018	
2,400.0	2,380.3	2,348.2	2,348.0	6.6	4.3	-38.36	-194.7	-821.6	670.4	660.4	10.00	67.046	
2,460.6	2,439.6	2,407.8	2,407.5	6.8	4.4	-38.96	-194.4	-822.9	661.5	651.2	10.33	64.028	
2,500.0	2,478.1	2,446.4	2,446.1	7.0	4.5	-39.36	-194.2	-823.7	655.8	645.3	10.55	62.163	
2,559.0	2,535.9	2,504.4	2,504.1	7.2	4.6	-39.98	-193.9	-824.9	647.3	636.4	10.88	59.491	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 13-7U - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,600.0	2,575.9	2,544.8	2,544.5	7.4	4.7	-40.42	-193.7	-825.8	641.5	630.3	11.11	57.726	
2,657.5	2,632.2	2,601.4	2,601.1	7.7	4.8	-41.04	-193.3	-827.0	633.3	621.8	11.44	55.356	
2,700.0	2,673.8	2,643.3	2,643.0	7.8	4.9	-41.52	-193.1	-827.9	627.3	615.6	11.68	53.683	
2,755.9	2,728.4	2,698.4	2,698.1	8.1	5.0	-42.15	-192.7	-829.0	619.4	607.4	12.01	51.576	
2,800.0	2,771.6	2,741.9	2,741.5	8.3	5.1	-42.66	-192.4	-829.9	613.3	601.0	12.27	49.988	
2,854.3	2,824.7	2,795.4	2,795.1	8.5	5.2	-43.30	-192.0	-831.1	605.8	593.2	12.59	48.112	
2,900.0	2,869.4	2,840.4	2,840.1	8.7	5.3	-43.85	-191.7	-832.0	599.5	586.6	12.86	46.602	
2,952.7	2,921.0	2,892.4	2,892.0	8.9	5.4	-44.50	-191.3	-833.1	592.3	579.1	13.18	44.928	
3,000.0	2,967.2	2,939.0	2,938.6	9.2	5.5	-45.09	-190.9	-834.0	585.9	572.4	13.47	43.492	
3,051.2	3,017.3	2,989.4	2,989.0	9.4	5.7	-45.75	-190.4	-835.0	579.1	565.3	13.79	41.998	
3,100.0	3,065.0	3,038.6	3,038.2	9.6	5.8	-46.40	-190.0	-836.0	572.5	558.4	14.09	40.620	
3,149.6	3,113.5	3,088.9	3,088.4	9.8	5.9	-47.10	-189.6	-836.8	565.9	551.4	14.41	39.265	
3,200.0	3,162.8	3,139.8	3,139.4	10.0	6.0	-47.83	-189.1	-837.5	559.0	544.3	14.74	37.935	
3,248.0	3,209.8	3,188.4	3,187.9	10.3	6.1	-48.55	-188.7	-837.9	552.5	537.4	15.05	36.710	
3,300.0	3,260.6	3,240.8	3,240.4	10.5	6.2	-49.36	-188.3	-838.3	545.3	529.9	15.39	35.428	
3,346.4	3,306.1	3,287.6	3,287.2	10.7	6.3	-50.11	-187.9	-838.4	538.9	523.2	15.70	34.321	
3,400.0	3,358.4	3,341.5	3,341.0	10.9	6.4	-51.01	-187.5	-838.4	531.5	515.5	16.06	33.087	
3,444.9	3,402.3	3,386.6	3,386.1	11.1	6.5	-51.79	-187.1	-838.3	525.3	508.9	16.37	32.087	
3,500.0	3,456.3	3,441.9	3,441.5	11.4	6.6	-52.78	-186.7	-837.9	517.7	500.9	16.75	30.901	
3,543.3	3,498.6	3,485.3	3,484.9	11.6	6.7	-53.59	-186.4	-837.5	511.7	494.6	17.06	30.000	
3,600.0	3,554.1	3,540.7	3,540.2	11.8	6.8	-54.66	-186.0	-836.9	503.9	486.4	17.45	28.872	
3,641.7	3,594.9	3,581.1	3,580.6	12.0	6.9	-55.46	-185.7	-836.5	498.3	480.5	17.75	28.079	
3,700.0	3,651.9	3,637.6	3,637.1	12.3	7.0	-56.59	-185.2	-836.0	490.7	472.6	18.16	27.022	
3,740.1	3,691.2	3,676.5	3,676.0	12.5	7.1	-57.39	-184.9	-835.7	485.6	467.2	18.45	26.325	
3,800.0	3,749.7	3,734.5	3,734.1	12.7	7.2	-58.60	-184.4	-835.3	478.3	459.4	18.88	25.333	
3,838.6	3,787.4	3,772.0	3,771.5	12.9	7.3	-59.39	-184.0	-835.1	473.7	454.5	19.16	24.722	
3,900.0	3,847.5	3,831.6	3,831.2	13.2	7.4	-60.68	-183.5	-834.9	466.6	447.0	19.61	23.794	
3,937.0	3,883.7	3,867.6	3,867.1	13.3	7.5	-61.47	-183.1	-834.8	462.5	442.6	19.89	23.260	
4,000.0	3,945.3	3,928.9	3,928.4	13.6	7.6	-62.83	-182.5	-834.8	455.8	435.4	20.35	22.394	
4,035.4	3,980.0	3,963.3	3,962.8	13.8	7.7	-63.61	-182.1	-834.8	452.1	431.5	20.62	21.929	
4,100.0	4,043.1	4,026.7	4,026.2	14.1	7.8	-65.07	-181.4	-834.8	445.7	424.6	21.11	21.119	
4,133.8	4,076.3	4,060.3	4,059.8	14.2	7.9	-65.86	-181.0	-834.9	442.5	421.1	21.37	20.709	
4,200.0	4,141.0	4,126.0	4,125.5	14.5	8.0	-67.42	-180.1	-834.9	436.2	414.3	21.87	19.942	
4,232.3	4,172.5	4,158.1	4,157.6	14.7	8.1	-68.20	-179.6	-834.9	433.2	411.1	22.12	19.582	
4,300.0	4,238.8	4,225.3	4,224.8	15.0	8.2	-69.85	-178.4	-834.9	427.1	404.5	22.65	18.860	
4,330.7	4,268.8	4,255.8	4,255.3	15.1	8.3	-70.62	-177.8	-834.9	424.4	401.5	22.88	18.547	
4,400.0	4,336.6	4,324.6	4,324.0	15.4	8.4	-72.38	-176.4	-834.7	418.5	395.1	23.42	17.869	
4,429.1	4,365.1	4,353.5	4,352.9	15.6	8.5	-73.13	-175.8	-834.7	416.1	392.5	23.65	17.597	
4,500.0	4,434.4	4,423.8	4,423.2	15.9	8.7	-74.99	-174.1	-834.5	410.4	386.2	24.19	16.965	
4,527.5	4,461.3	4,451.1	4,450.6	16.0	8.7	-75.72	-173.5	-834.4	408.3	383.9	24.41	16.730	
4,600.0	4,532.2	4,522.7	4,522.1	16.4	8.9	-77.68	-171.6	-834.1	402.9	377.9	24.96	16.143	
4,626.0	4,557.6	4,548.1	4,547.5	16.5	8.9	-78.40	-170.9	-833.9	401.1	375.9	25.15	15.944	
4,700.0	4,630.0	4,620.4	4,619.8	16.8	9.1	-80.50	-169.1	-833.2	396.2	370.5	25.71	15.412	
4,724.4	4,653.9	4,644.2	4,643.6	16.9	9.1	-81.21	-168.6	-832.9	394.8	368.9	25.89	15.247	
4,800.0	4,727.8	4,717.9	4,717.2	17.3	9.3	-83.48	-167.0	-831.8	390.6	364.2	26.45	14.770	
4,822.8	4,750.2	4,740.1	4,739.4	17.4	9.3	-84.19	-166.6	-831.5	389.5	362.9	26.61	14.637	
4,900.0	4,825.6	4,815.1	4,814.4	17.7	9.5	-86.62	-165.2	-829.9	386.3	359.1	27.17	14.219	
4,921.2	4,846.4	4,835.7	4,835.0	17.8	9.5	-87.31	-164.8	-829.4	385.5	358.2	27.32	14.114	
5,000.0	4,923.5	4,912.0	4,911.2	18.2	9.7	-89.90	-163.7	-827.4	383.3	355.5	27.86	13.759	
5,019.7	4,942.7	4,931.0	4,930.3	18.3	9.7	-90.56	-163.4	-826.9	382.9	354.9	27.99	13.680	
5,100.0	5,021.3	5,008.6	5,007.8	18.6	9.9	-93.29	-162.4	-824.4	381.8	353.3	28.52	13.391	
5,118.1	5,039.0	5,026.1	5,025.3	18.7	9.9	-93.91	-162.2	-823.9	381.8	353.1	28.63	13.334	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,141.4	5,061.8	5,048.6	5,047.8	18.8	10.0	-94.71	-162.0	-823.1	381.7	352.9	28.77	13.266	
5,200.0	5,119.1	5,105.3	5,104.4	19.1	10.1	-96.71	-161.4	-821.3	382.0	352.9	29.13	13.113	
5,216.5	5,135.3	5,121.2	5,120.4	19.2	10.1	-97.27	-161.2	-820.8	382.2	352.9	29.23	13.075	
5,300.0	5,216.9	5,202.0	5,201.1	19.6	10.3	-100.09	-160.4	-818.5	383.7	354.0	29.70	12.917	
5,314.9	5,231.5	5,216.5	5,215.6	19.6	10.3	-100.59	-160.3	-818.0	384.1	354.3	29.79	12.895	
5,400.0	5,314.7	5,298.9	5,297.9	20.0	10.5	-103.40	-159.6	-815.8	386.9	356.7	30.24	12.796	
5,413.4	5,327.8	5,311.8	5,310.9	20.1	10.5	-103.84	-159.4	-815.5	387.4	357.1	30.30	12.785	
5,500.0	5,412.5	5,395.8	5,394.8	20.5	10.7	-106.62	-158.8	-813.4	391.5	360.8	30.73	12.741	
5,511.8	5,424.1	5,407.3	5,406.3	20.5	10.7	-106.99	-158.7	-813.1	392.2	361.4	30.79	12.739	
5,600.0	5,510.3	5,492.9	5,491.9	20.9	10.9	-109.72	-158.1	-811.2	397.5	366.4	31.19	12.746	
5,610.2	5,520.3	5,502.8	5,501.8	21.0	10.9	-110.03	-158.0	-811.0	398.2	367.0	31.23	12.750	
5,700.0	5,608.2	5,589.4	5,588.4	21.4	11.1	-112.69	-157.5	-809.2	404.9	373.2	31.62	12.805	
5,708.6	5,616.6	5,597.8	5,596.8	21.4	11.1	-112.95	-157.5	-809.0	405.5	373.9	31.65	12.813	
5,729.2	5,636.7	5,617.6	5,616.6	21.5	11.1	-113.54	-157.4	-808.6	407.2	375.5	31.73	12.833	
5,800.0	5,706.1	5,686.2	5,685.1	21.8	11.3	-115.55	-157.2	-807.2	413.1	381.1	31.97	12.921	
5,807.1	5,713.1	5,693.0	5,692.0	21.8	11.3	-115.74	-157.2	-807.1	413.7	381.7	31.99	12.931	
5,900.0	5,804.7	5,783.5	5,782.5	22.1	11.5	-117.94	-157.1	-805.3	421.0	388.7	32.24	13.058	
5,905.5	5,810.2	5,788.9	5,787.8	22.1	11.5	-118.06	-157.1	-805.2	421.4	389.1	32.25	13.065	
6,000.0	5,903.9	5,881.5	5,880.4	22.3	11.7	-119.84	-157.2	-803.5	427.9	395.4	32.50	13.169	
6,003.9	5,907.8	5,885.4	5,884.3	22.4	11.7	-119.90	-157.2	-803.4	428.2	395.7	32.51	13.173	
6,100.0	6,003.4	5,979.9	5,978.8	22.6	11.9	-121.25	-157.6	-801.7	433.7	401.0	32.76	13.241	
6,102.3	6,005.7	5,982.2	5,981.1	22.6	11.9	-121.28	-157.6	-801.6	433.8	401.1	32.76	13.242	
6,200.0	6,103.2	6,079.5	6,078.4	22.7	12.1	-122.23	-158.1	-799.9	438.0	405.0	33.02	13.263	
6,200.8	6,104.0	6,080.3	6,079.2	22.7	12.1	-122.23	-158.1	-799.9	438.0	405.0	33.02	13.263	
6,299.2	6,202.3	6,178.7	6,177.6	22.9	12.3	-122.78	-158.5	-798.2	440.5	407.2	33.29	13.229	
6,300.0	6,203.1	6,179.5	6,178.4	22.9	12.3	-122.78	-158.5	-798.1	440.5	407.2	33.30	13.228	
6,329.4	6,232.5	6,208.9	6,207.7	22.9	12.4	162.97	-158.7	-797.6	440.8	407.5	33.36	13.216	
6,397.6	6,300.8	6,277.2	6,276.1	23.0	12.5	162.83	-159.0	-796.4	441.5	407.9	33.57	13.150	
6,400.0	6,303.1	6,279.6	6,278.4	23.0	12.5	162.83	-159.0	-796.4	441.5	407.9	33.58	13.148	
6,449.4	6,352.5	6,329.0	6,327.8	23.1	12.6	162.73	-159.2	-795.5	442.0	408.2	33.74	13.099	
6,496.0	6,399.2	6,375.7	6,374.5	23.1	12.7	-17.66	-159.4	-794.7	441.0	407.2	33.79	13.050	
6,500.0	6,403.1	6,379.6	6,378.5	23.1	12.7	-17.68	-159.4	-794.6	440.7	407.0	33.79	13.045	
6,550.0	6,452.8	6,429.4	6,428.2	23.1	12.8	-18.11	-159.7	-793.7	436.2	402.5	33.65	12.963	
6,594.5	6,496.6	6,473.3	6,472.1	23.2	12.9	-18.69	-159.8	-792.9	429.4	396.0	33.40	12.855	
6,600.0	6,502.0	6,478.7	6,477.5	23.2	12.9	-18.78	-159.8	-792.8	428.4	395.0	33.36	12.840	
6,650.0	6,550.5	6,527.4	6,526.2	23.2	13.0	-19.73	-160.0	-792.0	417.3	384.4	32.93	12.673	
6,692.9	6,591.4	6,568.4	6,567.3	23.2	13.1	-20.80	-160.2	-791.2	405.3	372.9	32.45	12.492	
6,700.0	6,598.0	6,575.2	6,574.0	23.2	13.1	-21.01	-160.2	-791.0	403.1	370.8	32.36	12.459	
6,750.0	6,644.4	6,621.7	6,620.5	23.2	13.2	-22.69	-160.3	-790.1	386.0	354.3	31.66	12.191	
6,791.3	6,681.6	6,659.1	6,657.9	23.2	13.3	-24.45	-160.3	-789.3	369.6	338.6	31.00	11.923	
6,800.0	6,689.3	6,666.8	6,665.6	23.2	13.3	-24.86	-160.3	-789.1	366.0	335.1	30.85	11.861	
6,850.0	6,732.6	6,710.2	6,708.9	23.2	13.4	-27.66	-160.3	-788.1	343.3	313.4	29.98	11.453	
6,889.7	6,765.7	6,743.3	6,742.1	23.2	13.5	-30.44	-160.3	-787.3	323.7	294.4	29.27	11.059	
6,900.0	6,774.0	6,751.6	6,750.4	23.2	13.5	-31.25	-160.3	-787.1	318.4	289.3	29.09	10.947	
6,950.0	6,813.3	6,791.0	6,789.7	23.2	13.6	-35.83	-160.2	-786.1	291.5	263.2	28.27	10.310	
6,988.2	6,841.9	6,819.5	6,818.3	23.2	13.6	-40.14	-160.1	-785.4	270.0	242.2	27.80	9.713	
7,000.0	6,850.5	6,828.1	6,826.8	23.2	13.7	-41.63	-160.1	-785.2	263.2	235.6	27.69	9.508	
7,050.0	6,885.2	6,862.6	6,861.4	23.2	13.7	-48.82	-160.0	-784.2	234.3	206.8	27.50	8.521	
7,086.6	6,908.9	6,886.3	6,885.0	23.2	13.8	-54.96	-159.9	-783.6	213.5	185.7	27.72	7.701	
7,100.0	6,917.3	6,894.5	6,893.3	23.2	13.8	-57.37	-159.9	-783.3	206.0	178.2	27.86	7.395	
7,150.0	6,946.6	6,923.7	6,922.4	23.2	13.9	-66.89	-159.7	-782.5	180.1	151.5	28.69	6.279	
7,185.0	6,965.5	6,942.3	6,941.0	23.3	13.9	-73.70	-159.6	-781.9	165.0	135.6	29.39	5.614	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 600-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,200.0	6,973.1	6,949.8	6,948.5	23.3	13.9	-76.54	-159.6	-781.7	159.7	130.0	29.69	5.377	
7,250.0	6,996.5	6,972.9	6,971.6	23.3	14.0	-85.24	-159.5	-781.0	148.5	118.0	30.53	4.865	
7,268.6	7,004.4	6,980.7	6,979.4	23.4	14.0	-88.06	-159.4	-780.8	147.6	116.8	30.77	4.796 CC, ES	
7,283.4	7,010.4	6,986.6	6,985.3	23.4	14.0	-90.11	-159.4	-780.6	148.2	117.3	30.93	4.792 SF	
7,300.0	7,016.8	6,992.8	6,991.5	23.4	14.0	-92.17	-159.4	-780.4	150.4	119.3	31.07	4.839	
7,350.0	7,033.8	7,009.6	7,008.3	23.5	14.0	-96.90	-159.2	-779.9	165.9	134.5	31.42	5.279	
7,381.9	7,043.0	7,018.6	7,017.2	23.6	14.1	-98.69	-159.2	-779.6	181.8	150.2	31.63	5.749	
7,400.0	7,047.6	7,023.1	7,021.7	23.6	14.1	-99.25	-159.1	-779.5	192.6	160.8	31.75	6.066	
7,450.0	7,057.9	7,033.1	7,031.7	23.8	14.1	-99.12	-159.1	-779.2	227.0	194.9	32.17	7.058	
7,480.3	7,062.5	7,037.4	7,036.0	23.9	14.1	-97.79	-159.0	-779.0	250.5	218.0	32.47	7.715	
7,500.0	7,064.8	7,039.5	7,038.2	24.0	14.1	-96.40	-159.0	-779.0	266.5	233.8	32.66	8.160	
7,550.0	7,068.3	7,042.5	7,041.2	24.2	14.1	-91.00	-159.0	-778.9	309.1	276.1	33.02	9.361	
7,578.7	7,068.7	7,042.7	7,041.3	24.4	14.1	-86.67	-159.0	-778.9	334.6	301.6	33.02	10.131	
7,578.9	7,068.7	7,042.7	7,041.3	24.4	14.1	-86.65	-159.0	-778.9	334.7	301.7	33.02	10.135	
7,600.0	7,068.6	7,042.4	7,041.0	24.5	14.1	-86.53	-159.0	-778.9	353.7	320.5	33.22	10.648	
7,677.1	7,068.1	7,041.2	7,039.8	25.1	14.1	-86.08	-159.0	-778.9	424.9	391.0	33.91	12.529	
7,700.0	7,067.9	7,040.9	7,039.5	25.2	14.1	-85.95	-159.0	-778.9	446.4	412.2	34.12	13.082	
7,775.6	7,067.4	7,039.7	7,038.4	25.9	14.1	-85.52	-159.0	-779.0	518.2	483.3	34.89	14.853	
7,800.0	7,067.3	7,039.4	7,038.0	26.1	14.1	-85.38	-159.0	-779.0	541.6	506.5	35.14	15.415	
7,874.0	7,066.8	7,038.3	7,036.9	26.8	14.1	-84.97	-159.0	-779.0	613.1	577.0	36.03	17.014	
7,900.0	7,066.7	7,037.9	7,036.5	27.0	14.1	-84.82	-159.0	-779.0	638.3	602.0	36.35	17.562	
7,972.4	7,066.2	7,036.8	7,035.5	27.8	14.1	-84.42	-159.0	-779.1	708.9	671.6	37.28	19.014	
8,000.0	7,066.0	7,036.4	7,035.1	28.1	14.1	-84.27	-159.0	-779.1	735.9	698.2	37.64	19.550	
8,070.8	7,065.6	7,035.4	7,034.1	28.9	14.1	-83.88	-159.0	-779.1	805.4	766.8	38.61	20.861	
8,100.0	7,065.4	7,035.0	7,033.6	29.3	14.1	-83.72	-159.1	-779.1	834.0	795.0	39.00	21.384	
8,169.3	7,065.0	7,034.0	7,032.7	30.2	14.1	-83.34	-159.1	-779.1	902.3	862.3	39.99	22.564	
8,200.0	7,064.8	7,033.6	7,032.2	30.6	14.1	-83.18	-159.1	-779.1	932.6	892.2	40.42	23.071	
8,267.7	7,064.4	7,032.6	7,031.3	31.5	14.1	-82.81	-159.1	-779.2	999.4	958.0	41.41	24.133	
8,300.0	7,064.2	7,032.2	7,030.8	31.9	14.1	-82.64	-159.1	-779.2	1,031.4	989.5	41.89	24.623	
8,366.1	7,063.7	7,031.3	7,029.9	32.8	14.1	-82.29	-159.1	-779.2	1,096.9	1,054.0	42.88	25.578	
8,400.0	7,063.5	7,030.8	7,029.4	33.3	14.1	-82.11	-159.1	-779.2	1,130.4	1,087.0	43.39	26.052	
8,464.5	7,063.1	7,029.9	7,028.5	34.2	14.1	-81.78	-159.1	-779.3	1,194.4	1,150.0	44.38	26.911	
8,500.0	7,062.9	7,029.4	7,028.1	34.8	14.1	-81.59	-159.1	-779.3	1,229.6	1,184.7	44.93	27.368	
8,563.0	7,062.5	7,028.5	7,027.2	35.7	14.1	-81.27	-159.1	-779.3	1,292.1	1,246.2	45.91	28.143	
8,600.0	7,062.3	7,028.0	7,026.7	36.3	14.1	-81.08	-159.1	-779.3	1,328.9	1,282.4	46.49	28.585	
8,661.4	7,061.9	7,027.2	7,025.9	37.2	14.1	-80.77	-159.1	-779.3	1,389.9	1,342.5	47.46	29.284	
8,700.0	7,061.6	7,026.7	7,025.3	37.8	14.1	-80.57	-159.1	-779.3	1,428.3	1,380.2	48.07	29.711	
8,759.8	7,061.3	7,025.9	7,024.5	38.8	14.1	-80.27	-159.1	-779.4	1,487.8	1,438.8	49.03	30.343	
8,800.0	7,061.0	7,025.4	7,024.0	39.4	14.1	-80.07	-159.1	-779.4	1,527.8	1,478.1	49.67	30.756	
8,858.2	7,060.6	7,024.6	7,023.2	40.3	14.1	-79.78	-159.1	-779.4	1,585.8	1,535.1	50.62	31.329	
8,900.0	7,060.4	7,024.0	7,022.7	41.0	14.1	-79.58	-159.1	-779.4	1,627.3	1,576.0	51.29	31.728	
8,956.7	7,060.0	7,023.3	7,022.0	41.9	14.1	-79.30	-159.1	-779.4	1,683.8	1,631.5	52.21	32.248	
9,000.0	7,059.8	7,022.7	7,021.4	42.6	14.1	-79.09	-159.2	-779.5	1,726.9	1,674.0	52.92	32.635	
9,055.1	7,059.4	7,022.0	7,020.7	43.6	14.1	-78.82	-159.2	-779.5	1,781.8	1,728.0	53.82	33.108	
9,100.0	7,059.1	7,021.4	7,020.1	44.3	14.1	-78.61	-159.2	-779.5	1,826.5	1,772.0	54.55	33.483	
9,153.5	7,058.8	7,020.0	6,998.7	45.2	14.0	-70.86	-159.3	-780.2	1,880.0	1,826.6	53.45	35.176	
9,200.0	7,058.5	7,020.0	6,998.7	46.0	14.0	-70.85	-159.3	-780.2	1,926.3	1,872.1	54.23	35.519	
9,251.9	7,058.2	7,020.0	6,998.7	46.9	14.0	-70.85	-159.3	-780.2	1,978.1	1,923.0	55.12	35.887	
9,300.0	7,057.9	7,020.0	6,998.7	47.7	14.0	-70.85	-159.3	-780.2	2,026.0	1,970.1	55.94	36.218	
9,350.4	7,057.6	7,020.0	6,998.7	48.6	14.0	-70.85	-159.3	-780.2	2,076.2	2,019.4	56.80	36.550	
9,400.0	7,057.2	7,020.0	6,998.7	49.4	14.0	-70.85	-159.3	-780.2	2,125.7	2,068.1	57.66	36.869	
9,448.8	7,056.9	7,020.0	6,998.7	50.3	14.0	-70.85	-159.3	-780.2	2,174.4	2,115.9	58.50	37.170	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,500.0	7,056.6	7,000.0	6,998.7	51.1	14.0	-70.85	-159.3	-780.2	2,225.5	2,166.1	59.38	37.477	
9,547.2	7,056.3	7,000.0	6,998.7	52.0	14.0	-70.85	-159.3	-780.2	2,272.6	2,212.4	60.20	37.750	
9,600.0	7,056.0	7,000.0	6,998.7	52.9	14.0	-70.85	-159.3	-780.2	2,325.2	2,264.1	61.11	38.047	
9,645.6	7,055.7	7,000.0	6,998.7	53.7	14.0	-70.85	-159.3	-780.2	2,370.8	2,308.9	61.91	38.295	
9,700.0	7,055.4	7,000.0	6,998.7	54.6	14.0	-70.85	-159.3	-780.2	2,425.0	2,362.2	62.85	38.581	
9,744.1	7,055.1	7,000.0	6,998.7	55.4	14.0	-70.85	-159.3	-780.2	2,469.0	2,405.4	63.62	38.806	
9,800.0	7,054.7	7,000.0	6,998.7	56.4	14.0	-70.85	-159.3	-780.2	2,524.8	2,460.2	64.60	39.083	
9,842.5	7,054.5	7,000.0	6,998.7	57.2	14.0	-70.85	-159.3	-780.2	2,567.2	2,501.9	65.35	39.287	
9,900.0	7,054.1	7,000.0	6,998.7	58.2	14.0	-70.85	-159.3	-780.2	2,624.6	2,558.3	66.35	39.556	
9,940.9	7,053.8	7,000.0	6,998.7	58.9	14.0	-70.85	-159.3	-780.2	2,665.5	2,598.4	67.07	39.741	
10,000.0	7,053.5	7,000.0	6,998.7	60.0	14.0	-70.85	-159.3	-780.2	2,724.5	2,656.3	68.11	40.001	
10,039.3	7,053.2	7,000.0	6,998.7	60.7	14.0	-70.85	-159.3	-780.2	2,763.7	2,694.9	68.80	40.169	
10,100.0	7,052.8	7,000.0	6,998.7	61.8	14.0	-70.85	-159.3	-780.2	2,824.3	2,754.4	69.87	40.422	
10,137.8	7,052.6	7,000.0	6,998.7	62.4	14.0	-70.85	-159.3	-780.2	2,862.0	2,791.5	70.54	40.574	
10,200.0	7,052.2	7,000.0	6,998.7	63.6	14.0	-70.85	-159.3	-780.2	2,924.1	2,852.5	71.64	40.819	
10,236.2	7,052.0	7,000.0	6,998.7	64.2	14.0	-70.85	-159.3	-780.2	2,960.3	2,888.0	72.28	40.957	
10,300.0	7,051.6	7,000.0	6,998.7	65.4	14.0	-70.85	-159.3	-780.2	3,024.0	2,950.6	73.41	41.196	
10,334.6	7,051.4	7,000.0	6,998.7	66.0	14.0	-70.85	-159.3	-780.2	3,058.6	2,984.6	74.02	41.321	
10,400.0	7,051.0	7,000.0	6,998.7	67.2	14.0	-70.85	-159.3	-780.2	3,123.9	3,048.7	75.18	41.552	
10,433.0	7,050.7	7,000.0	6,998.7	67.8	14.0	-70.85	-159.3	-780.2	3,156.9	3,081.1	75.77	41.666	
10,500.0	7,050.3	7,000.0	6,998.7	69.0	14.0	-70.85	-159.3	-780.2	3,223.8	3,146.8	76.96	41.891	
10,531.5	7,050.1	7,000.0	6,998.7	69.6	14.0	-70.85	-159.3	-780.2	3,255.2	3,177.7	77.52	41.994	
10,600.0	7,049.7	7,000.0	6,998.7	70.8	14.0	-70.85	-159.3	-780.2	3,323.6	3,244.9	78.73	42.213	
10,629.9	7,049.5	7,000.0	6,998.7	71.4	14.0	-70.85	-159.3	-780.2	3,353.5	3,274.2	79.27	42.306	
10,700.0	7,049.1	7,000.0	6,998.7	72.7	14.0	-70.85	-159.3	-780.2	3,423.5	3,343.0	80.52	42.520	
10,728.3	7,048.9	7,000.0	6,998.7	73.2	14.0	-70.85	-159.3	-780.2	3,451.8	3,370.8	81.02	42.604	
10,800.0	7,048.4	7,000.0	6,998.7	74.5	14.0	-70.85	-159.3	-780.2	3,523.4	3,441.1	82.30	42.812	
10,826.7	7,048.3	7,000.0	6,998.7	75.0	14.0	-70.85	-159.3	-780.2	3,550.2	3,467.4	82.78	42.887	
10,900.0	7,047.8	7,000.0	6,998.7	76.3	14.0	-70.85	-159.3	-780.2	3,623.3	3,539.2	84.09	43.090	
10,925.2	7,047.7	7,000.0	6,998.7	76.8	14.0	-70.85	-159.3	-780.2	3,648.5	3,564.0	84.54	43.158	
11,000.0	7,047.2	7,000.0	6,998.7	78.2	14.0	-70.85	-159.3	-780.2	3,723.2	3,637.4	85.88	43.356	
11,023.6	7,047.0	7,000.0	6,998.7	78.6	14.0	-70.85	-159.3	-780.2	3,746.8	3,660.5	86.30	43.417	
11,100.0	7,046.6	7,000.0	6,998.7	80.0	14.0	-70.85	-159.3	-780.2	3,823.2	3,735.5	87.67	43.610	
11,122.0	7,046.4	7,000.0	6,998.7	80.4	14.0	-70.85	-159.3	-780.2	3,845.2	3,757.1	88.06	43.665	
11,200.0	7,045.9	7,000.0	6,998.7	81.9	14.0	-70.85	-159.3	-780.2	3,923.1	3,833.6	89.46	43.853	
11,220.4	7,045.8	7,000.0	6,998.7	82.3	14.0	-70.85	-159.3	-780.2	3,943.5	3,853.7	89.83	43.902	
11,300.0	7,045.3	7,000.0	6,998.7	83.7	14.0	-70.85	-159.3	-780.2	4,023.0	3,931.7	91.25	44.086	
11,318.9	7,045.2	7,000.0	6,998.7	84.1	14.0	-70.85	-159.3	-780.2	4,041.9	3,950.3	91.59	44.129	
11,400.0	7,044.7	7,000.0	6,998.7	85.6	14.0	-70.85	-159.3	-780.2	4,122.9	4,029.9	93.05	44.309	
11,417.3	7,044.6	7,000.0	6,998.7	85.9	14.0	-70.85	-159.3	-780.2	4,140.2	4,046.9	93.36	44.347	
11,500.0	7,044.0	7,000.0	6,998.7	87.5	14.0	-70.85	-159.3	-780.2	4,222.9	4,128.0	94.85	44.523	
11,515.7	7,043.9	7,000.0	6,998.7	87.7	14.0	-70.85	-159.3	-780.2	4,238.6	4,143.4	95.13	44.556	
11,600.0	7,043.4	7,000.0	6,998.7	89.3	14.0	-70.84	-159.3	-780.2	4,322.8	4,226.1	96.65	44.729	
11,614.1	7,043.3	7,000.0	6,998.7	89.6	14.0	-70.84	-159.3	-780.2	4,336.9	4,240.0	96.90	44.757	
11,700.0	7,042.8	7,000.0	6,998.7	91.2	14.0	-70.84	-159.3	-780.2	4,422.7	4,324.3	98.44	44.926	
11,712.6	7,042.7	7,000.0	6,998.7	91.4	14.0	-70.84	-159.3	-780.2	4,435.3	4,336.6	98.67	44.950	
11,800.0	7,042.2	7,000.0	6,998.7	93.0	14.0	-70.84	-159.3	-780.2	4,522.7	4,422.4	100.25	45.116	
11,811.0	7,042.1	7,000.0	6,998.7	93.2	14.0	-70.84	-159.3	-780.2	4,533.7	4,433.2	100.44	45.136	
11,900.0	7,041.5	7,000.0	6,998.7	94.9	14.0	-70.84	-159.3	-780.2	4,622.6	4,520.6	102.05	45.298	
11,909.4	7,041.5	7,000.0	6,998.7	95.1	14.0	-70.84	-159.3	-780.2	4,632.0	4,529.8	102.22	45.315	
12,000.0	7,040.9	7,000.0	6,998.7	96.8	14.0	-70.84	-159.3	-780.2	4,722.5	4,618.7	103.85	45.474	
12,007.8	7,040.8	7,000.0	6,998.7	96.9	14.0	-70.84	-159.3	-780.2	4,730.4	4,626.4	103.99	45.487	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 600-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	7,040.3	7,000.0	6,998.7	98.7	14.0	-70.84	-159.3	-780.2	4,822.5	4,716.8	105.66	45.643	
12,106.3	7,040.2	7,000.0	6,998.7	98.8	14.0	-70.84	-159.3	-780.2	4,828.8	4,723.0	105.77	45.654	
12,200.0	7,039.6	7,000.0	6,998.7	100.5	14.0	-70.84	-159.3	-780.2	4,922.4	4,815.0	107.46	45.807	
12,204.7	7,039.6	7,000.0	6,998.7	100.6	14.0	-70.84	-159.3	-780.2	4,927.1	4,819.6	107.55	45.814	
12,300.0	7,039.0	7,000.0	6,998.7	102.4	14.0	-70.84	-159.3	-780.2	5,022.4	4,913.1	109.27	45.964	
12,303.1	7,039.0	7,000.0	6,998.7	102.5	14.0	-70.84	-159.3	-780.2	5,025.5	4,916.2	109.32	45.969	
12,400.0	7,038.4	7,000.0	6,998.7	104.3	14.0	-70.84	-159.3	-780.2	5,122.3	5,011.3	111.07	46.116	
12,401.5	7,038.4	7,000.0	6,998.7	104.3	14.0	-70.84	-159.3	-780.2	5,123.9	5,012.8	111.10	46.119	
12,500.0	7,037.8	7,000.0	6,998.7	106.2	14.0	-70.84	-159.3	-780.2	5,222.3	5,109.4	112.88	46.263	
12,598.4	7,037.1	7,000.0	6,998.7	108.0	14.0	-70.84	-159.3	-780.2	5,320.7	5,206.0	114.66	46.403	
12,600.0	7,037.1	7,000.0	6,998.7	108.0	14.0	-70.84	-159.3	-780.2	5,322.3	5,207.6	114.69	46.405	
12,696.8	7,036.5	7,000.0	6,998.7	109.9	14.0	-70.84	-159.3	-780.2	5,419.0	5,302.6	116.44	46.538	
12,700.0	7,036.5	7,000.0	6,998.7	109.9	14.0	-70.84	-159.3	-780.2	5,422.2	5,305.7	116.50	46.542	
12,795.2	7,035.9	7,000.0	6,998.7	111.7	14.0	-70.84	-159.3	-780.2	5,517.4	5,399.2	118.22	46.669	
12,800.0	7,035.9	7,000.0	6,998.7	111.8	14.0	-70.84	-159.3	-780.2	5,522.2	5,403.9	118.31	46.675	
12,893.7	7,035.3	7,000.0	6,998.7	113.6	14.0	-70.84	-159.3	-780.2	5,615.8	5,495.8	120.01	46.796	
12,900.0	7,035.2	7,000.0	6,998.7	113.7	14.0	-70.84	-159.3	-780.2	5,622.1	5,502.0	120.12	46.804	
12,992.1	7,034.7	7,000.0	6,998.7	115.4	14.0	-70.84	-159.3	-780.2	5,714.2	5,592.4	121.79	46.919	
13,000.0	7,034.6	7,000.0	6,998.7	115.6	14.0	-70.83	-159.3	-780.2	5,722.1	5,600.2	121.93	46.929	
13,090.5	7,034.0	7,000.0	6,998.7	117.3	14.0	-70.83	-159.3	-780.2	5,812.6	5,689.0	123.57	47.038	
13,100.0	7,034.0	7,000.0	6,998.7	117.5	14.0	-70.83	-159.3	-780.2	5,822.1	5,698.3	123.74	47.049	
13,188.9	7,033.4	7,000.0	6,998.7	119.1	14.0	-70.83	-159.3	-780.2	5,911.0	5,785.6	125.36	47.153	
13,200.0	7,033.4	7,000.0	6,998.7	119.3	14.0	-70.83	-159.3	-780.2	5,922.0	5,796.5	125.56	47.166	
13,287.4	7,032.8	7,000.0	6,998.7	121.0	14.0	-70.83	-159.3	-780.2	6,009.4	5,882.2	127.14	47.266	
13,300.0	7,032.7	7,000.0	6,998.7	121.2	14.0	-70.83	-159.3	-780.2	6,022.0	5,894.6	127.37	47.280	
13,385.8	7,032.2	7,000.0	6,998.7	122.9	14.0	-70.83	-159.3	-780.2	6,107.8	5,978.8	128.92	47.375	
13,400.0	7,032.1	7,000.0	6,998.7	123.1	14.0	-70.83	-159.3	-780.2	6,122.0	5,992.8	129.18	47.390	
13,484.2	7,031.6	7,000.0	6,998.7	124.7	14.0	-70.83	-159.3	-780.2	6,206.2	6,075.4	130.71	47.480	
13,500.0	7,031.5	7,000.0	6,998.7	125.0	14.0	-70.83	-159.3	-780.2	6,221.9	6,090.9	131.00	47.497	
13,582.6	7,030.9	6,970.1	6,968.7	126.6	14.0	-61.04	-159.5	-781.1	6,304.5	6,180.4	124.11	50.796	
13,600.0	7,030.8	6,969.9	6,968.5	126.9	14.0	-60.98	-159.5	-781.1	6,321.8	6,197.5	124.35	50.839	
13,681.1	7,030.3	6,969.0	6,967.7	128.4	14.0	-60.72	-159.5	-781.1	6,402.9	6,277.4	125.46	51.033	
13,700.0	7,030.2	6,968.8	6,967.5	128.8	14.0	-60.66	-159.5	-781.1	6,421.8	6,296.1	125.72	51.079	
13,779.5	7,029.7	6,968.0	6,966.6	130.3	14.0	-60.40	-159.5	-781.2	6,501.2	6,374.4	126.81	51.268	
13,800.0	7,029.6	6,967.7	6,966.4	130.7	14.0	-60.33	-159.5	-781.2	6,521.7	6,394.7	127.09	51.317	
13,877.9	7,029.1	6,966.9	6,965.6	132.2	14.0	-60.09	-159.5	-781.2	6,599.6	6,471.5	128.15	51.501	
13,900.0	7,029.0	6,966.7	6,965.3	132.6	14.0	-60.01	-159.5	-781.2	6,621.7	6,493.3	128.44	51.554	
13,976.3	7,028.5	6,965.9	6,964.5	134.0	13.9	-59.77	-159.5	-781.2	6,698.0	6,568.6	129.47	51.733	
14,000.0	7,028.3	6,965.6	6,964.3	134.5	13.9	-59.70	-159.5	-781.2	6,721.7	6,591.9	129.79	51.789	
14,074.8	7,027.9	6,964.8	6,963.5	135.9	13.9	-59.47	-159.5	-781.3	6,796.4	6,665.6	130.79	51.963	
14,100.0	7,027.7	6,964.6	6,963.2	136.4	13.9	-59.39	-159.5	-781.3	6,821.6	6,690.5	131.13	52.022	
14,173.2	7,027.2	6,963.8	6,962.5	137.8	13.9	-59.16	-159.5	-781.3	6,894.8	6,762.7	132.11	52.191	
14,200.0	7,027.1	6,963.5	6,962.2	138.3	13.9	-59.08	-159.5	-781.3	6,921.6	6,789.1	132.46	52.253	
14,210.5	7,027.0	6,963.4	6,962.1	138.5	13.9	-59.04	-159.5	-781.3	6,932.1	6,799.5	132.60	52.278	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-30.7	30.7				
98.4	98.4	97.4	97.4	0.1	0.1	-90.00	0.0	-30.7	30.7	30.5	0.19	161.299	
100.0	100.0	99.0	99.0	0.1	0.1	-90.00	0.0	-30.7	30.7	30.5	0.19	158.546	
196.8	196.8	195.8	195.8	0.3	0.3	-90.00	0.0	-30.7	30.7	30.0	0.63	48.874	
200.0	200.0	199.0	199.0	0.3	0.3	-90.00	0.0	-30.7	30.7	30.0	0.64	47.796	
295.3	295.3	294.3	294.3	0.5	0.5	-90.00	0.0	-30.7	30.7	29.6	1.07	28.664	
300.0	300.0	299.0	299.0	0.5	0.5	-90.00	0.0	-30.7	30.7	29.6	1.09	28.106	
393.7	393.7	392.7	392.7	0.8	0.8	-90.00	0.0	-30.7	30.7	29.2	1.51	20.279	
400.0	400.0	399.0	399.0	0.8	0.8	-90.00	0.0	-30.7	30.7	29.1	1.54	19.906	
492.1	492.1	491.1	491.1	1.0	1.0	-90.00	0.0	-30.7	30.7	28.7	1.95	15.689	
500.0	500.0	499.0	499.0	1.0	1.0	-90.00	0.0	-30.7	30.7	28.7	1.99	15.410	
590.5	590.5	589.5	589.5	1.2	1.2	-90.00	0.0	-30.7	30.7	28.3	2.40	12.794	
600.0	600.0	599.0	599.0	1.2	1.2	-90.00	0.0	-30.7	30.7	28.2	2.44	12.571	
689.0	689.0	688.0	688.0	1.4	1.4	-90.00	0.0	-30.7	30.7	27.8	2.84	10.800	
700.0	700.0	699.0	699.0	1.4	1.4	-90.00	0.0	-30.7	30.7	27.8	2.89	10.615	
787.4	787.4	786.4	786.4	1.6	1.6	-90.00	0.0	-30.7	30.7	27.4	3.28	9.344	
800.0	800.0	799.0	799.0	1.7	1.7	-90.00	0.0	-30.7	30.7	27.3	3.34	9.186	
885.8	885.8	884.8	884.8	1.9	1.9	-90.00	0.0	-30.7	30.7	26.9	3.72	8.234	
900.0	900.0	899.0	899.0	1.9	1.9	-90.00	0.0	-30.7	30.7	26.9	3.79	8.096	
984.2	984.2	983.2	983.2	2.1	2.1	-90.00	0.0	-30.7	30.7	26.5	4.17	7.360	
1,000.0	1,000.0	999.0	999.0	2.1	2.1	-90.00	0.0	-30.7	30.7	26.4	4.24	7.237 CC	
1,082.7	1,082.7	1,080.8	1,080.8	2.3	2.3	-89.55	0.3	-31.8	31.8	27.2	4.60	6.912	
1,100.0	1,100.0	1,097.9	1,097.9	2.3	2.3	-89.35	0.4	-32.3	32.3	27.6	4.68	6.913	
1,181.1	1,181.1	1,178.1	1,178.0	2.5	2.5	-14.34	1.2	-36.1	35.0	30.0	5.01	6.989	
1,200.0	1,200.0	1,196.7	1,196.6	2.6	2.5	-14.19	1.5	-37.3	35.7	30.6	5.09	7.006	
1,279.5	1,279.4	1,275.2	1,274.8	2.7	2.7	-13.73	2.9	-43.6	38.3	32.9	5.42	7.079	
1,300.0	1,299.8	1,295.4	1,294.9	2.8	2.8	-13.65	3.3	-45.5	39.0	33.5	5.50	7.098	
1,377.9	1,377.5	1,372.3	1,371.2	2.9	2.9	-13.48	5.3	-54.2	41.6	35.8	5.82	7.156	
1,400.0	1,399.5	1,394.0	1,392.7	3.0	3.0	-13.46	5.9	-57.1	42.4	36.5	5.91	7.173	
1,476.4	1,475.3	1,469.2	1,467.1	3.2	3.2	-13.50	8.4	-68.1	44.9	38.7	6.22	7.219	
1,500.0	1,498.7	1,492.4	1,490.0	3.2	3.3	-13.53	9.3	-71.9	45.7	39.4	6.32	7.233	
1,574.8	1,572.6	1,566.0	1,562.3	3.4	3.5	-13.73	12.2	-85.0	48.2	41.6	6.64	7.265	
1,600.0	1,597.5	1,590.8	1,586.6	3.5	3.6	-13.82	13.3	-89.9	49.0	42.3	6.74	7.276	
1,673.2	1,669.4	1,662.7	1,656.8	3.7	3.8	-14.15	16.7	-105.1	51.5	44.4	7.06	7.295	
1,700.2	1,695.8	1,689.2	1,682.6	3.8	3.9	-14.29	18.1	-111.2	52.4	45.2	7.17	7.302	
1,771.6	1,765.7	1,759.7	1,750.9	4.1	4.2	-14.51	22.0	-128.3	55.5	48.0	7.51	7.383	
1,800.0	1,793.4	1,788.1	1,778.3	4.2	4.3	-14.56	23.5	-135.3	56.9	49.2	7.65	7.431	
1,870.1	1,862.0	1,858.1	1,846.0	4.4	4.7	-14.68	27.4	-152.6	60.3	52.3	8.00	7.535	
1,900.0	1,891.2	1,887.9	1,874.9	4.5	4.8	-14.72	29.1	-160.1	61.8	53.6	8.15	7.578	
1,968.5	1,958.3	1,956.4	1,941.1	4.8	5.1	-14.82	32.9	-177.0	65.1	56.6	8.49	7.667	
2,000.0	1,989.1	1,987.8	1,971.5	4.9	5.2	-14.86	34.7	-184.8	66.6	58.0	8.65	7.702	
2,066.9	2,054.5	2,054.7	2,036.1	5.2	5.6	-14.94	38.4	-201.4	69.9	60.9	9.00	7.769	
2,100.0	2,086.9	2,087.7	2,068.1	5.3	5.7	-14.98	40.2	-209.6	71.5	62.4	9.17	7.799	
2,165.3	2,150.8	2,153.0	2,131.2	5.6	6.0	-15.05	43.9	-225.7	74.7	65.2	9.51	7.855	
2,200.0	2,184.7	2,187.6	2,164.7	5.7	6.2	-15.09	45.8	-234.3	76.4	66.7	9.70	7.881	
2,263.8	2,247.1	2,251.3	2,226.3	6.0	6.5	-15.15	49.3	-250.1	79.6	69.5	10.04	7.926	
2,300.0	2,282.5	2,287.5	2,261.3	6.1	6.7	-15.18	51.4	-259.1	81.3	71.1	10.23	7.950	
2,362.2	2,343.3	2,349.6	2,321.4	6.4	7.0	-15.23	54.8	-274.5	84.4	73.8	10.56	7.986	
2,400.0	2,380.3	2,387.3	2,357.9	6.6	7.2	-15.26	56.9	-283.8	86.2	75.4	10.77	8.007	
2,460.6	2,439.6	2,447.9	2,416.5	6.8	7.5	-15.30	60.3	-298.8	89.2	78.1	11.10	8.037	
2,500.0	2,478.1	2,487.2	2,454.5	7.0	7.7	-15.33	62.5	-308.6	91.1	79.8	11.31	8.055	
2,559.0	2,535.9	2,546.2	2,511.6	7.2	8.0	-15.37	65.8	-323.2	94.0	82.4	11.63	8.080	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	2,587.1	2,551.1	7.4	8.2	-15.40	68.1	-333.3	96.0	84.1	11.86	8.096	
2,657.5	2,632.2	2,644.5	2,606.6	7.7	8.5	-15.43	71.3	-347.5	98.8	86.6	12.18	8.116	
2,700.0	2,673.8	2,687.0	2,647.7	7.8	8.8	-15.46	73.6	-358.1	100.9	88.5	12.41	8.130	
2,755.9	2,728.4	2,742.8	2,701.7	8.1	9.1	-15.49	76.7	-371.9	103.6	90.9	12.72	8.147	
2,800.0	2,771.6	2,786.9	2,744.3	8.3	9.3	-15.51	79.2	-382.8	105.8	92.8	12.96	8.160	
2,854.3	2,824.7	2,841.1	2,796.8	8.5	9.6	-15.54	82.2	-396.3	108.4	95.2	13.27	8.174	
2,900.0	2,869.4	2,886.7	2,840.9	8.7	9.8	-15.56	84.8	-407.6	110.7	97.2	13.52	8.185	
2,952.7	2,921.0	2,939.4	2,891.9	8.9	10.1	-15.58	87.7	-420.6	113.3	99.4	13.82	8.197	
3,000.0	2,967.2	2,986.6	2,937.5	9.2	10.3	-15.60	90.3	-432.3	115.6	101.5	14.08	8.207	
3,051.2	3,017.3	3,037.7	2,987.0	9.4	10.6	-15.63	93.2	-445.0	118.1	103.7	14.37	8.217	
3,100.0	3,065.0	3,086.5	3,034.1	9.6	10.9	-15.65	95.9	-457.1	120.5	105.8	14.65	8.226	
3,149.6	3,113.5	3,136.0	3,082.1	9.8	11.1	-15.66	98.6	-469.3	122.9	108.0	14.93	8.234	
3,200.0	3,162.8	3,186.4	3,130.7	10.0	11.4	-15.68	101.5	-481.8	125.4	110.2	15.21	8.242	
3,248.0	3,209.8	3,234.3	3,177.1	10.3	11.7	-15.70	104.1	-493.7	127.7	112.2	15.48	8.249	
3,300.0	3,260.6	3,286.3	3,227.4	10.5	11.9	-15.72	107.0	-506.6	130.3	114.5	15.78	8.256	
3,346.4	3,306.1	3,332.7	3,272.2	10.7	12.2	-15.73	109.6	-518.1	132.5	116.5	16.04	8.262	
3,400.0	3,358.4	3,386.1	3,324.0	10.9	12.5	-15.75	112.6	-531.3	135.1	118.8	16.35	8.269	
3,444.9	3,402.3	3,431.0	3,367.3	11.1	12.7	-15.76	115.1	-542.4	137.3	120.7	16.60	8.274	
3,500.0	3,456.3	3,486.0	3,420.6	11.4	13.0	-15.78	118.2	-556.1	140.0	123.1	16.91	8.279	
3,543.3	3,498.6	3,529.3	3,462.4	11.6	13.2	-15.79	120.6	-566.8	142.2	125.0	17.16	8.284	
3,600.0	3,554.1	3,585.9	3,517.2	11.8	13.5	-15.81	123.7	-580.8	144.9	127.5	17.49	8.289	
3,641.7	3,594.9	3,627.6	3,557.5	12.0	13.8	-15.82	126.0	-591.1	147.0	129.3	17.72	8.292	
3,700.0	3,651.9	3,685.8	3,613.8	12.3	14.1	-15.84	129.3	-605.6	149.8	131.8	18.06	8.297	
3,740.1	3,691.2	3,725.9	3,652.6	12.5	14.3	-15.85	131.5	-615.5	151.8	133.5	18.29	8.300	
3,800.0	3,749.7	3,785.7	3,710.4	12.7	14.6	-15.86	134.9	-630.3	154.7	136.1	18.63	8.304	
3,838.6	3,787.4	3,824.2	3,747.6	12.9	14.8	-15.87	137.0	-639.9	156.6	137.8	18.85	8.307	
3,900.0	3,847.5	3,885.5	3,807.0	13.2	15.2	-15.88	140.4	-655.1	159.6	140.4	19.21	8.311	
3,937.0	3,883.7	3,922.5	3,842.7	13.3	15.4	-15.89	142.5	-664.2	161.4	142.0	19.42	8.313	
4,000.0	3,945.3	3,985.4	3,903.6	13.6	15.7	-15.90	146.0	-679.8	164.5	144.7	19.78	8.316	
4,035.4	3,980.0	4,020.8	3,937.8	13.8	15.9	-15.91	148.0	-688.6	166.2	146.3	19.99	8.318	
4,100.0	4,043.1	4,085.3	4,000.2	14.1	16.2	-15.93	151.5	-704.6	169.4	149.0	20.36	8.321	
4,133.8	4,076.3	4,119.1	4,032.9	14.2	16.4	-15.93	153.4	-712.9	171.1	150.5	20.55	8.323	
4,200.0	4,141.0	4,185.2	4,096.8	14.5	16.8	-15.94	157.1	-729.3	174.3	153.4	20.93	8.326	
4,232.3	4,172.5	4,217.4	4,128.0	14.7	17.0	-15.95	158.9	-737.3	175.9	154.8	21.12	8.327	
4,300.0	4,238.8	4,285.1	4,193.4	15.0	17.3	-15.96	162.7	-754.1	179.2	157.7	21.51	8.330	
4,330.7	4,268.8	4,315.7	4,223.1	15.1	17.5	-15.97	164.4	-761.7	180.7	159.0	21.69	8.331	
4,400.0	4,336.6	4,384.9	4,290.0	15.4	17.9	-15.98	168.2	-778.8	184.1	162.0	22.09	8.333	
4,429.1	4,365.1	4,414.0	4,318.1	15.6	18.0	-15.99	169.9	-786.0	185.5	163.3	22.26	8.334	
4,500.0	4,434.4	4,484.8	4,386.6	15.9	18.4	-16.00	173.8	-803.6	189.0	166.3	22.67	8.336	
4,527.5	4,461.3	4,512.3	4,413.2	16.0	18.6	-16.00	175.3	-810.4	190.3	167.5	22.83	8.337	
4,600.0	4,532.2	4,584.7	4,483.2	16.4	18.9	-16.01	179.4	-828.3	193.9	170.6	23.25	8.339	
4,626.0	4,557.6	4,610.6	4,508.3	16.5	19.1	-16.02	180.8	-834.8	195.1	171.7	23.40	8.339	
4,700.0	4,630.0	4,684.6	4,579.8	16.8	19.5	-16.03	184.9	-853.1	198.8	174.9	23.83	8.341	
4,724.4	4,653.9	4,709.0	4,603.4	16.9	19.6	-16.03	186.3	-859.1	200.0	176.0	23.97	8.342	
4,800.0	4,727.8	4,784.5	4,676.4	17.3	20.0	-16.04	190.5	-877.8	203.7	179.3	24.41	8.343	
4,822.8	4,750.2	4,807.3	4,698.5	17.4	20.2	-16.04	191.8	-883.5	204.8	180.2	24.54	8.344	
4,900.0	4,825.6	4,884.3	4,773.0	17.7	20.6	-16.05	196.1	-902.6	208.6	183.6	24.99	8.345	
4,921.2	4,846.4	4,905.6	4,793.6	17.8	20.7	-16.06	197.3	-907.8	209.6	184.5	25.12	8.345	
5,000.0	4,923.5	4,984.2	4,869.6	18.2	21.1	-16.07	201.6	-927.3	213.5	187.9	25.57	8.347	
5,019.7	4,942.7	5,003.9	4,888.6	18.3	21.2	-16.07	202.7	-932.2	214.4	188.7	25.69	8.347	
5,100.0	5,021.3	5,084.1	4,966.2	18.6	21.7	-16.08	207.2	-952.1	218.3	192.2	26.16	8.348	
5,118.1	5,039.0	5,102.2	4,983.7	18.7	21.8	-16.08	208.2	-956.6	219.2	193.0	26.26	8.348	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	5,184.0	5,062.8	19.1	22.2	-16.09	212.8	-976.8	223.2	196.5	26.74	8.349	
5,216.5	5,135.3	5,200.5	5,078.8	19.2	22.3	-16.09	213.7	-980.9	224.0	197.2	26.83	8.350	
5,300.0	5,216.9	5,283.9	5,159.4	19.6	22.8	-16.10	218.3	-1,001.6	228.1	200.8	27.32	8.350	
5,314.9	5,231.5	5,298.8	5,173.9	19.6	22.8	-16.10	219.2	-1,005.3	228.9	201.5	27.41	8.351	
5,400.0	5,314.7	5,383.7	5,256.1	20.0	23.3	-16.11	223.9	-1,026.3	233.0	205.1	27.90	8.351	
5,413.4	5,327.8	5,397.1	5,269.0	20.1	23.4	-16.12	224.7	-1,029.6	233.7	205.7	27.98	8.351	
5,500.0	5,412.5	5,483.6	5,352.7	20.5	23.8	-16.12	229.5	-1,051.1	237.9	209.4	28.49	8.352	
5,511.8	5,424.1	5,495.4	5,364.1	20.5	23.9	-16.13	230.1	-1,054.0	238.5	209.9	28.56	8.352	
5,600.0	5,510.3	5,583.5	5,449.3	20.9	24.4	-16.13	235.0	-1,075.8	242.8	213.7	29.07	8.353	
5,610.2	5,520.3	5,593.7	5,459.1	21.0	24.4	-16.14	235.6	-1,078.4	243.3	214.2	29.13	8.353	
5,700.0	5,608.2	5,686.7	5,549.2	21.4	24.9	-16.16	240.7	-1,101.1	247.5	217.8	29.66	8.344	
5,708.6	5,616.6	5,696.2	5,558.3	21.4	25.0	-16.17	241.2	-1,103.3	247.8	218.1	29.71	8.340	
5,729.2	5,636.7	5,718.5	5,580.1	21.5	25.0	-16.19	242.4	-1,108.5	248.3	218.5	29.83	8.326	
5,800.0	5,706.1	5,795.9	5,655.6	21.8	25.3	-16.30	246.1	-1,124.8	250.0	219.8	30.22	8.273	
5,807.1	5,713.1	5,803.6	5,663.2	21.8	25.4	-16.31	246.4	-1,126.3	250.2	219.9	30.26	8.268	
5,900.0	5,804.7	5,905.2	5,763.0	22.1	25.7	-16.43	250.5	-1,144.5	252.0	221.3	30.70	8.210	
5,905.5	5,810.2	5,911.2	5,769.0	22.1	25.7	-16.44	250.7	-1,145.5	252.1	221.4	30.72	8.207	
6,000.0	5,903.9	6,014.6	5,871.2	22.3	26.0	-16.53	254.0	-1,160.2	253.7	222.6	31.11	8.154	
6,003.9	5,907.8	6,018.9	5,875.5	22.4	26.0	-16.53	254.1	-1,160.7	253.8	222.6	31.13	8.152	
6,100.0	6,003.4	6,124.0	5,980.0	22.6	26.2	-16.59	256.6	-1,171.9	255.0	223.5	31.46	8.105	
6,102.3	6,005.7	6,126.6	5,982.6	22.6	26.2	-16.59	256.7	-1,172.1	255.0	223.6	31.47	8.104	
6,200.0	6,103.2	6,233.5	6,089.2	22.7	26.4	-16.63	258.3	-1,179.5	255.9	224.2	31.75	8.062	
6,200.8	6,104.0	6,234.4	6,090.1	22.7	26.4	-16.63	258.4	-1,179.5	255.9	224.2	31.75	8.061	
6,299.2	6,202.3	6,342.2	6,197.8	22.9	26.6	-16.64	259.1	-1,183.0	256.5	224.5	31.97	8.023	
6,300.0	6,203.1	6,343.1	6,198.7	22.9	26.6	-16.64	259.1	-1,183.0	256.5	224.5	31.97	8.023	
6,329.4	6,232.5	6,375.2	6,230.8	22.9	26.6	-90.80	259.2	-1,183.3	256.6	224.5	32.06	8.002	
6,397.6	6,300.8	6,443.9	6,299.5	23.0	26.7	-90.95	258.5	-1,183.3	256.6	224.3	32.32	7.940	
6,400.0	6,303.1	6,446.3	6,301.9	23.0	26.7	-90.98	258.4	-1,183.3	256.6	224.3	32.33	7.937	
6,449.4	6,352.5	6,495.0	6,350.4	23.1	26.7	-91.85	254.5	-1,183.3	256.7	224.1	32.64	7.864	
6,496.0	6,399.2	6,540.6	6,395.6	23.1	26.7	86.76	247.8	-1,183.3	257.0	224.0	32.96	7.796	
6,500.0	6,403.1	6,544.5	6,399.3	23.1	26.7	86.66	247.1	-1,183.3	257.0	224.0	32.99	7.790	
6,550.0	6,452.8	6,593.0	6,446.7	23.1	26.8	85.43	236.7	-1,183.4	257.4	224.0	33.34	7.720	
6,594.5	6,496.6	6,635.8	6,487.8	23.2	26.8	84.35	224.8	-1,183.4	257.8	224.2	33.62	7.670	
6,600.0	6,502.0	6,641.1	6,492.8	23.2	26.8	84.22	223.2	-1,183.4	257.9	224.2	33.65	7.664	
6,650.0	6,550.5	6,688.9	6,537.7	23.2	26.8	83.05	206.7	-1,183.5	258.5	224.6	33.91	7.622	
6,692.9	6,591.4	6,729.6	6,575.0	23.2	26.8	82.08	190.3	-1,183.5	259.1	225.0	34.09	7.599	
6,700.0	6,598.0	6,736.3	6,581.1	23.2	26.8	81.92	187.4	-1,183.5	259.2	225.0	34.12	7.596	
6,750.0	6,644.4	6,783.5	6,622.8	23.2	26.8	80.84	165.4	-1,183.6	259.9	225.6	34.27	7.584	
6,791.3	6,681.6	6,822.3	6,656.0	23.2	26.8	79.98	145.3	-1,183.7	260.6	226.2	34.35	7.586	
6,800.0	6,689.3	6,830.4	6,662.8	23.2	26.8	79.80	140.9	-1,183.7	260.7	226.3	34.36	7.587	
6,850.0	6,732.6	6,877.0	6,700.8	23.2	26.8	78.82	114.0	-1,183.8	261.6	227.1	34.41	7.601	
6,889.7	6,765.7	6,913.9	6,729.7	23.2	26.8	78.08	91.0	-1,183.9	262.2	227.8	34.41	7.620	
6,900.0	6,774.0	6,923.4	6,736.9	23.2	26.8	77.90	84.8	-1,183.9	262.4	228.0	34.41	7.626	
6,950.0	6,813.3	6,969.6	6,770.8	23.2	26.8	77.03	53.5	-1,184.0	263.3	228.9	34.39	7.657	
6,988.2	6,841.9	7,004.7	6,795.2	23.2	26.8	76.42	28.3	-1,184.1	264.0	229.6	34.36	7.683	
7,000.0	6,850.5	7,015.5	6,802.5	23.2	26.8	76.23	20.3	-1,184.1	264.2	229.8	34.35	7.692	
7,050.0	6,885.2	7,061.2	6,831.9	23.2	26.8	75.50	-14.8	-1,184.3	265.0	230.7	34.31	7.724	
7,086.6	6,908.9	7,094.6	6,851.8	23.2	26.8	75.00	-41.5	-1,184.4	265.6	231.3	34.31	7.743	
7,100.0	6,917.3	7,106.8	6,858.8	23.2	26.8	74.83	-51.5	-1,184.4	265.8	231.5	34.31	7.748	
7,150.0	6,946.6	7,150.0	6,882.2	23.2	26.8	74.26	-87.8	-1,184.5	266.6	232.3	34.36	7.761	
7,185.0	6,965.5	7,183.9	6,899.0	23.3	26.8	73.86	-117.3	-1,184.7	267.1	232.7	34.46	7.752	
7,200.0	6,973.1	7,197.5	6,905.3	23.3	26.9	73.71	-129.3	-1,184.7	267.3	232.8	34.48	7.752	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	7,242.6	6,924.7	23.3	26.9	73.25	-170.0	-1,184.8	267.9	233.2	34.71	7.720	
7,283.4	7,010.4	7,272.8	6,936.2	23.4	26.9	72.99	-197.9	-1,184.9	268.3	233.4	34.93	7.682	
7,300.0	7,016.8	7,287.7	6,941.4	23.4	27.0	72.87	-211.8	-1,185.0	268.5	233.4	35.04	7.662	
7,350.0	7,033.8	7,332.6	6,955.5	23.5	27.0	72.56	-254.5	-1,185.2	268.9	233.4	35.51	7.573	
7,381.9	7,043.0	7,361.3	6,963.0	23.6	27.1	72.40	-282.1	-1,185.3	269.2	233.3	35.88	7.501	
7,400.0	7,047.6	7,377.5	6,966.8	23.6	27.2	72.32	-298.0	-1,185.3	269.3	233.2	36.12	7.456	
7,450.0	7,057.9	7,422.4	6,975.4	23.8	27.3	72.16	-342.0	-1,185.5	269.5	232.7	36.87	7.310	
7,480.3	7,062.5	7,450.0	6,979.3	23.9	27.4	72.09	-369.3	-1,185.6	269.6	232.2	37.40	7.209	
7,500.0	7,064.8	7,467.2	6,981.2	24.0	27.4	72.07	-386.4	-1,185.6	269.7	231.9	37.76	7.141	
7,550.0	7,068.3	7,512.0	6,984.2	24.2	27.6	72.05	-431.1	-1,185.8	269.7	230.9	38.79	6.952	
7,578.7	7,068.7	7,537.7	6,984.7	24.4	27.7	72.08	-456.8	-1,185.9	269.6	230.2	39.44	6.837	
7,578.9	7,068.7	7,537.9	6,984.7	24.4	27.7	72.08	-457.0	-1,185.9	269.6	230.2	39.44	6.837	
7,600.0	7,068.6	7,558.6	6,984.6	24.5	27.8	72.08	-477.7	-1,186.0	269.6	229.8	39.85	6.766	
7,677.1	7,068.1	7,635.7	6,984.2	25.1	28.2	72.11	-554.8	-1,186.3	269.6	228.2	41.37	6.516	
7,700.0	7,067.9	7,658.6	6,984.1	25.2	28.3	72.11	-577.7	-1,186.3	269.6	227.8	41.83	6.445	
7,775.6	7,067.4	7,734.2	6,983.7	25.9	28.9	72.13	-653.3	-1,186.6	269.6	226.1	43.45	6.203	
7,800.0	7,067.3	7,758.6	6,983.6	26.1	29.0	72.14	-677.7	-1,186.7	269.5	225.6	43.99	6.128	
7,874.0	7,066.8	7,832.6	6,983.3	26.8	29.7	72.16	-751.7	-1,187.0	269.5	223.7	45.77	5.888	
7,900.0	7,066.7	7,858.6	6,983.1	27.0	29.9	72.17	-777.7	-1,187.1	269.5	223.1	46.41	5.807	
7,972.4	7,066.2	7,931.0	6,982.8	27.8	30.6	72.19	-850.1	-1,187.3	269.5	221.2	48.28	5.582	
8,000.0	7,066.0	7,958.6	6,982.6	28.1	30.9	72.20	-877.7	-1,187.4	269.5	220.5	49.00	5.499	
8,070.8	7,065.6	8,029.4	6,982.3	28.9	31.6	72.22	-948.5	-1,187.7	269.4	218.5	50.93	5.290	
8,100.0	7,065.4	8,058.6	6,982.2	29.3	31.9	72.22	-977.7	-1,187.8	269.4	217.7	51.73	5.208	
8,169.3	7,065.0	8,127.9	6,981.8	30.2	32.7	72.24	-1,046.9	-1,188.1	269.4	215.7	53.70	5.016	
8,200.0	7,064.8	8,158.6	6,981.7	30.6	33.1	72.25	-1,077.7	-1,188.2	269.4	214.8	54.59	4.935	
8,267.7	7,064.4	8,226.3	6,981.3	31.5	33.9	72.27	-1,145.4	-1,188.4	269.3	212.8	56.59	4.760	
8,300.0	7,064.2	8,258.6	6,981.2	31.9	34.4	72.28	-1,177.7	-1,188.5	269.3	211.8	57.55	4.680	
8,366.1	7,063.7	8,324.7	6,980.9	32.8	35.2	72.30	-1,243.8	-1,188.8	269.3	209.7	59.56	4.522	
8,400.0	7,063.5	8,358.6	6,980.7	33.3	35.7	72.31	-1,277.7	-1,188.9	269.3	208.7	60.60	4.444	
8,464.5	7,063.1	8,423.1	6,980.4	34.2	36.6	72.33	-1,342.2	-1,189.1	269.3	206.7	62.61	4.301	
8,500.0	7,062.9	8,458.6	6,980.2	34.8	37.1	72.34	-1,377.7	-1,189.3	269.3	205.5	63.72	4.225	
8,563.0	7,062.5	8,521.6	6,979.9	35.7	38.0	72.35	-1,440.6	-1,189.5	269.2	203.5	65.73	4.096	
8,600.0	7,062.3	8,558.6	6,979.7	36.3	38.5	72.37	-1,477.7	-1,189.6	269.2	202.3	66.91	4.023	
8,661.4	7,061.9	8,620.0	6,979.4	37.2	39.4	72.38	-1,539.1	-1,189.9	269.2	200.3	68.90	3.907	
8,700.0	7,061.6	8,658.6	6,979.2	37.8	40.0	72.39	-1,577.7	-1,190.0	269.2	199.0	70.16	3.836	
8,759.8	7,061.3	8,718.4	6,978.9	38.8	40.9	72.41	-1,637.5	-1,190.2	269.1	197.0	72.13	3.731	
8,800.0	7,061.0	8,758.6	6,978.7	39.4	41.6	72.42	-1,677.7	-1,190.4	269.1	195.7	73.46	3.664	
8,858.2	7,060.6	8,816.8	6,978.4	40.3	42.5	72.44	-1,735.9	-1,190.6	269.1	193.7	75.40	3.569	
8,900.0	7,060.4	8,858.6	6,978.2	41.0	43.1	72.45	-1,777.6	-1,190.7	269.1	192.3	76.80	3.504	
8,956.7	7,060.0	8,915.2	6,978.0	41.9	44.1	72.47	-1,834.3	-1,191.0	269.1	190.4	78.71	3.418	
9,000.0	7,059.8	8,958.6	6,977.7	42.6	44.8	72.48	-1,877.6	-1,191.1	269.0	188.9	80.18	3.356	
9,055.1	7,059.4	9,013.7	6,977.5	43.6	45.7	72.49	-1,932.7	-1,191.3	269.0	187.0	82.05	3.279	
9,100.0	7,059.1	9,058.6	6,977.3	44.3	46.4	72.51	-1,977.6	-1,191.5	269.0	185.4	83.59	3.218	
9,153.5	7,058.8	9,112.1	6,977.0	45.2	47.3	72.52	-2,031.2	-1,191.7	269.0	183.6	85.43	3.149	
9,200.0	7,058.5	9,158.6	6,976.8	46.0	48.1	72.53	-2,077.6	-1,191.9	269.0	181.9	87.03	3.090	
9,251.9	7,058.2	9,210.5	6,976.5	46.9	49.0	72.55	-2,129.6	-1,192.0	268.9	180.1	88.83	3.028	
9,300.0	7,057.9	9,258.6	6,976.3	47.7	49.8	72.56	-2,177.6	-1,192.2	268.9	178.4	90.50	2.972	
9,350.4	7,057.6	9,308.9	6,976.0	48.6	50.6	72.58	-2,228.0	-1,192.4	268.9	176.6	92.26	2.915	
9,400.0	7,057.2	9,358.6	6,975.8	49.4	51.5	72.59	-2,277.6	-1,192.6	268.9	174.9	93.99	2.861	
9,448.8	7,056.9	9,407.4	6,975.5	50.3	52.3	72.60	-2,326.4	-1,192.8	268.9	173.2	95.70	2.809	
9,500.0	7,056.6	9,458.6	6,975.3	51.1	53.2	72.62	-2,377.6	-1,193.0	268.8	171.3	97.50	2.757	
9,547.2	7,056.3	9,505.8	6,975.1	52.0	54.1	72.63	-2,424.9	-1,193.1	268.8	169.7	99.17	2.711	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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-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	
9,600.0	7,056.0	9,558.6	6,974.8	52.9	55.0	72.65	-2,477.6	-1,193.3	268.8	167.8	101.04	2.660	
9,645.6	7,055.7	9,604.2	6,974.6	53.7	55.8	72.66	-2,523.3	-1,193.5	268.8	166.1	102.65	2.618	
9,700.0	7,055.4	9,658.6	6,974.3	54.6	56.8	72.67	-2,577.6	-1,193.7	268.8	164.2	104.59	2.570	
9,744.1	7,055.1	9,702.6	6,974.1	55.4	57.5	72.69	-2,621.7	-1,193.9	268.7	162.6	106.15	2.532	
9,800.0	7,054.7	9,758.6	6,973.8	56.4	58.5	72.70	-2,677.6	-1,194.1	268.7	160.6	108.15	2.485	
9,842.5	7,054.5	9,801.1	6,973.6	57.2	59.3	72.71	-2,720.1	-1,194.2	268.7	159.0	109.67	2.450	
9,900.0	7,054.1	9,858.6	6,973.3	58.2	60.3	72.73	-2,777.6	-1,194.4	268.7	156.9	111.73	2.405	
9,940.9	7,053.8	9,899.5	6,973.1	58.9	61.1	72.74	-2,818.5	-1,194.6	268.7	155.5	113.20	2.373	
10,000.0	7,053.5	9,958.6	6,972.8	60.0	62.1	72.76	-2,877.6	-1,194.8	268.6	153.3	115.32	2.329	
10,039.3	7,053.2	9,997.9	6,972.6	60.7	62.9	72.77	-2,917.0	-1,194.9	268.6	151.9	116.74	2.301	
10,100.0	7,052.8	10,058.6	6,972.3	61.8	64.0	72.78	-2,977.6	-1,195.2	268.6	149.7	118.93	2.259	
10,137.8	7,052.6	10,096.3	6,972.2	62.4	64.7	72.79	-3,015.4	-1,195.3	268.6	148.3	120.29	2.233	
10,200.0	7,052.2	10,158.6	6,971.9	63.6	65.8	72.81	-3,077.6	-1,195.5	268.6	146.0	122.54	2.192	
10,236.2	7,052.0	10,194.8	6,971.7	64.2	66.5	72.82	-3,113.8	-1,195.7	268.5	144.7	123.85	2.168	
10,300.0	7,051.6	10,258.6	6,971.4	65.4	67.6	72.84	-3,177.6	-1,195.9	268.5	142.4	126.17	2.128	
10,334.6	7,051.4	10,293.2	6,971.2	66.0	68.3	72.85	-3,212.2	-1,196.0	268.5	141.1	127.42	2.107	
10,400.0	7,051.0	10,358.6	6,970.9	67.2	69.5	72.87	-3,277.6	-1,196.3	268.5	138.7	129.80	2.068	
10,433.0	7,050.7	10,391.6	6,970.7	67.8	70.1	72.88	-3,310.7	-1,196.4	268.5	137.5	131.01	2.049	
10,500.0	7,050.3	10,458.6	6,970.4	69.0	71.3	72.90	-3,377.6	-1,196.7	268.4	135.0	133.45	2.012	
10,531.5	7,050.1	10,490.0	6,970.2	69.6	71.9	72.90	-3,409.1	-1,196.8	268.4	133.8	134.59	1.994	
10,600.0	7,049.7	10,558.6	6,969.9	70.8	73.2	72.92	-3,477.6	-1,197.0	268.4	131.3	137.10	1.958	
10,629.9	7,049.5	10,588.5	6,969.7	71.4	73.8	72.93	-3,507.5	-1,197.1	268.4	130.2	138.19	1.942	
10,700.0	7,049.1	10,658.6	6,969.4	72.7	75.1	72.95	-3,577.6	-1,197.4	268.4	127.6	140.76	1.907	
10,728.3	7,048.9	10,686.9	6,969.3	73.2	75.6	72.96	-3,605.9	-1,197.5	268.3	126.6	141.79	1.893	
10,800.0	7,048.4	10,758.6	6,968.9	74.5	76.9	72.98	-3,677.6	-1,197.8	268.3	123.9	144.42	1.858	
10,826.7	7,048.3	10,785.3	6,968.8	75.0	77.4	72.99	-3,704.4	-1,197.9	268.3	122.9	145.40	1.845	
10,900.0	7,047.8	10,858.6	6,968.4	76.3	78.8	73.01	-3,777.6	-1,198.1	268.3	120.2	148.09	1.812	
10,925.2	7,047.7	10,883.7	6,968.3	76.8	79.3	73.01	-3,802.8	-1,198.2	268.3	119.3	149.02	1.800	
11,000.0	7,047.2	10,958.6	6,967.9	78.2	80.7	73.03	-3,877.6	-1,198.5	268.2	116.5	151.77	1.767	
11,023.6	7,047.0	10,982.2	6,967.8	78.6	81.2	73.04	-3,901.2	-1,198.6	268.2	115.6	152.64	1.757	
11,100.0	7,046.6	11,058.6	6,967.4	80.0	82.6	73.06	-3,977.6	-1,198.9	268.2	112.7	155.46	1.725	
11,122.0	7,046.4	11,080.6	6,967.3	80.4	83.0	73.07	-3,999.6	-1,199.0	268.2	111.9	156.27	1.716	
11,200.0	7,045.9	11,158.6	6,966.9	81.9	84.5	73.09	-4,077.6	-1,199.2	268.2	109.0	159.14	1.685	
11,220.4	7,045.8	11,179.0	6,966.8	82.3	84.9	73.10	-4,098.0	-1,199.3	268.2	108.3	159.90	1.677	
11,300.0	7,045.3	11,258.6	6,966.4	83.7	86.4	73.12	-4,177.6	-1,199.6	268.1	105.3	162.84	1.647	
11,318.9	7,045.2	11,277.4	6,966.3	84.1	86.8	73.12	-4,196.5	-1,199.7	268.1	104.6	163.54	1.639	
11,400.0	7,044.7	11,358.6	6,965.9	85.6	88.3	73.14	-4,277.6	-1,200.0	268.1	101.5	166.54	1.610	
11,417.3	7,044.6	11,375.9	6,965.9	85.9	88.6	73.15	-4,294.9	-1,200.0	268.1	100.9	167.18	1.604	
11,500.0	7,044.0	11,458.6	6,965.4	87.5	90.2	73.17	-4,377.6	-1,200.4	268.0	97.8	170.24	1.575	
11,515.7	7,043.9	11,474.3	6,965.4	87.7	90.5	73.18	-4,393.3	-1,200.4	268.0	97.2	170.83	1.569	
11,600.0	7,043.4	11,558.6	6,964.9	89.3	92.1	73.20	-4,477.6	-1,200.7	268.0	94.1	173.95	1.541	
11,614.1	7,043.3	11,572.7	6,964.9	89.6	92.4	73.20	-4,491.7	-1,200.8	268.0	93.5	174.48	1.536	
11,700.0	7,042.8	11,658.6	6,964.5	91.2	94.0	73.23	-4,577.6	-1,201.1	268.0	90.3	177.66	1.508	
11,712.6	7,042.7	11,671.1	6,964.4	91.4	94.3	73.23	-4,590.2	-1,201.1	268.0	89.8	178.13	1.504	
11,800.0	7,042.2	11,758.6	6,964.0	93.0	96.0	73.26	-4,677.6	-1,201.5	267.9	86.6	181.38	1.477 Level 3	
11,811.0	7,042.1	11,769.6	6,963.9	93.2	96.2	73.26	-4,688.6	-1,201.5	267.9	86.1	181.79	1.474 Level 3	
11,900.0	7,041.5	11,858.6	6,963.5	94.9	97.9	73.28	-4,777.6	-1,201.8	267.9	82.8	185.10	1.447 Level 3	
11,909.4	7,041.5	11,868.0	6,963.4	95.1	98.1	73.29	-4,787.0	-1,201.9	267.9	82.4	185.45	1.445 Level 3	
12,000.0	7,040.9	11,958.6	6,963.0	96.8	99.8	73.31	-4,877.6	-1,202.2	267.9	79.0	188.82	1.419 Level 3	
12,007.8	7,040.8	11,966.4	6,962.9	96.9	99.9	73.31	-4,885.4	-1,202.2	267.9	78.7	189.12	1.416 Level 3	
12,100.0	7,040.3	12,058.6	6,962.5	98.7	101.7	73.34	-4,977.6	-1,202.6	267.8	75.3	192.55	1.391 Level 3	
12,106.3	7,040.2	12,064.8	6,962.4	98.8	101.8	73.34	-4,983.8	-1,202.6	267.8	75.0	192.78	1.389 Level 3	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,200.0	7,039.6	12,158.6	6,962.0	100.5	103.7	73.37	-5,077.6	-1,203.0	267.8	71.5	196.28	1.364	Level 3
12,204.7	7,039.6	12,163.3	6,962.0	100.6	103.7	73.37	-5,082.3	-1,203.0	267.8	71.3	196.46	1.363	Level 3
12,300.0	7,039.0	12,258.6	6,961.5	102.4	105.6	73.39	-5,177.6	-1,203.3	267.7	67.7	200.01	1.339	Level 3
12,303.1	7,039.0	12,261.7	6,961.5	102.5	105.6	73.39	-5,180.7	-1,203.3	267.7	67.6	200.13	1.338	Level 3
12,400.0	7,038.4	12,358.6	6,961.0	104.3	107.5	73.42	-5,277.6	-1,203.7	267.7	64.0	203.75	1.314	Level 3
12,401.5	7,038.4	12,360.1	6,961.0	104.3	107.5	73.42	-5,279.1	-1,203.7	267.7	63.9	203.81	1.314	Level 3
12,500.0	7,037.8	12,458.6	6,960.5	106.2	109.5	73.45	-5,377.6	-1,204.1	267.7	60.2	207.49	1.290	Level 3
12,598.4	7,037.1	12,557.0	6,960.0	108.0	111.4	73.47	-5,476.0	-1,204.4	267.6	56.5	211.17	1.267	Level 3
12,600.0	7,037.1	12,558.6	6,960.0	108.0	111.4	73.47	-5,477.6	-1,204.4	267.6	56.4	211.23	1.267	Level 3
12,696.8	7,036.5	12,655.4	6,959.5	109.9	113.3	73.50	-5,574.4	-1,204.8	267.6	52.7	214.86	1.245	Level 2
12,700.0	7,036.5	12,658.6	6,959.5	109.9	113.3	73.50	-5,577.6	-1,204.8	267.6	52.6	214.97	1.245	Level 2
12,795.2	7,035.9	12,753.8	6,959.0	111.7	115.2	73.53	-5,672.8	-1,205.2	267.6	49.0	218.54	1.224	Level 2
12,800.0	7,035.9	12,758.6	6,959.0	111.8	115.3	73.53	-5,677.6	-1,205.2	267.6	48.8	218.72	1.223	Level 2
12,893.7	7,035.3	12,852.2	6,958.5	113.6	117.1	73.56	-5,771.2	-1,205.5	267.5	45.3	222.23	1.204	Level 2
12,900.0	7,035.2	12,858.6	6,958.5	113.7	117.2	73.56	-5,777.6	-1,205.6	267.5	45.1	222.47	1.202	Level 2
12,992.1	7,034.7	12,950.7	6,958.1	115.4	119.0	73.58	-5,869.7	-1,205.9	267.5	41.6	225.93	1.184	Level 2
13,000.0	7,034.6	12,958.6	6,958.0	115.6	119.2	73.58	-5,877.6	-1,205.9	267.5	41.3	226.22	1.182	Level 2
13,090.5	7,034.0	13,049.1	6,957.6	117.3	120.9	73.61	-5,968.1	-1,206.3	267.5	37.8	229.62	1.165	Level 2
13,100.0	7,034.0	13,058.6	6,957.5	117.5	121.1	73.61	-5,977.5	-1,206.3	267.4	37.5	229.98	1.163	Level 2
13,188.9	7,033.4	13,147.5	6,957.1	119.1	122.8	73.64	-6,066.5	-1,206.6	267.4	34.1	233.32	1.146	Level 2
13,200.0	7,033.4	13,158.6	6,957.0	119.3	123.0	73.64	-6,077.5	-1,206.7	267.4	33.7	233.73	1.144	Level 2
13,287.4	7,032.8	13,245.9	6,956.6	121.0	124.7	73.66	-6,164.9	-1,207.0	267.4	30.4	237.02	1.128	Level 2
13,300.0	7,032.7	13,258.6	6,956.5	121.2	125.0	73.67	-6,177.5	-1,207.0	267.4	29.9	237.49	1.126	Level 2
13,385.8	7,032.2	13,344.4	6,956.1	122.9	126.7	73.69	-6,263.3	-1,207.4	267.3	26.6	240.72	1.111	Level 2
13,400.0	7,032.1	13,358.6	6,956.0	123.1	126.9	73.69	-6,277.5	-1,207.4	267.3	26.1	241.25	1.108	Level 2
13,484.2	7,031.6	13,442.8	6,955.6	124.7	128.6	73.72	-6,361.8	-1,207.7	267.3	22.9	244.42	1.094	Level 2
13,500.0	7,031.5	13,458.6	6,955.5	125.0	128.9	73.72	-6,377.5	-1,207.8	267.3	22.3	245.02	1.091	Level 2
13,582.6	7,030.9	13,541.2	6,955.1	126.6	130.5	73.74	-6,460.2	-1,208.1	267.3	19.1	248.13	1.077	Level 2
13,600.0	7,030.8	13,558.6	6,955.0	126.9	130.8	73.75	-6,477.5	-1,208.2	267.3	18.5	248.78	1.074	Level 2
13,681.1	7,030.3	13,639.6	6,954.6	128.4	132.4	73.77	-6,558.6	-1,208.5	267.2	15.4	251.83	1.061	Level 2
13,700.0	7,030.2	13,658.6	6,954.5	128.8	132.8	73.78	-6,577.5	-1,208.5	267.2	14.7	252.55	1.058	Level 2
13,779.5	7,029.7	13,738.1	6,954.1	130.3	134.4	73.80	-6,657.0	-1,208.8	267.2	11.7	255.54	1.046	Level 2
13,800.0	7,029.6	13,758.6	6,954.0	130.7	134.8	73.80	-6,677.5	-1,208.9	267.2	10.9	256.32	1.042	Level 2
13,877.9	7,029.1	13,836.5	6,953.7	132.2	136.3	73.82	-6,755.5	-1,209.2	267.2	7.9	259.25	1.031	Level 2
13,900.0	7,029.0	13,858.6	6,953.6	132.6	136.7	73.83	-6,777.5	-1,209.3	267.2	7.1	260.09	1.027	Level 2
13,976.3	7,028.5	13,934.9	6,953.2	134.0	138.2	73.85	-6,853.9	-1,209.6	267.1	4.2	262.97	1.016	Level 2
14,000.0	7,028.3	13,958.6	6,953.1	134.5	138.7	73.86	-6,877.5	-1,209.7	267.1	3.3	263.86	1.012	Level 2
14,074.8	7,027.9	14,033.3	6,952.7	135.9	140.1	73.88	-6,952.3	-1,209.9	267.1	0.4	266.68	1.002	Level 2
14,100.0	7,027.7	14,058.6	6,952.6	136.4	140.6	73.88	-6,977.5	-1,210.0	267.1	-0.5	267.63	0.998	Level 1
14,173.2	7,027.2	14,131.8	6,952.2	137.8	142.0	73.90	-7,050.7	-1,210.3	267.1	-3.3	270.37	0.988	Level 1
14,200.0	7,027.1	14,158.6	6,952.1	138.3	142.5	73.91	-7,077.5	-1,210.4	267.1	-4.3	271.36	0.984	Level 1
14,210.5	7,027.0	14,169.1	6,952.0	138.5	142.7	73.91	-7,088.0	-1,210.4	267.0	-4.7	271.75	0.983	Level 1, ES, SF

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	3.0	3.0	0.0	0.0	90.00	0.0	89.2	89.2					
98.4	98.4	101.4	101.4	0.1	0.1	90.00	0.0	89.2	89.2	89.0	0.20	455.562		
100.0	100.0	103.0	103.0	0.1	0.1	90.00	0.0	89.2	89.2	89.0	0.20	443.537		
196.8	196.8	199.8	199.8	0.3	0.3	90.00	0.0	89.2	89.2	88.6	0.64	140.172		
200.0	200.0	203.0	203.0	0.3	0.3	90.00	0.0	89.2	89.2	88.6	0.65	137.121		
295.3	295.3	298.3	298.3	0.5	0.5	90.00	0.0	89.2	89.2	88.1	1.08	82.693		
300.0	300.0	303.0	303.0	0.5	0.6	90.00	0.0	89.2	89.2	88.1	1.10	81.096		
393.7	393.7	396.7	396.7	0.8	0.8	90.00	0.0	89.2	89.2	87.7	1.52	58.645		
400.0	400.0	403.0	403.0	0.8	0.8	90.00	0.0	89.2	89.2	87.7	1.55	57.573		
492.1	492.1	495.1	495.1	1.0	1.0	90.00	0.0	89.2	89.2	87.3	1.96	45.432		
500.0	500.0	503.0	503.0	1.0	1.0	90.00	0.0	89.2	89.2	87.2	2.00	44.628		
590.5	590.5	593.5	593.5	1.2	1.2	90.00	0.0	89.2	89.2	86.8	2.41	37.079		
600.0	600.0	603.0	603.0	1.2	1.2	90.00	0.0	89.2	89.2	86.8	2.45	36.436		
689.0	689.0	692.0	692.0	1.4	1.4	90.00	0.0	89.2	89.2	86.4	2.85	31.320		
700.0	700.0	703.0	703.0	1.4	1.5	90.00	0.0	89.2	89.2	86.3	2.90	30.784		
787.4	787.4	790.4	790.4	1.6	1.6	90.00	0.0	89.2	89.2	85.9	3.29	27.110		
800.0	800.0	803.0	803.0	1.7	1.7	90.00	0.0	89.2	89.2	85.9	3.35	26.651		
885.8	885.8	888.8	888.8	1.9	1.9	90.00	0.0	89.2	89.2	85.5	3.73	23.897		
900.0	900.0	903.0	903.0	1.9	1.9	90.00	0.0	89.2	89.2	85.4	3.80	23.496		
984.2	984.2	987.2	987.2	2.1	2.1	90.00	0.0	89.2	89.2	85.0	4.18	21.365		
1,000.0	1,000.0	1,003.0	1,003.0	2.1	2.1	90.00	0.0	89.2	89.2	85.0	4.25	21.009		
1,082.7	1,082.7	1,085.7	1,085.7	2.3	2.3	90.00	0.0	89.2	89.2	84.6	4.62	19.318		
1,100.0	1,100.0	1,103.0	1,103.0	2.3	2.4	90.00	0.0	89.2	89.2	84.5	4.70	18.998 CC, ES		
1,181.1	1,181.1	1,184.1	1,184.1	2.5	2.5	164.36	0.0	89.2	90.3	85.3	5.05	17.879		
1,200.0	1,200.0	1,202.9	1,202.9	2.6	2.6	164.46	0.0	89.2	90.9	85.8	5.13	17.705		
1,279.5	1,279.4	1,280.8	1,280.8	2.7	2.7	164.49	0.9	89.9	95.3	89.9	5.47	17.431		
1,300.0	1,299.8	1,300.0	1,300.0	2.8	2.8	164.40	1.4	90.3	97.0	91.5	5.55	17.473		
1,377.9	1,377.5	1,376.7	1,376.6	2.9	3.0	163.65	4.4	92.5	105.5	99.6	5.88	17.940		
1,400.0	1,399.5	1,398.1	1,397.9	3.0	3.0	163.36	5.5	93.3	108.5	102.5	5.97	18.167		
1,476.4	1,475.3	1,471.6	1,471.2	3.2	3.2	162.18	10.3	96.9	120.9	114.6	6.29	19.209		
1,500.0	1,498.7	1,494.2	1,493.7	3.2	3.2	161.77	12.1	98.2	125.4	119.0	6.39	19.613		
1,574.8	1,572.6	1,565.1	1,564.1	3.4	3.4	160.42	18.7	103.0	141.5	134.8	6.71	21.086		
1,600.0	1,597.5	1,588.7	1,587.5	3.5	3.5	159.96	21.2	104.9	147.6	140.8	6.82	21.655		
1,673.2	1,669.4	1,656.7	1,654.8	3.7	3.6	158.65	29.2	110.8	167.3	160.2	7.14	23.445		
1,700.2	1,695.8	1,681.5	1,679.2	3.8	3.7	158.18	32.4	113.2	175.3	168.0	7.25	24.167		
1,771.6	1,765.7	1,746.4	1,743.1	4.1	3.9	157.06	41.8	120.1	197.4	189.9	7.59	26.000		
1,800.0	1,793.4	1,772.0	1,768.2	4.2	4.0	156.60	45.8	123.1	206.6	198.8	7.73	26.719		
1,870.1	1,862.0	1,836.6	1,831.4	4.4	4.2	155.44	56.4	131.0	229.7	221.6	8.08	28.417		
1,900.0	1,891.2	1,864.8	1,859.0	4.5	4.3	155.00	61.1	134.5	239.6	231.4	8.23	29.098		
1,968.5	1,958.3	1,929.3	1,922.1	4.8	4.5	154.10	71.9	142.5	262.4	253.8	8.59	30.545		
2,000.0	1,989.1	1,958.9	1,951.1	4.9	4.6	153.74	76.9	146.1	272.9	264.1	8.76	31.168		
2,066.9	2,054.5	2,021.9	2,012.7	5.2	4.8	153.06	87.4	153.9	295.2	286.1	9.11	32.402		
2,100.0	2,086.9	2,053.1	2,043.2	5.3	4.9	152.75	92.6	157.8	306.3	297.0	9.29	32.962		
2,165.3	2,150.8	2,114.6	2,103.3	5.6	5.1	152.22	102.9	165.4	328.1	318.5	9.65	34.012		
2,200.0	2,184.7	2,147.2	2,135.2	5.7	5.3	151.96	108.4	169.4	339.7	329.9	9.84	34.528		
2,263.8	2,247.1	2,207.3	2,194.0	6.0	5.5	151.53	118.4	176.8	361.1	350.9	10.19	35.425		
2,300.0	2,282.5	2,241.4	2,227.3	6.1	5.6	151.31	124.1	181.1	373.2	362.8	10.40	35.897		
2,362.2	2,343.3	2,299.9	2,284.6	6.4	5.8	150.96	133.9	188.3	394.1	383.3	10.75	36.665		
2,400.0	2,380.3	2,335.5	2,319.4	6.6	6.0	150.77	139.8	192.7	406.7	395.8	10.96	37.099		
2,460.6	2,439.6	2,392.6	2,375.3	6.8	6.2	150.48	149.4	199.8	427.1	415.8	11.31	37.758		
2,500.0	2,478.1	2,429.7	2,411.5	7.0	6.4	150.31	155.6	204.4	440.3	428.7	11.54	38.160		
2,559.0	2,535.9	2,485.2	2,465.9	7.2	6.6	150.07	164.9	211.2	460.1	448.2	11.88	38.728		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	2,523.8	2,503.6	7.4	6.7	149.92	171.3	216.0	473.9	461.7	12.12	39.100	
2,657.5	2,632.2	2,577.9	2,556.5	7.7	7.0	149.71	180.4	222.7	493.2	480.7	12.46	39.592	
2,700.0	2,673.8	2,618.0	2,595.7	7.8	7.1	149.57	187.0	227.7	507.5	494.7	12.71	39.937	
2,755.9	2,728.4	2,670.6	2,647.2	8.1	7.3	149.40	195.8	234.2	526.2	513.2	13.04	40.365	
2,800.0	2,771.6	2,712.1	2,687.8	8.3	7.5	149.27	202.8	239.3	541.1	527.8	13.30	40.687	
2,854.3	2,824.7	2,763.2	2,737.8	8.5	7.7	149.12	211.3	245.6	559.3	545.7	13.62	41.060	
2,900.0	2,869.4	2,806.2	2,779.9	8.7	7.9	149.01	218.5	250.9	574.7	560.8	13.89	41.360	
2,952.7	2,921.0	2,855.9	2,828.5	8.9	8.1	148.88	226.8	257.1	592.4	578.2	14.21	41.688	
3,000.0	2,967.2	2,908.9	2,880.4	9.2	8.3	148.78	235.3	263.4	608.0	593.5	14.50	41.931	
3,051.2	3,017.3	2,967.2	2,937.7	9.4	8.5	148.75	243.8	269.6	624.2	609.4	14.80	42.178	
3,100.0	3,065.0	3,023.4	2,993.1	9.6	8.6	148.78	251.0	275.0	638.8	623.8	15.08	42.365	
3,149.6	3,113.5	3,080.9	3,050.2	9.8	8.8	148.88	257.5	279.8	653.0	637.7	15.36	42.511	
3,200.0	3,162.8	3,140.0	3,108.8	10.0	9.0	149.05	263.3	284.1	666.7	651.1	15.64	42.621	
3,248.0	3,209.8	3,196.6	3,165.1	10.3	9.1	149.26	267.9	287.5	679.0	663.1	15.91	42.684	
3,300.0	3,260.6	3,258.4	3,226.7	10.5	9.2	149.56	271.8	290.4	691.5	675.3	16.18	42.726	
3,346.4	3,306.1	3,313.9	3,282.1	10.7	9.3	149.87	274.5	292.4	702.0	685.6	16.43	42.729	
3,400.0	3,358.4	3,378.3	3,346.4	10.9	9.5	150.29	276.5	293.9	713.3	696.6	16.70	42.708	
3,444.9	3,402.3	3,432.4	3,400.5	11.1	9.6	150.69	277.3	294.5	722.1	705.1	16.92	42.666	
3,500.0	3,456.3	3,491.1	3,459.3	11.4	9.6	151.16	277.4	294.5	732.2	715.0	17.18	42.613	
3,543.3	3,498.6	3,533.5	3,501.6	11.6	9.7	151.49	277.4	294.5	740.1	722.8	17.39	42.568	
3,600.0	3,554.1	3,588.9	3,557.1	11.8	9.8	151.92	277.4	294.5	750.6	732.9	17.66	42.513	
3,641.7	3,594.9	3,629.8	3,597.9	12.0	9.9	152.23	277.4	294.5	758.3	740.4	17.85	42.474	
3,700.0	3,651.9	3,686.8	3,654.9	12.3	10.0	152.65	277.4	294.5	769.1	751.0	18.13	42.425	
3,740.1	3,691.2	3,726.0	3,694.2	12.5	10.0	152.93	277.4	294.5	776.5	758.2	18.32	42.394	
3,800.0	3,749.7	3,784.6	3,752.7	12.7	10.1	153.34	277.4	294.5	787.7	769.1	18.60	42.352	
3,838.6	3,787.4	3,822.3	3,790.4	12.9	10.2	153.60	277.4	294.5	794.9	776.1	18.78	42.327	
3,900.0	3,847.5	3,882.4	3,850.5	13.2	10.3	154.00	277.4	294.5	806.4	787.3	19.07	42.292	
3,937.0	3,883.7	3,918.6	3,886.7	13.3	10.4	154.24	277.4	294.5	813.4	794.1	19.24	42.272	
4,000.0	3,945.3	3,980.2	3,948.3	13.6	10.5	154.63	277.4	294.5	825.2	805.7	19.54	42.241	
4,035.4	3,980.0	4,014.8	3,983.0	13.8	10.5	154.85	277.4	294.5	831.9	812.2	19.70	42.225	
4,100.0	4,043.1	4,078.0	4,046.1	14.1	10.7	155.23	277.4	294.5	844.1	824.1	20.00	42.200	
4,133.8	4,076.3	4,111.1	4,079.3	14.2	10.7	155.43	277.4	294.5	850.6	830.4	20.16	42.187	
4,200.0	4,141.0	4,175.8	4,144.0	14.5	10.8	155.81	277.4	294.5	863.1	842.7	20.47	42.166	
4,232.3	4,172.5	4,207.4	4,175.5	14.7	10.9	155.99	277.4	294.5	869.3	848.7	20.62	42.157	
4,300.0	4,238.8	4,273.6	4,241.8	15.0	11.0	156.36	277.4	294.5	882.2	861.3	20.94	42.139	
4,330.7	4,268.8	4,303.7	4,271.8	15.1	11.1	156.53	277.4	294.5	888.1	867.0	21.08	42.132	
4,400.0	4,336.6	4,371.5	4,339.6	15.4	11.2	156.89	277.4	294.5	901.4	880.0	21.40	42.118	
4,429.1	4,365.1	4,399.9	4,368.1	15.6	11.2	157.04	277.4	294.5	907.0	885.4	21.54	42.113	
4,500.0	4,434.4	4,469.3	4,437.4	15.9	11.4	157.40	277.4	294.5	920.6	898.7	21.87	42.102	
4,527.5	4,461.3	4,496.2	4,464.3	16.0	11.4	157.53	277.4	294.5	925.9	903.9	21.99	42.098	
4,600.0	4,532.2	4,567.1	4,535.2	16.4	11.6	157.88	277.4	294.5	939.9	917.6	22.33	42.090	
4,626.0	4,557.6	4,592.5	4,560.6	16.5	11.6	158.00	277.4	294.5	944.9	922.5	22.45	42.088	
4,700.0	4,630.0	4,664.9	4,633.0	16.8	11.7	158.35	277.4	294.5	959.3	936.5	22.80	42.082	
4,724.4	4,653.9	4,688.8	4,656.9	16.9	11.8	158.46	277.4	294.5	964.0	941.1	22.91	42.081	
4,800.0	4,727.8	4,762.7	4,730.8	17.3	11.9	158.80	277.4	294.5	978.7	955.4	23.26	42.078	
4,822.8	4,750.2	4,785.0	4,753.2	17.4	12.0	158.90	277.4	294.5	983.1	959.8	23.36	42.077	
4,900.0	4,825.6	4,860.5	4,828.6	17.7	12.1	159.23	277.4	294.5	998.2	974.4	23.72	42.076	
4,921.2	4,846.4	4,881.3	4,849.4	17.8	12.1	159.32	277.4	294.5	1,002.3	978.5	23.82	42.076	
5,000.0	4,923.5	4,958.3	4,926.5	18.2	12.3	159.64	277.4	294.5	1,017.7	993.5	24.19	42.076	
5,019.7	4,942.7	4,977.6	4,945.7	18.3	12.3	159.72	277.4	294.5	1,021.5	997.3	24.28	42.076	
5,100.0	5,021.3	5,056.1	5,024.3	18.6	12.5	160.04	277.4	294.5	1,037.3	1,012.6	24.65	42.078	
5,118.1	5,039.0	5,073.8	5,042.0	18.7	12.5	160.11	277.4	294.5	1,040.8	1,016.1	24.73	42.079	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	5,154.0	5,122.1	19.1	12.7	160.42	277.4	294.5	1,056.9	1,031.8	25.11	42.083	
5,216.5	5,135.3	5,170.1	5,138.3	19.2	12.7	160.49	277.4	294.5	1,060.1	1,034.9	25.19	42.083	
5,300.0	5,216.9	5,251.8	5,219.9	19.6	12.9	160.79	277.4	294.5	1,076.5	1,051.0	25.58	42.088	
5,314.9	5,231.5	5,266.4	5,234.5	19.6	12.9	160.85	277.4	294.5	1,079.5	1,053.8	25.65	42.089	
5,400.0	5,314.7	5,349.6	5,317.7	20.0	13.0	161.15	277.4	294.5	1,096.3	1,070.2	26.04	42.095	
5,413.4	5,327.8	5,362.7	5,330.8	20.1	13.1	161.20	277.4	294.5	1,098.9	1,072.8	26.10	42.096	
5,500.0	5,412.5	5,447.4	5,415.5	20.5	13.2	161.49	277.4	294.5	1,116.0	1,089.5	26.51	42.103	
5,511.8	5,424.1	5,458.9	5,427.1	20.5	13.3	161.53	277.4	294.5	1,118.3	1,091.8	26.56	42.104	
5,600.0	5,510.3	5,545.2	5,513.3	20.9	13.4	161.83	277.4	294.5	1,135.8	1,108.8	26.97	42.112	
5,610.2	5,520.3	5,555.2	5,523.3	21.0	13.5	161.86	277.4	294.5	1,137.8	1,110.8	27.02	42.112	
5,700.0	5,608.2	5,643.0	5,611.2	21.4	13.6	162.15	277.4	294.5	1,155.6	1,128.2	27.44	42.121	
5,708.6	5,616.6	5,651.5	5,619.6	21.4	13.6	162.17	277.4	294.5	1,157.3	1,129.8	27.48	42.122	
5,729.2	5,636.7	5,671.5	5,639.7	21.5	13.7	162.24	277.4	294.5	1,161.4	1,133.8	27.57	42.124	
5,800.0	5,706.1	5,741.0	5,709.1	21.8	13.8	162.53	277.4	294.5	1,174.6	1,146.7	27.94	42.036	
5,807.1	5,713.1	5,748.0	5,716.1	21.8	13.8	162.55	277.4	294.5	1,175.9	1,147.9	27.98	42.029	
5,900.0	5,804.7	5,839.6	5,807.7	22.1	14.0	162.86	277.4	294.5	1,190.6	1,162.1	28.42	41.890	
5,905.5	5,810.2	5,845.0	5,813.2	22.1	14.0	162.88	277.4	294.5	1,191.3	1,162.9	28.45	41.880	
6,000.0	5,903.9	5,938.7	5,906.9	22.3	14.2	163.12	277.4	294.5	1,203.2	1,174.3	28.87	41.681	
6,003.9	5,907.8	5,942.6	5,910.8	22.4	14.2	163.13	277.4	294.5	1,203.6	1,174.7	28.88	41.672	
6,100.0	6,003.4	6,038.2	6,006.4	22.6	14.4	163.31	277.4	294.5	1,212.5	1,183.2	29.28	41.415	
6,102.3	6,005.7	6,040.6	6,008.7	22.6	14.4	163.31	277.4	294.5	1,212.7	1,183.4	29.29	41.408	
6,200.0	6,103.2	6,138.0	6,106.2	22.7	14.6	163.43	277.4	294.5	1,218.5	1,188.9	29.65	41.091	
6,200.8	6,104.0	6,138.8	6,107.0	22.7	14.6	163.43	277.4	294.5	1,218.5	1,188.9	29.66	41.089	
6,299.2	6,202.3	6,237.2	6,205.3	22.9	14.8	163.48	277.4	294.5	1,221.2	1,191.2	29.99	40.716	
6,300.0	6,203.1	6,238.0	6,206.1	22.9	14.8	163.48	277.4	294.5	1,221.2	1,191.2	29.99	40.713	
6,329.4	6,232.5	6,267.4	6,235.5	22.9	14.9	89.32	277.4	294.5	1,221.3	1,191.2	30.10	40.571	
6,397.6	6,300.8	6,336.8	6,304.9	23.0	15.0	89.39	275.8	294.5	1,221.3	1,191.0	30.33	40.267	
6,400.0	6,303.1	6,339.3	6,307.4	23.0	15.0	89.40	275.6	294.5	1,221.3	1,190.9	30.34	40.257	
6,449.4	6,352.5	6,389.4	6,357.2	23.1	15.0	89.65	270.3	294.5	1,221.2	1,190.8	30.46	40.088	
6,496.0	6,399.2	6,436.2	6,403.3	23.1	15.1	-90.26	262.2	294.5	1,221.2	1,190.6	30.54	39.990	
6,500.0	6,403.1	6,440.1	6,407.1	23.1	15.1	-90.23	261.4	294.5	1,221.2	1,190.6	30.54	39.981	
6,535.4	6,438.3	6,475.3	6,441.3	23.1	15.1	-90.00	253.2	294.4	1,221.2	1,190.6	30.58	39.930	
6,550.0	6,452.8	6,489.7	6,455.2	23.1	15.1	-89.91	249.3	294.4	1,221.2	1,190.6	30.60	39.911	
6,594.5	6,496.6	6,533.5	6,496.8	23.2	15.1	-89.62	235.9	294.4	1,221.2	1,190.6	30.62	39.883	
6,600.0	6,502.0	6,538.9	6,501.9	23.2	15.1	-89.58	234.1	294.4	1,221.2	1,190.6	30.62	39.880	
6,650.0	6,550.5	6,587.6	6,547.1	23.2	15.1	-89.26	215.9	294.3	1,221.3	1,190.6	30.63	39.877	
6,692.9	6,591.4	6,629.0	6,584.4	23.2	15.1	-88.99	198.0	294.2	1,221.4	1,190.7	30.62	39.892	
6,700.0	6,598.0	6,635.8	6,590.5	23.2	15.1	-88.94	194.8	294.2	1,221.4	1,190.8	30.61	39.895	
6,750.0	6,644.4	6,683.6	6,632.0	23.2	15.1	-88.63	171.1	294.1	1,221.5	1,190.9	30.60	39.920	
6,791.3	6,681.6	6,722.8	6,664.8	23.2	15.1	-88.38	149.7	294.1	1,221.7	1,191.1	30.59	39.938	
6,800.0	6,689.3	6,731.0	6,671.5	23.2	15.1	-88.33	145.0	294.0	1,221.7	1,191.1	30.59	39.942	
6,850.0	6,732.6	6,778.1	6,708.9	23.2	15.1	-88.04	116.5	293.9	1,221.9	1,191.3	30.59	39.947	
6,889.7	6,765.7	6,815.2	6,737.1	23.2	15.1	-87.81	92.3	293.8	1,222.1	1,191.5	30.61	39.929	
6,900.0	6,774.0	6,824.7	6,744.1	23.2	15.1	-87.75	85.8	293.8	1,222.1	1,191.5	30.61	39.922	
6,950.0	6,813.3	6,871.1	6,777.0	23.2	15.1	-87.48	53.2	293.7	1,222.4	1,191.7	30.67	39.857	
6,988.2	6,841.9	6,906.3	6,800.6	23.2	15.1	-87.28	27.1	293.6	1,222.6	1,191.8	30.74	39.771	
7,000.0	6,850.5	6,917.1	6,807.6	23.2	15.1	-87.22	18.8	293.6	1,222.6	1,191.9	30.77	39.738	
7,050.0	6,885.2	6,962.9	6,835.7	23.2	15.1	-86.97	-17.3	293.4	1,222.9	1,192.0	30.91	39.557	
7,086.6	6,908.9	6,996.2	6,854.6	23.2	15.1	-86.80	-44.7	293.3	1,223.1	1,192.0	31.06	39.374	
7,100.0	6,917.3	7,008.3	6,861.2	23.2	15.1	-86.74	-54.9	293.3	1,223.2	1,192.0	31.12	39.301	
7,150.0	6,946.6	7,053.5	6,884.2	23.2	15.2	-86.52	-93.8	293.2	1,223.4	1,192.0	31.39	38.971	
7,185.0	6,965.5	7,085.1	6,898.8	23.3	15.3	-86.37	-121.8	293.1	1,223.6	1,192.0	31.63	38.685	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,200.0	6,973.1	7,100.0	6,905.3	23.3	15.4	-86.31	-135.2	293.0	1,223.7	1,192.0	31.74	38.554	
7,250.0	6,996.5	7,143.3	6,922.4	23.3	15.6	-86.13	-175.0	292.9	1,224.0	1,191.8	32.15	38.067	
7,283.4	7,010.4	7,173.2	6,932.9	23.4	15.8	-86.01	-203.0	292.8	1,224.1	1,191.7	32.48	37.688	
7,300.0	7,016.8	7,187.9	6,937.6	23.4	15.9	-85.96	-216.9	292.7	1,224.2	1,191.6	32.65	37.500	
7,350.0	7,033.8	7,232.3	6,950.0	23.5	16.2	-85.81	-259.6	292.6	1,224.5	1,191.2	33.21	36.865	
7,381.9	7,043.0	7,260.6	6,956.5	23.6	16.4	-85.72	-287.1	292.5	1,224.6	1,191.0	33.62	36.426	
7,400.0	7,047.6	7,276.6	6,959.8	23.6	16.6	-85.67	-302.8	292.4	1,224.7	1,190.8	33.86	36.172	
7,450.0	7,057.9	7,320.8	6,966.8	23.8	16.9	-85.56	-346.4	292.2	1,224.8	1,190.3	34.57	35.432	
7,480.3	7,062.5	7,350.0	6,970.0	23.9	17.2	-85.50	-375.4	292.1	1,224.9	1,189.9	35.06	34.943	
7,500.0	7,064.8	7,364.8	6,971.1	24.0	17.3	-85.47	-390.2	292.1	1,225.0	1,189.7	35.35	34.656	
7,550.0	7,068.3	7,408.8	6,972.8	24.2	17.8	-85.39	-434.1	291.9	1,225.1	1,188.9	36.19	33.857	
7,578.7	7,068.7	7,436.0	6,972.6	24.4	18.0	-85.36	-461.3	291.8	1,225.2	1,188.5	36.72	33.363	
7,578.9	7,068.7	7,436.1	6,972.6	24.4	18.0	-85.36	-461.5	291.8	1,225.2	1,188.5	36.72	33.361	
7,600.0	7,068.6	7,457.3	6,972.4	24.5	18.3	-85.36	-482.6	291.7	1,225.2	1,188.0	37.16	32.974	
7,677.1	7,068.1	7,534.4	6,971.7	25.1	19.1	-85.35	-559.7	291.5	1,225.2	1,186.5	38.75	31.620	
7,700.0	7,067.9	7,557.3	6,971.5	25.2	19.4	-85.35	-582.6	291.4	1,225.2	1,186.0	39.23	31.229	
7,775.6	7,067.4	7,632.8	6,970.8	25.9	20.3	-85.34	-658.2	291.1	1,225.2	1,184.3	40.96	29.910	
7,800.0	7,067.3	7,657.3	6,970.6	26.1	20.6	-85.33	-682.6	291.0	1,225.2	1,183.7	41.54	29.496	
7,874.0	7,066.8	7,731.3	6,969.9	26.8	21.6	-85.32	-756.6	290.7	1,225.2	1,181.8	43.46	28.193	
7,900.0	7,066.7	7,757.3	6,969.7	27.0	22.0	-85.32	-782.6	290.6	1,225.3	1,181.1	44.15	27.752	
7,972.4	7,066.2	7,829.7	6,969.0	27.8	23.0	-85.31	-855.0	290.4	1,225.3	1,179.1	46.16	26.544	
8,000.0	7,066.0	7,857.3	6,968.8	28.1	23.4	-85.31	-882.6	290.3	1,225.3	1,178.3	46.94	26.103	
8,070.8	7,065.6	7,928.1	6,968.2	28.9	24.5	-85.30	-953.4	290.0	1,225.3	1,176.3	49.01	24.999	
8,100.0	7,065.4	7,957.3	6,967.9	29.3	24.9	-85.29	-982.6	289.9	1,225.3	1,175.4	49.88	24.565	
8,169.3	7,065.0	8,026.5	6,967.3	30.2	26.0	-85.29	-1,051.8	289.7	1,225.3	1,173.3	51.99	23.566	
8,200.0	7,064.8	8,057.3	6,967.0	30.6	26.5	-85.28	-1,082.6	289.5	1,225.3	1,172.4	52.94	23.144	
8,267.7	7,064.4	8,125.0	6,966.4	31.5	27.6	-85.27	-1,150.3	289.3	1,225.3	1,170.3	55.08	22.246	
8,300.0	7,064.2	8,157.3	6,966.1	31.9	28.1	-85.27	-1,182.6	289.2	1,225.3	1,169.2	56.11	21.838	
8,366.1	7,063.7	8,223.4	6,965.5	32.8	29.2	-85.26	-1,248.7	288.9	1,225.4	1,167.1	58.26	21.033	
8,400.0	7,063.5	8,257.3	6,965.2	33.3	29.8	-85.26	-1,282.5	288.8	1,225.4	1,166.0	59.37	20.641	
8,464.5	7,063.1	8,321.8	6,964.6	34.2	30.9	-85.25	-1,347.1	288.6	1,225.4	1,163.9	61.51	19.922	
8,500.0	7,062.9	8,357.3	6,964.3	34.8	31.5	-85.24	-1,382.5	288.5	1,225.4	1,162.7	62.70	19.545	
8,563.0	7,062.5	8,420.2	6,963.7	35.7	32.6	-85.23	-1,445.5	288.2	1,225.4	1,160.6	64.83	18.903	
8,600.0	7,062.3	8,457.3	6,963.3	36.3	33.2	-85.23	-1,482.5	288.1	1,225.4	1,159.3	66.09	18.543	
8,661.4	7,061.9	8,518.7	6,962.8	37.2	34.3	-85.22	-1,543.9	287.9	1,225.4	1,157.2	68.20	17.969	
8,700.0	7,061.6	8,557.3	6,962.4	37.8	35.0	-85.22	-1,582.5	287.7	1,225.5	1,155.9	69.53	17.625	
8,759.8	7,061.3	8,617.1	6,961.9	38.8	36.1	-85.21	-1,642.3	287.5	1,225.5	1,153.9	71.61	17.112	
8,800.0	7,061.0	8,657.3	6,961.5	39.4	36.8	-85.20	-1,682.5	287.4	1,225.5	1,152.5	73.02	16.783	
8,858.2	7,060.6	8,715.5	6,961.0	40.3	37.9	-85.20	-1,740.8	287.1	1,225.5	1,150.4	75.07	16.324	
8,900.0	7,060.4	8,757.3	6,960.6	41.0	38.6	-85.19	-1,782.5	287.0	1,225.5	1,149.0	76.55	16.009	
8,956.7	7,060.0	8,813.9	6,960.1	41.9	39.6	-85.18	-1,839.2	286.8	1,225.5	1,147.0	78.57	15.599	
9,000.0	7,059.8	8,857.3	6,959.7	42.6	40.4	-85.18	-1,882.5	286.6	1,225.5	1,145.4	80.11	15.297	
9,055.1	7,059.4	8,912.3	6,959.2	43.6	41.5	-85.17	-1,937.6	286.4	1,225.5	1,143.5	82.09	14.929	
9,100.0	7,059.1	8,957.2	6,958.8	44.3	42.3	-85.16	-1,982.5	286.3	1,225.6	1,141.9	83.71	14.641	
9,153.5	7,058.8	9,010.8	6,958.3	45.2	43.3	-85.16	-2,036.0	286.1	1,225.6	1,139.9	85.64	14.311	
9,200.0	7,058.5	9,057.2	6,957.9	46.0	44.1	-85.15	-2,082.5	285.9	1,225.6	1,138.3	87.33	14.035	
9,251.9	7,058.2	9,109.2	6,957.4	46.9	45.1	-85.14	-2,134.4	285.7	1,225.6	1,136.4	89.22	13.737	
9,300.0	7,057.9	9,157.2	6,957.0	47.7	46.0	-85.14	-2,182.5	285.5	1,225.6	1,134.6	90.97	13.473	
9,350.4	7,057.6	9,207.6	6,956.5	48.6	46.9	-85.13	-2,232.9	285.4	1,225.6	1,132.8	92.81	13.206	
9,400.0	7,057.2	9,257.2	6,956.1	49.4	47.9	-85.12	-2,282.5	285.2	1,225.6	1,131.0	94.63	12.952	
9,448.8	7,056.9	9,306.0	6,955.6	50.3	48.8	-85.12	-2,331.3	285.0	1,225.7	1,129.2	96.43	12.711	
9,500.0	7,056.6	9,357.2	6,955.2	51.1	49.8	-85.11	-2,382.5	284.8	1,225.7	1,127.4	98.31	12.467	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.3	9,404.5	6,954.7	52.0	50.7	-85.10	-2,429.7	284.6	1,225.7	1,125.6	100.06	12.250	
9,600.0	7,056.0	9,457.2	6,954.2	52.9	51.7	-85.10	-2,482.5	284.4	1,225.7	1,123.7	102.01	12.016	
9,645.6	7,055.7	9,502.9	6,953.8	53.7	52.5	-85.09	-2,528.1	284.3	1,225.7	1,122.0	103.70	11.820	
9,700.0	7,055.4	9,557.2	6,953.3	54.6	53.6	-85.08	-2,582.5	284.1	1,225.7	1,120.0	105.72	11.594	
9,744.1	7,055.1	9,601.3	6,952.9	55.4	54.4	-85.08	-2,626.5	283.9	1,225.7	1,118.4	107.36	11.417	
9,800.0	7,054.7	9,657.2	6,952.4	56.4	55.5	-85.07	-2,682.4	283.7	1,225.8	1,116.3	109.44	11.200	
9,842.5	7,054.5	9,699.7	6,952.0	57.2	56.3	-85.07	-2,724.9	283.6	1,225.8	1,114.7	111.03	11.040	
9,900.0	7,054.1	9,757.2	6,951.5	58.2	57.4	-85.06	-2,782.4	283.4	1,225.8	1,112.6	113.18	10.831	
9,940.9	7,053.8	9,798.2	6,951.1	58.9	58.2	-85.05	-2,823.4	283.2	1,225.8	1,111.1	114.71	10.686	
10,000.0	7,053.5	9,857.2	6,950.6	60.0	59.3	-85.05	-2,882.4	283.0	1,225.8	1,108.9	116.92	10.484	
10,039.3	7,053.2	9,896.6	6,950.2	60.7	60.0	-85.04	-2,921.8	282.8	1,225.8	1,107.4	118.40	10.353	
10,100.0	7,052.8	9,957.2	6,949.7	61.8	61.2	-85.03	-2,982.4	282.6	1,225.8	1,105.2	120.68	10.158	
10,137.8	7,052.6	9,995.0	6,949.3	62.4	61.9	-85.03	-3,020.2	282.5	1,225.9	1,103.8	122.10	10.040	
10,200.0	7,052.2	10,057.2	6,948.8	63.6	63.1	-85.02	-3,082.4	282.3	1,225.9	1,101.4	124.44	9.851	
10,236.2	7,052.0	10,093.4	6,948.5	64.2	63.8	-85.01	-3,118.6	282.1	1,225.9	1,100.1	125.81	9.744	
10,300.0	7,051.6	10,157.2	6,947.9	65.4	65.1	-85.01	-3,182.4	281.9	1,225.9	1,097.7	128.22	9.561	
10,334.6	7,051.4	10,191.9	6,947.6	66.0	65.7	-85.00	-3,217.0	281.8	1,225.9	1,096.4	129.52	9.465	
10,400.0	7,051.0	10,257.2	6,947.0	67.2	67.0	-84.99	-3,282.4	281.5	1,225.9	1,093.9	132.00	9.288	
10,433.0	7,050.7	10,290.3	6,946.7	67.8	67.6	-84.99	-3,315.5	281.4	1,225.9	1,092.7	133.25	9.201	
10,500.0	7,050.3	10,357.2	6,946.0	69.0	68.9	-84.98	-3,382.4	281.2	1,226.0	1,090.2	135.78	9.029	
10,531.5	7,050.1	10,388.7	6,945.8	69.6	69.6	-84.98	-3,413.9	281.1	1,226.0	1,089.0	136.97	8.950	
10,600.0	7,049.7	10,457.2	6,945.1	70.8	70.9	-84.97	-3,482.4	280.8	1,226.0	1,086.4	139.57	8.784	
10,629.9	7,049.5	10,487.1	6,944.9	71.4	71.5	-84.96	-3,512.3	280.7	1,226.0	1,085.3	140.71	8.713	
10,700.0	7,049.1	10,557.2	6,944.2	72.7	72.8	-84.95	-3,582.4	280.4	1,226.0	1,082.7	143.37	8.552	
10,728.3	7,048.9	10,585.5	6,944.0	73.2	73.4	-84.95	-3,610.7	280.3	1,226.0	1,081.6	144.45	8.488	
10,800.0	7,048.4	10,657.2	6,943.3	74.5	74.8	-84.94	-3,682.4	280.1	1,226.1	1,078.9	147.17	8.331	
10,826.7	7,048.3	10,684.0	6,943.1	75.0	75.3	-84.94	-3,709.1	280.0	1,226.1	1,077.9	148.19	8.274	
10,900.0	7,047.8	10,757.2	6,942.4	76.3	76.7	-84.93	-3,782.4	279.7	1,226.1	1,075.1	150.98	8.121	
10,925.2	7,047.7	10,782.4	6,942.2	76.8	77.2	-84.92	-3,807.5	279.6	1,226.1	1,074.2	151.94	8.070	
11,000.0	7,047.2	10,857.2	6,941.5	78.2	78.7	-84.91	-3,882.4	279.4	1,226.1	1,071.3	154.79	7.921	
11,023.6	7,047.0	10,880.8	6,941.3	78.6	79.1	-84.91	-3,906.0	279.3	1,226.1	1,070.4	155.69	7.876	
11,100.0	7,046.6	10,957.2	6,940.6	80.0	80.6	-84.90	-3,982.4	279.0	1,226.2	1,067.6	158.60	7.731	
11,122.0	7,046.4	10,979.2	6,940.4	80.4	81.1	-84.90	-4,004.4	278.9	1,226.2	1,066.7	159.45	7.690	
11,200.0	7,045.9	11,057.2	6,939.7	81.9	82.6	-84.89	-4,082.4	278.6	1,226.2	1,063.8	162.42	7.549	
11,220.4	7,045.8	11,077.7	6,939.5	82.3	83.0	-84.88	-4,102.8	278.6	1,226.2	1,063.0	163.20	7.513	
11,300.0	7,045.3	11,157.2	6,938.7	83.7	84.5	-84.87	-4,182.3	278.3	1,226.2	1,060.0	166.25	7.376	
11,318.9	7,045.2	11,176.1	6,938.6	84.1	84.9	-84.87	-4,201.2	278.2	1,226.2	1,059.3	166.97	7.344	
11,400.0	7,044.7	11,257.2	6,937.8	85.6	86.5	-84.86	-4,282.3	277.9	1,226.3	1,056.2	170.07	7.210	
11,417.3	7,044.6	11,274.5	6,937.7	85.9	86.8	-84.86	-4,299.6	277.8	1,226.3	1,055.5	170.73	7.182	
11,500.0	7,044.0	11,357.2	6,936.9	87.5	88.5	-84.85	-4,382.3	277.6	1,226.3	1,052.4	173.90	7.052	
11,515.7	7,043.9	11,372.9	6,936.8	87.7	88.8	-84.85	-4,398.1	277.5	1,226.3	1,051.8	174.50	7.027	
11,600.0	7,043.4	11,457.2	6,936.0	89.3	90.4	-84.83	-4,482.3	277.2	1,226.3	1,048.6	177.73	6.900	
11,614.1	7,043.3	11,471.4	6,935.9	89.6	90.7	-84.83	-4,496.5	277.1	1,226.3	1,048.1	178.27	6.879	
11,700.0	7,042.8	11,557.2	6,935.1	91.2	92.4	-84.82	-4,582.3	276.8	1,226.4	1,044.8	181.56	6.754	
11,712.6	7,042.7	11,569.8	6,935.0	91.4	92.6	-84.82	-4,594.9	276.8	1,226.4	1,044.3	182.05	6.737	
11,800.0	7,042.2	11,657.2	6,934.2	93.0	94.3	-84.81	-4,682.3	276.5	1,226.4	1,041.0	185.40	6.615	
11,811.0	7,042.1	11,668.2	6,934.1	93.2	94.6	-84.81	-4,693.3	276.4	1,226.4	1,040.6	185.82	6.600	
11,900.0	7,041.5	11,757.2	6,933.3	94.9	96.3	-84.79	-4,782.3	276.1	1,226.4	1,037.2	189.24	6.481	
11,909.4	7,041.5	11,766.6	6,933.2	95.1	96.5	-84.79	-4,791.7	276.1	1,226.4	1,036.8	189.60	6.469	
12,000.0	7,040.9	11,857.2	6,932.3	96.8	98.3	-84.78	-4,882.3	275.7	1,226.5	1,033.4	193.08	6.352	
12,007.8	7,040.8	11,865.0	6,932.3	96.9	98.4	-84.78	-4,890.1	275.7	1,226.5	1,033.1	193.38	6.342	
12,100.0	7,040.3	11,957.2	6,931.4	98.7	100.2	-84.77	-4,982.3	275.4	1,226.5	1,029.6	196.92	6.228	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,040.2	11,963.5	6,931.4	98.8	100.4	-84.77	-4,988.6	275.4	1,226.5	1,029.3	197.16	6.221	
12,200.0	7,039.6	12,057.2	6,930.5	100.5	102.2	-84.75	-5,082.3	275.0	1,226.5	1,025.8	200.77	6.109	
12,204.7	7,039.6	12,061.9	6,930.5	100.6	102.3	-84.75	-5,087.0	275.0	1,226.5	1,025.6	200.95	6.104	
12,300.0	7,039.0	12,157.2	6,929.6	102.4	104.2	-84.74	-5,182.3	274.7	1,226.6	1,022.0	204.61	5.995	
12,303.1	7,039.0	12,160.3	6,929.6	102.5	104.2	-84.74	-5,185.4	274.6	1,226.6	1,021.8	204.73	5.991	
12,400.0	7,038.4	12,257.2	6,928.7	104.3	106.1	-84.73	-5,282.3	274.3	1,226.6	1,018.2	208.46	5.884	
12,401.5	7,038.4	12,258.7	6,928.7	104.3	106.2	-84.73	-5,283.8	274.3	1,226.6	1,018.1	208.52	5.882	
12,500.0	7,037.8	12,357.2	6,927.8	106.2	108.1	-84.72	-5,382.3	273.9	1,226.7	1,014.3	212.31	5.778	
12,598.4	7,037.1	12,455.6	6,926.9	108.0	110.1	-84.70	-5,480.7	273.6	1,226.7	1,010.6	216.10	5.677	
12,600.0	7,037.1	12,457.2	6,926.9	108.0	110.1	-84.70	-5,482.3	273.6	1,226.7	1,010.5	216.16	5.675	
12,696.8	7,036.5	12,554.0	6,926.0	109.9	112.0	-84.69	-5,579.1	273.2	1,226.7	1,006.8	219.89	5.579	
12,700.0	7,036.5	12,557.2	6,925.9	109.9	112.1	-84.69	-5,582.3	273.2	1,226.7	1,006.7	220.01	5.576	
12,795.2	7,035.9	12,652.4	6,925.1	111.7	113.9	-84.68	-5,677.5	272.9	1,226.8	1,003.1	223.68	5.484	
12,800.0	7,035.9	12,657.2	6,925.0	111.8	114.0	-84.68	-5,682.2	272.9	1,226.8	1,002.9	223.87	5.480	
12,893.7	7,035.3	12,750.8	6,924.2	113.6	115.9	-84.66	-5,775.9	272.5	1,226.8	999.3	227.48	5.393	
12,900.0	7,035.2	12,757.2	6,924.1	113.7	116.0	-84.66	-5,782.2	272.5	1,226.8	999.1	227.72	5.387	
12,992.1	7,034.7	12,849.3	6,923.3	115.4	117.8	-84.65	-5,874.3	272.2	1,226.8	995.6	231.27	5.305	
13,000.0	7,034.6	12,857.2	6,923.2	115.6	118.0	-84.65	-5,882.2	272.1	1,226.8	995.3	231.58	5.298	
13,090.5	7,034.0	12,947.7	6,922.4	117.3	119.8	-84.64	-5,972.7	271.8	1,226.9	991.8	235.07	5.219	
13,100.0	7,034.0	12,957.2	6,922.3	117.5	120.0	-84.64	-5,982.2	271.8	1,226.9	991.4	235.43	5.211	
13,188.9	7,033.4	13,046.1	6,921.5	119.1	121.7	-84.62	-6,071.2	271.5	1,226.9	988.1	238.87	5.136	
13,200.0	7,033.4	13,057.2	6,921.4	119.3	121.9	-84.62	-6,082.2	271.4	1,226.9	987.6	239.29	5.127	
13,287.4	7,032.8	13,144.5	6,920.6	121.0	123.7	-84.61	-6,169.6	271.1	1,227.0	984.3	242.66	5.056	
13,300.0	7,032.7	13,157.2	6,920.5	121.2	123.9	-84.61	-6,182.2	271.1	1,227.0	983.8	243.15	5.046	
13,385.8	7,032.2	13,243.0	6,919.7	122.9	125.6	-84.60	-6,268.0	270.8	1,227.0	980.5	246.46	4.978	
13,400.0	7,032.1	13,257.2	6,919.5	123.1	125.9	-84.60	-6,282.2	270.7	1,227.0	980.0	247.01	4.967	
13,484.2	7,031.6	13,341.4	6,918.8	124.7	127.5	-84.58	-6,366.4	270.4	1,227.0	976.8	250.26	4.903	
13,500.0	7,031.5	13,357.2	6,918.6	125.0	127.9	-84.58	-6,382.2	270.3	1,227.0	976.2	250.87	4.891	
13,582.6	7,030.9	13,439.8	6,917.9	126.6	129.5	-84.57	-6,464.8	270.0	1,227.1	973.0	254.06	4.830	
13,600.0	7,030.8	13,457.2	6,917.7	126.9	129.8	-84.57	-6,482.2	270.0	1,227.1	972.3	254.73	4.817	
13,681.1	7,030.3	13,538.2	6,917.0	128.4	131.4	-84.56	-6,563.3	269.7	1,227.1	969.2	257.86	4.759	
13,700.0	7,030.2	13,557.2	6,916.8	128.8	131.8	-84.56	-6,582.2	269.6	1,227.1	968.5	258.59	4.745	
13,779.5	7,029.7	13,636.7	6,916.1	130.3	133.4	-84.54	-6,661.7	269.3	1,227.2	965.5	261.67	4.690	
13,800.0	7,029.6	13,657.2	6,915.9	130.7	133.8	-84.54	-6,682.2	269.3	1,227.2	964.7	262.46	4.676	
13,877.9	7,029.1	13,735.1	6,915.2	132.2	135.3	-84.53	-6,760.1	269.0	1,227.2	961.7	265.47	4.623	
13,900.0	7,029.0	13,757.2	6,915.0	132.6	135.8	-84.53	-6,782.2	268.9	1,227.2	960.9	266.32	4.608	
13,976.3	7,028.5	13,833.5	6,914.3	134.0	137.3	-84.52	-6,858.5	268.6	1,227.2	958.0	269.27	4.558	
14,000.0	7,028.3	13,857.2	6,914.0	134.5	137.8	-84.52	-6,882.2	268.5	1,227.2	957.1	270.18	4.542	
14,074.8	7,027.9	13,931.9	6,913.3	135.9	139.2	-84.51	-6,956.9	268.3	1,227.3	954.2	273.07	4.494	
14,100.0	7,027.7	13,957.2	6,913.1	136.4	139.7	-84.50	-6,982.2	268.2	1,227.3	953.2	274.05	4.478	
14,173.2	7,027.2	14,030.3	6,912.4	137.8	141.2	-84.49	-7,055.4	267.9	1,227.3	950.5	276.85	4.433	
14,200.0	7,027.1	14,057.1	6,912.2	138.3	141.7	-84.49	-7,082.1	267.8	1,227.3	949.5	277.87	4.417	
14,210.5	7,027.0	14,067.7	6,912.1	138.5	141.9	-84.49	-7,092.7	267.8	1,227.3	949.1	278.27	4.411 SF	

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Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	1.0	1.0	0.0	0.0	90.00	0.0	27.9	27.9				
98.4	98.4	99.4	99.4	0.1	0.1	90.00	0.0	27.9	27.9	27.7	0.19	145.151	
100.0	100.0	101.0	101.0	0.1	0.1	90.00	0.0	27.9	27.9	27.7	0.20	141.773	
196.8	196.8	197.8	197.8	0.3	0.3	90.00	0.0	27.9	27.9	27.3	0.63	44.115	
200.0	200.0	201.0	201.0	0.3	0.3	90.00	0.0	27.9	27.9	27.2	0.65	43.148	
295.3	295.3	296.3	296.3	0.5	0.5	90.00	0.0	27.9	27.9	26.8	1.07	25.950	
300.0	300.0	301.0	301.0	0.5	0.5	90.00	0.0	27.9	27.9	26.8	1.10	25.447	
393.7	393.7	394.7	394.7	0.8	0.8	90.00	0.0	27.9	27.9	26.4	1.52	18.381	
400.0	400.0	401.0	401.0	0.8	0.8	90.00	0.0	27.9	27.9	26.3	1.55	18.044	
492.1	492.1	493.1	493.1	1.0	1.0	90.00	0.0	27.9	27.9	25.9	1.96	14.230	
500.0	500.0	501.0	501.0	1.0	1.0	90.00	0.0	27.9	27.9	25.9	1.99	13.978	
590.5	590.5	591.5	591.5	1.2	1.2	90.00	0.0	27.9	27.9	25.5	2.40	11.609	
600.0	600.0	601.0	601.0	1.2	1.2	90.00	0.0	27.9	27.9	25.4	2.44	11.407	
689.0	689.0	690.0	690.0	1.4	1.4	90.00	0.0	27.9	27.9	25.0	2.84	9.803	
700.0	700.0	701.0	701.0	1.4	1.4	90.00	0.0	27.9	27.9	25.0	2.89	9.635	
787.4	787.4	788.4	788.4	1.6	1.6	90.00	0.0	27.9	27.9	24.6	3.29	8.483	
800.0	800.0	801.0	801.0	1.7	1.7	90.00	0.0	27.9	27.9	24.5	3.34	8.340	
885.8	885.8	886.8	886.8	1.9	1.9	90.00	0.0	27.9	27.9	24.2	3.73	7.477	
900.0	900.0	901.0	901.0	1.9	1.9	90.00	0.0	27.9	27.9	24.1	3.79	7.351	
984.2	984.2	985.2	985.2	2.1	2.1	90.00	0.0	27.9	27.9	23.7	4.17	6.684	
1,000.0	1,000.0	1,001.0	1,001.0	2.1	2.1	90.00	0.0	27.9	27.9	23.6	4.24	6.572	
1,082.7	1,082.7	1,083.7	1,083.7	2.3	2.3	90.00	0.0	27.9	27.9	23.3	4.61	6.043	
1,100.0	1,100.0	1,101.0	1,101.0	2.3	2.3	90.00	0.0	27.9	27.9	23.2	4.69	5.943 CC, ES	
1,181.1	1,181.1	1,182.1	1,182.1	2.5	2.5	164.78	0.0	27.9	29.0	23.9	5.05	5.743	
1,200.0	1,200.0	1,201.0	1,201.0	2.6	2.6	165.08	0.0	27.9	29.6	24.4	5.13	5.763	
1,279.5	1,279.4	1,281.2	1,281.2	2.7	2.7	165.69	0.7	26.9	32.4	26.9	5.47	5.924	
1,300.0	1,299.8	1,301.8	1,301.8	2.8	2.8	165.62	1.1	26.4	33.2	27.6	5.55	5.972	
1,377.9	1,377.5	1,380.5	1,380.4	2.9	3.0	164.73	3.3	23.3	36.3	30.4	5.87	6.177	
1,400.0	1,399.5	1,402.8	1,402.6	3.0	3.0	164.31	4.2	22.1	37.2	31.3	5.96	6.241	
1,476.4	1,475.3	1,479.9	1,479.4	3.2	3.2	162.43	8.0	16.8	40.7	34.4	6.28	6.476	
1,500.0	1,498.7	1,503.8	1,503.2	3.2	3.2	161.73	9.4	14.8	41.8	35.5	6.38	6.555	
1,574.8	1,572.6	1,579.3	1,578.2	3.4	3.4	159.26	14.7	7.5	45.7	39.0	6.70	6.818	
1,600.0	1,597.5	1,604.8	1,603.4	3.5	3.5	158.35	16.7	4.7	47.1	40.3	6.81	6.913	
1,673.2	1,669.4	1,678.8	1,676.6	3.7	3.7	155.58	23.3	-4.5	51.5	44.3	7.15	7.195	
1,700.2	1,695.8	1,706.0	1,703.4	3.8	3.8	154.52	26.1	-8.3	53.2	45.9	7.28	7.305	
1,771.6	1,765.7	1,778.3	1,774.3	4.1	4.0	151.30	34.0	-19.3	57.3	49.6	7.67	7.467	
1,800.0	1,793.4	1,806.8	1,802.3	4.2	4.1	149.79	37.4	-24.0	58.6	50.8	7.83	7.484	
1,870.1	1,862.0	1,876.7	1,870.7	4.4	4.3	146.22	45.9	-35.8	62.0	53.7	8.26	7.502	
1,900.0	1,891.2	1,906.6	1,899.9	4.5	4.4	144.81	49.6	-40.9	63.5	55.0	8.45	7.512	
1,968.5	1,958.3	1,974.9	1,966.7	4.8	4.7	141.84	57.9	-52.4	67.1	58.2	8.91	7.528	
2,000.0	1,989.1	2,006.3	1,997.4	4.9	4.8	140.57	61.7	-57.7	68.8	59.7	9.13	7.536	
2,066.9	2,054.5	2,073.1	2,062.7	5.2	5.0	138.09	69.8	-68.9	72.5	62.9	9.60	7.549	
2,100.0	2,086.9	2,106.0	2,095.0	5.3	5.1	136.96	73.8	-74.5	74.4	64.5	9.85	7.555	
2,165.3	2,150.8	2,171.2	2,158.7	5.6	5.4	134.88	81.7	-85.5	78.2	67.9	10.34	7.564	
2,200.0	2,184.7	2,205.8	2,192.5	5.7	5.5	133.86	85.9	-91.3	80.3	69.7	10.60	7.569	
2,263.8	2,247.1	2,269.4	2,254.8	6.0	5.8	132.11	93.7	-102.0	84.1	73.0	11.10	7.576	
2,300.0	2,282.5	2,305.5	2,290.1	6.1	5.9	131.19	98.1	-108.1	86.3	74.9	11.39	7.580	
2,362.2	2,343.3	2,367.6	2,350.8	6.4	6.2	129.71	105.6	-118.6	90.2	78.3	11.89	7.585	
2,400.0	2,380.3	2,405.3	2,387.7	6.6	6.3	128.87	110.2	-124.9	92.6	80.4	12.20	7.589	
2,460.6	2,439.6	2,465.7	2,446.8	6.8	6.6	127.61	117.5	-135.1	96.4	83.7	12.70	7.593	
2,500.0	2,478.1	2,505.0	2,485.2	7.0	6.7	126.85	122.3	-141.8	98.9	85.9	13.02	7.596	
2,559.0	2,535.9	2,563.9	2,542.8	7.2	7.0	125.77	129.5	-151.7	102.7	89.2	13.52	7.600	

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

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Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	2,604.7	2,582.8	7.4	7.2	125.07	134.4	-158.6	105.4	91.5	13.86	7.603	
2,657.5	2,632.2	2,662.1	2,638.9	7.7	7.4	124.15	141.4	-168.2	109.2	94.8	14.35	7.606	
2,700.0	2,673.8	2,704.5	2,680.4	7.8	7.6	123.50	146.6	-175.4	112.0	97.2	14.71	7.609	
2,755.9	2,728.4	2,760.2	2,734.9	8.1	7.8	122.70	153.3	-184.8	115.7	100.5	15.19	7.612	
2,800.0	2,771.6	2,804.2	2,777.9	8.3	8.0	122.11	158.7	-192.2	118.6	103.0	15.57	7.615	
2,854.3	2,824.7	2,858.4	2,830.9	8.5	8.2	121.41	165.3	-201.3	122.2	106.2	16.04	7.618	
2,900.0	2,869.4	2,904.0	2,875.5	8.7	8.4	120.86	170.8	-209.0	125.3	108.9	16.44	7.621	
2,952.7	2,921.0	2,956.6	2,926.9	8.9	8.7	120.26	177.2	-217.9	128.9	112.0	16.90	7.624	
3,000.0	2,967.2	3,003.7	2,973.0	9.2	8.9	119.74	182.9	-225.8	132.0	114.7	17.31	7.627	
3,051.2	3,017.3	3,054.7	3,023.0	9.4	9.1	119.21	189.2	-234.5	135.5	117.8	17.76	7.630	
3,100.0	3,065.0	3,103.4	3,070.6	9.6	9.3	118.73	195.1	-242.7	138.8	120.7	18.19	7.633	
3,149.6	3,113.5	3,152.9	3,119.0	9.8	9.5	118.27	201.1	-251.0	142.2	123.6	18.63	7.636	
3,200.0	3,162.8	3,203.2	3,168.2	10.0	9.7	117.82	207.2	-259.5	145.7	126.6	19.07	7.639	
3,248.0	3,209.8	3,251.1	3,215.0	10.3	9.9	117.41	213.0	-267.6	149.0	129.5	19.49	7.642	
3,300.0	3,260.6	3,302.9	3,265.7	10.5	10.2	116.98	219.3	-276.3	152.5	132.6	19.95	7.645	
3,346.4	3,306.1	3,349.3	3,311.0	10.7	10.4	116.62	225.0	-284.1	155.7	135.4	20.37	7.648	
3,400.0	3,358.4	3,402.7	3,363.3	10.9	10.6	116.22	231.4	-293.1	159.4	138.6	20.84	7.651	
3,444.9	3,402.3	3,447.3	3,406.9	11.1	10.8	115.95	236.8	-300.5	162.6	141.3	21.22	7.661	
3,500.0	3,456.3	3,501.9	3,460.6	11.4	11.0	115.93	242.8	-308.9	166.5	144.8	21.65	7.690	
3,543.3	3,498.6	3,544.8	3,502.8	11.6	11.1	116.16	247.2	-314.9	169.7	147.7	21.94	7.732	
3,600.0	3,554.1	3,600.9	3,558.3	11.8	11.3	116.77	252.3	-322.0	173.9	151.6	22.31	7.797	
3,641.7	3,594.9	3,642.1	3,599.1	12.0	11.4	117.43	255.6	-326.6	177.2	154.7	22.55	7.858	
3,700.0	3,651.9	3,700.0	3,656.5	12.3	11.5	118.62	259.7	-332.3	181.9	159.1	22.86	7.958	
3,740.1	3,691.2	3,739.0	3,695.3	12.5	11.6	119.59	262.1	-335.6	185.4	162.3	23.05	8.043	
3,800.0	3,749.7	3,797.6	3,753.7	12.7	11.8	121.28	265.1	-339.8	190.8	167.5	23.30	8.189	
3,838.6	3,787.4	3,835.2	3,791.2	12.9	11.8	122.49	266.6	-341.9	194.5	171.1	23.43	8.301	
3,900.0	3,847.5	3,894.9	3,850.8	13.2	11.9	124.61	268.5	-344.5	200.8	177.2	23.61	8.508	
3,937.0	3,883.7	3,930.6	3,886.5	13.3	12.0	125.97	269.3	-345.6	205.0	181.3	23.69	8.654	
4,000.0	3,945.3	3,991.1	3,947.0	13.6	12.1	128.42	270.0	-346.6	212.6	188.8	23.79	8.938	
4,035.4	3,980.0	4,025.1	3,981.0	13.8	12.1	129.86	270.1	-346.7	217.3	193.5	23.83	9.120	
4,100.0	4,043.1	4,088.3	4,044.1	14.1	12.2	132.44	270.1	-346.7	226.2	202.4	23.88	9.473	
4,133.8	4,076.3	4,121.4	4,077.3	14.2	12.3	133.72	270.1	-346.7	231.1	207.2	23.92	9.663	
4,200.0	4,141.0	4,186.1	4,142.0	14.5	12.4	136.06	270.1	-346.7	240.9	216.9	23.99	10.043	
4,232.3	4,172.5	4,217.6	4,173.5	14.7	12.4	137.13	270.1	-346.7	245.8	221.8	24.03	10.232	
4,300.0	4,238.8	4,283.9	4,239.8	15.0	12.5	139.25	270.1	-346.7	256.4	232.3	24.11	10.635	
4,330.7	4,268.8	4,313.9	4,269.8	15.1	12.6	140.16	270.1	-346.7	261.4	237.2	24.16	10.820	
4,400.0	4,336.6	4,381.7	4,337.6	15.4	12.7	142.08	270.1	-346.7	272.7	248.4	24.26	11.240	
4,429.1	4,365.1	4,410.2	4,366.1	15.6	12.7	142.85	270.1	-346.7	277.5	253.2	24.31	11.417	
4,500.0	4,434.4	4,479.5	4,435.4	15.9	12.9	144.60	270.1	-346.7	289.5	265.1	24.43	11.848	
4,527.5	4,461.3	4,506.5	4,462.3	16.0	12.9	145.24	270.1	-346.7	294.2	269.7	24.49	12.016	
4,600.0	4,532.2	4,577.3	4,533.2	16.4	13.0	146.83	270.1	-346.7	306.8	282.2	24.63	12.455	
4,626.0	4,557.6	4,602.7	4,558.6	16.5	13.1	147.37	270.1	-346.7	311.4	286.7	24.69	12.612	
4,700.0	4,630.0	4,675.1	4,631.0	16.8	13.2	148.83	270.1	-346.7	324.5	299.7	24.86	13.056	
4,724.4	4,653.9	4,699.0	4,654.9	16.9	13.2	149.28	270.1	-346.7	328.9	304.0	24.91	13.201	
4,800.0	4,727.8	4,773.0	4,728.8	17.3	13.3	150.62	270.1	-346.7	342.6	317.5	25.10	13.647	
4,822.8	4,750.2	4,795.3	4,751.2	17.4	13.4	151.00	270.1	-346.7	346.8	321.6	25.16	13.781	
4,900.0	4,825.6	4,870.8	4,826.6	17.7	13.5	152.23	270.1	-346.7	360.9	335.6	25.37	14.227	
4,921.2	4,846.4	4,891.6	4,847.4	17.8	13.5	152.55	270.1	-346.7	364.9	339.4	25.43	14.348	
5,000.0	4,923.5	4,968.6	4,924.5	18.2	13.7	153.69	270.1	-346.7	379.6	353.9	25.66	14.793	
5,019.7	4,942.7	4,987.8	4,943.7	18.3	13.7	153.96	270.1	-346.7	383.2	357.5	25.72	14.902	
5,100.0	5,021.3	5,066.4	5,022.3	18.6	13.8	155.01	270.1	-346.7	398.4	372.4	25.96	15.344	
5,118.1	5,039.0	5,084.1	5,040.0	18.7	13.9	155.24	270.1	-346.7	401.8	375.8	26.02	15.442	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.0	5,119.1	5,164.2	5,120.1	19.1	14.0	156.21	270.1	-346.7	417.4	391.1	26.28	15.880	
5,216.5	5,135.3	5,180.4	5,136.3	19.2	14.0	156.40	270.1	-346.7	420.6	394.2	26.34	15.968	
5,300.0	5,216.9	5,262.0	5,217.9	19.6	14.2	157.31	270.1	-346.7	436.6	410.0	26.62	16.401	
5,314.9	5,231.5	5,276.6	5,232.5	19.6	14.2	157.47	270.1	-346.7	439.5	412.8	26.67	16.478	
5,400.0	5,314.7	5,359.8	5,315.7	20.0	14.4	158.31	270.1	-346.7	455.9	428.9	26.97	16.907	
5,413.4	5,327.8	5,372.9	5,328.8	20.1	14.4	158.44	270.1	-346.7	458.5	431.5	27.01	16.973	
5,500.0	5,412.5	5,457.7	5,413.5	20.5	14.5	159.24	270.1	-346.7	475.3	448.0	27.32	17.397	
5,511.8	5,424.1	5,469.2	5,425.1	20.5	14.6	159.34	270.1	-346.7	477.6	450.3	27.37	17.453	
5,600.0	5,510.3	5,555.5	5,511.3	20.9	14.7	160.09	270.1	-346.7	494.9	467.2	27.69	17.871	
5,610.2	5,520.3	5,565.5	5,521.3	21.0	14.7	160.17	270.1	-346.7	496.9	469.2	27.73	17.919	
5,700.0	5,608.2	5,653.3	5,609.2	21.4	14.9	160.88	270.1	-346.7	514.5	486.5	28.07	18.331	
5,708.6	5,616.6	5,661.7	5,617.6	21.4	14.9	160.94	270.1	-346.7	516.2	488.1	28.10	18.370	
5,729.2	5,636.7	5,681.8	5,637.7	21.5	14.9	161.10	270.1	-346.7	520.3	492.1	28.18	18.463	
5,800.0	5,706.1	5,751.3	5,707.1	21.8	15.1	161.66	270.1	-346.7	533.5	505.0	28.47	18.740	
5,807.1	5,713.1	5,758.2	5,714.1	21.8	15.1	161.71	270.1	-346.7	534.7	506.2	28.49	18.766	
5,900.0	5,804.7	5,849.9	5,805.7	22.1	15.3	162.31	270.1	-346.7	549.3	520.5	28.84	19.048	
5,905.5	5,810.2	5,855.3	5,811.2	22.1	15.3	162.34	270.1	-346.7	550.1	521.2	28.86	19.062	
6,000.0	5,903.9	5,949.0	5,904.9	22.3	15.4	162.79	270.1	-346.7	561.9	532.7	29.20	19.247	
6,003.9	5,907.8	5,952.9	5,908.8	22.4	15.4	162.81	270.1	-346.7	562.4	533.1	29.21	19.252	
6,100.0	6,003.4	6,048.5	6,004.4	22.6	15.6	163.13	270.1	-346.7	571.2	541.7	29.53	19.342	
6,102.3	6,005.7	6,050.8	6,006.7	22.6	15.6	163.14	270.1	-346.7	571.4	541.9	29.54	19.343	
6,200.0	6,103.2	6,148.3	6,104.2	22.7	15.8	163.35	270.1	-346.7	577.2	547.4	29.85	19.337	
6,200.8	6,104.0	6,149.1	6,105.0	22.7	15.8	163.35	270.1	-346.7	577.3	547.4	29.85	19.337	
6,299.2	6,202.3	6,247.5	6,203.3	22.9	16.0	163.44	270.1	-346.7	579.9	549.7	30.14	19.239	
6,300.0	6,203.1	6,248.3	6,204.1	22.9	16.0	163.44	270.1	-346.7	579.9	549.7	30.14	19.238	
6,329.4	6,232.5	6,277.6	6,233.5	22.9	16.0	89.28	270.1	-346.7	580.0	549.8	30.25	19.173	
6,397.6	6,300.8	6,346.4	6,302.3	23.0	16.2	89.43	268.6	-346.7	580.0	549.5	30.47	19.035	
6,400.0	6,303.1	6,348.8	6,304.7	23.0	16.2	89.45	268.4	-346.7	580.0	549.5	30.48	19.031	
6,449.4	6,352.5	6,398.3	6,353.9	23.1	16.2	89.95	263.3	-346.7	580.0	549.4	30.56	18.978	
6,468.5	6,371.7	6,417.3	6,372.7	23.1	16.2	-90.00	260.4	-346.8	580.0	549.4	30.55	18.985	
6,496.0	6,399.2	6,444.5	6,399.4	23.1	16.3	-89.63	255.5	-346.8	580.0	549.4	30.57	18.973	
6,500.0	6,403.1	6,448.4	6,403.2	23.1	16.3	-89.58	254.7	-346.8	580.0	549.4	30.57	18.971	
6,550.0	6,452.8	6,497.4	6,450.8	23.1	16.3	-88.91	242.9	-346.8	580.1	549.5	30.57	18.973	
6,594.5	6,496.6	6,540.6	6,492.0	23.2	16.3	-88.32	229.9	-346.9	580.2	549.7	30.55	18.990	
6,600.0	6,502.0	6,546.0	6,497.0	23.2	16.3	-88.25	228.1	-346.9	580.2	549.7	30.55	18.992	
6,650.0	6,550.5	6,594.1	6,541.7	23.2	16.3	-87.60	210.3	-346.9	580.5	550.0	30.52	19.021	
6,692.9	6,591.4	6,635.1	6,578.8	23.2	16.3	-87.06	192.9	-347.0	580.7	550.2	30.48	19.052	
6,700.0	6,598.0	6,641.8	6,584.8	23.2	16.3	-86.97	189.8	-347.0	580.8	550.3	30.48	19.057	
6,750.0	6,644.4	6,689.2	6,626.1	23.2	16.3	-86.35	166.6	-347.1	581.1	550.7	30.44	19.092	
6,791.3	6,681.6	6,728.0	6,658.8	23.2	16.3	-85.86	145.6	-347.2	581.5	551.1	30.42	19.117	
6,800.0	6,689.3	6,736.2	6,665.5	23.2	16.3	-85.76	141.0	-347.2	581.6	551.2	30.41	19.122	
6,850.0	6,732.6	6,782.8	6,702.8	23.2	16.3	-85.18	113.1	-347.3	582.0	551.6	30.41	19.140	
6,889.7	6,765.7	6,819.6	6,731.0	23.2	16.3	-84.74	89.3	-347.4	582.4	552.0	30.43	19.143	
6,900.0	6,774.0	6,829.1	6,738.0	23.2	16.3	-84.63	83.0	-347.4	582.5	552.1	30.43	19.143	
6,950.0	6,813.3	6,875.1	6,771.0	23.2	16.2	-84.10	50.9	-347.5	583.1	552.6	30.49	19.124	
6,988.2	6,841.9	6,910.1	6,794.6	23.2	16.2	-83.72	25.2	-347.6	583.5	552.9	30.56	19.091	
7,000.0	6,850.5	6,920.9	6,801.6	23.2	16.2	-83.61	17.0	-347.6	583.6	553.0	30.59	19.079	
7,050.0	6,885.2	6,966.3	6,829.9	23.2	16.3	-83.14	-18.6	-347.8	584.2	553.4	30.74	19.005	
7,086.6	6,908.9	7,000.0	6,849.4	23.2	16.3	-82.81	-46.1	-347.9	584.6	553.7	30.88	18.930	
7,100.0	6,917.3	7,011.6	6,855.8	23.2	16.3	-82.70	-55.7	-347.9	584.7	553.8	30.94	18.898	
7,150.0	6,946.6	7,056.6	6,879.1	23.2	16.3	-82.30	-94.2	-348.1	585.3	554.1	31.20	18.761	
7,185.0	6,965.5	7,088.0	6,893.9	23.3	16.3	-82.04	-121.9	-348.2	585.6	554.2	31.41	18.642	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,200.0	6,973.1	7,100.0	6,899.3	23.3	16.4	-81.94	-132.7	-348.2	585.8	554.3	31.51	18.591	
7,250.0	6,996.5	7,146.0	6,918.1	23.3	16.5	-81.60	-174.7	-348.3	586.3	554.4	31.90	18.377	
7,283.4	7,010.4	7,175.8	6,928.8	23.4	16.6	-81.40	-202.4	-348.4	586.6	554.4	32.20	18.214	
7,300.0	7,016.8	7,190.5	6,933.6	23.4	16.6	-81.30	-216.3	-348.5	586.7	554.4	32.35	18.134	
7,350.0	7,033.8	7,234.9	6,946.6	23.5	16.9	-81.05	-258.7	-348.7	587.1	554.2	32.87	17.861	
7,381.9	7,043.0	7,263.1	6,953.4	23.6	17.1	-80.90	-286.1	-348.8	587.4	554.1	33.24	17.671	
7,400.0	7,047.6	7,279.1	6,956.8	23.6	17.2	-80.83	-301.8	-348.8	587.5	554.0	33.45	17.562	
7,450.0	7,057.9	7,323.2	6,964.4	23.8	17.5	-80.65	-345.2	-349.0	587.8	553.7	34.09	17.240	
7,480.3	7,062.5	7,350.0	6,967.6	23.9	17.7	-80.56	-371.8	-349.1	587.9	553.4	34.51	17.035	
7,500.0	7,064.8	7,367.3	6,969.2	24.0	17.9	-80.51	-389.0	-349.1	588.0	553.2	34.79	16.900	
7,550.0	7,068.3	7,411.3	6,971.4	24.2	18.3	-80.42	-433.0	-349.3	588.2	552.6	35.55	16.546	
7,578.7	7,068.7	7,437.8	6,971.4	24.4	18.6	-80.39	-459.4	-349.4	588.2	552.2	36.02	16.329	
7,578.9	7,068.7	7,437.9	6,971.4	24.4	18.6	-80.39	-459.6	-349.4	588.2	552.2	36.03	16.327	
7,600.0	7,068.6	7,459.1	6,971.4	24.5	18.8	-80.39	-480.7	-349.5	588.2	551.8	36.45	16.137	
7,677.1	7,068.1	7,536.2	6,971.0	25.1	19.7	-80.40	-557.9	-349.8	588.2	550.2	38.02	15.469	
7,700.0	7,067.9	7,559.1	6,970.9	25.2	19.9	-80.41	-580.7	-349.8	588.2	549.7	38.50	15.277	
7,775.6	7,067.4	7,634.6	6,970.6	25.9	20.9	-80.42	-656.3	-350.1	588.2	547.9	40.22	14.625	
7,800.0	7,067.3	7,659.1	6,970.5	26.1	21.2	-80.43	-680.7	-350.2	588.1	547.4	40.78	14.421	
7,874.0	7,066.8	7,733.1	6,970.2	26.8	22.1	-80.44	-754.7	-350.5	588.1	545.4	42.68	13.778	
7,900.0	7,066.7	7,759.1	6,970.0	27.0	22.5	-80.44	-780.7	-350.6	588.1	544.7	43.37	13.562	
7,972.4	7,066.2	7,831.5	6,969.7	27.8	23.5	-80.46	-853.1	-350.8	588.1	542.7	45.35	12.968	
8,000.0	7,066.0	7,859.1	6,969.6	28.1	23.9	-80.46	-880.7	-350.9	588.1	542.0	46.12	12.752	
8,070.8	7,065.6	7,929.9	6,969.3	28.9	24.9	-80.48	-951.6	-351.2	588.1	539.9	48.16	12.211	
8,100.0	7,065.4	7,959.1	6,969.2	29.3	25.4	-80.48	-980.7	-351.3	588.1	539.0	49.01	11.999	
8,169.3	7,065.0	8,028.3	6,968.9	30.2	26.4	-80.49	-1,050.0	-351.6	588.0	536.9	51.08	11.511	
8,200.0	7,064.8	8,059.1	6,968.7	30.6	26.9	-80.50	-1,080.7	-351.7	588.0	536.0	52.02	11.305	
8,267.7	7,064.4	8,126.8	6,968.4	31.5	27.9	-80.51	-1,148.4	-351.9	588.0	533.9	54.11	10.866	
8,300.0	7,064.2	8,159.1	6,968.3	31.9	28.5	-80.52	-1,180.7	-352.0	588.0	532.9	55.12	10.667	
8,366.1	7,063.7	8,225.2	6,968.0	32.8	29.5	-80.53	-1,246.8	-352.3	588.0	530.7	57.22	10.275	
8,400.0	7,063.5	8,259.1	6,967.9	33.3	30.1	-80.54	-1,280.7	-352.4	588.0	529.6	58.31	10.083	
8,464.5	7,063.1	8,323.6	6,967.6	34.2	31.1	-80.55	-1,345.3	-352.6	587.9	527.5	60.41	9.733	
8,500.0	7,062.9	8,359.1	6,967.4	34.8	31.7	-80.55	-1,380.7	-352.8	587.9	526.4	61.57	9.549	
8,563.0	7,062.5	8,422.0	6,967.1	35.7	32.8	-80.57	-1,443.7	-353.0	587.9	524.3	63.65	9.236	
8,600.0	7,062.3	8,459.1	6,967.0	36.3	33.4	-80.57	-1,480.7	-353.1	587.9	523.0	64.88	9.061	
8,661.4	7,061.9	8,520.5	6,966.7	37.2	34.4	-80.58	-1,542.1	-353.4	587.9	520.9	66.95	8.781	
8,700.0	7,061.6	8,559.1	6,966.5	37.8	35.1	-80.59	-1,580.7	-353.5	587.9	519.6	68.25	8.613	
8,759.8	7,061.3	8,618.9	6,966.3	38.8	36.1	-80.60	-1,640.5	-353.7	587.8	517.6	70.29	8.363	
8,800.0	7,061.0	8,659.1	6,966.1	39.4	36.8	-80.61	-1,680.7	-353.9	587.8	516.2	71.66	8.203	
8,858.2	7,060.6	8,717.3	6,965.8	40.3	37.8	-80.62	-1,738.9	-354.1	587.8	514.2	73.67	7.979	
8,900.0	7,060.4	8,759.1	6,965.7	41.0	38.6	-80.63	-1,780.7	-354.2	587.8	512.7	75.11	7.826	
8,956.7	7,060.0	8,815.7	6,965.4	41.9	39.5	-80.64	-1,837.4	-354.4	587.8	510.7	77.08	7.626	
9,000.0	7,059.8	8,859.1	6,965.2	42.6	40.3	-80.65	-1,880.7	-354.6	587.8	509.2	78.59	7.479	
9,055.1	7,059.4	8,914.2	6,965.0	43.6	41.3	-80.66	-1,935.8	-354.8	587.8	507.2	80.52	7.299	
9,100.0	7,059.1	8,959.1	6,964.8	44.3	42.1	-80.66	-1,980.7	-355.0	587.7	505.6	82.10	7.159	
9,153.5	7,058.8	9,012.6	6,964.5	45.2	43.0	-80.67	-2,034.2	-355.2	587.7	503.7	83.99	6.997	
9,200.0	7,058.5	9,059.0	6,964.3	46.0	43.9	-80.68	-2,080.7	-355.3	587.7	502.1	85.64	6.863	
9,251.9	7,058.2	9,111.0	6,964.1	46.9	44.8	-80.69	-2,132.6	-355.5	587.7	500.2	87.48	6.718	
9,300.0	7,057.9	9,159.0	6,963.9	47.7	45.6	-80.70	-2,180.7	-355.7	587.7	498.5	89.19	6.589	
9,350.4	7,057.6	9,209.4	6,963.7	48.6	46.6	-80.71	-2,231.1	-355.9	587.7	496.7	90.99	6.458	
9,400.0	7,057.2	9,259.0	6,963.5	49.4	47.5	-80.72	-2,280.7	-356.1	587.7	494.9	92.77	6.335	
9,448.8	7,056.9	9,307.8	6,963.2	50.3	48.3	-80.73	-2,329.5	-356.2	587.6	493.1	94.52	6.217	
9,500.0	7,056.6	9,359.0	6,963.0	51.1	49.3	-80.74	-2,380.7	-356.4	587.6	491.3	96.37	6.098	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,547.2	7,056.3	9,406.3	6,962.8	52.0	50.1	-80.75	-2,427.9	-356.6	587.6	489.6	98.07	5.992	
9,600.0	7,056.0	9,459.0	6,962.6	52.9	51.1	-80.76	-2,480.7	-356.8	587.6	487.6	99.98	5.877	
9,645.6	7,055.7	9,504.7	6,962.4	53.7	51.9	-80.76	-2,526.3	-357.0	587.6	486.0	101.63	5.782	
9,700.0	7,055.4	9,559.0	6,962.1	54.6	52.9	-80.77	-2,580.7	-357.2	587.6	484.0	103.60	5.672	
9,744.1	7,055.1	9,603.1	6,961.9	55.4	53.7	-80.78	-2,624.8	-357.3	587.6	482.4	105.20	5.585	
9,800.0	7,054.7	9,659.0	6,961.7	56.4	54.7	-80.79	-2,680.7	-357.5	587.5	480.3	107.24	5.479	
9,842.5	7,054.5	9,701.5	6,961.5	57.2	55.5	-80.80	-2,723.2	-357.7	587.5	478.8	108.79	5.401	
9,900.0	7,054.1	9,759.0	6,961.3	58.2	56.6	-80.81	-2,780.7	-357.9	587.5	476.6	110.89	5.298	
9,940.9	7,053.8	9,800.0	6,961.1	58.9	57.3	-80.82	-2,821.6	-358.0	587.5	475.1	112.38	5.228	
10,000.0	7,053.5	9,859.0	6,960.8	60.0	58.4	-80.83	-2,880.7	-358.3	587.5	472.9	114.54	5.129	
10,039.3	7,053.2	9,898.4	6,960.6	60.7	59.1	-80.83	-2,920.0	-358.4	587.5	471.5	115.99	5.065	
10,100.0	7,052.8	9,959.0	6,960.4	61.8	60.3	-80.85	-2,980.7	-358.6	587.5	469.3	118.21	4.970	
10,137.8	7,052.6	9,996.8	6,960.2	62.4	61.0	-80.85	-3,018.4	-358.8	587.5	467.9	119.60	4.912	
10,200.0	7,052.2	10,059.0	6,959.9	63.6	62.1	-80.86	-3,080.7	-359.0	587.4	465.5	121.89	4.819	
10,236.2	7,052.0	10,095.2	6,959.8	64.2	62.8	-80.87	-3,116.9	-359.1	587.4	464.2	123.22	4.767	
10,300.0	7,051.6	10,159.0	6,959.5	65.4	64.0	-80.88	-3,180.7	-359.4	587.4	461.8	125.57	4.678	
10,334.6	7,051.4	10,193.7	6,959.3	66.0	64.6	-80.89	-3,215.3	-359.5	587.4	460.6	126.85	4.631	
10,400.0	7,051.0	10,259.0	6,959.0	67.2	65.8	-80.90	-3,280.7	-359.7	587.4	458.1	129.26	4.544	
10,433.0	7,050.7	10,292.1	6,958.9	67.8	66.5	-80.91	-3,313.7	-359.9	587.4	456.9	130.49	4.501	
10,500.0	7,050.3	10,359.0	6,958.6	69.0	67.7	-80.92	-3,380.7	-360.1	587.4	454.4	132.96	4.417	
10,531.5	7,050.1	10,390.5	6,958.5	69.6	68.3	-80.92	-3,412.1	-360.2	587.3	453.2	134.13	4.379	
10,600.0	7,049.7	10,459.0	6,958.2	70.8	69.6	-80.94	-3,480.7	-360.5	587.3	450.7	136.67	4.297	
10,629.9	7,049.5	10,488.9	6,958.0	71.4	70.1	-80.94	-3,510.6	-360.6	587.3	449.5	137.78	4.263	
10,700.0	7,049.1	10,559.0	6,957.7	72.7	71.4	-80.95	-3,580.7	-360.8	587.3	446.9	140.38	4.184	
10,728.3	7,048.9	10,587.4	6,957.6	73.2	72.0	-80.96	-3,609.0	-360.9	587.3	445.9	141.43	4.153	
10,800.0	7,048.4	10,659.0	6,957.3	74.5	73.3	-80.97	-3,680.7	-361.2	587.3	443.2	144.09	4.076	
10,826.7	7,048.3	10,685.8	6,957.2	75.0	73.8	-80.98	-3,707.4	-361.3	587.3	442.2	145.09	4.048	
10,900.0	7,047.8	10,759.0	6,956.8	76.3	75.2	-80.99	-3,780.7	-361.6	587.3	439.4	147.81	3.973	
10,925.2	7,047.7	10,784.2	6,956.7	76.8	75.7	-80.99	-3,805.8	-361.7	587.2	438.5	148.75	3.948	
11,000.0	7,047.2	10,859.0	6,956.4	78.2	77.1	-81.01	-3,880.7	-361.9	587.2	435.7	151.54	3.875	
11,023.6	7,047.0	10,882.6	6,956.3	78.6	77.5	-81.01	-3,904.3	-362.0	587.2	434.8	152.42	3.853	
11,100.0	7,046.6	10,959.0	6,955.9	80.0	78.9	-81.02	-3,980.7	-362.3	587.2	431.9	155.27	3.782	
11,122.0	7,046.4	10,981.1	6,955.8	80.4	79.4	-81.03	-4,002.7	-362.4	587.2	431.1	156.09	3.762	
11,200.0	7,045.9	11,059.0	6,955.5	81.9	80.8	-81.04	-4,080.7	-362.7	587.2	428.2	159.00	3.693	
11,220.4	7,045.8	11,079.5	6,955.4	82.3	81.2	-81.05	-4,101.1	-362.7	587.2	427.4	159.77	3.675	
11,300.0	7,045.3	11,159.0	6,955.1	83.7	82.7	-81.06	-4,180.6	-363.0	587.1	424.4	162.74	3.608	
11,318.9	7,045.2	11,177.9	6,955.0	84.1	83.1	-81.06	-4,199.5	-363.1	587.1	423.7	163.44	3.592	
11,400.0	7,044.7	11,259.0	6,954.6	85.6	84.6	-81.08	-4,280.6	-363.4	587.1	420.6	166.48	3.527	
11,417.3	7,044.6	11,276.3	6,954.5	85.9	84.9	-81.08	-4,297.9	-363.5	587.1	420.0	167.13	3.513	
11,500.0	7,044.0	11,359.0	6,954.2	87.5	86.5	-81.10	-4,380.6	-363.8	587.1	416.9	170.22	3.449	
11,515.7	7,043.9	11,374.8	6,954.1	87.7	86.8	-81.10	-4,396.4	-363.8	587.1	416.3	170.81	3.437	
11,600.0	7,043.4	11,459.0	6,953.7	89.3	88.4	-81.11	-4,480.6	-364.1	587.1	413.1	173.97	3.375	
11,614.1	7,043.3	11,473.2	6,953.7	89.6	88.6	-81.12	-4,494.8	-364.2	587.1	412.6	174.50	3.364	
11,700.0	7,042.8	11,559.0	6,953.3	91.2	90.2	-81.13	-4,580.6	-364.5	587.0	409.3	177.72	3.303	
11,712.6	7,042.7	11,571.6	6,953.2	91.4	90.5	-81.13	-4,593.2	-364.5	587.0	408.9	178.19	3.294	
11,800.0	7,042.2	11,659.0	6,952.8	93.0	92.1	-81.15	-4,680.6	-364.9	587.0	405.6	181.47	3.235	
11,811.0	7,042.1	11,670.0	6,952.8	93.2	92.3	-81.15	-4,691.6	-364.9	587.0	405.1	181.88	3.227	
11,900.0	7,041.5	11,759.0	6,952.4	94.9	94.0	-81.17	-4,780.6	-365.2	587.0	401.8	185.23	3.169	
11,909.4	7,041.5	11,768.5	6,952.3	95.1	94.2	-81.17	-4,790.1	-365.3	587.0	401.4	185.58	3.163	
12,000.0	7,040.9	11,859.0	6,951.9	96.8	95.9	-81.18	-4,880.6	-365.6	587.0	398.0	188.98	3.106	
12,007.8	7,040.8	11,866.9	6,951.9	96.9	96.1	-81.19	-4,888.5	-365.6	587.0	397.7	189.28	3.101	
12,100.0	7,040.3	11,959.0	6,951.5	98.7	97.8	-81.20	-4,980.6	-366.0	587.0	394.2	192.74	3.045	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,040.2	11,965.3	6,951.5	98.8	97.9	-81.20	-4,986.9	-366.0	587.0	394.0	192.98	3.042	
12,200.0	7,039.6	12,059.0	6,951.0	100.5	99.7	-81.22	-5,080.6	-366.3	586.9	390.4	196.51	2.987	
12,204.7	7,039.6	12,063.7	6,951.0	100.6	99.8	-81.22	-5,085.3	-366.4	586.9	390.2	196.68	2.984	
12,300.0	7,039.0	12,159.0	6,950.6	102.4	101.6	-81.24	-5,180.6	-366.7	586.9	386.6	200.27	2.931	
12,303.1	7,039.0	12,162.2	6,950.6	102.5	101.7	-81.24	-5,183.8	-366.7	586.9	386.5	200.39	2.929	
12,400.0	7,038.4	12,259.0	6,950.2	104.3	103.5	-81.25	-5,280.6	-367.1	586.9	382.8	204.04	2.876	
12,401.5	7,038.4	12,260.6	6,950.1	104.3	103.5	-81.25	-5,282.2	-367.1	586.9	382.8	204.09	2.876	
12,500.0	7,037.8	12,359.0	6,949.7	106.2	105.4	-81.27	-5,380.6	-367.4	586.9	379.1	207.80	2.824	
12,598.4	7,037.1	12,457.4	6,949.3	108.0	107.3	-81.29	-5,479.0	-367.8	586.8	375.3	211.51	2.774	
12,600.0	7,037.1	12,459.0	6,949.3	108.0	107.3	-81.29	-5,480.6	-367.8	586.8	375.3	211.57	2.774	
12,696.8	7,036.5	12,555.9	6,948.8	109.9	109.1	-81.31	-5,577.4	-368.2	586.8	371.6	215.22	2.727	
12,700.0	7,036.5	12,559.0	6,948.8	109.9	109.2	-81.31	-5,580.6	-368.2	586.8	371.5	215.34	2.725	
12,795.2	7,035.9	12,654.3	6,948.4	111.7	111.0	-81.32	-5,675.9	-368.5	586.8	367.9	218.94	2.680	
12,800.0	7,035.9	12,659.0	6,948.4	111.8	111.1	-81.32	-5,680.6	-368.5	586.8	367.7	219.12	2.678	
12,893.7	7,035.3	12,752.7	6,947.9	113.6	112.9	-81.34	-5,774.3	-368.9	586.8	364.1	222.65	2.635	
12,900.0	7,035.2	12,759.0	6,947.9	113.7	113.0	-81.34	-5,780.6	-368.9	586.8	363.9	222.89	2.633	
12,992.1	7,034.7	12,851.1	6,947.5	115.4	114.7	-81.36	-5,872.7	-369.2	586.7	360.4	226.37	2.592	
13,000.0	7,034.6	12,859.0	6,947.5	115.6	114.9	-81.36	-5,880.6	-369.3	586.7	360.1	226.67	2.589	
13,090.5	7,034.0	12,949.6	6,947.1	117.3	116.6	-81.38	-5,971.1	-369.6	586.7	356.6	230.09	2.550	
13,100.0	7,034.0	12,959.0	6,947.0	117.5	116.8	-81.38	-5,980.6	-369.6	586.7	356.3	230.45	2.546	
13,188.9	7,033.4	13,048.0	6,946.6	119.1	118.5	-81.39	-6,069.6	-370.0	586.7	352.9	233.81	2.509	
13,200.0	7,033.4	13,059.0	6,946.6	119.3	118.7	-81.39	-6,080.6	-370.0	586.7	352.5	234.23	2.505	
13,287.4	7,032.8	13,146.4	6,946.2	121.0	120.4	-81.41	-6,168.0	-370.3	586.7	349.2	237.53	2.470	
13,300.0	7,032.7	13,159.0	6,946.1	121.2	120.6	-81.41	-6,180.6	-370.4	586.7	348.7	238.01	2.465	
13,385.8	7,032.2	13,244.8	6,945.7	122.9	122.2	-81.43	-6,266.4	-370.7	586.7	345.4	241.25	2.432	
13,400.0	7,032.1	13,259.0	6,945.7	123.1	122.5	-81.43	-6,280.6	-370.7	586.7	344.9	241.79	2.426	
13,484.2	7,031.6	13,343.3	6,945.3	124.7	124.1	-81.44	-6,364.8	-371.0	586.6	341.7	244.97	2.395	
13,500.0	7,031.5	13,359.0	6,945.2	125.0	124.4	-81.45	-6,380.6	-371.1	586.6	341.1	245.57	2.389	
13,582.6	7,030.9	13,441.7	6,944.9	126.6	126.0	-81.46	-6,463.3	-371.4	586.6	337.9	248.70	2.359	
13,600.0	7,030.8	13,459.0	6,944.8	126.9	126.3	-81.46	-6,480.6	-371.5	586.6	337.3	249.35	2.353	
13,681.1	7,030.3	13,540.1	6,944.4	128.4	127.8	-81.48	-6,561.7	-371.8	586.6	334.2	252.42	2.324	
13,700.0	7,030.2	13,559.0	6,944.3	128.8	128.2	-81.48	-6,580.6	-371.8	586.6	333.5	253.14	2.317	
13,779.5	7,029.7	13,638.5	6,944.0	130.3	129.7	-81.50	-6,660.1	-372.1	586.6	330.4	256.15	2.290	
13,800.0	7,029.6	13,659.0	6,943.9	130.7	130.1	-81.50	-6,680.6	-372.2	586.6	329.6	256.93	2.283	
13,877.9	7,029.1	13,737.0	6,943.5	132.2	131.6	-81.51	-6,758.5	-372.5	586.6	326.7	259.88	2.257	
13,900.0	7,029.0	13,759.0	6,943.4	132.6	132.0	-81.52	-6,780.6	-372.6	586.5	325.8	260.71	2.250	
13,976.3	7,028.5	13,835.4	6,943.1	134.0	133.5	-81.53	-6,856.9	-372.9	586.5	322.9	263.61	2.225	
14,000.0	7,028.3	13,859.0	6,943.0	134.5	133.9	-81.53	-6,880.6	-372.9	586.5	322.0	264.50	2.217	
14,074.8	7,027.9	13,933.8	6,942.6	135.9	135.3	-81.55	-6,955.4	-373.2	586.5	319.2	267.34	2.194	
14,100.0	7,027.7	13,959.0	6,942.5	136.4	135.8	-81.55	-6,980.6	-373.3	586.5	318.2	268.29	2.186	
14,173.2	7,027.2	14,032.2	6,942.2	137.8	137.2	-81.56	-7,053.8	-373.6	586.5	315.4	271.07	2.164	
14,200.0	7,027.1	14,059.0	6,942.1	138.3	137.7	-81.57	-7,080.6	-373.7	586.5	314.4	272.08	2.156	
14,210.5	7,027.0	14,069.6	6,942.0	138.5	137.9	-81.57	-7,091.1	-373.7	586.5	314.0	272.48	2.152 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7K-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		
0.0	0.0	4.0	4.0	0.0	0.0	90.00	0.0	119.9	119.9					
98.4	98.4	102.4	102.4	0.1	0.1	90.00	0.0	119.9	119.9	119.7	0.20	605.216		
100.0	100.0	104.0	104.0	0.1	0.1	90.00	0.0	119.9	119.9	119.7	0.20	589.417		
196.8	196.8	200.8	200.8	0.3	0.3	90.00	0.0	119.9	119.9	119.3	0.64	187.693		
200.0	200.0	204.0	204.0	0.3	0.3	90.00	0.0	119.9	119.9	119.2	0.65	183.622		
295.3	295.3	299.3	299.3	0.5	0.5	90.00	0.0	119.9	119.9	118.8	1.08	110.887		
300.0	300.0	304.0	304.0	0.5	0.6	90.00	0.0	119.9	119.9	118.8	1.10	108.751		
393.7	393.7	397.7	397.7	0.8	0.8	90.00	0.0	119.9	119.9	118.4	1.52	78.688		
400.0	400.0	404.0	404.0	0.8	0.8	90.00	0.0	119.9	119.9	118.3	1.55	77.252		
492.1	492.1	496.1	496.1	1.0	1.0	90.00	0.0	119.9	119.9	117.9	1.97	60.980		
500.0	500.0	504.0	504.0	1.0	1.0	90.00	0.0	119.9	119.9	117.9	2.00	59.902		
590.5	590.5	594.5	594.5	1.2	1.2	90.00	0.0	119.9	119.9	117.5	2.41	49.778		
600.0	600.0	604.0	604.0	1.2	1.2	90.00	0.0	119.9	119.9	117.4	2.45	48.915		
689.0	689.0	693.0	693.0	1.4	1.4	90.00	0.0	119.9	119.9	117.0	2.85	42.053		
700.0	700.0	704.0	704.0	1.4	1.5	90.00	0.0	119.9	119.9	117.0	2.90	41.335		
787.4	787.4	791.4	791.4	1.6	1.7	90.00	0.0	119.9	119.9	116.6	3.29	36.404		
800.0	800.0	804.0	804.0	1.7	1.7	90.00	0.0	119.9	119.9	116.5	3.35	35.788		
885.8	885.8	889.8	889.8	1.9	1.9	90.00	0.0	119.9	119.9	116.2	3.74	32.092		
900.0	900.0	904.0	904.0	1.9	1.9	90.00	0.0	119.9	119.9	116.1	3.80	31.554		
984.2	984.2	988.2	988.2	2.1	2.1	90.00	0.0	119.9	119.9	115.7	4.18	28.694		
1,000.0	1,000.0	1,004.0	1,004.0	2.1	2.1	90.00	0.0	119.9	119.9	115.6	4.25	28.216		
1,082.7	1,082.7	1,086.7	1,086.7	2.3	2.3	90.00	0.0	119.9	119.9	115.3	4.62	25.947		
1,087.5	1,087.5	1,091.5	1,091.5	2.3	2.3	90.00	0.0	119.9	119.9	115.3	4.64	25.826 CC		
1,100.0	1,100.0	1,103.9	1,103.9	2.3	2.4	90.00	0.0	119.9	119.9	115.2	4.70	25.520 ES		
1,181.1	1,181.1	1,182.0	1,182.0	2.5	2.5	164.04	0.5	120.9	122.1	117.0	5.04	24.213		
1,200.0	1,200.0	1,200.0	1,200.0	2.6	2.6	163.99	0.8	121.4	123.2	118.1	5.12	24.054		
1,279.5	1,279.4	1,276.4	1,276.3	2.7	2.7	163.66	2.5	124.7	130.3	124.9	5.45	23.918		
1,300.0	1,299.8	1,295.9	1,295.7	2.8	2.8	163.55	3.1	125.8	132.8	127.3	5.53	24.005		
1,377.9	1,377.5	1,369.7	1,369.3	2.9	2.9	163.09	5.8	131.2	144.6	138.8	5.85	24.708		
1,400.0	1,399.5	1,390.5	1,390.0	3.0	3.0	162.95	6.8	133.0	148.7	142.7	5.94	25.013		
1,476.4	1,475.3	1,461.6	1,460.6	3.2	3.2	162.45	10.5	140.1	165.0	158.7	6.26	26.352		
1,500.0	1,498.7	1,483.3	1,482.2	3.2	3.2	162.29	11.8	142.6	170.7	164.4	6.36	26.857		
1,574.8	1,572.6	1,551.4	1,549.5	3.4	3.4	161.80	16.4	151.4	191.2	184.5	6.67	28.675		
1,600.0	1,597.5	1,574.0	1,571.9	3.5	3.4	161.64	18.0	154.6	198.8	192.0	6.77	29.366		
1,673.2	1,669.4	1,638.8	1,635.6	3.7	3.6	161.18	23.3	164.7	223.1	216.0	7.07	31.536		
1,700.2	1,695.8	1,662.3	1,658.7	3.8	3.7	161.02	25.3	168.7	232.8	225.6	7.18	32.404		
1,771.6	1,765.7	1,725.6	1,720.7	4.1	3.9	160.74	31.3	180.2	259.6	252.1	7.50	34.600		
1,800.0	1,793.4	1,751.8	1,746.3	4.2	4.0	160.63	33.8	185.0	270.4	262.7	7.63	35.422		
1,870.1	1,862.0	1,816.7	1,809.7	4.4	4.2	160.38	40.0	197.0	296.9	289.0	7.96	37.315		
1,900.0	1,891.2	1,844.3	1,836.8	4.5	4.3	160.29	42.7	202.1	308.3	300.2	8.09	38.082		
1,968.5	1,958.3	1,907.7	1,898.8	4.8	4.6	160.11	48.7	213.8	334.2	325.8	8.42	39.716		
2,000.0	1,989.1	1,936.9	1,927.3	4.9	4.7	160.04	51.5	219.2	346.2	337.6	8.56	40.423		
2,066.9	2,054.5	1,998.8	1,987.9	5.2	4.9	159.89	57.5	230.6	371.5	362.7	8.89	41.816		
2,100.0	2,086.9	2,029.4	2,017.8	5.3	5.0	159.83	60.4	236.2	384.1	375.0	9.05	42.456		
2,165.3	2,150.8	2,089.9	2,077.0	5.6	5.3	159.71	66.2	247.4	408.9	399.5	9.36	43.661		
2,200.0	2,184.7	2,121.9	2,108.3	5.7	5.4	159.66	69.3	253.3	422.0	412.5	9.53	44.260		
2,263.8	2,247.1	2,180.9	2,166.0	6.0	5.6	159.56	74.9	264.2	446.2	436.3	9.85	45.298		
2,300.0	2,282.5	2,214.5	2,198.8	6.1	5.7	159.52	78.1	270.4	459.9	449.9	10.03	45.854		
2,362.2	2,343.3	2,272.0	2,255.1	6.4	6.0	159.44	83.6	281.0	483.5	473.2	10.34	46.753		
2,400.0	2,380.3	2,307.0	2,289.3	6.6	6.1	159.40	87.0	287.5	497.8	487.3	10.53	47.271		
2,460.6	2,439.6	2,363.1	2,344.2	6.8	6.4	159.33	92.4	297.8	520.8	510.0	10.84	48.052		
2,500.0	2,478.1	2,399.5	2,379.8	7.0	6.5	159.29	95.8	304.5	535.8	524.7	11.04	48.536		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HONEBEIN 7K-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	
2,559.0	2,535.9	2,454.1	2,433.3	7.2	6.7	159.24	101.1	314.6	558.2	546.8	11.34	49.217	
2,600.0	2,575.9	2,492.0	2,470.3	7.4	6.9	159.20	104.7	321.6	573.7	562.1	11.55	49.668	
2,657.5	2,632.2	2,545.2	2,522.4	7.7	7.1	159.16	109.8	331.4	595.5	583.6	11.85	50.265	
2,700.0	2,673.8	2,584.6	2,560.8	7.8	7.3	159.12	113.6	338.7	611.6	599.5	12.07	50.688	
2,755.9	2,728.4	2,636.3	2,611.4	8.1	7.5	159.08	118.5	348.2	632.8	620.5	12.36	51.213	
2,800.0	2,771.6	2,677.1	2,651.4	8.3	7.7	159.05	122.4	355.8	649.5	637.0	12.59	51.609	
2,854.3	2,824.7	2,727.3	2,700.5	8.5	7.9	159.02	127.3	365.0	670.1	657.3	12.87	52.073	
2,900.0	2,869.4	2,769.6	2,741.9	8.7	8.1	158.99	131.3	372.8	687.5	674.4	13.11	52.446	
2,952.7	2,921.0	2,818.4	2,789.6	8.9	8.3	158.96	136.0	381.9	707.5	694.1	13.38	52.856	
3,000.0	2,967.2	2,862.1	2,832.4	9.2	8.5	158.94	140.2	389.9	725.4	711.8	13.63	53.207	
3,051.2	3,017.3	2,909.5	2,878.7	9.4	8.7	158.91	144.7	398.7	744.8	730.9	13.90	53.571	
3,100.0	3,065.0	2,954.7	2,922.9	9.6	8.9	158.89	149.0	407.0	763.3	749.2	14.16	53.902	
3,149.6	3,113.5	3,000.6	2,967.8	9.8	9.1	158.86	153.4	415.5	782.1	767.7	14.42	54.226	
3,200.0	3,162.8	3,047.2	3,013.4	10.0	9.3	158.84	157.9	424.1	801.2	786.6	14.69	54.539	
3,248.0	3,209.8	3,091.6	3,056.8	10.3	9.5	158.82	162.1	432.3	819.5	804.5	14.95	54.827	
3,300.0	3,260.6	3,139.7	3,103.9	10.5	9.7	158.80	166.8	441.1	839.2	824.0	15.22	55.125	
3,346.4	3,306.1	3,182.7	3,145.9	10.7	9.9	158.78	170.9	449.1	856.8	841.3	15.47	55.381	
3,400.0	3,358.4	3,232.2	3,194.4	10.9	10.1	158.76	175.6	458.2	877.1	861.3	15.76	55.665	
3,444.9	3,402.3	3,273.8	3,235.0	11.1	10.3	158.75	179.6	465.9	894.1	878.1	16.00	55.893	
3,500.0	3,456.3	3,324.8	3,284.9	11.4	10.5	158.73	184.5	475.3	915.0	898.7	16.29	56.163	
3,543.3	3,498.6	3,364.8	3,324.1	11.6	10.7	158.71	188.3	482.7	931.5	914.9	16.52	56.367	
3,600.0	3,554.1	3,417.3	3,375.4	11.8	10.9	158.70	193.3	492.4	953.0	936.1	16.83	56.625	
3,641.7	3,594.9	3,455.9	3,413.1	12.0	11.1	158.68	197.0	499.5	968.8	951.7	17.05	56.807	
3,700.0	3,651.9	3,509.8	3,465.9	12.3	11.3	158.67	202.2	509.5	990.9	973.5	17.37	57.054	
3,740.1	3,691.2	3,547.0	3,502.2	12.5	11.5	158.66	205.8	516.3	1,006.1	988.5	17.58	57.217	
3,800.0	3,749.7	3,602.3	3,556.4	12.7	11.7	158.64	211.1	526.5	1,028.8	1,010.9	17.91	57.453	
3,838.6	3,787.4	3,638.0	3,591.3	12.9	11.9	158.63	214.5	533.1	1,043.5	1,025.3	18.12	57.599	
3,900.0	3,847.5	3,694.9	3,646.9	13.2	12.1	158.62	219.9	543.6	1,066.8	1,048.3	18.45	57.824	
3,937.0	3,883.7	3,729.1	3,680.4	13.3	12.3	158.61	223.2	549.9	1,080.8	1,062.1	18.65	57.955	
4,000.0	3,945.3	3,787.4	3,737.4	13.6	12.5	158.59	228.8	560.7	1,104.7	1,085.7	18.99	58.172	
4,035.4	3,980.0	3,820.2	3,769.5	13.8	12.7	158.58	231.9	566.7	1,118.1	1,098.9	19.18	58.289	
4,100.0	4,043.1	3,879.9	3,827.9	14.1	13.0	158.57	237.7	577.8	1,142.6	1,123.1	19.53	58.497	
4,133.8	4,076.3	3,911.2	3,858.5	14.2	13.1	158.56	240.7	583.5	1,155.4	1,135.7	19.72	58.602	
4,200.0	4,141.0	3,972.5	3,918.4	14.5	13.4	158.55	246.5	594.8	1,180.5	1,160.5	20.08	58.801	
4,232.3	4,172.5	4,002.3	3,947.6	14.7	13.5	158.54	249.4	600.3	1,192.8	1,172.5	20.25	58.896	
4,300.0	4,238.8	4,065.0	4,008.9	15.0	13.8	158.53	255.4	611.9	1,218.5	1,197.8	20.62	59.088	
4,330.7	4,268.8	4,109.5	4,052.5	15.1	14.0	158.53	259.5	619.9	1,230.0	1,209.1	20.82	59.076	
4,400.0	4,336.6	4,217.7	4,159.0	15.4	14.3	158.57	268.3	636.7	1,254.3	1,233.0	21.26	59.003	
4,429.1	4,365.1	4,263.9	4,204.8	15.6	14.4	158.62	271.4	642.8	1,263.8	1,242.4	21.44	58.950	
4,500.0	4,434.4	4,378.5	4,318.4	15.9	14.7	158.77	277.8	655.1	1,285.3	1,263.4	21.87	58.761	
4,527.5	4,461.3	4,423.6	4,363.4	16.0	14.8	158.85	279.8	658.9	1,293.0	1,270.9	22.04	58.668	
4,600.0	4,532.2	4,544.1	4,483.6	16.4	15.0	159.13	283.4	665.8	1,311.3	1,288.8	22.46	58.375	
4,626.0	4,557.6	4,587.8	4,527.3	16.5	15.1	159.24	284.1	667.2	1,317.2	1,294.6	22.61	58.250	
4,700.0	4,630.0	4,694.5	4,634.0	16.8	15.3	159.57	284.6	668.2	1,332.3	1,309.3	23.00	57.926	
4,724.4	4,653.9	4,718.4	4,657.9	16.9	15.3	159.64	284.6	668.2	1,337.0	1,313.9	23.11	57.850	
4,800.0	4,727.8	4,792.4	4,731.8	17.3	15.4	159.88	284.6	668.2	1,351.8	1,328.4	23.46	57.612	
4,822.8	4,750.2	4,814.7	4,754.2	17.4	15.4	159.94	284.6	668.2	1,356.3	1,332.7	23.57	57.542	
4,900.0	4,825.6	4,890.2	4,829.6	17.7	15.5	160.17	284.6	668.2	1,371.4	1,347.5	23.93	57.310	
4,921.2	4,846.4	4,911.0	4,850.4	17.8	15.6	160.24	284.6	668.2	1,375.6	1,351.6	24.03	57.248	
5,000.0	4,923.5	4,988.0	4,927.5	18.2	15.7	160.46	284.6	668.2	1,391.0	1,366.6	24.40	57.021	
5,019.7	4,942.7	5,007.2	4,946.7	18.3	15.7	160.52	284.6	668.2	1,394.9	1,370.4	24.49	56.965	
5,100.0	5,021.3	5,085.8	5,025.3	18.6	15.8	160.75	284.6	668.2	1,410.7	1,385.8	24.86	56.743	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	5,103.5	5,043.0	18.7	15.9	160.80	284.6	668.2	1,414.3	1,389.3	24.95	56.694	
5,200.0	5,119.1	5,183.6	5,123.1	19.1	16.0	161.02	284.6	668.2	1,430.4	1,405.1	25.33	56.477	
5,216.5	5,135.3	5,199.8	5,139.3	19.2	16.0	161.06	284.6	668.2	1,433.7	1,408.3	25.40	56.434	
5,300.0	5,216.9	5,281.4	5,220.9	19.6	16.1	161.29	284.6	668.2	1,450.1	1,424.3	25.79	56.221	
5,314.9	5,231.5	5,296.1	5,235.5	19.6	16.2	161.33	284.6	668.2	1,453.1	1,427.2	25.86	56.184	
5,400.0	5,314.7	5,379.2	5,318.7	20.0	16.3	161.55	284.6	668.2	1,469.9	1,443.6	26.26	55.976	
5,413.4	5,327.8	5,392.3	5,331.8	20.1	16.3	161.58	284.6	668.2	1,472.5	1,446.2	26.32	55.944	
5,500.0	5,412.5	5,477.1	5,416.5	20.5	16.4	161.80	284.6	668.2	1,489.7	1,463.0	26.73	55.739	
5,511.8	5,424.1	5,488.6	5,428.1	20.5	16.5	161.83	284.6	668.2	1,492.0	1,465.2	26.78	55.712	
5,600.0	5,510.3	5,574.9	5,514.3	20.9	16.6	162.04	284.6	668.2	1,509.5	1,482.3	27.19	55.512	
5,610.2	5,520.3	5,584.9	5,524.3	21.0	16.6	162.07	284.6	668.2	1,511.5	1,484.3	27.24	55.489	
5,700.0	5,608.2	5,672.7	5,612.2	21.4	16.7	162.28	284.6	668.2	1,529.3	1,501.7	27.66	55.293	
5,708.6	5,616.6	5,681.1	5,620.6	21.4	16.8	162.30	284.6	668.2	1,531.0	1,503.3	27.70	55.274	
5,729.2	5,636.7	5,701.2	5,640.7	21.5	16.8	162.35	284.6	668.2	1,535.1	1,507.3	27.79	55.231	
5,800.0	5,706.1	5,770.7	5,710.1	21.8	16.9	162.59	284.6	668.2	1,548.4	1,520.2	28.19	54.923	
5,807.1	5,713.1	5,777.6	5,717.1	21.8	16.9	162.61	284.6	668.2	1,549.6	1,521.4	28.23	54.895	
5,900.0	5,804.7	5,869.3	5,808.7	22.1	17.1	162.87	284.6	668.2	1,564.3	1,535.6	28.70	54.504	
5,905.5	5,810.2	5,874.7	5,814.2	22.1	17.1	162.88	284.6	668.2	1,565.1	1,536.3	28.73	54.481	
6,000.0	5,903.9	5,968.4	5,907.9	22.3	17.2	163.08	284.6	668.2	1,576.9	1,547.8	29.17	54.055	
6,003.9	5,907.8	5,972.3	5,911.8	22.4	17.2	163.09	284.6	668.2	1,577.4	1,548.2	29.19	54.037	
6,100.0	6,003.4	6,067.9	6,007.4	22.6	17.4	163.24	284.6	668.2	1,586.3	1,556.6	29.61	53.578	
6,102.3	6,005.7	6,070.2	6,009.7	22.6	17.4	163.24	284.6	668.2	1,586.4	1,556.8	29.62	53.566	
6,200.0	6,103.2	6,167.7	6,107.2	22.7	17.6	163.34	284.6	668.2	1,592.2	1,562.2	30.00	53.071	
6,200.8	6,104.0	6,168.5	6,108.0	22.7	17.6	163.34	284.6	668.2	1,592.3	1,562.3	30.00	53.067	
6,299.2	6,202.3	6,266.9	6,206.3	22.9	17.7	163.38	284.6	668.2	1,594.9	1,564.5	30.36	52.540	
6,300.0	6,203.1	6,267.7	6,207.1	22.9	17.7	163.38	284.6	668.2	1,594.9	1,564.5	30.36	52.536	
6,329.4	6,232.5	6,297.0	6,236.5	22.9	17.8	89.22	284.6	668.2	1,595.0	1,564.6	30.46	52.360	
6,397.6	6,300.8	6,365.5	6,304.9	23.0	17.9	89.22	284.6	668.2	1,595.0	1,564.3	30.71	51.933	
6,400.0	6,303.1	6,367.9	6,307.4	23.0	17.9	89.22	284.6	668.2	1,595.0	1,564.3	30.72	51.919	
6,449.4	6,352.5	6,419.2	6,358.6	23.1	18.0	89.30	282.2	668.2	1,595.0	1,564.1	30.88	51.646	
6,496.0	6,399.2	6,467.3	6,406.3	23.1	18.0	-90.77	276.7	668.2	1,594.9	1,564.0	30.99	51.460	
6,500.0	6,403.1	6,471.3	6,410.3	23.1	18.0	-90.76	276.1	668.2	1,594.9	1,563.9	31.00	51.445	
6,550.0	6,452.8	6,522.5	6,460.6	23.1	18.0	-90.61	266.5	668.1	1,594.9	1,563.8	31.09	51.307	
6,594.5	6,496.6	6,567.8	6,504.4	23.2	18.0	-90.47	254.9	668.1	1,594.9	1,563.7	31.13	51.231	
6,600.0	6,502.0	6,573.4	6,509.7	23.2	18.0	-90.45	253.3	668.1	1,594.9	1,563.7	31.14	51.224	
6,650.0	6,550.5	6,623.9	6,557.5	23.2	18.0	-90.30	236.9	668.0	1,594.8	1,563.7	31.16	51.186	
6,692.9	6,591.4	6,667.1	6,597.3	23.2	18.0	-90.17	220.2	668.0	1,594.8	1,563.7	31.16	51.182	
6,700.0	6,598.0	6,674.2	6,603.7	23.2	18.0	-90.14	217.2	667.9	1,594.8	1,563.6	31.16	51.182	
6,745.5	6,640.3	6,719.7	6,644.3	23.2	18.0	-90.00	196.6	667.9	1,594.8	1,563.7	31.15	51.196	
6,750.0	6,644.4	6,724.1	6,648.2	23.2	18.0	-89.99	194.5	667.9	1,594.8	1,563.7	31.15	51.198	
6,791.3	6,681.6	6,765.1	6,683.5	23.2	18.0	-89.86	173.5	667.8	1,594.8	1,563.7	31.14	51.215	
6,800.0	6,689.3	6,773.7	6,690.7	23.2	18.0	-89.83	168.9	667.8	1,594.8	1,563.7	31.14	51.218	
6,850.0	6,732.6	6,823.1	6,731.1	23.2	18.0	-89.68	140.6	667.7	1,594.8	1,563.7	31.13	51.226	
6,889.7	6,765.7	6,862.1	6,761.7	23.2	18.0	-89.56	116.3	667.6	1,594.9	1,563.7	31.14	51.212	
6,900.0	6,774.0	6,872.1	6,769.3	23.2	18.0	-89.53	109.8	667.6	1,594.9	1,563.7	31.15	51.205	
6,950.0	6,813.3	6,920.9	6,805.0	23.2	18.0	-89.38	76.6	667.4	1,594.9	1,563.7	31.19	51.136	
6,988.2	6,841.9	6,958.0	6,830.7	23.2	18.0	-89.26	49.8	667.3	1,594.9	1,563.7	31.25	51.040	
7,000.0	6,850.5	6,969.4	6,838.3	23.2	17.9	-89.23	41.3	667.3	1,594.9	1,563.7	31.27	51.003	
7,050.0	6,885.2	7,017.7	6,868.9	23.2	17.9	-89.09	4.0	667.2	1,595.0	1,563.6	31.40	50.790	
7,086.6	6,908.9	7,052.8	6,889.6	23.2	18.0	-88.98	-24.4	667.1	1,595.1	1,563.5	31.54	50.575	
7,100.0	6,917.3	7,065.7	6,896.8	23.2	18.0	-88.95	-35.1	667.0	1,595.1	1,563.5	31.60	50.484	
7,150.0	6,946.6	7,113.5	6,921.9	23.2	18.0	-88.82	-75.7	666.9	1,595.1	1,563.3	31.86	50.073	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	6,965.5	7,146.8	6,937.8	23.3	18.0	-88.73	-105.0	666.8	1,595.2	1,563.1	32.08	49.723	
7,200.0	6,973.1	7,161.0	6,944.2	23.3	18.1	-88.69	-117.7	666.7	1,595.2	1,563.0	32.19	49.557	
7,250.0	6,996.5	7,208.4	6,963.5	23.3	18.2	-88.57	-160.9	666.6	1,595.3	1,562.7	32.60	48.933	
7,283.4	7,010.4	7,240.0	6,974.8	23.4	18.2	-88.49	-190.4	666.5	1,595.4	1,562.4	32.93	48.448	
7,300.0	7,016.8	7,255.5	6,979.9	23.4	18.3	-88.45	-205.2	666.4	1,595.4	1,562.3	33.10	48.205	
7,350.0	7,033.8	7,302.5	6,993.2	23.5	18.5	-88.35	-250.2	666.2	1,595.5	1,561.8	33.67	47.382	
7,381.9	7,043.0	7,332.4	7,000.2	23.6	18.6	-88.28	-279.2	666.1	1,595.5	1,561.4	34.09	46.800	
7,400.0	7,047.6	7,350.0	7,003.7	23.6	18.7	-88.25	-296.5	666.1	1,595.6	1,561.2	34.34	46.470	
7,450.0	7,057.9	7,396.0	7,011.0	23.8	19.0	-88.16	-341.9	665.9	1,595.6	1,560.6	35.07	45.500	
7,480.3	7,062.5	7,424.2	7,013.9	23.9	19.2	-88.11	-370.0	665.8	1,595.7	1,560.1	35.56	44.874	
7,500.0	7,064.8	7,442.6	7,015.3	24.0	19.3	-88.07	-388.2	665.7	1,595.7	1,559.8	35.88	44.475	
7,550.0	7,068.3	7,489.0	7,016.6	24.2	19.7	-88.00	-434.7	665.6	1,595.8	1,559.0	36.75	43.419	
7,578.7	7,068.7	7,517.7	7,016.5	24.4	19.9	-87.98	-463.4	665.5	1,595.8	1,558.5	37.32	42.764	
7,578.9	7,068.7	7,517.9	7,016.5	24.4	19.9	-87.98	-463.6	665.5	1,595.8	1,558.5	37.32	42.761	
7,600.0	7,068.6	7,539.0	7,016.4	24.5	20.1	-87.98	-484.7	665.4	1,595.8	1,558.0	37.75	42.273	
7,677.1	7,068.1	7,616.2	7,016.2	25.1	20.9	-87.99	-561.8	665.1	1,595.8	1,556.5	39.32	40.584	
7,700.0	7,067.9	7,639.0	7,016.1	25.2	21.1	-88.00	-584.7	665.0	1,595.8	1,556.0	39.81	40.085	
7,775.6	7,067.4	7,714.6	7,015.9	25.9	22.0	-88.00	-660.3	664.7	1,595.8	1,554.2	41.54	38.419	
7,800.0	7,067.3	7,739.0	7,015.8	26.1	22.3	-88.01	-684.7	664.6	1,595.8	1,553.7	42.12	37.890	
7,874.0	7,066.8	7,813.0	7,015.6	26.8	23.2	-88.02	-758.7	664.4	1,595.8	1,551.7	44.03	36.239	
7,900.0	7,066.7	7,839.0	7,015.5	27.0	23.6	-88.02	-784.7	664.3	1,595.8	1,551.0	44.73	35.676	
7,972.4	7,066.2	7,911.4	7,015.3	27.8	24.5	-88.03	-857.1	664.0	1,595.8	1,549.0	46.74	34.144	
8,000.0	7,066.0	7,939.0	7,015.2	28.1	24.9	-88.03	-884.7	663.9	1,595.8	1,548.2	47.52	33.581	
8,070.8	7,065.6	8,009.9	7,015.0	28.9	25.9	-88.04	-955.5	663.7	1,595.7	1,546.2	49.59	32.180	
8,100.0	7,065.4	8,039.0	7,014.9	29.3	26.4	-88.04	-984.7	663.6	1,595.7	1,545.3	50.46	31.626	
8,169.3	7,065.0	8,108.3	7,014.6	30.2	27.4	-88.05	-1,053.9	663.3	1,595.7	1,543.2	52.57	30.357	
8,200.0	7,064.8	8,139.0	7,014.5	30.6	27.9	-88.05	-1,084.7	663.2	1,595.7	1,542.2	53.52	29.818	
8,267.7	7,064.4	8,206.7	7,014.3	31.5	28.9	-88.06	-1,152.4	662.9	1,595.7	1,540.1	55.65	28.676	
8,300.0	7,064.2	8,239.0	7,014.2	31.9	29.4	-88.06	-1,184.7	662.8	1,595.7	1,539.1	56.68	28.154	
8,366.1	7,063.7	8,305.1	7,014.0	32.8	30.5	-88.07	-1,250.8	662.6	1,595.7	1,536.9	58.82	27.129	
8,400.0	7,063.5	8,339.0	7,013.9	33.3	31.0	-88.07	-1,284.7	662.5	1,595.7	1,535.8	59.93	26.627	
8,464.5	7,063.1	8,403.5	7,013.7	34.2	32.1	-88.08	-1,349.2	662.2	1,595.7	1,533.7	62.07	25.710	
8,500.0	7,062.9	8,439.0	7,013.6	34.8	32.7	-88.09	-1,384.6	662.1	1,595.7	1,532.5	63.25	25.228	
8,563.0	7,062.5	8,502.0	7,013.4	35.7	33.7	-88.09	-1,447.6	661.9	1,595.7	1,530.3	65.38	24.408	
8,600.0	7,062.3	8,539.0	7,013.3	36.3	34.4	-88.10	-1,484.6	661.7	1,595.7	1,529.1	66.64	23.947	
8,661.4	7,061.9	8,600.4	7,013.1	37.2	35.4	-88.10	-1,546.0	661.5	1,595.7	1,527.0	68.74	23.213	
8,700.0	7,061.6	8,639.0	7,013.0	37.8	36.1	-88.11	-1,584.6	661.4	1,595.7	1,525.6	70.07	22.772	
8,759.8	7,061.3	8,698.8	7,012.8	38.8	37.1	-88.11	-1,644.5	661.1	1,595.7	1,523.5	72.15	22.115	
8,800.0	7,061.0	8,739.0	7,012.6	39.4	37.8	-88.12	-1,684.6	661.0	1,595.7	1,522.1	73.56	21.693	
8,858.2	7,060.6	8,797.2	7,012.5	40.3	38.8	-88.13	-1,742.9	660.8	1,595.7	1,520.1	75.61	21.105	
8,900.0	7,060.4	8,839.0	7,012.3	41.0	39.6	-88.13	-1,784.6	660.6	1,595.7	1,518.6	77.08	20.701	
8,956.7	7,060.0	8,895.7	7,012.1	41.9	40.6	-88.14	-1,841.3	660.4	1,595.7	1,516.6	79.10	20.174	
9,000.0	7,059.8	8,939.0	7,012.0	42.6	41.4	-88.14	-1,884.6	660.3	1,595.7	1,515.0	80.64	19.788	
9,055.1	7,059.4	8,994.1	7,011.8	43.6	42.3	-88.15	-1,939.7	660.1	1,595.7	1,513.1	82.61	19.315	
9,100.0	7,059.1	9,039.0	7,011.7	44.3	43.1	-88.15	-1,984.6	659.9	1,595.7	1,511.4	84.23	18.944	
9,153.5	7,058.8	9,092.5	7,011.5	45.2	44.1	-88.16	-2,038.1	659.7	1,595.7	1,509.5	86.16	18.520	
9,200.0	7,058.5	9,139.0	7,011.4	46.0	45.0	-88.16	-2,084.6	659.5	1,595.7	1,507.8	87.84	18.165	
9,251.9	7,058.2	9,190.9	7,011.2	46.9	45.9	-88.17	-2,136.6	659.4	1,595.7	1,505.9	89.73	17.783	
9,300.0	7,057.9	9,239.0	7,011.1	47.7	46.8	-88.17	-2,184.6	659.2	1,595.7	1,504.2	91.48	17.442	
9,350.4	7,057.6	9,289.3	7,010.9	48.6	47.7	-88.18	-2,235.0	659.0	1,595.7	1,502.3	93.32	17.098	
9,400.0	7,057.2	9,339.0	7,010.7	49.4	48.6	-88.19	-2,284.6	658.8	1,595.7	1,500.5	95.14	16.772	
9,448.8	7,056.9	9,387.8	7,010.6	50.3	49.5	-88.19	-2,333.4	658.6	1,595.7	1,498.7	96.93	16.461	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,500.0	7,056.6	9,439.0	7,010.4	51.1	50.5	-88.20	-2,384.6	658.5	1,595.7	1,496.8	98.82	16.147	
9,547.2	7,056.3	9,486.2	7,010.3	52.0	51.3	-88.20	-2,431.8	658.3	1,595.7	1,495.1	100.56	15.868	
9,600.0	7,056.0	9,539.0	7,010.1	52.9	52.3	-88.21	-2,484.6	658.1	1,595.6	1,493.1	102.51	15.566	
9,645.6	7,055.7	9,584.6	7,009.9	53.7	53.2	-88.21	-2,530.2	657.9	1,595.6	1,491.4	104.20	15.313	
9,700.0	7,055.4	9,639.0	7,009.8	54.6	54.2	-88.22	-2,584.6	657.7	1,595.6	1,489.4	106.22	15.022	
9,744.1	7,055.1	9,683.0	7,009.6	55.4	55.0	-88.22	-2,628.7	657.6	1,595.6	1,487.8	107.86	14.794	
9,800.0	7,054.7	9,739.0	7,009.5	56.4	56.1	-88.23	-2,684.6	657.4	1,595.6	1,485.7	109.94	14.514	
9,842.5	7,054.5	9,781.5	7,009.3	57.2	56.9	-88.24	-2,727.1	657.2	1,595.6	1,484.1	111.53	14.307	
9,900.0	7,054.1	9,839.0	7,009.1	58.2	57.9	-88.24	-2,784.6	657.0	1,595.6	1,482.0	113.67	14.037	
9,940.9	7,053.8	9,879.9	7,009.0	58.9	58.7	-88.25	-2,825.5	656.9	1,595.6	1,480.4	115.20	13.851	
10,000.0	7,053.5	9,938.9	7,008.8	60.0	59.8	-88.25	-2,884.6	656.6	1,595.6	1,478.2	117.42	13.590	
10,039.3	7,053.2	9,978.3	7,008.7	60.7	60.6	-88.26	-2,923.9	656.5	1,595.6	1,476.7	118.89	13.421	
10,100.0	7,052.8	10,038.9	7,008.5	61.8	61.7	-88.26	-2,984.6	656.3	1,595.6	1,474.5	121.17	13.169	
10,137.8	7,052.6	10,076.7	7,008.4	62.4	62.4	-88.27	-3,022.4	656.1	1,595.6	1,473.0	122.59	13.016	
10,200.0	7,052.2	10,138.9	7,008.2	63.6	63.6	-88.27	-3,084.6	655.9	1,595.6	1,470.7	124.93	12.772	
10,236.2	7,052.0	10,175.1	7,008.1	64.2	64.3	-88.28	-3,120.8	655.8	1,595.6	1,469.3	126.30	12.634	
10,300.0	7,051.6	10,238.9	7,007.8	65.4	65.5	-88.29	-3,184.6	655.6	1,595.6	1,466.9	128.70	12.398	
10,334.6	7,051.4	10,273.6	7,007.7	66.0	66.2	-88.29	-3,219.2	655.4	1,595.6	1,465.6	130.01	12.273	
10,400.0	7,051.0	10,338.9	7,007.5	67.2	67.4	-88.30	-3,284.6	655.2	1,595.6	1,463.1	132.48	12.044	
10,433.0	7,050.7	10,372.0	7,007.4	67.8	68.1	-88.30	-3,317.6	655.1	1,595.6	1,461.9	133.73	11.932	
10,500.0	7,050.3	10,438.9	7,007.2	69.0	69.3	-88.31	-3,384.6	654.8	1,595.6	1,459.4	136.27	11.710	
10,531.5	7,050.1	10,470.4	7,007.1	69.6	69.9	-88.31	-3,416.0	654.7	1,595.6	1,458.2	137.46	11.608	
10,600.0	7,049.7	10,538.9	7,006.9	70.8	71.2	-88.32	-3,484.6	654.5	1,595.6	1,455.6	140.06	11.393	
10,629.9	7,049.5	10,568.8	7,006.8	71.4	71.8	-88.32	-3,514.5	654.4	1,595.6	1,454.4	141.19	11.301	
10,700.0	7,049.1	10,638.9	7,006.6	72.7	73.2	-88.33	-3,584.6	654.1	1,595.6	1,451.8	143.85	11.092	
10,728.3	7,048.9	10,667.3	7,006.5	73.2	73.7	-88.33	-3,612.9	654.0	1,595.6	1,450.7	144.93	11.010	
10,800.0	7,048.4	10,738.9	7,006.2	74.5	75.1	-88.34	-3,684.5	653.7	1,595.6	1,448.0	147.66	10.806	
10,826.7	7,048.3	10,765.7	7,006.1	75.0	75.6	-88.34	-3,711.3	653.7	1,595.6	1,447.0	148.67	10.732	
10,851.9	7,048.1	10,790.9	7,006.1	75.5	76.1	-88.35	-3,736.5	653.6	1,595.6	1,446.0	149.63	10.664	
10,900.0	7,047.8	10,838.9	7,005.9	76.3	77.0	-88.35	-3,784.5	653.4	1,595.6	1,444.2	151.46	10.535	
10,925.2	7,047.7	10,864.1	7,005.8	76.8	77.5	-88.35	-3,809.7	653.3	1,595.6	1,443.2	152.42	10.468	
11,000.0	7,047.2	10,938.9	7,005.6	78.2	78.9	-88.36	-3,884.5	653.0	1,595.6	1,440.4	155.27	10.276	
11,023.6	7,047.0	10,962.5	7,005.5	78.6	79.4	-88.36	-3,908.1	652.9	1,595.6	1,439.5	156.17	10.217	
11,100.0	7,046.6	11,038.9	7,005.3	80.0	80.9	-88.37	-3,984.5	652.7	1,595.6	1,436.5	159.09	10.030	
11,122.0	7,046.4	11,060.9	7,005.2	80.4	81.3	-88.38	-4,006.6	652.6	1,595.6	1,435.7	159.93	9.977	
11,200.0	7,045.9	11,138.9	7,004.9	81.9	82.8	-88.38	-4,084.5	652.3	1,595.6	1,432.7	162.91	9.795	
11,220.4	7,045.8	11,159.4	7,004.9	82.3	83.2	-88.39	-4,105.0	652.2	1,595.6	1,431.9	163.69	9.748	
11,300.0	7,045.3	11,238.9	7,004.6	83.7	84.7	-88.40	-4,184.5	651.9	1,595.6	1,428.9	166.73	9.570	
11,318.9	7,045.2	11,257.8	7,004.6	84.1	85.1	-88.40	-4,203.4	651.9	1,595.6	1,428.2	167.45	9.529	
11,400.0	7,044.7	11,338.9	7,004.3	85.6	86.7	-88.41	-4,284.5	651.6	1,595.6	1,425.1	170.56	9.355	
11,417.3	7,044.6	11,356.2	7,004.2	85.9	87.0	-88.41	-4,301.8	651.5	1,595.6	1,424.4	171.22	9.319	
11,500.0	7,044.0	11,438.9	7,004.0	87.5	88.6	-88.42	-4,384.5	651.2	1,595.6	1,421.2	174.39	9.150	
11,515.7	7,043.9	11,454.6	7,003.9	87.7	88.9	-88.42	-4,400.2	651.2	1,595.6	1,420.6	174.99	9.118	
11,600.0	7,043.4	11,538.9	7,003.6	89.3	90.5	-88.43	-4,484.5	650.9	1,595.6	1,417.4	178.22	8.953	
11,614.1	7,043.3	11,553.0	7,003.6	89.6	90.8	-88.43	-4,498.7	650.8	1,595.6	1,416.9	178.76	8.926	
11,700.0	7,042.8	11,638.9	7,003.3	91.2	92.5	-88.44	-4,584.5	650.5	1,595.6	1,413.6	182.06	8.764	
11,712.6	7,042.7	11,651.5	7,003.3	91.4	92.7	-88.44	-4,597.1	650.5	1,595.6	1,413.1	182.54	8.741	
11,800.0	7,042.2	11,738.9	7,003.0	93.0	94.4	-88.45	-4,684.5	650.1	1,595.6	1,409.7	185.90	8.583	
11,811.0	7,042.1	11,749.9	7,002.9	93.2	94.6	-88.45	-4,695.5	650.1	1,595.6	1,409.3	186.32	8.564	
11,900.0	7,041.5	11,838.9	7,002.7	94.9	96.4	-88.46	-4,784.5	649.8	1,595.6	1,405.9	189.74	8.410	
11,909.4	7,041.5	11,848.3	7,002.6	95.1	96.6	-88.46	-4,793.9	649.8	1,595.6	1,405.5	190.10	8.394	
12,000.0	7,040.9	11,938.9	7,002.3	96.8	98.3	-88.47	-4,884.5	649.4	1,595.6	1,402.1	193.58	8.243	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,007.8	7,040.8	11,946.7	7,002.3	96.9	98.5	-88.47	-4,892.3	649.4	1,595.6	1,401.8	193.88	8.230	
12,100.0	7,040.3	12,038.9	7,002.0	98.7	100.3	-88.48	-4,984.5	649.1	1,595.6	1,398.2	197.43	8.082	
12,106.3	7,040.2	12,045.2	7,002.0	98.8	100.4	-88.48	-4,990.8	649.0	1,595.7	1,398.0	197.67	8.072	
12,200.0	7,039.6	12,138.9	7,001.7	100.5	102.2	-88.49	-5,084.5	648.7	1,595.7	1,394.4	201.27	7.928	
12,204.7	7,039.6	12,143.6	7,001.7	100.6	102.3	-88.49	-5,089.2	648.7	1,595.7	1,394.2	201.45	7.921	
12,300.0	7,039.0	12,238.9	7,001.4	102.4	104.2	-88.50	-5,184.5	648.4	1,595.7	1,390.5	205.12	7.779	
12,303.1	7,039.0	12,242.0	7,001.3	102.5	104.2	-88.50	-5,187.6	648.3	1,595.7	1,390.4	205.24	7.774	
12,400.0	7,038.4	12,338.9	7,001.0	104.3	106.1	-88.51	-5,284.5	648.0	1,595.7	1,386.7	208.97	7.636	
12,401.5	7,038.4	12,340.4	7,001.0	104.3	106.1	-88.51	-5,286.0	648.0	1,595.7	1,386.6	209.03	7.634	
12,500.0	7,037.8	12,438.9	7,000.7	106.2	108.1	-88.53	-5,384.5	647.6	1,595.7	1,382.8	212.83	7.497	
12,598.4	7,037.1	12,537.3	7,000.4	108.0	110.0	-88.54	-5,482.9	647.3	1,595.7	1,379.1	216.62	7.366	
12,600.0	7,037.1	12,538.9	7,000.4	108.0	110.0	-88.54	-5,484.5	647.3	1,595.7	1,379.0	216.68	7.364	
12,696.8	7,036.5	12,635.7	7,000.0	109.9	111.9	-88.55	-5,581.3	646.9	1,595.7	1,375.3	220.42	7.239	
12,700.0	7,036.5	12,638.9	7,000.0	109.9	112.0	-88.55	-5,584.5	646.9	1,595.7	1,375.1	220.54	7.235	
12,795.2	7,035.9	12,734.1	6,999.7	111.7	113.8	-88.56	-5,679.7	646.6	1,595.7	1,371.5	224.21	7.117	
12,800.0	7,035.9	12,738.9	6,999.7	111.8	113.9	-88.56	-5,684.5	646.6	1,595.7	1,371.3	224.40	7.111	
12,893.7	7,035.3	12,832.5	6,999.4	113.6	115.7	-88.57	-5,778.1	646.2	1,595.7	1,367.7	228.01	6.998	
12,900.0	7,035.2	12,838.9	6,999.4	113.7	115.9	-88.57	-5,784.5	646.2	1,595.7	1,367.4	228.25	6.991	
12,992.1	7,034.7	12,931.0	6,999.1	115.4	117.7	-88.58	-5,876.6	645.9	1,595.7	1,363.9	231.81	6.884	
13,000.0	7,034.6	12,938.9	6,999.1	115.6	117.8	-88.58	-5,884.5	645.8	1,595.7	1,363.6	232.12	6.875	
13,090.5	7,034.0	13,029.4	6,998.8	117.3	119.6	-88.59	-5,975.0	645.5	1,595.7	1,360.1	235.61	6.773	
13,100.0	7,034.0	13,038.9	6,998.7	117.5	119.8	-88.59	-5,984.5	645.5	1,595.7	1,359.7	235.98	6.762	
13,188.9	7,033.4	13,127.8	6,998.4	119.1	121.5	-88.60	-6,073.4	645.2	1,595.7	1,356.3	239.41	6.665	
13,200.0	7,033.4	13,138.8	6,998.4	119.3	121.7	-88.60	-6,084.4	645.1	1,595.7	1,355.9	239.84	6.653	
13,287.4	7,032.8	13,226.2	6,998.1	121.0	123.5	-88.61	-6,171.8	644.8	1,595.7	1,352.5	243.22	6.561	
13,300.0	7,032.7	13,238.8	6,998.1	121.2	123.7	-88.61	-6,184.4	644.8	1,595.7	1,352.0	243.70	6.548	
13,385.8	7,032.2	13,324.6	6,997.8	122.9	125.4	-88.62	-6,270.2	644.5	1,595.7	1,348.7	247.02	6.460	
13,400.0	7,032.1	13,338.8	6,997.7	123.1	125.7	-88.62	-6,284.4	644.4	1,595.7	1,348.2	247.57	6.446	
13,484.2	7,031.6	13,423.1	6,997.5	124.7	127.3	-88.63	-6,368.7	644.1	1,595.7	1,344.9	250.83	6.362	
13,500.0	7,031.5	13,438.8	6,997.4	125.0	127.6	-88.63	-6,384.4	644.1	1,595.7	1,344.3	251.44	6.346	
13,582.6	7,030.9	13,521.5	6,997.1	126.6	129.2	-88.64	-6,467.1	643.8	1,595.7	1,341.1	254.63	6.267	
13,600.0	7,030.8	13,538.8	6,997.1	126.9	129.6	-88.64	-6,484.4	643.7	1,595.7	1,340.4	255.30	6.250	
13,681.1	7,030.3	13,619.9	6,996.8	128.4	131.2	-88.65	-6,565.5	643.4	1,595.8	1,337.3	258.44	6.175	
13,700.0	7,030.2	13,638.8	6,996.7	128.8	131.5	-88.65	-6,584.4	643.3	1,595.8	1,336.6	259.17	6.157	
13,779.5	7,029.7	13,718.3	6,996.5	130.3	133.1	-88.66	-6,663.9	643.1	1,595.8	1,333.5	262.25	6.085	
13,800.0	7,029.6	13,738.8	6,996.4	130.7	133.5	-88.67	-6,684.4	643.0	1,595.8	1,332.7	263.04	6.067	
13,877.9	7,029.1	13,816.8	6,996.1	132.2	135.0	-88.67	-6,762.3	642.7	1,595.8	1,329.7	266.06	5.998	
13,900.0	7,029.0	13,838.8	6,996.1	132.6	135.5	-88.68	-6,784.4	642.6	1,595.8	1,328.9	266.91	5.979	
13,976.3	7,028.5	13,915.2	6,995.8	134.0	137.0	-88.68	-6,860.8	642.4	1,595.8	1,325.9	269.87	5.913	
14,000.0	7,028.3	13,938.8	6,995.7	134.5	137.4	-88.69	-6,884.4	642.3	1,595.8	1,325.0	270.78	5.893	
14,074.8	7,027.9	14,013.6	6,995.5	135.9	138.9	-88.69	-6,959.2	642.0	1,595.8	1,322.1	273.68	5.831	
14,100.0	7,027.7	14,038.8	6,995.4	136.4	139.4	-88.70	-6,984.4	641.9	1,595.8	1,321.1	274.65	5.810	
14,173.2	7,027.2	14,112.0	6,995.2	137.8	140.8	-88.70	-7,057.6	641.7	1,595.8	1,318.3	277.48	5.751	
14,200.0	7,027.1	14,138.8	6,995.1	138.3	141.3	-88.71	-7,084.4	641.6	1,595.8	1,317.3	278.50	5.730	
14,210.5	7,027.0	14,149.3	6,995.0	138.5	141.5	-88.71	-7,094.9	641.5	1,595.8	1,316.9	278.90	5.722 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	2.0	2.0	0.0	0.0	90.00	0.0	58.6	58.6				
98.4	98.4	100.4	100.4	0.1	0.1	90.00	0.0	58.6	58.6	58.4	0.19	302.433	
100.0	100.0	102.0	102.0	0.1	0.1	90.00	0.0	58.6	58.6	58.4	0.20	294.360	
196.8	196.8	198.8	198.8	0.3	0.3	90.00	0.0	58.6	58.6	57.9	0.63	92.314	
200.0	200.0	202.0	202.0	0.3	0.3	90.00	0.0	58.6	58.6	57.9	0.65	90.298	
295.3	295.3	297.3	297.3	0.5	0.5	90.00	0.0	58.6	58.6	57.5	1.08	54.380	
300.0	300.0	302.0	302.0	0.5	0.6	90.00	0.0	58.6	58.6	57.5	1.10	53.328	
393.7	393.7	395.7	395.7	0.8	0.8	90.00	0.0	58.6	58.6	57.0	1.52	38.543	
400.0	400.0	402.0	402.0	0.8	0.8	90.00	0.0	58.6	58.6	57.0	1.55	37.837	
492.1	492.1	494.1	494.1	1.0	1.0	90.00	0.0	58.6	58.6	56.6	1.96	29.849	
500.0	500.0	502.0	502.0	1.0	1.0	90.00	0.0	58.6	58.6	56.6	2.00	29.320	
590.5	590.5	592.5	592.5	1.2	1.2	90.00	0.0	58.6	58.6	56.1	2.40	24.356	
600.0	600.0	602.0	602.0	1.2	1.2	90.00	0.0	58.6	58.6	56.1	2.45	23.933	
689.0	689.0	691.0	691.0	1.4	1.4	90.00	0.0	58.6	58.6	55.7	2.85	20.570	
700.0	700.0	702.0	702.0	1.4	1.5	90.00	0.0	58.6	58.6	55.7	2.90	20.218	
787.4	787.4	789.4	789.4	1.6	1.6	90.00	0.0	58.6	58.6	55.3	3.29	17.803	
800.0	800.0	802.0	802.0	1.7	1.7	90.00	0.0	58.6	58.6	55.2	3.35	17.501	
885.8	885.8	887.8	887.8	1.9	1.9	90.00	0.0	58.6	58.6	54.8	3.73	15.692	
900.0	900.0	902.0	902.0	1.9	1.9	90.00	0.0	58.6	58.6	54.8	3.80	15.428	
984.2	984.2	986.2	986.2	2.1	2.1	90.00	0.0	58.6	58.6	54.4	4.17	14.028	
1,000.0	1,000.0	1,002.0	1,002.0	2.1	2.1	90.00	0.0	58.6	58.6	54.3	4.24	13.794	
1,082.7	1,082.7	1,084.7	1,084.7	2.3	2.3	90.00	0.0	58.6	58.6	53.9	4.62	12.684	
1,100.0	1,100.0	1,102.0	1,102.0	2.3	2.3	90.00	0.0	58.6	58.6	53.9	4.69	12.473 CC, ES	
1,181.1	1,181.1	1,183.1	1,183.1	2.5	2.5	164.46	0.0	58.6	59.7	54.6	5.05	11.814	
1,200.0	1,200.0	1,202.0	1,202.0	2.6	2.6	164.61	0.0	58.6	60.2	55.1	5.13	11.736	
1,279.5	1,279.4	1,281.4	1,281.4	2.7	2.8	165.51	0.0	58.6	64.0	58.5	5.47	11.692	
1,300.0	1,299.8	1,301.8	1,301.8	2.8	2.8	165.80	0.0	58.6	65.3	59.7	5.56	11.746	
1,377.9	1,377.5	1,379.7	1,379.7	2.9	3.0	166.17	1.1	58.5	71.5	65.6	5.89	12.137	
1,400.0	1,399.5	1,401.8	1,401.7	3.0	3.0	166.03	1.8	58.4	73.6	67.6	5.98	12.297	
1,476.4	1,475.3	1,477.9	1,477.7	3.2	3.2	164.92	5.5	58.1	81.9	75.6	6.30	12.992	
1,500.0	1,498.7	1,501.4	1,501.2	3.2	3.3	164.41	7.1	58.0	84.9	78.4	6.40	13.252	
1,574.8	1,572.6	1,575.5	1,575.1	3.4	3.4	162.46	13.2	57.6	95.4	88.6	6.72	14.187	
1,600.0	1,597.5	1,600.4	1,599.8	3.5	3.5	161.72	15.7	57.4	99.3	92.5	6.83	14.544	
1,673.2	1,669.4	1,672.4	1,671.4	3.7	3.6	159.43	24.1	56.7	112.1	104.9	7.15	15.662	
1,700.2	1,695.8	1,698.9	1,697.6	3.8	3.7	158.57	27.6	56.5	117.2	110.0	7.27	16.115	
1,771.6	1,765.7	1,768.6	1,766.5	4.1	3.9	156.23	38.1	55.7	131.4	123.7	7.64	17.203	
1,800.0	1,793.4	1,796.2	1,793.7	4.2	4.0	155.24	42.7	55.4	137.1	129.3	7.78	17.613	
1,870.1	1,862.0	1,864.2	1,860.5	4.4	4.2	152.68	55.2	54.4	151.4	143.2	8.17	18.531	
1,900.0	1,891.2	1,893.1	1,888.8	4.5	4.2	151.56	61.0	54.0	157.7	149.4	8.34	18.910	
1,968.5	1,958.3	1,959.6	1,953.9	4.8	4.5	149.11	74.8	53.0	172.3	163.6	8.75	19.695	
2,000.0	1,989.1	1,990.2	1,983.8	4.9	4.5	148.12	81.1	52.5	179.2	170.2	8.94	20.036	
2,066.9	2,054.5	2,055.2	2,047.4	5.2	4.8	146.24	94.6	51.5	193.8	184.5	9.36	20.702	
2,100.0	2,086.9	2,087.3	2,078.9	5.3	4.9	145.41	101.3	51.0	201.1	191.6	9.57	21.008	
2,165.3	2,150.8	2,150.8	2,141.0	5.6	5.1	143.94	114.4	50.0	215.7	205.7	10.00	21.563	
2,200.0	2,184.7	2,184.5	2,173.9	5.7	5.2	143.24	121.4	49.5	223.4	213.2	10.23	21.842	
2,263.8	2,247.1	2,246.5	2,234.5	6.0	5.4	142.06	134.3	48.5	237.8	227.1	10.66	22.312	
2,300.0	2,282.5	2,281.7	2,268.9	6.1	5.6	141.46	141.6	47.9	246.0	235.1	10.90	22.562	
2,362.2	2,343.3	2,342.1	2,328.1	6.4	5.8	140.51	154.1	47.0	260.1	248.8	11.33	22.959	
2,400.0	2,380.3	2,378.8	2,364.0	6.6	5.9	139.98	161.7	46.4	268.7	257.2	11.59	23.185	
2,460.6	2,439.6	2,437.7	2,421.6	6.8	6.2	139.20	173.9	45.5	282.6	270.6	12.01	23.521	
2,500.0	2,478.1	2,476.0	2,459.0	7.0	6.3	138.73	181.9	44.9	291.6	279.3	12.29	23.726	
2,559.0	2,535.9	2,533.4	2,515.1	7.2	6.5	138.08	193.8	44.0	305.2	292.5	12.71	24.012	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	2,573.2	2,554.1	7.4	6.7	137.66	202.0	43.4	314.6	301.6	13.00	24.199	
2,657.5	2,632.2	2,629.5	2,609.2	7.7	6.9	137.11	213.7	42.5	327.9	314.5	13.41	24.451	
2,700.0	2,673.8	2,672.8	2,651.6	7.8	7.1	136.80	222.2	41.9	337.5	323.8	13.70	24.635	
2,755.9	2,728.4	2,729.9	2,707.8	8.1	7.2	136.57	232.4	41.1	349.9	335.8	14.07	24.873	
2,800.0	2,771.6	2,775.1	2,752.4	8.3	7.4	136.52	239.7	40.6	359.3	345.0	14.34	25.056	
2,854.3	2,824.7	2,831.0	2,807.7	8.5	7.5	136.61	247.7	40.0	370.6	355.9	14.67	25.262	
2,900.0	2,869.4	2,878.0	2,854.4	8.7	7.7	136.80	253.6	39.6	379.7	364.8	14.94	25.420	
2,952.7	2,921.0	2,932.5	2,908.5	8.9	7.8	137.14	259.5	39.1	390.0	374.7	15.24	25.591	
3,000.0	2,967.2	2,981.3	2,957.1	9.2	7.9	137.55	264.0	38.8	398.9	383.4	15.50	25.734	
3,051.2	3,017.3	3,034.2	3,009.9	9.4	8.0	138.10	267.8	38.5	408.2	392.4	15.77	25.884	
3,100.0	3,065.0	3,084.6	3,060.3	9.6	8.1	138.72	270.6	38.3	416.8	400.8	16.02	26.021	
3,149.6	3,113.5	3,135.8	3,111.4	9.8	8.2	139.43	272.5	38.1	425.3	409.1	16.26	26.163	
3,200.0	3,162.8	3,187.8	3,163.3	10.0	8.3	140.25	273.5	38.1	433.7	417.2	16.49	26.305	
3,248.0	3,209.8	3,236.2	3,211.8	10.3	8.4	141.08	273.7	38.1	441.6	424.9	16.70	26.442	
3,300.0	3,260.6	3,287.1	3,262.6	10.5	8.5	141.93	273.7	38.1	450.1	433.2	16.93	26.592	
3,346.4	3,306.1	3,332.5	3,308.1	10.7	8.5	142.67	273.7	38.1	457.8	440.7	17.13	26.721	
3,400.0	3,358.4	3,384.9	3,360.4	10.9	8.6	143.50	273.7	38.1	466.8	449.4	17.37	26.871	
3,444.9	3,402.3	3,428.8	3,404.3	11.1	8.7	144.16	273.7	38.1	474.4	456.8	17.57	26.999	
3,500.0	3,456.3	3,482.7	3,458.3	11.4	8.8	144.95	273.7	38.1	483.8	466.0	17.81	27.158	
3,543.3	3,498.6	3,525.1	3,500.6	11.6	8.9	145.55	273.7	38.1	491.2	473.2	18.00	27.284	
3,600.0	3,554.1	3,580.5	3,556.1	11.8	9.0	146.31	273.7	38.1	501.1	482.8	18.25	27.450	
3,641.7	3,594.9	3,621.3	3,596.9	12.0	9.1	146.85	273.7	38.1	508.4	489.9	18.44	27.573	
3,700.0	3,651.9	3,678.3	3,653.9	12.3	9.2	147.58	273.7	38.1	518.6	499.9	18.69	27.745	
3,740.1	3,691.2	3,717.6	3,693.2	12.5	9.3	148.06	273.7	38.1	525.7	506.9	18.87	27.864	
3,800.0	3,749.7	3,776.1	3,751.7	12.7	9.4	148.76	273.7	38.1	536.4	517.3	19.13	28.041	
3,838.6	3,787.4	3,813.9	3,789.4	12.9	9.4	149.20	273.7	38.1	543.3	524.0	19.30	28.155	
3,900.0	3,847.5	3,874.0	3,849.5	13.2	9.5	149.87	273.7	38.1	554.4	534.8	19.56	28.336	
3,937.0	3,883.7	3,910.2	3,885.7	13.3	9.6	150.26	273.7	38.1	561.1	541.4	19.73	28.445	
4,000.0	3,945.3	3,971.8	3,947.3	13.6	9.7	150.91	273.7	38.1	572.6	552.6	20.00	28.628	
4,035.4	3,980.0	4,006.4	3,982.0	13.8	9.8	151.26	273.7	38.1	579.0	558.9	20.15	28.731	
4,100.0	4,043.1	4,069.6	4,045.1	14.1	9.9	151.88	273.7	38.1	590.9	570.5	20.44	28.916	
4,133.8	4,076.3	4,102.7	4,078.3	14.2	10.0	152.20	273.7	38.1	597.2	576.6	20.58	29.013	
4,200.0	4,141.0	4,167.4	4,143.0	14.5	10.1	152.80	273.7	38.1	609.4	588.5	20.87	29.199	
4,232.3	4,172.5	4,199.0	4,174.5	14.7	10.2	153.09	273.7	38.1	615.4	594.4	21.01	29.289	
4,300.0	4,238.8	4,265.2	4,240.8	15.0	10.3	153.66	273.7	38.1	628.1	606.8	21.31	29.477	
4,330.7	4,268.8	4,295.2	4,270.8	15.1	10.4	153.92	273.7	38.1	633.8	612.4	21.44	29.561	
4,400.0	4,336.6	4,363.0	4,338.6	15.4	10.5	154.48	273.7	38.1	646.8	625.1	21.74	29.748	
4,429.1	4,365.1	4,391.5	4,367.1	15.6	10.5	154.71	273.7	38.1	652.3	630.5	21.87	29.826	
4,500.0	4,434.4	4,460.8	4,436.4	15.9	10.7	155.25	273.7	38.1	665.8	643.6	22.18	30.014	
4,527.5	4,461.3	4,487.8	4,463.3	16.0	10.7	155.45	273.7	38.1	671.0	648.7	22.30	30.086	
4,600.0	4,532.2	4,558.7	4,534.2	16.4	10.9	155.97	273.7	38.1	684.8	662.1	22.62	30.272	
4,626.0	4,557.6	4,584.1	4,559.6	16.5	10.9	156.16	273.7	38.1	689.7	667.0	22.73	30.339	
4,700.0	4,630.0	4,656.5	4,632.0	16.8	11.1	156.66	273.7	38.1	703.9	680.8	23.06	30.524	
4,724.4	4,653.9	4,680.3	4,655.9	16.9	11.1	156.82	273.7	38.1	708.6	685.4	23.17	30.585	
4,800.0	4,727.8	4,754.3	4,729.8	17.3	11.3	157.31	273.7	38.1	723.1	699.6	23.50	30.770	
4,822.8	4,750.2	4,776.6	4,752.2	17.4	11.3	157.45	273.7	38.1	727.5	703.9	23.60	30.825	
4,900.0	4,825.6	4,852.1	4,827.6	17.7	11.5	157.93	273.7	38.1	742.4	718.4	23.94	31.008	
4,921.2	4,846.4	4,872.9	4,848.4	17.8	11.5	158.06	273.7	38.1	746.5	722.5	24.04	31.058	
5,000.0	4,923.5	4,949.9	4,925.5	18.2	11.7	158.51	273.7	38.1	761.7	737.4	24.38	31.240	
5,019.7	4,942.7	4,969.2	4,944.7	18.3	11.7	158.63	273.7	38.1	765.6	741.1	24.47	31.284	
5,100.0	5,021.3	5,047.7	5,023.3	18.6	11.9	159.07	273.7	38.1	781.2	756.4	24.83	31.464	
5,118.1	5,039.0	5,065.4	5,041.0	18.7	11.9	159.17	273.7	38.1	784.7	759.8	24.91	31.504	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	5,145.5	5,121.1	19.1	12.1	159.60	273.7	38.1	800.7	775.4	25.27	31.683	
5,216.5	5,135.3	5,161.7	5,137.3	19.2	12.1	159.69	273.7	38.1	803.9	778.6	25.35	31.718	
5,300.0	5,216.9	5,243.3	5,218.9	19.6	12.3	160.11	273.7	38.1	820.3	794.6	25.72	31.895	
5,314.9	5,231.5	5,258.0	5,233.5	19.6	12.3	160.18	273.7	38.1	823.2	797.4	25.79	31.926	
5,400.0	5,314.7	5,341.2	5,316.7	20.0	12.5	160.59	273.7	38.1	839.9	813.8	26.17	32.100	
5,413.4	5,327.8	5,354.2	5,329.8	20.1	12.5	160.65	273.7	38.1	842.5	816.3	26.23	32.127	
5,500.0	5,412.5	5,439.0	5,414.5	20.5	12.7	161.05	273.7	38.1	859.6	833.0	26.61	32.299	
5,511.8	5,424.1	5,450.5	5,426.1	20.5	12.7	161.10	273.7	38.1	861.9	835.3	26.67	32.322	
5,600.0	5,510.3	5,536.8	5,512.3	20.9	12.9	161.49	273.7	38.1	879.3	852.3	27.06	32.493	
5,610.2	5,520.3	5,546.8	5,522.3	21.0	12.9	161.53	273.7	38.1	881.4	854.3	27.11	32.512	
5,700.0	5,608.2	5,634.6	5,610.2	21.4	13.1	161.91	273.7	38.1	899.1	871.6	27.51	32.680	
5,708.6	5,616.6	5,643.1	5,618.6	21.4	13.1	161.94	273.7	38.1	900.9	873.3	27.55	32.696	
5,729.2	5,636.7	5,663.1	5,638.7	21.5	13.1	162.03	273.7	38.1	904.9	877.3	27.64	32.734	
5,800.0	5,706.1	5,732.6	5,708.1	21.8	13.3	162.37	273.7	38.1	918.2	890.2	28.00	32.797	
5,807.1	5,713.1	5,739.5	5,715.1	21.8	13.3	162.41	273.7	38.1	919.4	891.4	28.03	32.803	
5,900.0	5,804.7	5,831.2	5,806.7	22.1	13.5	162.78	273.7	38.1	934.1	905.6	28.45	32.837	
5,905.5	5,810.2	5,836.6	5,812.2	22.1	13.5	162.80	273.7	38.1	934.8	906.4	28.47	32.837	
6,000.0	5,903.9	5,930.3	5,905.9	22.3	13.7	163.09	273.7	38.1	946.7	917.8	28.87	32.795	
6,003.9	5,907.8	5,934.2	5,909.8	22.4	13.7	163.10	273.7	38.1	947.1	918.2	28.88	32.792	
6,100.0	6,003.4	6,029.8	6,005.4	22.6	13.9	163.31	273.7	38.1	956.0	926.8	29.26	32.675	
6,102.3	6,005.7	6,032.2	6,007.7	22.6	13.9	163.32	273.7	38.1	956.2	926.9	29.27	32.672	
6,200.0	6,103.2	6,129.6	6,105.2	22.7	14.1	163.45	273.7	38.1	962.0	932.4	29.62	32.481	
6,200.8	6,104.0	6,130.4	6,106.0	22.7	14.1	163.46	273.7	38.1	962.0	932.4	29.62	32.480	
6,299.2	6,202.3	6,228.8	6,204.3	22.9	14.3	163.52	273.7	38.1	964.7	934.7	29.94	32.218	
6,300.0	6,203.1	6,229.6	6,205.1	22.9	14.3	163.52	273.7	38.1	964.7	934.7	29.94	32.215	
6,329.4	6,232.5	6,258.9	6,234.5	22.9	14.4	89.35	273.7	38.1	964.8	934.8	30.05	32.103	
6,397.6	6,300.8	6,327.2	6,302.8	23.0	14.5	89.35	273.7	38.1	964.8	934.5	30.31	31.828	
6,400.0	6,303.1	6,329.6	6,305.1	23.0	14.5	89.35	273.7	38.1	964.8	934.5	30.32	31.818	
6,449.4	6,352.5	6,378.9	6,354.5	23.1	14.6	89.35	273.7	38.1	964.8	934.3	30.52	31.617	
6,496.0	6,399.2	6,425.6	6,401.2	23.1	14.7	-90.95	273.7	38.1	964.8	934.2	30.68	31.452	
6,500.0	6,403.1	6,429.5	6,405.1	23.1	14.7	-90.96	273.7	38.1	964.8	934.2	30.69	31.436	
6,550.0	6,452.8	6,480.5	6,456.0	23.1	14.8	-91.19	272.3	38.0	964.9	934.1	30.85	31.279	
6,594.5	6,496.6	6,526.3	6,501.6	23.2	14.9	-91.40	268.1	38.0	965.0	934.0	30.95	31.175	
6,600.0	6,502.0	6,532.0	6,507.2	23.2	14.9	-91.42	267.3	38.0	965.0	934.0	30.97	31.164	
6,650.0	6,550.5	6,583.7	6,558.2	23.2	14.9	-91.65	258.6	38.0	965.1	934.1	31.05	31.085	
6,692.9	6,591.4	6,628.3	6,601.6	23.2	14.9	-91.83	248.1	38.0	965.2	934.1	31.09	31.045	
6,700.0	6,598.0	6,635.7	6,608.7	23.2	14.9	-91.86	246.1	38.0	965.2	934.1	31.10	31.039	
6,750.0	6,644.4	6,688.0	6,658.4	23.2	14.9	-92.07	229.9	37.9	965.3	934.2	31.12	31.018	
6,791.3	6,681.6	6,731.5	6,698.7	23.2	14.9	-92.23	213.7	37.8	965.4	934.3	31.13	31.015	
6,800.0	6,689.3	6,740.6	6,707.1	23.2	14.9	-92.27	210.0	37.8	965.5	934.3	31.13	31.015	
6,850.0	6,732.6	6,793.4	6,754.4	23.2	14.9	-92.45	186.5	37.7	965.6	934.5	31.13	31.019	
6,889.7	6,765.7	6,835.6	6,790.8	23.2	14.9	-92.59	165.2	37.7	965.7	934.6	31.13	31.020	
6,900.0	6,774.0	6,846.5	6,800.0	23.2	14.9	-92.63	159.4	37.6	965.7	934.6	31.13	31.020	
6,950.0	6,813.3	6,899.9	6,843.7	23.2	14.9	-92.79	128.8	37.5	965.9	934.7	31.15	31.005	
6,988.2	6,841.9	6,940.7	6,875.6	23.2	14.9	-92.90	103.3	37.4	965.9	934.8	31.19	30.972	
7,000.0	6,850.5	6,953.4	6,885.2	23.2	14.9	-92.93	95.0	37.4	966.0	934.8	31.20	30.960	
7,050.0	6,885.2	7,007.2	6,924.1	23.2	15.0	-93.06	57.9	37.3	966.1	934.8	31.30	30.870	
7,086.6	6,908.9	7,046.6	6,950.9	23.2	15.0	-93.15	29.0	37.2	966.2	934.8	31.40	30.769	
7,100.0	6,917.3	7,061.1	6,960.3	23.2	15.1	-93.18	18.0	37.1	966.2	934.7	31.45	30.724	
7,150.0	6,946.6	7,115.2	6,993.5	23.2	15.2	-93.28	-24.7	37.0	966.3	934.6	31.67	30.510	
7,185.0	6,965.5	7,153.1	7,014.8	23.3	15.3	-93.34	-56.1	36.8	966.3	934.5	31.88	30.313	
7,200.0	6,973.1	7,169.4	7,023.4	23.3	15.3	-93.36	-69.9	36.8	966.4	934.4	31.98	30.219	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	7,223.7	7,049.9	23.3	15.5	-93.42	-117.3	36.6	966.4	934.1	32.38	29.849	
7,283.4	7,010.4	7,260.1	7,065.6	23.4	15.7	-93.46	-150.2	36.5	966.5	933.8	32.70	29.553	
7,300.0	7,016.8	7,278.1	7,072.8	23.4	15.8	-93.47	-166.7	36.4	966.5	933.6	32.88	29.397	
7,350.0	7,033.8	7,332.6	7,091.8	23.5	16.1	-93.50	-217.7	36.3	966.5	933.0	33.48	28.870	
7,381.9	7,043.0	7,367.3	7,101.9	23.6	16.3	-93.50	-250.9	36.1	966.5	932.6	33.92	28.494	
7,400.0	7,047.6	7,387.1	7,106.9	23.6	16.5	-93.51	-270.1	36.1	966.5	932.3	34.18	28.276	
7,450.0	7,057.9	7,441.6	7,118.0	23.8	16.9	-93.49	-323.4	35.9	966.5	931.5	34.98	27.626	
7,480.3	7,062.5	7,474.6	7,122.8	23.9	17.2	-93.48	-356.1	35.7	966.5	931.0	35.53	27.206	
7,500.0	7,064.8	7,496.0	7,125.0	24.0	17.4	-93.47	-377.4	35.7	966.5	930.6	35.88	26.935	
7,550.0	7,068.3	7,550.4	7,127.9	24.2	17.9	-93.42	-431.7	35.5	966.4	929.6	36.86	26.216	
7,576.0	7,068.7	7,577.4	7,128.0	24.4	18.1	-93.40	-458.7	35.4	966.4	929.0	37.40	25.843	
7,578.7	7,068.7	7,580.2	7,128.0	24.4	18.2	-93.40	-461.4	35.4	966.4	929.0	37.45	25.805	
7,578.9	7,068.7	7,580.3	7,128.0	24.4	18.2	-93.40	-461.6	35.4	966.4	929.0	37.45	25.803	
7,600.0	7,068.6	7,601.4	7,127.9	24.5	18.4	-93.40	-482.7	35.3	966.4	928.5	37.88	25.512	
7,677.1	7,068.1	7,678.6	7,127.7	25.1	19.3	-93.42	-559.8	35.0	966.4	926.9	39.49	24.474	
7,700.0	7,067.9	7,701.4	7,127.7	25.2	19.5	-93.43	-582.7	34.9	966.4	926.5	39.96	24.183	
7,775.6	7,067.4	7,777.0	7,127.5	25.9	20.3	-93.44	-658.3	34.6	966.5	924.9	41.58	23.243	
7,800.0	7,067.3	7,801.4	7,127.5	26.1	20.6	-93.45	-682.7	34.5	966.5	924.4	42.10	22.954	
7,874.0	7,066.8	7,875.4	7,127.3	26.8	21.4	-93.47	-756.7	34.3	966.5	922.6	43.91	22.013	
7,900.0	7,066.7	7,901.4	7,127.2	27.0	21.7	-93.47	-782.7	34.2	966.5	921.9	44.54	21.698	
7,972.4	7,066.2	7,973.9	7,127.1	27.8	22.7	-93.49	-855.1	33.9	966.5	920.0	46.54	20.766	
8,000.0	7,066.0	8,001.4	7,127.0	28.1	23.1	-93.50	-882.7	33.8	966.5	919.2	47.30	20.432	
8,070.8	7,065.6	8,072.3	7,126.8	28.9	24.2	-93.51	-953.5	33.6	966.5	917.2	49.36	19.581	
8,100.0	7,065.4	8,101.4	7,126.8	29.3	24.6	-93.52	-982.7	33.5	966.5	916.3	50.21	19.251	
8,169.3	7,065.0	8,170.7	7,126.6	30.2	25.7	-93.54	-1,052.0	33.2	966.6	914.3	52.30	18.482	
8,200.0	7,064.8	8,201.4	7,126.5	30.6	26.1	-93.55	-1,082.7	33.1	966.6	913.3	53.23	18.159	
8,267.7	7,064.4	8,269.1	7,126.4	31.5	27.2	-93.56	-1,150.4	32.8	966.6	911.2	55.34	17.467	
8,300.0	7,064.2	8,301.4	7,126.3	31.9	27.7	-93.57	-1,182.7	32.7	966.6	910.2	56.35	17.154	
8,366.1	7,063.7	8,367.6	7,126.2	32.8	28.8	-93.58	-1,248.8	32.5	966.6	908.1	58.46	16.534	
8,400.0	7,063.5	8,401.4	7,126.1	33.3	29.3	-93.59	-1,282.7	32.4	966.6	907.1	59.55	16.232	
8,464.5	7,063.1	8,466.0	7,125.9	34.2	30.4	-93.61	-1,347.2	32.1	966.6	905.0	61.66	15.677	
8,500.0	7,062.9	8,501.4	7,125.9	34.8	31.0	-93.62	-1,382.7	32.0	966.6	903.8	62.82	15.387	
8,563.0	7,062.5	8,564.4	7,125.7	35.7	32.0	-93.63	-1,445.6	31.8	966.7	901.7	64.92	14.890	
8,600.0	7,062.3	8,601.4	7,125.6	36.3	32.7	-93.64	-1,482.7	31.6	966.7	900.5	66.15	14.612	
8,661.4	7,061.9	8,662.8	7,125.5	37.2	33.7	-93.65	-1,544.1	31.4	966.7	898.5	68.23	14.168	
8,700.0	7,061.6	8,701.4	7,125.4	37.8	34.4	-93.66	-1,582.7	31.3	966.7	897.2	69.54	13.902	
8,759.8	7,061.3	8,761.3	7,125.3	38.8	35.4	-93.68	-1,642.5	31.0	966.7	895.1	71.59	13.504	
8,800.0	7,061.0	8,801.4	7,125.2	39.4	36.1	-93.69	-1,682.7	30.9	966.7	893.8	72.97	13.249	
8,858.2	7,060.6	8,859.7	7,125.1	40.3	37.1	-93.70	-1,740.9	30.7	966.7	891.8	74.99	12.892	
8,900.0	7,060.4	8,901.4	7,125.0	41.0	37.9	-93.71	-1,782.7	30.5	966.8	890.3	76.43	12.648	
8,956.7	7,060.0	8,958.1	7,124.8	41.9	38.9	-93.72	-1,839.3	30.3	966.8	888.4	78.42	12.329	
9,000.0	7,059.8	9,001.4	7,124.7	42.6	39.6	-93.74	-1,882.7	30.2	966.8	886.8	79.93	12.095	
9,055.1	7,059.4	9,056.5	7,124.6	43.6	40.6	-93.75	-1,937.8	30.0	966.8	884.9	81.88	11.808	
9,100.0	7,059.1	9,101.4	7,124.5	44.3	41.4	-93.76	-1,982.7	29.8	966.8	883.3	83.46	11.584	
9,153.5	7,058.8	9,154.9	7,124.4	45.2	42.4	-93.77	-2,036.2	29.6	966.8	881.5	85.36	11.326	
9,200.0	7,058.5	9,201.4	7,124.3	46.0	43.2	-93.78	-2,082.7	29.4	966.8	879.8	87.01	11.111	
9,251.9	7,058.2	9,253.4	7,124.2	46.9	44.1	-93.80	-2,134.6	29.2	966.9	878.0	88.87	10.879	
9,300.0	7,057.9	9,301.4	7,124.1	47.7	45.0	-93.81	-2,182.7	29.1	966.9	876.3	90.59	10.673	
9,350.4	7,057.6	9,351.8	7,123.9	48.6	45.9	-93.82	-2,233.0	28.9	966.9	874.5	92.40	10.464	
9,400.0	7,057.2	9,401.4	7,123.8	49.4	46.8	-93.83	-2,282.6	28.7	966.9	872.7	94.19	10.266	
9,448.8	7,056.9	9,450.2	7,123.7	50.3	47.7	-93.84	-2,331.4	28.5	966.9	871.0	95.95	10.077	
9,500.0	7,056.6	9,501.4	7,123.6	51.1	48.6	-93.85	-2,382.6	28.3	966.9	869.1	97.80	9.887	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,547.2	7,056.3	9,548.6	7,123.5	52.0	49.5	-93.87	-2,429.9	28.2	966.9	867.4	99.52	9.717	
9,600.0	7,056.0	9,601.4	7,123.4	52.9	50.4	-93.88	-2,482.6	28.0	967.0	865.5	101.43	9.533	
9,645.6	7,055.7	9,647.1	7,123.3	53.7	51.3	-93.89	-2,528.3	27.8	967.0	863.9	103.09	9.379	
9,700.0	7,055.4	9,701.4	7,123.2	54.6	52.3	-93.90	-2,582.6	27.6	967.0	861.9	105.07	9.203	
9,744.1	7,055.1	9,745.5	7,123.1	55.4	53.1	-93.91	-2,626.7	27.4	967.0	860.3	106.69	9.064	
9,800.0	7,054.7	9,801.4	7,122.9	56.4	54.1	-93.93	-2,682.6	27.2	967.0	858.3	108.73	8.894	
9,842.5	7,054.5	9,843.9	7,122.8	57.2	54.9	-93.94	-2,725.1	27.1	967.0	856.7	110.29	8.768	
9,900.0	7,054.1	9,901.4	7,122.7	58.2	56.0	-93.95	-2,782.6	26.9	967.1	854.7	112.40	8.604	
9,940.9	7,053.8	9,942.3	7,122.6	58.9	56.7	-93.96	-2,823.6	26.7	967.1	853.2	113.90	8.490	
10,000.0	7,053.5	10,001.4	7,122.5	60.0	57.8	-93.97	-2,882.6	26.5	967.1	851.0	116.08	8.331	
10,039.3	7,053.2	10,040.8	7,122.4	60.7	58.5	-93.98	-2,922.0	26.4	967.1	849.6	117.53	8.229	
10,100.0	7,052.8	10,101.4	7,122.3	61.8	59.7	-94.00	-2,982.6	26.1	967.1	847.3	119.76	8.075	
10,137.8	7,052.6	10,139.2	7,122.2	62.4	60.4	-94.01	-3,020.4	26.0	967.1	846.0	121.16	7.982	
10,200.0	7,052.2	10,201.4	7,122.0	63.6	61.5	-94.02	-3,082.6	25.8	967.1	843.7	123.46	7.834	
10,236.2	7,052.0	10,237.6	7,121.9	64.2	62.2	-94.03	-3,118.8	25.6	967.2	842.4	124.80	7.750	
10,300.0	7,051.6	10,301.4	7,121.8	65.4	63.4	-94.04	-3,182.6	25.4	967.2	840.0	127.16	7.606	
10,334.6	7,051.4	10,336.0	7,121.7	66.0	64.0	-94.05	-3,217.3	25.3	967.2	838.7	128.45	7.530	
10,400.0	7,051.0	10,401.4	7,121.6	67.2	65.2	-94.07	-3,282.6	25.0	967.2	836.3	130.87	7.390	
10,433.0	7,050.7	10,434.5	7,121.5	67.8	65.9	-94.08	-3,315.7	24.9	967.2	835.1	132.10	7.322	
10,500.0	7,050.3	10,501.4	7,121.3	69.0	67.1	-94.09	-3,382.6	24.7	967.2	832.7	134.59	7.187	
10,531.5	7,050.1	10,532.9	7,121.3	69.6	67.7	-94.10	-3,414.1	24.6	967.3	831.5	135.76	7.125	
10,600.0	7,049.7	10,601.4	7,121.1	70.8	69.0	-94.12	-3,482.6	24.3	967.3	829.0	138.31	6.993	
10,629.9	7,049.5	10,631.3	7,121.1	71.4	69.5	-94.12	-3,512.5	24.2	967.3	827.9	139.43	6.938	
10,700.0	7,049.1	10,701.4	7,120.9	72.7	70.8	-94.14	-3,582.6	24.0	967.3	825.3	142.04	6.810	
10,728.3	7,048.9	10,729.7	7,120.8	73.2	71.4	-94.15	-3,610.9	23.8	967.3	824.2	143.10	6.760	
10,800.0	7,048.4	10,801.4	7,120.7	74.5	72.7	-94.16	-3,682.6	23.6	967.3	821.6	145.77	6.636	
10,826.7	7,048.3	10,828.1	7,120.6	75.0	73.2	-94.17	-3,709.4	23.5	967.4	820.6	146.77	6.591	
10,900.0	7,047.8	10,901.4	7,120.4	76.3	74.6	-94.19	-3,782.6	23.2	967.4	817.9	149.51	6.470	
10,925.2	7,047.7	10,926.6	7,120.4	76.8	75.1	-94.19	-3,807.8	23.1	967.4	816.9	150.45	6.430	
11,000.0	7,047.2	11,001.4	7,120.2	78.2	76.5	-94.21	-3,882.6	22.9	967.4	814.2	153.25	6.312	
11,023.6	7,047.0	11,025.0	7,120.2	78.6	76.9	-94.22	-3,906.2	22.8	967.4	813.3	154.14	6.276	
11,100.0	7,046.6	11,101.4	7,120.0	80.0	78.4	-94.23	-3,982.6	22.5	967.4	810.4	157.00	6.162	
11,122.0	7,046.4	11,123.4	7,119.9	80.4	78.8	-94.24	-4,004.6	22.4	967.5	809.6	157.83	6.130	
11,200.0	7,045.9	11,201.4	7,119.8	81.9	80.2	-94.26	-4,082.6	22.1	967.5	806.7	160.75	6.019	
11,220.4	7,045.8	11,221.8	7,119.7	82.3	80.6	-94.26	-4,103.1	22.1	967.5	806.0	161.52	5.990	
11,300.0	7,045.3	11,301.4	7,119.5	83.7	82.1	-94.28	-4,182.6	21.8	967.5	803.0	164.50	5.881	
11,318.9	7,045.2	11,320.3	7,119.5	84.1	82.5	-94.29	-4,201.5	21.7	967.5	802.3	165.21	5.856	
11,400.0	7,044.7	11,401.4	7,119.3	85.6	84.0	-94.31	-4,282.6	21.4	967.6	799.3	168.26	5.750	
11,417.3	7,044.6	11,418.7	7,119.3	85.9	84.3	-94.31	-4,299.9	21.3	967.6	798.7	168.91	5.728	
11,500.0	7,044.0	11,501.4	7,119.1	87.5	85.9	-94.33	-4,382.6	21.0	967.6	795.6	172.02	5.625	
11,515.7	7,043.9	11,517.1	7,119.1	87.7	86.2	-94.33	-4,398.3	21.0	967.6	795.0	172.61	5.606	
11,600.0	7,043.4	11,601.4	7,118.9	89.3	87.8	-94.35	-4,482.6	20.7	967.6	791.9	175.78	5.505	
11,614.1	7,043.3	11,615.5	7,118.8	89.6	88.1	-94.36	-4,496.7	20.6	967.6	791.3	176.31	5.488	
11,700.0	7,042.8	11,701.4	7,118.6	91.2	89.7	-94.38	-4,582.6	20.3	967.7	788.1	179.54	5.390	
11,712.6	7,042.7	11,714.0	7,118.6	91.4	89.9	-94.38	-4,595.2	20.3	967.7	787.7	180.02	5.375	
11,800.0	7,042.2	11,801.4	7,118.4	93.0	91.6	-94.40	-4,682.6	19.9	967.7	784.4	183.31	5.279	
11,811.0	7,042.1	11,812.4	7,118.4	93.2	91.8	-94.40	-4,693.6	19.9	967.7	784.0	183.72	5.267	
11,900.0	7,041.5	11,901.4	7,118.2	94.9	93.5	-94.43	-4,782.6	19.6	967.7	780.7	187.08	5.173	
11,909.4	7,041.5	11,910.8	7,118.2	95.1	93.7	-94.43	-4,792.0	19.5	967.7	780.3	187.43	5.163	
12,000.0	7,040.9	12,001.4	7,118.0	96.8	95.4	-94.45	-4,882.6	19.2	967.8	776.9	190.85	5.071	
12,007.8	7,040.8	12,009.2	7,118.0	96.9	95.5	-94.45	-4,890.4	19.2	967.8	776.6	191.15	5.063	
12,100.0	7,040.3	12,101.4	7,117.7	98.7	97.3	-94.47	-4,982.6	18.9	967.8	773.2	194.62	4.973	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,040.2	12,107.7	7,117.7	98.8	97.4	-94.47	-4,988.9	18.8	967.8	773.0	194.86	4.967	
12,200.0	7,039.6	12,201.4	7,117.5	100.5	99.2	-94.50	-5,082.6	18.5	967.9	769.5	198.40	4.878	
12,204.7	7,039.6	12,206.1	7,117.5	100.6	99.2	-94.50	-5,087.3	18.5	967.9	769.3	198.57	4.874	
12,300.0	7,039.0	12,301.4	7,117.3	102.4	101.1	-94.52	-5,182.6	18.1	967.9	765.7	202.17	4.787	
12,303.1	7,039.0	12,304.5	7,117.3	102.5	101.1	-94.52	-5,185.7	18.1	967.9	765.6	202.29	4.785	
12,400.0	7,038.4	12,401.4	7,117.1	104.3	103.0	-94.54	-5,282.6	17.8	967.9	762.0	205.95	4.700	
12,401.5	7,038.4	12,402.9	7,117.1	104.3	103.0	-94.54	-5,284.1	17.8	967.9	761.9	206.01	4.699	
12,500.0	7,037.8	12,501.4	7,116.8	106.2	104.9	-94.57	-5,382.6	17.4	968.0	758.2	209.73	4.615	
12,598.4	7,037.1	12,599.8	7,116.6	108.0	106.7	-94.59	-5,481.0	17.0	968.0	754.6	213.45	4.535	
12,600.0	7,037.1	12,601.4	7,116.6	108.0	106.8	-94.59	-5,482.6	17.0	968.0	754.5	213.51	4.534	
12,696.8	7,036.5	12,698.2	7,116.4	109.9	108.6	-94.62	-5,579.4	16.7	968.1	750.9	217.17	4.458	
12,700.0	7,036.5	12,701.4	7,116.4	109.9	108.7	-94.62	-5,582.6	16.7	968.1	750.8	217.29	4.455	
12,795.2	7,035.9	12,796.6	7,116.2	111.7	110.5	-94.64	-5,677.8	16.3	968.1	747.2	220.89	4.383	
12,800.0	7,035.9	12,801.4	7,116.2	111.8	110.6	-94.64	-5,682.6	16.3	968.1	747.0	221.07	4.379	
12,893.7	7,035.3	12,895.0	7,116.0	113.6	112.3	-94.66	-5,776.2	16.0	968.1	743.5	224.62	4.310	
12,900.0	7,035.2	12,901.4	7,116.0	113.7	112.5	-94.66	-5,782.6	15.9	968.1	743.3	224.86	4.306	
12,992.1	7,034.7	12,993.5	7,115.7	115.4	114.2	-94.69	-5,874.7	15.6	968.2	739.8	228.34	4.240	
13,000.0	7,034.6	13,001.4	7,115.7	115.6	114.4	-94.69	-5,882.6	15.6	968.2	739.5	228.64	4.234	
13,090.5	7,034.0	13,091.9	7,115.5	117.3	116.1	-94.71	-5,973.1	15.3	968.2	736.1	232.07	4.172	
13,100.0	7,034.0	13,101.4	7,115.5	117.5	116.3	-94.71	-5,982.6	15.2	968.2	735.8	232.43	4.166	
13,188.9	7,033.4	13,190.3	7,115.3	119.1	118.0	-94.73	-6,071.5	14.9	968.3	732.5	235.80	4.106	
13,200.0	7,033.4	13,201.4	7,115.3	119.3	118.2	-94.73	-6,082.6	14.9	968.3	732.0	236.21	4.099	
13,287.4	7,032.8	13,288.7	7,115.1	121.0	119.8	-94.76	-6,169.9	14.5	968.3	728.8	239.52	4.043	
13,300.0	7,032.7	13,301.4	7,115.1	121.2	120.1	-94.76	-6,182.6	14.5	968.3	728.3	240.00	4.035	
13,385.8	7,032.2	13,387.2	7,114.9	122.9	121.7	-94.78	-6,268.4	14.2	968.3	725.1	243.25	3.981	
13,400.0	7,032.1	13,401.4	7,114.8	123.1	122.0	-94.78	-6,282.6	14.1	968.3	724.6	243.79	3.972	
13,484.2	7,031.6	13,485.6	7,114.6	124.7	123.6	-94.80	-6,366.8	13.8	968.4	721.4	246.98	3.921	
13,500.0	7,031.5	13,501.4	7,114.6	125.0	123.9	-94.81	-6,382.6	13.8	968.4	720.8	247.58	3.911	
13,582.6	7,030.9	13,584.0	7,114.4	126.6	125.5	-94.83	-6,465.2	13.5	968.4	717.7	250.71	3.863	
13,600.0	7,030.8	13,601.4	7,114.4	126.9	125.8	-94.83	-6,482.6	13.4	968.4	717.1	251.37	3.853	
13,681.1	7,030.3	13,682.4	7,114.2	128.4	127.3	-94.85	-6,563.6	13.1	968.5	714.0	254.44	3.806	
13,700.0	7,030.2	13,701.4	7,114.2	128.8	127.7	-94.85	-6,582.6	13.0	968.5	713.3	255.16	3.796	
13,779.5	7,029.7	13,780.9	7,114.0	130.3	129.2	-94.87	-6,662.1	12.7	968.5	710.3	258.17	3.751	
13,800.0	7,029.6	13,801.4	7,113.9	130.7	129.6	-94.88	-6,682.5	12.7	968.5	709.6	258.95	3.740	
13,877.9	7,029.1	13,879.3	7,113.8	132.2	131.1	-94.90	-6,760.5	12.4	968.6	706.6	261.91	3.698	
13,900.0	7,029.0	13,901.4	7,113.7	132.6	131.5	-94.90	-6,782.5	12.3	968.6	705.8	262.74	3.686	
13,976.3	7,028.5	13,977.7	7,113.5	134.0	133.0	-94.92	-6,858.9	12.0	968.6	703.0	265.64	3.646	
14,000.0	7,028.3	14,001.4	7,113.5	134.5	133.4	-94.93	-6,882.5	11.9	968.6	702.1	266.54	3.634	
14,074.8	7,027.9	14,076.1	7,113.3	135.9	134.8	-94.94	-6,957.3	11.7	968.6	699.3	269.37	3.596	
14,100.0	7,027.7	14,101.4	7,113.3	136.4	135.3	-94.95	-6,982.5	11.6	968.7	698.3	270.33	3.583	
14,173.2	7,027.2	14,174.6	7,113.1	137.8	136.7	-94.97	-7,055.7	11.3	968.7	695.6	273.11	3.547	
14,200.0	7,027.1	14,201.4	7,113.0	138.3	137.2	-94.97	-7,082.5	11.2	968.7	694.6	274.12	3.534	
14,210.5	7,027.0	14,211.9	7,113.0	138.5	137.4	-94.98	-7,093.1	11.2	968.7	694.2	274.52	3.529 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	5.0	5.0	0.0	0.0	90.00	0.0	147.8	147.8					
98.4	98.4	103.4	103.4	0.1	0.1	90.00	0.0	147.8	147.8	147.6	0.20	737.595		
100.0	100.0	105.0	105.0	0.1	0.1	90.00	0.0	147.8	147.8	147.6	0.21	718.551		
196.8	196.8	201.8	201.8	0.3	0.3	90.00	0.0	147.8	147.8	147.1	0.64	230.531		
200.0	200.0	205.0	205.0	0.3	0.3	90.00	0.0	147.8	147.8	147.1	0.66	225.549		
295.3	295.3	300.3	300.3	0.5	0.5	90.00	0.0	147.8	147.8	146.7	1.08	136.391		
300.0	300.0	305.0	305.0	0.5	0.6	90.00	0.0	147.8	147.8	146.7	1.10	133.769		
393.7	393.7	398.7	398.7	0.8	0.8	90.00	0.0	147.8	147.8	146.3	1.53	96.844		
400.0	400.0	405.0	405.0	0.8	0.8	90.00	0.0	147.8	147.8	146.2	1.55	95.080		
492.1	492.1	497.1	497.1	1.0	1.0	90.00	0.0	147.8	147.8	145.8	1.97	75.076		
500.0	500.0	505.0	505.0	1.0	1.0	90.00	0.0	147.8	147.8	145.8	2.00	73.749		
590.5	590.5	595.5	595.5	1.2	1.2	90.00	0.0	147.8	147.8	145.4	2.41	61.297		
600.0	600.0	605.0	605.0	1.2	1.2	90.00	0.0	147.8	147.8	145.3	2.45	60.236		
689.0	689.0	694.0	694.0	1.4	1.4	90.00	0.0	147.8	147.8	144.9	2.85	51.792		
700.0	700.0	705.0	705.0	1.4	1.5	90.00	0.0	147.8	147.8	144.9	2.90	50.908		
787.4	787.4	792.4	792.4	1.6	1.7	90.00	0.0	147.8	147.8	144.5	3.30	44.839		
800.0	800.0	805.0	805.0	1.7	1.7	90.00	0.0	147.8	147.8	144.4	3.35	44.081		
885.8	885.8	890.8	890.8	1.9	1.9	90.00	0.0	147.8	147.8	144.0	3.74	39.532		
900.0	900.0	905.0	905.0	1.9	1.9	90.00	0.0	147.8	147.8	144.0	3.80	38.869		
984.2	984.2	989.2	989.2	2.1	2.1	90.00	0.0	147.8	147.8	143.6	4.18	35.348		
987.3	987.3	992.3	992.3	2.1	2.1	90.00	0.0	147.8	147.8	143.6	4.19	35.232 CC		
1,000.0	1,000.0	1,004.8	1,004.8	2.1	2.1	90.00	0.0	147.8	147.8	143.5	4.25	34.768 ES		
1,082.7	1,082.7	1,083.6	1,083.6	2.3	2.3	89.84	0.4	148.9	149.0	144.4	4.61	32.338		
1,100.0	1,100.0	1,100.0	1,100.0	2.3	2.3	89.77	0.6	149.4	149.5	144.8	4.68	31.936		
1,181.1	1,181.1	1,177.2	1,177.1	2.5	2.5	163.55	1.9	152.9	154.3	149.3	5.02	30.741		
1,200.0	1,200.0	1,195.1	1,195.0	2.6	2.5	163.46	2.3	154.0	156.0	150.9	5.10	30.606		
1,279.5	1,279.4	1,270.0	1,269.6	2.7	2.7	163.07	4.3	159.7	165.8	160.4	5.43	30.564		
1,300.0	1,299.8	1,289.2	1,288.7	2.8	2.8	162.97	5.0	161.5	169.0	163.5	5.51	30.677		
1,377.9	1,377.5	1,361.6	1,360.6	2.9	2.9	162.60	7.8	169.2	183.5	177.7	5.83	31.472		
1,400.0	1,399.5	1,381.8	1,380.7	3.0	3.0	162.50	8.7	171.7	188.3	182.4	5.92	31.804		
1,476.4	1,475.3	1,451.3	1,449.4	3.2	3.2	162.18	12.1	181.1	207.3	201.0	6.24	33.234		
1,500.0	1,498.7	1,472.5	1,470.3	3.2	3.2	162.08	13.3	184.3	213.8	207.5	6.33	33.768		
1,574.8	1,572.6	1,538.7	1,535.5	3.4	3.4	161.80	17.2	195.3	236.9	230.2	6.64	35.674		
1,600.0	1,597.5	1,560.7	1,557.1	3.5	3.5	161.71	18.6	199.2	245.4	238.6	6.74	36.395		
1,673.2	1,669.4	1,625.5	1,620.6	3.7	3.7	161.47	23.1	211.6	272.1	265.1	7.04	38.624		
1,700.2	1,695.8	1,650.4	1,644.9	3.8	3.8	161.40	24.9	216.5	282.5	275.3	7.16	39.469		
1,771.6	1,765.7	1,716.3	1,709.4	4.1	4.0	161.43	29.6	229.4	310.2	302.7	7.48	41.494		
1,800.0	1,793.4	1,742.4	1,734.9	4.2	4.1	161.44	31.4	234.5	321.2	313.6	7.60	42.255		
1,870.1	1,862.0	1,807.0	1,798.1	4.4	4.4	161.47	36.0	247.1	348.4	340.4	7.92	43.998		
1,900.0	1,891.2	1,834.6	1,825.1	4.5	4.5	161.48	38.0	252.5	360.0	351.9	8.05	44.710		
1,968.5	1,958.3	1,897.7	1,886.8	4.8	4.7	161.50	42.4	264.8	386.6	378.2	8.37	46.178		
2,000.0	1,989.1	1,926.7	1,915.2	4.9	4.8	161.50	44.5	270.5	398.8	390.3	8.52	46.812		
2,066.9	2,054.5	1,988.4	1,975.5	5.2	5.1	161.52	48.9	282.6	424.7	415.9	8.83	48.090		
2,100.0	2,086.9	2,018.9	2,005.4	5.3	5.2	161.53	51.0	288.5	437.6	428.6	8.99	48.679		
2,165.3	2,150.8	2,079.1	2,064.3	5.6	5.4	161.54	55.3	300.3	462.9	453.6	9.30	49.772		
2,200.0	2,184.7	2,111.1	2,095.5	5.7	5.6	161.54	57.5	306.5	476.4	466.9	9.47	50.319		
2,263.8	2,247.1	2,169.8	2,153.0	6.0	5.8	161.55	61.7	318.0	501.1	491.3	9.78	51.261		
2,300.0	2,282.5	2,203.2	2,185.7	6.1	5.9	161.56	64.1	324.6	515.2	505.2	9.95	51.769		
2,362.2	2,343.3	2,260.6	2,241.7	6.4	6.2	161.57	68.1	335.8	539.3	529.0	10.26	52.585		
2,400.0	2,380.3	2,295.4	2,275.8	6.6	6.3	161.57	70.6	342.6	554.0	543.5	10.44	53.057		
2,460.6	2,439.6	2,351.3	2,330.5	6.8	6.6	161.58	74.6	353.5	577.5	566.8	10.74	53.767		
2,500.0	2,478.1	2,387.6	2,366.0	7.0	6.7	161.58	77.1	360.6	592.8	581.8	10.94	54.207		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,442.0	2,419.2	7.2	6.9	161.59	81.0	371.2	615.7	604.5	11.23	54.828	
2,600.0	2,575.9	2,479.7	2,456.1	7.4	7.1	161.59	83.7	378.6	631.6	620.1	11.43	55.238	
2,657.5	2,632.2	2,532.7	2,507.9	7.7	7.3	161.60	87.4	389.0	653.9	642.2	11.72	55.783	
2,700.0	2,673.8	2,571.9	2,546.3	7.8	7.5	161.60	90.2	396.6	670.4	658.4	11.94	56.168	
2,755.9	2,728.4	2,623.4	2,596.7	8.1	7.7	161.61	93.8	406.7	692.1	679.8	12.22	56.647	
2,800.0	2,771.6	2,664.1	2,636.4	8.3	7.9	161.61	96.7	414.6	709.2	696.7	12.44	57.008	
2,854.3	2,824.7	2,714.1	2,685.4	8.5	8.1	161.62	100.3	424.4	730.2	717.5	12.72	57.431	
2,900.0	2,869.4	2,756.2	2,726.6	8.7	8.3	161.62	103.3	432.7	748.0	735.0	12.95	57.771	
2,952.7	2,921.0	2,804.8	2,774.1	8.9	8.5	161.62	106.7	442.2	768.4	755.2	13.22	58.146	
3,000.0	2,967.2	2,848.4	2,816.7	9.2	8.7	161.63	109.8	450.7	786.8	773.3	13.46	58.466	
3,051.2	3,017.3	2,895.6	2,862.9	9.4	8.9	161.63	113.1	459.9	806.6	792.9	13.72	58.798	
3,100.0	3,065.0	2,940.6	2,906.9	9.6	9.1	161.63	116.3	468.7	825.6	811.6	13.97	59.101	
3,149.6	3,113.5	2,986.3	2,951.6	9.8	9.3	161.63	119.6	477.6	844.8	830.6	14.22	59.396	
3,200.0	3,162.8	3,032.7	2,997.0	10.0	9.5	161.64	122.8	486.7	864.4	849.9	14.48	59.683	
3,248.0	3,209.8	3,077.0	3,040.3	10.3	9.7	161.64	126.0	495.4	883.0	868.3	14.73	59.945	
3,300.0	3,260.6	3,124.9	3,087.2	10.5	9.9	161.64	129.4	504.7	903.2	888.2	15.00	60.218	
3,346.4	3,306.1	3,167.7	3,129.1	10.7	10.1	161.64	132.4	513.1	921.2	906.0	15.24	60.452	
3,400.0	3,358.4	3,217.1	3,177.3	10.9	10.3	161.65	135.9	522.7	942.0	926.5	15.52	60.711	
3,444.9	3,402.3	3,258.4	3,217.8	11.1	10.5	161.65	138.8	530.8	959.4	943.6	15.75	60.920	
3,500.0	3,456.3	3,309.2	3,267.5	11.4	10.7	161.65	142.4	540.8	980.8	964.7	16.03	61.167	
3,543.3	3,498.6	3,349.1	3,306.5	11.6	10.9	161.65	145.3	548.6	997.6	981.3	16.26	61.354	
3,600.0	3,554.1	3,401.4	3,357.6	11.8	11.2	161.65	149.0	558.8	1,019.6	1,003.0	16.55	61.590	
3,641.7	3,594.9	3,439.8	3,395.3	12.0	11.3	161.66	151.7	566.3	1,035.8	1,019.0	16.77	61.757	
3,700.0	3,651.9	3,493.6	3,447.8	12.3	11.6	161.66	155.5	576.8	1,058.4	1,041.3	17.08	61.982	
3,740.1	3,691.2	3,530.6	3,484.0	12.5	11.7	161.66	158.1	584.0	1,073.9	1,056.7	17.29	62.132	
3,800.0	3,749.7	3,585.7	3,537.9	12.7	12.0	161.66	162.0	594.8	1,097.2	1,079.6	17.60	62.347	
3,838.6	3,787.4	3,621.3	3,572.7	12.9	12.1	161.66	164.5	601.8	1,112.1	1,094.3	17.80	62.481	
3,900.0	3,847.5	3,677.9	3,628.1	13.2	12.4	161.66	168.6	612.8	1,136.0	1,117.9	18.12	62.688	
3,937.0	3,883.7	3,712.0	3,661.5	13.3	12.5	161.67	171.0	619.5	1,150.3	1,132.0	18.31	62.808	
4,000.0	3,945.3	3,770.1	3,718.2	13.6	12.8	161.67	175.1	630.9	1,174.8	1,156.1	18.65	63.006	
4,035.4	3,980.0	3,802.7	3,750.2	13.8	13.0	161.67	177.4	637.2	1,188.5	1,169.7	18.83	63.114	
4,100.0	4,043.1	3,862.2	3,808.4	14.1	13.2	161.67	181.6	648.9	1,213.6	1,194.4	19.17	63.304	
4,133.8	4,076.3	3,893.4	3,838.9	14.2	13.4	161.67	183.8	655.0	1,226.7	1,207.4	19.35	63.400	
4,200.0	4,141.0	3,954.4	3,898.5	14.5	13.6	161.67	188.1	666.9	1,252.4	1,232.7	19.70	63.583	
4,232.3	4,172.5	3,984.1	3,927.6	14.7	13.8	161.67	190.2	672.7	1,264.9	1,245.0	19.87	63.670	
4,300.0	4,238.8	4,046.5	3,988.7	15.0	14.0	161.68	194.7	684.9	1,291.2	1,270.9	20.22	63.846	
4,330.7	4,268.8	4,074.8	4,016.4	15.1	14.2	161.68	196.7	690.4	1,303.1	1,282.7	20.39	63.923	
4,400.0	4,336.6	4,138.7	4,078.9	15.4	14.5	161.68	201.2	702.9	1,330.0	1,309.2	20.75	64.092	
4,429.1	4,365.1	4,165.6	4,105.1	15.6	14.6	161.68	203.1	708.2	1,341.3	1,320.4	20.90	64.161	
4,500.0	4,434.4	4,230.9	4,169.0	15.9	14.9	161.68	207.7	720.9	1,368.8	1,347.5	21.28	64.325	
4,527.5	4,461.3	4,256.3	4,193.8	16.0	15.0	161.68	209.5	725.9	1,379.5	1,358.0	21.42	64.387	
4,600.0	4,532.2	4,323.0	4,259.2	16.4	15.3	161.68	214.3	739.0	1,407.6	1,385.8	21.81	64.544	
4,626.0	4,557.6	4,347.0	4,282.6	16.5	15.4	161.68	216.0	743.6	1,417.6	1,395.7	21.95	64.599	
4,700.0	4,630.0	4,415.2	4,349.3	16.8	15.7	161.68	220.8	757.0	1,446.4	1,424.0	22.34	64.752	
4,724.4	4,653.9	4,437.7	4,371.3	16.9	15.8	161.68	222.4	761.4	1,455.8	1,433.4	22.47	64.800	
4,800.0	4,727.8	4,507.4	4,439.5	17.3	16.1	161.69	227.3	775.0	1,485.2	1,462.3	22.87	64.948	
4,822.8	4,750.2	4,528.4	4,460.0	17.4	16.2	161.69	228.8	779.1	1,494.0	1,471.0	22.99	64.991	
4,900.0	4,825.6	4,599.5	4,529.6	17.7	16.5	161.69	233.8	793.0	1,524.0	1,500.6	23.40	65.133	
4,921.2	4,846.4	4,619.1	4,548.8	17.8	16.6	161.69	235.2	796.8	1,532.2	1,508.7	23.51	65.171	
5,000.0	4,923.5	4,691.7	4,619.8	18.2	17.0	161.69	240.4	811.0	1,562.8	1,538.8	23.93	65.309	
5,019.7	4,942.7	4,709.8	4,637.5	18.3	17.0	161.69	241.7	814.6	1,570.4	1,546.4	24.03	65.343	
5,100.0	5,021.3	4,783.9	4,709.9	18.6	17.4	161.69	246.9	829.0	1,601.6	1,577.1	24.46	65.476	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	4,800.6	4,726.2	18.7	17.5	161.69	248.1	832.3	1,608.6	1,584.0	24.56	65.506	
5,200.0	5,119.1	4,876.0	4,800.1	19.1	17.8	161.69	253.4	847.1	1,640.4	1,615.4	24.99	65.635	
5,216.5	5,135.3	4,891.3	4,815.0	19.2	17.9	161.69	254.5	850.0	1,646.8	1,621.7	25.08	65.660	
5,300.0	5,216.9	4,968.2	4,890.2	19.6	18.2	161.69	260.0	865.1	1,679.2	1,653.6	25.52	65.786	
5,314.9	5,231.5	4,982.0	4,903.7	19.6	18.3	161.69	260.9	867.8	1,685.0	1,659.4	25.60	65.808	
5,400.0	5,314.7	5,120.5	5,039.5	20.0	18.8	161.72	270.1	893.0	1,717.2	1,691.0	26.18	65.582	
5,413.4	5,327.8	5,149.6	5,068.3	20.1	18.9	161.73	271.8	897.6	1,721.9	1,695.6	26.28	65.513	
5,500.0	5,412.5	5,343.1	5,260.1	20.5	19.4	161.90	280.2	921.0	1,749.3	1,722.4	26.91	64.996	
5,511.8	5,424.1	5,370.1	5,287.0	20.5	19.5	161.93	281.0	923.2	1,752.6	1,725.6	27.00	64.917	
5,600.0	5,510.3	5,575.6	5,492.2	20.9	19.8	162.27	284.5	932.8	1,774.2	1,746.6	27.60	64.284	
5,610.2	5,520.3	5,599.8	5,516.4	21.0	19.8	162.31	284.6	933.0	1,776.3	1,748.6	27.67	64.203	
5,700.0	5,608.2	5,696.5	5,613.2	21.4	19.9	162.51	284.6	933.1	1,794.1	1,766.0	28.08	63.887	
5,708.6	5,616.6	5,705.0	5,621.6	21.4	20.0	162.53	284.6	933.1	1,795.9	1,767.7	28.12	63.859	
5,729.2	5,636.7	5,725.1	5,641.7	21.5	20.0	162.57	284.6	933.1	1,799.9	1,771.7	28.22	63.790	
5,800.0	5,706.1	5,794.5	5,711.1	21.8	20.1	162.78	284.6	933.1	1,813.2	1,784.6	28.63	63.340	
5,807.1	5,713.1	5,801.5	5,718.1	21.8	20.1	162.80	284.6	933.1	1,814.4	1,785.8	28.66	63.299	
5,900.0	5,804.7	5,893.1	5,809.7	22.1	20.2	163.03	284.6	933.1	1,829.1	1,800.0	29.15	62.745	
5,905.5	5,810.2	5,898.6	5,815.2	22.1	20.2	163.04	284.6	933.1	1,829.9	1,800.7	29.18	62.713	
6,000.0	5,903.9	5,992.3	5,908.9	22.3	20.3	163.22	284.6	933.1	1,841.8	1,812.1	29.64	62.142	
6,003.9	5,907.8	5,996.2	5,912.8	22.4	20.3	163.23	284.6	933.1	1,842.2	1,812.6	29.66	62.119	
6,100.0	6,003.4	6,091.8	6,008.4	22.6	20.5	163.36	284.6	933.1	1,851.1	1,821.0	30.08	61.531	
6,102.3	6,005.7	6,094.1	6,010.7	22.6	20.5	163.37	284.6	933.1	1,851.3	1,821.2	30.09	61.517	
6,200.0	6,103.2	6,191.6	6,108.2	22.7	20.6	163.45	284.6	933.1	1,857.1	1,826.6	30.49	60.909	
6,200.8	6,104.0	6,192.3	6,109.0	22.7	20.6	163.45	284.6	933.1	1,857.1	1,826.6	30.49	60.904	
6,299.2	6,202.3	6,290.7	6,207.3	22.9	20.8	163.49	284.6	933.1	1,859.8	1,828.9	30.85	60.281	
6,300.0	6,203.1	6,291.5	6,208.1	22.9	20.8	163.49	284.6	933.1	1,859.8	1,828.9	30.85	60.276	
6,329.4	6,232.5	6,320.9	6,237.5	22.9	20.8	89.33	284.6	933.1	1,859.9	1,828.9	30.96	60.081	
6,397.6	6,300.8	6,391.1	6,307.7	23.0	20.9	89.38	282.8	933.1	1,859.9	1,828.7	31.18	59.646	
6,400.0	6,303.1	6,393.6	6,310.1	23.0	20.9	89.39	282.6	933.1	1,859.9	1,828.7	31.19	59.632	
6,449.4	6,352.5	6,444.3	6,360.6	23.1	20.9	89.56	277.0	933.0	1,859.8	1,828.5	31.33	59.362	
6,496.0	6,399.2	6,491.7	6,407.2	23.1	21.0	-90.44	268.6	933.0	1,859.7	1,828.3	31.43	59.172	
6,500.0	6,403.1	6,495.7	6,411.1	23.1	21.0	-90.42	267.8	933.0	1,859.7	1,828.3	31.44	59.156	
6,550.0	6,452.8	6,545.9	6,459.7	23.1	21.0	-90.20	255.2	933.0	1,859.7	1,828.2	31.51	59.022	
6,594.5	6,496.6	6,590.1	6,501.6	23.2	21.0	-90.00	241.4	932.9	1,859.7	1,828.1	31.55	58.953	
6,594.7	6,496.9	6,590.3	6,501.9	23.2	21.0	-90.00	241.3	932.9	1,859.7	1,828.1	31.55	58.952	
6,600.0	6,502.0	6,595.5	6,506.8	23.2	21.0	-89.98	239.5	932.9	1,859.7	1,828.1	31.55	58.944	
6,650.0	6,550.5	6,644.7	6,552.2	23.2	21.0	-89.76	220.8	932.8	1,859.7	1,828.1	31.57	58.911	
6,692.9	6,591.4	6,686.5	6,589.8	23.2	21.0	-89.57	202.4	932.8	1,859.7	1,828.2	31.57	58.909	
6,700.0	6,598.0	6,693.4	6,595.8	23.2	21.0	-89.54	199.2	932.8	1,859.7	1,828.2	31.57	58.909	
6,750.0	6,644.4	6,741.6	6,637.5	23.2	20.9	-89.32	174.9	932.7	1,859.8	1,828.3	31.56	58.922	
6,791.3	6,681.6	6,781.2	6,670.4	23.2	20.9	-89.14	153.0	932.6	1,859.9	1,828.3	31.56	58.933	
6,800.0	6,689.3	6,789.4	6,677.1	23.2	20.9	-89.11	148.2	932.6	1,859.9	1,828.4	31.56	58.935	
6,850.0	6,732.6	6,836.8	6,714.5	23.2	20.9	-88.90	119.1	932.5	1,860.0	1,828.5	31.56	58.928	
6,889.7	6,765.7	6,874.2	6,742.6	23.2	20.9	-88.74	94.5	932.4	1,860.1	1,828.6	31.58	58.895	
6,900.0	6,774.0	6,883.8	6,749.6	23.2	20.9	-88.70	87.9	932.4	1,860.2	1,828.6	31.59	58.885	
6,950.0	6,813.3	6,930.4	6,782.4	23.2	20.9	-88.50	54.7	932.2	1,860.3	1,828.7	31.65	58.786	
6,988.2	6,841.9	6,965.7	6,805.7	23.2	20.9	-88.36	28.2	932.1	1,860.5	1,828.7	31.72	58.660	
7,000.0	6,850.5	6,976.6	6,812.7	23.2	20.9	-88.31	19.8	932.1	1,860.5	1,828.8	31.74	58.615	
7,050.0	6,885.2	7,022.6	6,840.4	23.2	20.9	-88.13	-16.8	932.0	1,860.7	1,828.8	31.88	58.363	
7,086.6	6,908.9	7,056.0	6,859.2	23.2	20.9	-88.01	-44.5	931.9	1,860.8	1,828.8	32.03	58.099	
7,100.0	6,917.3	7,068.2	6,865.7	23.2	20.9	-87.96	-54.8	931.8	1,860.9	1,828.8	32.09	57.992	
7,150.0	6,946.6	7,113.5	6,888.3	23.2	21.0	-87.80	-94.1	931.7	1,861.1	1,828.7	32.35	57.526	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	6,965.5	7,145.1	6,902.6	23.3	21.0	-87.69	-122.3	931.6	1,861.2	1,828.6	32.58	57.128	
7,200.0	6,973.1	7,158.6	6,908.3	23.3	21.0	-87.65	-134.5	931.5	1,861.3	1,828.6	32.69	56.943	
7,250.0	6,996.5	7,203.5	6,925.6	23.3	21.1	-87.51	-175.8	931.4	1,861.5	1,828.4	33.10	56.246	
7,283.4	7,010.4	7,233.3	6,935.7	23.4	21.2	-87.42	-204.0	931.3	1,861.6	1,828.2	33.42	55.701	
7,300.0	7,016.8	7,250.0	6,940.8	23.4	21.2	-87.37	-219.8	931.2	1,861.7	1,828.1	33.59	55.419	
7,350.0	7,033.8	7,292.5	6,952.1	23.5	21.3	-87.26	-260.8	931.1	1,861.8	1,827.7	34.15	54.520	
7,381.9	7,043.0	7,320.8	6,958.3	23.6	21.4	-87.19	-288.3	931.0	1,861.9	1,827.4	34.56	53.880	
7,400.0	7,047.6	7,336.8	6,961.4	23.6	21.5	-87.15	-304.1	930.9	1,862.0	1,827.2	34.79	53.518	
7,450.0	7,057.9	7,380.9	6,967.9	23.8	21.7	-87.06	-347.7	930.8	1,862.1	1,826.6	35.51	52.443	
7,480.3	7,062.5	7,407.6	6,970.5	23.9	21.8	-87.01	-374.2	930.7	1,862.2	1,826.3	35.98	51.761	
7,500.0	7,064.8	7,424.9	6,971.7	24.0	21.9	-86.98	-391.5	930.6	1,862.3	1,826.0	36.29	51.314	
7,550.0	7,068.3	7,468.7	6,972.8	24.2	22.2	-86.91	-435.3	930.4	1,862.4	1,825.3	37.14	50.151	
7,578.7	7,068.7	7,497.1	6,972.5	24.4	22.4	-86.89	-463.6	930.3	1,862.4	1,824.8	37.68	49.425	
7,578.9	7,068.7	7,497.2	6,972.5	24.4	22.4	-86.89	-463.8	930.3	1,862.4	1,824.8	37.69	49.421	
7,600.0	7,068.6	7,518.3	6,972.3	24.5	22.6	-86.88	-484.9	930.3	1,862.4	1,824.3	38.10	48.877	
7,677.1	7,068.1	7,595.5	6,971.6	25.1	23.2	-86.88	-562.1	930.0	1,862.5	1,822.8	39.62	47.008	
7,700.0	7,067.9	7,618.3	6,971.4	25.2	23.4	-86.88	-584.9	929.9	1,862.5	1,822.4	40.08	46.465	
7,775.6	7,067.4	7,693.9	6,970.7	25.9	24.2	-86.87	-660.5	929.6	1,862.5	1,820.8	41.72	44.645	
7,800.0	7,067.3	7,718.3	6,970.5	26.1	24.4	-86.87	-684.9	929.5	1,862.5	1,820.2	42.27	44.064	
7,874.0	7,066.8	7,792.3	6,969.9	26.8	25.2	-86.86	-758.9	929.3	1,862.5	1,818.4	44.10	42.230	
7,900.0	7,066.7	7,818.3	6,969.6	27.0	25.5	-86.86	-784.9	929.2	1,862.5	1,817.7	44.77	41.603	
7,972.4	7,066.2	7,890.7	6,969.0	27.8	26.4	-86.85	-857.3	928.9	1,862.5	1,815.8	46.70	39.881	
8,000.0	7,066.0	7,918.3	6,968.7	28.1	26.7	-86.85	-884.9	928.8	1,862.5	1,815.1	47.45	39.249	
8,070.8	7,065.6	7,989.2	6,968.1	28.9	27.6	-86.84	-955.7	928.5	1,862.5	1,813.1	49.46	37.660	
8,100.0	7,065.4	8,018.3	6,967.8	29.3	28.0	-86.84	-984.9	928.4	1,862.5	1,812.2	50.29	37.033	
8,169.3	7,065.0	8,087.6	6,967.2	30.2	29.0	-86.84	-1,054.1	928.2	1,862.5	1,810.2	52.35	35.582	
8,200.0	7,064.8	8,118.3	6,966.9	30.6	29.4	-86.83	-1,084.9	928.1	1,862.5	1,809.3	53.27	34.967	
8,267.7	7,064.4	8,186.0	6,966.3	31.5	30.3	-86.83	-1,152.6	927.8	1,862.6	1,807.2	55.35	33.653	
8,300.0	7,064.2	8,218.3	6,966.0	31.9	30.8	-86.82	-1,184.8	927.7	1,862.6	1,806.2	56.35	33.055	
8,366.1	7,063.7	8,284.4	6,965.4	32.8	31.8	-86.82	-1,251.0	927.5	1,862.6	1,804.1	58.44	31.871	
8,400.0	7,063.5	8,318.3	6,965.1	33.3	32.3	-86.82	-1,284.8	927.3	1,862.6	1,803.1	59.52	31.292	
8,464.5	7,063.1	8,382.8	6,964.5	34.2	33.3	-86.81	-1,349.4	927.1	1,862.6	1,801.0	61.62	30.228	
8,500.0	7,062.9	8,418.3	6,964.2	34.8	33.8	-86.81	-1,384.8	927.0	1,862.6	1,799.8	62.78	29.671	
8,563.0	7,062.5	8,481.3	6,963.6	35.7	34.8	-86.80	-1,447.8	926.7	1,862.6	1,797.7	64.86	28.716	
8,600.0	7,062.3	8,518.3	6,963.3	36.3	35.4	-86.80	-1,484.8	926.6	1,862.6	1,796.5	66.10	28.181	
8,661.4	7,061.9	8,579.7	6,962.7	37.2	36.4	-86.79	-1,546.2	926.4	1,862.6	1,794.5	68.17	27.325	
8,700.0	7,061.6	8,618.3	6,962.4	37.8	37.0	-86.79	-1,584.8	926.2	1,862.6	1,793.2	69.47	26.811	
8,759.8	7,061.3	8,678.1	6,961.8	38.8	37.9	-86.79	-1,644.6	926.0	1,862.6	1,791.1	71.52	26.043	
8,800.0	7,061.0	8,718.3	6,961.4	39.4	38.6	-86.78	-1,684.8	925.9	1,862.7	1,789.8	72.90	25.551	
8,858.2	7,060.6	8,776.5	6,960.9	40.3	39.6	-86.78	-1,743.0	925.7	1,862.7	1,787.7	74.92	24.862	
8,900.0	7,060.4	8,818.3	6,960.5	41.0	40.3	-86.77	-1,784.8	925.5	1,862.7	1,786.3	76.37	24.390	
8,956.7	7,060.0	8,874.9	6,960.0	41.9	41.2	-86.77	-1,841.5	925.3	1,862.7	1,784.3	78.36	23.772	
9,000.0	7,059.8	8,918.3	6,959.6	42.6	41.9	-86.76	-1,884.8	925.2	1,862.7	1,782.8	79.88	23.319	
9,055.1	7,059.4	8,973.4	6,959.1	43.6	42.9	-86.76	-1,939.9	925.0	1,862.7	1,780.9	81.83	22.764	
9,100.0	7,059.1	9,018.3	6,958.7	44.3	43.7	-86.76	-1,984.8	924.8	1,862.7	1,779.3	83.42	22.330	
9,153.5	7,058.8	9,071.8	6,958.2	45.2	44.6	-86.75	-2,038.3	924.6	1,862.7	1,777.4	85.33	21.831	
9,200.0	7,058.5	9,118.3	6,957.8	46.0	45.4	-86.75	-2,084.8	924.4	1,862.7	1,775.8	86.99	21.414	
9,251.9	7,058.2	9,170.2	6,957.3	46.9	46.3	-86.74	-2,136.7	924.2	1,862.7	1,773.9	88.85	20.965	
9,300.0	7,057.9	9,218.3	6,956.9	47.7	47.1	-86.74	-2,184.8	924.1	1,862.8	1,772.2	90.58	20.565	
9,350.4	7,057.6	9,268.6	6,956.4	48.6	48.0	-86.73	-2,235.1	923.9	1,862.8	1,770.4	92.40	20.160	
9,400.0	7,057.2	9,318.3	6,956.0	49.4	48.9	-86.73	-2,284.7	923.7	1,862.8	1,768.6	94.19	19.776	
9,448.8	7,056.9	9,367.1	6,955.5	50.3	49.7	-86.73	-2,333.5	923.5	1,862.8	1,766.8	95.97	19.411	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,500.0	7,056.6	9,418.2	6,955.1	51.1	50.7	-86.72	-2,384.7	923.3	1,862.8	1,765.0	97.83	19.041	
9,547.2	7,056.3	9,465.5	6,954.7	52.0	51.5	-86.72	-2,432.0	923.2	1,862.8	1,763.3	99.55	18.712	
9,600.0	7,056.0	9,518.2	6,954.2	52.9	52.4	-86.71	-2,484.7	923.0	1,862.8	1,761.3	101.48	18.356	
9,645.6	7,055.7	9,563.9	6,953.8	53.7	53.3	-86.71	-2,530.4	922.8	1,862.8	1,759.7	103.16	18.058	
9,700.0	7,055.4	9,618.2	6,953.3	54.6	54.2	-86.70	-2,584.7	922.6	1,862.8	1,757.7	105.15	17.716	
9,744.1	7,055.1	9,662.3	6,952.9	55.4	55.0	-86.70	-2,628.8	922.5	1,862.9	1,756.1	106.77	17.447	
9,800.0	7,054.7	9,718.2	6,952.4	56.4	56.0	-86.70	-2,684.7	922.3	1,862.9	1,754.0	108.83	17.117	
9,842.5	7,054.5	9,760.7	6,952.0	57.2	56.8	-86.69	-2,727.2	922.1	1,862.9	1,752.5	110.40	16.873	
9,900.0	7,054.1	9,818.2	6,951.4	58.2	57.9	-86.69	-2,784.7	921.9	1,862.9	1,750.4	112.53	16.555	
9,940.9	7,053.8	9,859.2	6,951.1	58.9	58.6	-86.68	-2,825.6	921.8	1,862.9	1,748.9	114.05	16.335	
10,000.0	7,053.5	9,918.2	6,950.5	60.0	59.7	-86.68	-2,884.7	921.5	1,862.9	1,746.7	116.24	16.027	
10,039.3	7,053.2	9,957.6	6,950.2	60.7	60.4	-86.67	-2,924.0	921.4	1,862.9	1,745.2	117.70	15.828	
10,100.0	7,052.8	10,018.2	6,949.6	61.8	61.5	-86.67	-2,984.7	921.2	1,862.9	1,743.0	119.95	15.530	
10,137.8	7,052.6	10,056.0	6,949.3	62.4	62.2	-86.67	-3,022.5	921.0	1,863.0	1,741.6	121.36	15.350	
10,200.0	7,052.2	10,118.2	6,948.7	63.6	63.4	-86.66	-3,084.7	920.8	1,863.0	1,739.3	123.68	15.063	
10,236.2	7,052.0	10,154.4	6,948.4	64.2	64.0	-86.66	-3,120.9	920.7	1,863.0	1,737.9	125.03	14.900	
10,300.0	7,051.6	10,218.2	6,947.8	65.4	65.2	-86.65	-3,184.7	920.5	1,863.0	1,735.6	127.42	14.621	
10,334.6	7,051.4	10,252.8	6,947.5	66.0	65.9	-86.65	-3,219.3	920.3	1,863.0	1,734.3	128.71	14.474	
10,400.0	7,051.0	10,318.2	6,946.9	67.2	67.1	-86.64	-3,284.7	920.1	1,863.0	1,731.9	131.16	14.204	
10,433.0	7,050.7	10,351.3	6,946.6	67.8	67.7	-86.64	-3,317.7	920.0	1,863.0	1,730.6	132.40	14.071	
10,500.0	7,050.3	10,418.2	6,946.0	69.0	68.9	-86.64	-3,384.7	919.7	1,863.0	1,728.1	134.91	13.809	
10,531.5	7,050.1	10,449.7	6,945.7	69.6	69.5	-86.63	-3,416.1	919.6	1,863.1	1,727.0	136.10	13.689	
10,600.0	7,049.7	10,518.2	6,945.1	70.8	70.8	-86.63	-3,484.6	919.4	1,863.1	1,724.4	138.67	13.435	
10,629.9	7,049.5	10,548.1	6,944.8	71.4	71.4	-86.62	-3,514.5	919.3	1,863.1	1,723.3	139.80	13.327	
10,700.0	7,049.1	10,618.2	6,944.2	72.7	72.7	-86.62	-3,584.6	919.0	1,863.1	1,720.7	142.44	13.080	
10,728.3	7,048.9	10,646.5	6,943.9	73.2	73.2	-86.62	-3,613.0	918.9	1,863.1	1,719.6	143.50	12.983	
10,800.0	7,048.4	10,718.2	6,943.3	74.5	74.5	-86.61	-3,684.6	918.7	1,863.1	1,716.9	146.21	12.743	
10,826.7	7,048.3	10,744.9	6,943.0	75.0	75.1	-86.61	-3,711.4	918.6	1,863.1	1,715.9	147.21	12.656	
10,900.0	7,047.8	10,818.2	6,942.3	76.3	76.4	-86.60	-3,784.6	918.3	1,863.1	1,713.2	149.98	12.423	
10,925.2	7,047.7	10,843.4	6,942.1	76.8	76.9	-86.60	-3,809.8	918.2	1,863.2	1,712.2	150.93	12.344	
11,000.0	7,047.2	10,918.2	6,941.4	78.2	78.3	-86.59	-3,884.6	917.9	1,863.2	1,709.4	153.76	12.117	
11,023.6	7,047.0	10,941.8	6,941.2	78.6	78.8	-86.59	-3,908.2	917.9	1,863.2	1,708.5	154.65	12.048	
11,100.0	7,046.6	11,018.2	6,940.5	80.0	80.2	-86.58	-3,984.6	917.6	1,863.2	1,705.7	157.54	11.827	
11,122.0	7,046.4	11,040.2	6,940.3	80.4	80.6	-86.58	-4,006.6	917.5	1,863.2	1,704.8	158.38	11.764	
11,200.0	7,045.9	11,118.2	6,939.6	81.9	82.1	-86.57	-4,084.6	917.2	1,863.2	1,701.9	161.33	11.549	
11,220.4	7,045.8	11,138.6	6,939.4	82.3	82.5	-86.57	-4,105.0	917.1	1,863.2	1,701.1	162.11	11.494	
11,300.0	7,045.3	11,218.2	6,938.7	83.7	84.0	-86.57	-4,184.6	916.9	1,863.3	1,698.1	165.12	11.284	
11,318.9	7,045.2	11,237.0	6,938.5	84.1	84.3	-86.56	-4,203.5	916.8	1,863.3	1,697.4	165.84	11.235	
11,400.0	7,044.7	11,318.2	6,937.8	85.6	85.9	-86.56	-4,284.6	916.5	1,863.3	1,694.4	168.92	11.031	
11,417.3	7,044.6	11,335.5	6,937.6	85.9	86.2	-86.56	-4,301.9	916.4	1,863.3	1,693.7	169.58	10.988	
11,500.0	7,044.0	11,418.2	6,936.9	87.5	87.8	-86.55	-4,384.6	916.1	1,863.3	1,690.6	172.72	10.788	
11,515.7	7,043.9	11,433.9	6,936.7	87.7	88.1	-86.55	-4,400.3	916.1	1,863.3	1,690.0	173.32	10.751	
11,600.0	7,043.4	11,518.2	6,936.0	89.3	89.7	-86.54	-4,484.6	915.8	1,863.3	1,686.8	176.52	10.556	
11,614.1	7,043.3	11,532.3	6,935.8	89.6	90.0	-86.54	-4,498.7	915.7	1,863.4	1,686.3	177.06	10.524	
11,700.0	7,042.8	11,618.2	6,935.1	91.2	91.6	-86.53	-4,584.5	915.4	1,863.4	1,683.0	180.33	10.333	
11,712.6	7,042.7	11,630.7	6,934.9	91.4	91.8	-86.53	-4,597.1	915.4	1,863.4	1,682.6	180.81	10.306	
11,800.0	7,042.2	11,718.2	6,934.1	93.0	93.5	-86.52	-4,684.5	915.1	1,863.4	1,679.3	184.14	10.120	
11,811.0	7,042.1	11,729.2	6,934.0	93.2	93.7	-86.52	-4,695.5	915.0	1,863.4	1,678.9	184.55	10.097	
11,900.0	7,041.5	11,818.1	6,933.2	94.9	95.4	-86.51	-4,784.5	914.7	1,863.4	1,675.5	187.95	9.915	
11,909.4	7,041.5	11,827.6	6,933.1	95.1	95.6	-86.51	-4,794.0	914.7	1,863.4	1,675.1	188.31	9.896	
12,000.0	7,040.9	11,918.1	6,932.3	96.8	97.3	-86.51	-4,884.5	914.4	1,863.5	1,671.7	191.76	9.718	
12,007.8	7,040.8	11,926.0	6,932.3	96.9	97.5	-86.50	-4,892.4	914.3	1,863.5	1,671.4	192.06	9.703	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
12,100.0	7,040.3	12,018.1	6,931.4	98.7	99.2	-86.50	-4,984.5	914.0	1,863.5	1,667.9	195.57	9.528	
12,106.3	7,040.2	12,024.4	6,931.4	98.8	99.3	-86.50	-4,990.8	914.0	1,863.5	1,667.7	195.81	9.517	
12,200.0	7,039.6	12,118.1	6,930.5	100.5	101.1	-86.49	-5,084.5	913.6	1,863.5	1,664.1	199.39	9.346	
12,204.7	7,039.6	12,122.8	6,930.5	100.6	101.2	-86.49	-5,089.2	913.6	1,863.5	1,664.0	199.57	9.338	
12,300.0	7,039.0	12,218.1	6,929.6	102.4	103.1	-86.48	-5,184.5	913.3	1,863.6	1,660.3	203.21	9.171	
12,303.1	7,039.0	12,221.3	6,929.6	102.5	103.1	-86.48	-5,187.6	913.3	1,863.6	1,660.2	203.33	9.165	
12,400.0	7,038.4	12,318.1	6,928.7	104.3	105.0	-86.47	-5,284.5	912.9	1,863.6	1,656.6	207.03	9.001	
12,401.5	7,038.4	12,319.7	6,928.7	104.3	105.0	-86.47	-5,286.0	912.9	1,863.6	1,656.5	207.09	8.999	
12,500.0	7,037.8	12,418.1	6,927.8	106.2	106.9	-86.46	-5,384.5	912.6	1,863.6	1,652.8	210.86	8.838	
12,598.4	7,037.1	12,516.5	6,926.9	108.0	108.8	-86.45	-5,482.9	912.2	1,863.7	1,649.0	214.62	8.683	
12,600.0	7,037.1	12,518.1	6,926.9	108.0	108.8	-86.45	-5,484.5	912.2	1,863.7	1,649.0	214.68	8.681	
12,696.8	7,036.5	12,614.9	6,926.0	109.9	110.7	-86.45	-5,581.3	911.9	1,863.7	1,645.3	218.39	8.534	
12,700.0	7,036.5	12,618.1	6,925.9	109.9	110.7	-86.44	-5,584.5	911.9	1,863.7	1,645.2	218.51	8.529	
12,795.2	7,035.9	12,713.4	6,925.1	111.7	112.6	-86.44	-5,679.7	911.5	1,863.7	1,641.6	222.15	8.389	
12,800.0	7,035.9	12,718.1	6,925.0	111.8	112.7	-86.44	-5,684.4	911.5	1,863.7	1,641.4	222.34	8.382	
12,893.7	7,035.3	12,811.8	6,924.2	113.6	114.5	-86.43	-5,778.1	911.2	1,863.8	1,637.8	225.92	8.249	
12,900.0	7,035.2	12,818.1	6,924.1	113.7	114.6	-86.43	-5,784.4	911.1	1,863.8	1,637.6	226.17	8.241	
12,992.1	7,034.7	12,910.2	6,923.3	115.4	116.4	-86.42	-5,876.5	910.8	1,863.8	1,634.1	229.69	8.114	
13,000.0	7,034.6	12,918.1	6,923.2	115.6	116.5	-86.42	-5,884.4	910.8	1,863.8	1,633.8	230.00	8.104	
13,090.5	7,034.0	13,008.6	6,922.4	117.3	118.3	-86.41	-5,974.9	910.5	1,863.8	1,630.4	233.47	7.983	
13,100.0	7,034.0	13,018.1	6,922.3	117.5	118.4	-86.41	-5,984.4	910.4	1,863.8	1,630.0	233.83	7.971	
13,188.9	7,033.4	13,107.0	6,921.5	119.1	120.2	-86.40	-6,073.4	910.1	1,863.9	1,626.6	237.24	7.856	
13,200.0	7,033.4	13,118.1	6,921.4	119.3	120.4	-86.40	-6,084.4	910.1	1,863.9	1,626.2	237.66	7.842	
13,287.4	7,032.8	13,205.5	6,920.6	121.0	122.1	-86.39	-6,171.8	909.8	1,863.9	1,622.9	241.01	7.734	
13,300.0	7,032.7	13,218.1	6,920.5	121.2	122.3	-86.39	-6,184.4	909.7	1,863.9	1,622.4	241.50	7.718	
13,385.8	7,032.2	13,303.9	6,919.7	122.9	124.0	-86.39	-6,270.2	909.4	1,863.9	1,619.1	244.79	7.614	
13,400.0	7,032.1	13,318.1	6,919.6	123.1	124.2	-86.38	-6,284.4	909.4	1,863.9	1,618.6	245.33	7.598	
13,484.2	7,031.6	13,402.3	6,918.8	124.7	125.9	-86.38	-6,368.6	909.1	1,864.0	1,615.4	248.56	7.499	
13,500.0	7,031.5	13,418.1	6,918.6	125.0	126.2	-86.38	-6,384.4	909.0	1,864.0	1,614.8	249.17	7.481	
13,582.6	7,030.9	13,500.7	6,917.9	126.6	127.8	-86.37	-6,467.0	908.7	1,864.0	1,611.7	252.34	7.387	
13,600.0	7,030.8	13,518.1	6,917.7	126.9	128.1	-86.37	-6,484.4	908.7	1,864.0	1,611.0	253.01	7.367	
13,681.1	7,030.3	13,599.2	6,917.0	128.4	129.7	-86.36	-6,565.4	908.4	1,864.0	1,607.9	256.12	7.278	
13,700.0	7,030.2	13,618.1	6,916.8	128.8	130.0	-86.36	-6,584.4	908.3	1,864.0	1,607.2	256.85	7.257	
13,779.5	7,029.7	13,697.6	6,916.1	130.3	131.6	-86.35	-6,663.9	908.0	1,864.1	1,604.2	259.90	7.172	
13,800.0	7,029.6	13,718.1	6,915.9	130.7	132.0	-86.35	-6,684.4	908.0	1,864.1	1,603.4	260.69	7.151	
13,877.9	7,029.1	13,796.0	6,915.2	132.2	133.5	-86.34	-6,762.3	907.7	1,864.1	1,600.4	263.68	7.070	
13,900.0	7,029.0	13,818.1	6,915.0	132.6	133.9	-86.34	-6,784.3	907.6	1,864.1	1,599.6	264.53	7.047	
13,976.3	7,028.5	13,894.4	6,914.3	134.0	135.4	-86.33	-6,860.7	907.3	1,864.1	1,596.7	267.46	6.970	
14,000.0	7,028.3	13,918.1	6,914.1	134.5	135.8	-86.33	-6,884.3	907.2	1,864.1	1,595.8	268.37	6.946	
14,074.8	7,027.9	13,992.8	6,913.4	135.9	137.3	-86.33	-6,959.1	907.0	1,864.2	1,592.9	271.24	6.873	
14,100.0	7,027.7	14,018.1	6,913.2	136.4	137.8	-86.32	-6,984.3	906.9	1,864.2	1,592.0	272.21	6.848	
14,173.2	7,027.2	14,091.3	6,912.5	137.8	139.2	-86.32	-7,057.5	906.6	1,864.2	1,589.2	275.02	6.778	
14,200.0	7,027.1	14,118.1	6,912.2	138.3	139.7	-86.31	-7,084.3	906.5	1,864.2	1,588.2	276.04	6.754	
14,210.5	7,027.0	14,128.6	6,912.1	138.5	139.9	-86.31	-7,094.8	906.5	1,864.2	1,587.8	276.43	6.744 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	-157.02	-3,511.9	-1,489.1	3,815.0				
98.4	98.4	39.9	39.9	0.1	0.5	-157.02	-3,511.9	-1,489.1	3,814.5	3,813.9	0.62	6,188.879	
100.0	100.0	41.5	41.5	0.1	0.5	-157.02	-3,511.9	-1,489.1	3,814.5	3,813.9	0.64	5,972.599	
196.8	196.8	138.3	138.3	0.3	2.2	-157.02	-3,511.9	-1,489.1	3,814.5	3,812.1	2.49	1,532.611	
200.0	200.0	141.5	141.5	0.3	2.2	-157.02	-3,511.9	-1,489.1	3,814.5	3,812.0	2.57	1,485.761	
295.3	295.3	236.8	236.8	0.5	4.3	-157.02	-3,511.9	-1,489.1	3,814.5	3,809.7	4.87	783.096	
300.0	300.0	241.5	241.5	0.5	4.4	-157.02	-3,511.9	-1,489.1	3,814.5	3,809.6	4.98	765.999	
393.7	393.7	335.2	335.2	0.8	6.4	-157.02	-3,511.9	-1,489.1	3,814.5	3,807.4	7.12	535.476	
400.0	400.0	341.5	341.5	0.8	6.5	-157.02	-3,511.9	-1,489.1	3,814.5	3,807.3	7.27	524.955	
492.1	492.1	433.6	433.6	1.0	8.4	-157.02	-3,511.9	-1,489.1	3,814.5	3,805.2	9.35	407.972	
500.0	500.0	441.5	441.5	1.0	8.5	-157.02	-3,511.9	-1,489.1	3,814.5	3,805.0	9.53	400.373	
590.5	590.5	532.0	532.0	1.2	10.4	-157.02	-3,511.9	-1,489.1	3,814.5	3,803.0	11.57	329.803	
600.0	600.0	541.5	541.5	1.2	10.6	-157.02	-3,511.9	-1,489.1	3,814.5	3,802.8	11.78	323.856	
689.0	689.0	630.5	630.5	1.4	12.4	-157.02	-3,511.9	-1,489.1	3,814.5	3,800.8	13.78	276.876	
700.0	700.0	641.5	641.5	1.4	12.6	-157.02	-3,511.9	-1,489.1	3,814.5	3,800.5	14.02	271.991	
787.4	787.4	728.9	728.9	1.6	14.3	-157.02	-3,511.9	-1,489.1	3,814.5	3,798.6	15.99	238.631	
800.0	800.0	741.5	741.5	1.7	14.6	-157.02	-3,511.9	-1,489.1	3,814.5	3,798.3	16.27	234.487	
885.8	885.8	827.3	827.3	1.9	16.3	-157.02	-3,511.9	-1,489.1	3,814.5	3,796.4	18.19	209.690	
900.0	900.0	841.5	841.5	1.9	16.6	-157.02	-3,511.9	-1,489.1	3,814.5	3,796.0	18.51	206.092	
984.2	984.2	925.7	925.7	2.1	18.3	-157.02	-3,511.9	-1,489.1	3,814.5	3,794.2	20.40	187.022	
1,000.0	1,000.0	941.5	941.5	2.1	18.6	-157.02	-3,511.9	-1,489.1	3,814.5	3,793.8	20.75	183.842	
1,082.7	1,082.7	1,024.2	1,024.2	2.3	20.3	-157.02	-3,511.9	-1,489.1	3,814.5	3,791.9	22.60	168.783	
1,100.0	1,100.0	1,041.5	1,041.5	2.3	20.6	-157.02	-3,511.9	-1,489.1	3,814.5	3,791.6	22.99	165.935	
1,181.1	1,181.1	1,122.6	1,122.6	2.5	22.3	-82.87	-3,511.9	-1,489.1	3,814.4	3,789.6	24.80	153.832	
1,200.0	1,200.0	1,141.5	1,141.5	2.6	22.7	-82.88	-3,511.9	-1,489.1	3,814.3	3,789.1	25.22	151.260	
1,279.5	1,279.4	1,220.9	1,220.9	2.7	24.3	-82.95	-3,511.9	-1,489.1	3,813.9	3,786.9	26.98	141.337	
1,300.0	1,299.8	1,241.3	1,241.3	2.8	24.7	-82.98	-3,511.9	-1,489.1	3,813.7	3,786.2	27.44	138.991	
1,377.9	1,377.5	1,319.0	1,319.0	2.9	26.2	-83.09	-3,511.9	-1,489.1	3,812.9	3,783.7	29.18	130.689	
1,400.0	1,399.5	1,341.0	1,341.0	3.0	26.7	-83.13	-3,511.9	-1,489.1	3,812.6	3,783.0	29.67	128.519	
1,476.4	1,475.3	1,416.8	1,416.8	3.2	28.2	-83.28	-3,511.9	-1,489.1	3,811.6	3,780.2	31.38	121.479	
1,500.0	1,498.7	1,440.2	1,440.2	3.2	28.7	-83.33	-3,511.9	-1,489.1	3,811.2	3,779.3	31.90	119.456	
1,574.8	1,572.6	1,514.1	1,514.1	3.4	30.2	-83.53	-3,511.9	-1,489.1	3,809.9	3,776.3	33.59	113.412	
1,600.0	1,597.5	1,539.0	1,539.0	3.5	30.7	-83.60	-3,511.9	-1,489.1	3,809.4	3,775.2	34.16	111.512	
1,673.2	1,669.4	1,610.9	1,610.9	3.7	32.1	-83.83	-3,511.9	-1,489.1	3,807.9	3,772.0	35.83	106.267	
1,700.2	1,695.8	1,637.3	1,637.3	3.8	32.6	-83.92	-3,511.9	-1,489.1	3,807.3	3,770.8	36.45	104.458	
1,771.6	1,765.7	1,707.2	1,707.2	4.1	34.0	-84.14	-3,511.9	-1,489.1	3,805.7	3,767.6	38.10	99.888	
1,800.0	1,793.4	1,734.9	1,734.9	4.2	34.6	-84.23	-3,511.9	-1,489.1	3,805.1	3,766.3	38.76	98.182	
1,870.1	1,862.0	1,803.5	1,803.5	4.4	36.0	-84.44	-3,511.9	-1,489.1	3,803.6	3,763.2	40.39	94.172	
1,900.0	1,891.2	1,832.7	1,832.7	4.5	36.6	-84.53	-3,511.9	-1,489.1	3,803.0	3,761.9	41.09	92.556	
1,968.5	1,958.3	1,899.8	1,899.8	4.8	37.9	-84.74	-3,511.9	-1,489.1	3,801.6	3,758.9	42.70	89.036	
2,000.0	1,989.1	1,930.6	1,930.6	4.9	38.5	-84.84	-3,511.9	-1,489.1	3,801.0	3,757.6	43.44	87.505	
2,066.9	2,054.5	1,996.0	1,996.0	5.2	39.9	-85.04	-3,511.9	-1,489.1	3,799.8	3,754.7	45.02	84.405	
2,100.0	2,086.9	2,028.4	2,028.4	5.3	40.5	-85.14	-3,511.9	-1,489.1	3,799.2	3,753.4	45.80	82.952	
2,165.3	2,150.8	2,092.3	2,092.3	5.6	41.8	-85.34	-3,511.9	-1,489.1	3,798.0	3,750.7	47.35	80.211	
2,200.0	2,184.7	2,126.2	2,126.2	5.7	42.5	-85.45	-3,511.9	-1,489.1	3,797.4	3,749.3	48.17	78.830	
2,263.8	2,247.1	2,188.6	2,188.6	6.0	43.7	-85.65	-3,511.9	-1,489.1	3,796.4	3,746.7	49.69	76.401	
2,300.0	2,282.5	2,224.0	2,224.0	6.1	44.4	-85.76	-3,511.9	-1,489.1	3,795.8	3,745.2	50.55	75.086	
2,362.2	2,343.3	2,284.8	2,284.8	6.4	45.7	-85.95	-3,511.9	-1,489.1	3,794.8	3,742.8	52.04	72.925	
2,400.0	2,380.3	2,321.8	2,321.8	6.6	46.4	-86.06	-3,511.9	-1,489.1	3,794.3	3,741.3	52.94	71.671	
2,460.6	2,439.6	2,381.1	2,381.1	6.8	47.6	-86.25	-3,511.9	-1,489.1	3,793.4	3,739.0	54.39	69.744	
2,500.0	2,478.1	2,419.6	2,419.6	7.0	48.4	-86.37	-3,511.9	-1,489.1	3,792.9	3,737.5	55.33	68.547	
2,559.0	2,535.9	2,477.4	2,477.4	7.2	49.5	-86.55	-3,511.9	-1,489.1	3,792.1	3,735.4	56.75	66.823	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - HOW SAD C 18-31 - Wellbore #1 - Design #1												Offset Site Error:	0.0 usft
Survey Program: 0-INC												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,600.0	2,575.9	2,517.4	2,517.4	7.4	50.3	-86.68	-3,511.9	-1,489.1	3,791.6	3,733.9	57.73	65.678	
2,657.5	2,632.2	2,573.7	2,573.7	7.7	51.5	-86.85	-3,511.9	-1,489.1	3,790.9	3,731.8	59.11	64.133	
2,700.0	2,673.8	2,615.3	2,615.3	7.8	52.3	-86.98	-3,511.9	-1,489.1	3,790.4	3,730.3	60.13	63.035	
2,755.9	2,728.4	2,669.9	2,669.9	8.1	53.4	-87.15	-3,511.9	-1,489.1	3,789.8	3,728.3	61.48	61.647	
2,800.0	2,771.6	2,713.1	2,713.1	8.3	54.3	-87.29	-3,511.9	-1,489.1	3,789.3	3,726.8	62.54	60.595	
2,854.3	2,824.7	2,766.2	2,766.2	8.5	55.3	-87.46	-3,511.9	-1,489.1	3,788.8	3,725.0	63.84	59.345	
2,900.0	2,869.4	2,810.9	2,810.9	8.7	56.2	-87.60	-3,511.9	-1,489.1	3,788.4	3,723.5	64.94	58.334	
2,952.7	2,921.0	2,862.5	2,862.5	8.9	57.3	-87.76	-3,511.9	-1,489.1	3,787.9	3,721.7	66.21	57.208	
3,000.0	2,967.2	2,908.7	2,908.7	9.2	58.2	-87.91	-3,511.9	-1,489.1	3,787.6	3,720.2	67.35	56.235	
3,051.2	3,017.3	2,958.8	2,958.8	9.4	59.2	-88.06	-3,511.9	-1,489.1	3,787.2	3,718.6	68.59	55.218	
3,100.0	3,065.0	3,006.5	3,006.5	9.6	60.2	-88.21	-3,511.9	-1,489.1	3,786.8	3,717.1	69.76	54.281	
3,149.6	3,113.5	3,055.0	3,055.0	9.8	61.2	-88.37	-3,511.9	-1,489.1	3,786.5	3,715.6	70.96	53.361	
3,200.0	3,162.8	3,104.3	3,104.3	10.0	62.1	-88.52	-3,511.9	-1,489.1	3,786.2	3,714.1	72.18	52.458	
3,248.0	3,209.8	3,151.3	3,151.3	10.3	63.1	-88.67	-3,511.9	-1,489.1	3,786.0	3,712.7	73.34	51.625	
3,300.0	3,260.6	3,202.1	3,202.1	10.5	64.1	-88.83	-3,511.9	-1,489.1	3,785.7	3,711.2	74.59	50.753	
3,346.4	3,306.1	3,247.6	3,247.6	10.7	65.0	-88.97	-3,511.9	-1,489.1	3,785.6	3,709.8	75.71	49.998	
3,400.0	3,358.4	3,299.9	3,299.9	10.9	66.1	-89.14	-3,511.9	-1,489.1	3,785.4	3,708.4	77.01	49.156	
3,444.9	3,402.3	3,343.8	3,343.8	11.1	67.0	-89.27	-3,511.9	-1,489.1	3,785.2	3,707.1	78.09	48.472	
3,500.0	3,456.3	3,397.8	3,397.8	11.4	68.0	-89.44	-3,511.9	-1,489.1	3,785.1	3,705.7	79.42	47.657	
3,543.3	3,498.6	3,440.1	3,440.1	11.6	68.9	-89.58	-3,511.9	-1,489.1	3,785.0	3,704.6	80.47	47.036	
3,600.0	3,554.1	3,495.6	3,495.6	11.8	70.0	-89.75	-3,511.9	-1,489.1	3,785.0	3,703.1	81.84	46.247	
3,641.7	3,594.9	3,536.4	3,536.4	12.0	70.8	-89.88	-3,511.9	-1,489.1	3,784.9	3,702.1	82.85	45.684	
3,680.5	3,632.8	3,574.3	3,574.3	12.2	71.6	-90.00	-3,511.9	-1,489.1	3,784.9	3,701.1	83.79	45.172	
3,700.0	3,651.9	3,593.4	3,593.4	12.3	72.0	-90.06	-3,511.9	-1,489.1	3,784.9	3,700.7	84.26	44.919	
3,740.1	3,691.2	3,632.7	3,632.7	12.5	72.8	-90.18	-3,511.9	-1,489.1	3,784.9	3,699.7	85.23	44.408	
3,800.0	3,749.7	3,691.2	3,691.2	12.7	74.0	-90.37	-3,511.9	-1,489.1	3,785.0	3,698.3	86.68	43.667	
3,838.6	3,787.4	3,728.9	3,728.9	12.9	74.7	-90.49	-3,511.9	-1,489.1	3,785.1	3,697.4	87.61	43.202	
3,900.0	3,847.5	3,789.0	3,789.0	13.2	75.9	-90.68	-3,511.9	-1,489.1	3,785.2	3,696.1	89.10	42.483	
3,937.0	3,883.7	3,825.2	3,825.2	13.3	76.6	-90.79	-3,511.9	-1,489.1	3,785.3	3,695.3	89.99	42.062	
4,000.0	3,945.3	3,886.8	3,886.8	13.6	77.9	-90.98	-3,511.9	-1,489.1	3,785.5	3,694.0	91.52	41.363	
4,035.4	3,980.0	3,921.5	3,921.5	13.8	78.6	-91.09	-3,511.9	-1,489.1	3,785.6	3,693.3	92.38	40.981	
4,100.0	4,043.1	3,984.6	3,984.6	14.1	79.9	-91.29	-3,511.9	-1,489.1	3,785.9	3,692.0	93.94	40.302	
4,133.8	4,076.3	4,017.8	4,017.8	14.2	80.5	-91.40	-3,511.9	-1,489.1	3,786.1	3,691.3	94.76	39.955	
4,200.0	4,141.0	4,082.5	4,082.5	14.5	81.8	-91.60	-3,511.9	-1,489.1	3,786.5	3,690.1	96.36	39.295	
4,232.3	4,172.5	4,114.0	4,114.0	14.7	82.5	-91.70	-3,511.9	-1,489.1	3,786.7	3,689.5	97.14	38.981	
4,300.0	4,238.8	4,180.3	4,180.3	15.0	83.8	-91.91	-3,511.9	-1,489.1	3,787.1	3,688.3	98.78	38.339	
4,330.7	4,268.8	4,210.3	4,210.3	15.1	84.4	-92.00	-3,511.9	-1,489.1	3,787.3	3,687.8	99.52	38.055	
4,400.0	4,336.6	4,278.1	4,278.1	15.4	85.8	-92.21	-3,511.9	-1,489.1	3,787.9	3,686.7	101.20	37.429	
4,429.1	4,365.1	4,306.6	4,306.6	15.6	86.3	-92.30	-3,511.9	-1,489.1	3,788.1	3,686.2	101.91	37.173	
4,500.0	4,434.4	4,375.9	4,375.9	15.9	87.7	-92.52	-3,511.9	-1,489.1	3,788.8	3,685.1	103.62	36.564	
4,527.5	4,461.3	4,402.8	4,402.8	16.0	88.3	-92.61	-3,511.9	-1,489.1	3,789.0	3,684.7	104.29	36.332	
4,600.0	4,532.2	4,473.7	4,473.7	16.4	89.7	-92.83	-3,511.9	-1,489.1	3,789.7	3,683.7	106.04	35.738	
4,626.0	4,557.6	4,499.1	4,499.1	16.5	90.2	-92.91	-3,511.9	-1,489.1	3,790.0	3,683.4	106.67	35.530	
4,700.0	4,630.0	4,571.5	4,571.5	16.8	91.7	-93.14	-3,511.9	-1,489.1	3,790.9	3,682.4	108.46	34.951	
4,724.4	4,653.9	4,595.4	4,595.4	16.9	92.1	-93.21	-3,511.9	-1,489.1	3,791.1	3,682.1	109.05	34.764	
4,800.0	4,727.8	4,669.3	4,669.3	17.3	93.6	-93.44	-3,511.9	-1,489.1	3,792.1	3,681.2	110.88	34.199	
4,822.8	4,750.2	4,691.7	4,691.7	17.4	94.1	-93.51	-3,511.9	-1,489.1	3,792.4	3,680.9	111.43	34.032	
4,900.0	4,825.6	4,767.1	4,767.1	17.7	95.6	-93.75	-3,511.9	-1,489.1	3,793.4	3,680.1	113.30	33.481	
4,921.2	4,846.4	4,787.9	4,787.9	17.8	96.0	-93.82	-3,511.9	-1,489.1	3,793.7	3,679.9	113.82	33.332	
5,000.0	4,923.5	4,865.0	4,865.0	18.2	97.6	-94.06	-3,511.9	-1,489.1	3,794.9	3,679.1	115.72	32.793	
5,019.7	4,942.7	4,884.2	4,884.2	18.3	97.9	-94.12	-3,511.9	-1,489.1	3,795.2	3,679.0	116.20	32.661	
5,100.0	5,021.3	4,962.8	4,962.8	18.6	99.5	-94.36	-3,511.9	-1,489.1	3,796.4	3,678.3	118.14	32.135	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	4,980.5	4,980.5	18.7	99.9	-94.42	-3,511.9	-1,489.1	3,796.7	3,678.1	118.58	32.019	
5,200.0	5,119.1	5,060.6	5,060.6	19.1	101.5	-94.67	-3,511.9	-1,489.1	3,798.1	3,677.5	120.56	31.504	
5,216.5	5,135.3	5,076.8	5,076.8	19.2	101.8	-94.72	-3,511.9	-1,489.1	3,798.4	3,677.4	120.96	31.402	
5,300.0	5,216.9	5,158.4	5,158.4	19.6	103.5	-94.97	-3,511.9	-1,489.1	3,799.9	3,676.9	122.98	30.899	
5,314.9	5,231.5	5,173.0	5,173.0	19.6	103.8	-95.02	-3,511.9	-1,489.1	3,800.2	3,676.8	123.34	30.811	
5,400.0	5,314.7	5,256.2	5,256.2	20.0	105.4	-95.28	-3,511.9	-1,489.1	3,801.8	3,676.4	125.39	30.318	
5,413.4	5,327.8	5,269.3	5,269.3	20.1	105.7	-95.32	-3,511.9	-1,489.1	3,802.0	3,676.3	125.72	30.243	
5,500.0	5,412.5	5,354.0	5,354.0	20.5	107.4	-95.59	-3,511.9	-1,489.1	3,803.8	3,676.0	127.81	29.761	
5,511.8	5,424.1	5,365.6	5,365.6	20.5	107.6	-95.62	-3,511.9	-1,489.1	3,804.0	3,675.9	128.10	29.696	
5,600.0	5,510.3	5,451.8	5,451.8	20.9	109.4	-95.89	-3,511.9	-1,489.1	3,805.9	3,675.7	130.23	29.225	
5,610.2	5,520.3	5,461.8	5,461.8	21.0	109.6	-95.92	-3,511.9	-1,489.1	3,806.1	3,675.7	130.48	29.171	
5,700.0	5,608.2	5,549.7	5,549.7	21.4	111.3	-96.19	-3,511.9	-1,489.1	3,808.2	3,675.5	132.64	28.709	
5,708.6	5,616.6	5,558.1	5,558.1	21.4	111.5	-96.22	-3,511.9	-1,489.1	3,808.4	3,675.5	132.85	28.666	
5,729.2	5,636.7	5,578.2	5,578.2	21.5	111.9	-96.28	-3,511.9	-1,489.1	3,808.8	3,675.5	133.35	28.563	
5,800.0	5,706.1	5,647.6	5,647.6	21.8	113.3	-96.52	-3,511.9	-1,489.1	3,810.4	3,675.4	135.02	28.221	
5,807.1	5,713.1	5,654.6	5,654.6	21.8	113.4	-96.54	-3,511.9	-1,489.1	3,810.6	3,675.4	135.18	28.189	
5,900.0	5,804.7	5,746.2	5,746.2	22.1	115.3	-96.80	-3,511.9	-1,489.1	3,812.4	3,675.1	137.30	27.767	
5,905.5	5,810.2	5,751.7	5,751.7	22.1	115.4	-96.82	-3,511.9	-1,489.1	3,812.5	3,675.0	137.42	27.743	
6,000.0	5,903.9	5,845.4	5,845.4	22.3	117.3	-97.03	-3,511.9	-1,489.1	3,814.0	3,674.4	139.55	27.331	
6,003.9	5,907.8	5,849.3	5,849.3	22.4	117.4	-97.04	-3,511.9	-1,489.1	3,814.0	3,674.4	139.63	27.315	
6,100.0	6,003.4	5,944.9	5,944.9	22.6	119.3	-97.20	-3,511.9	-1,489.1	3,815.2	3,673.4	141.76	26.913	
6,102.3	6,005.7	5,947.2	5,947.2	22.6	119.3	-97.20	-3,511.9	-1,489.1	3,815.2	3,673.4	141.81	26.903	
6,200.0	6,103.2	6,044.7	6,044.7	22.7	121.3	-97.31	-3,511.9	-1,489.1	3,816.0	3,672.0	143.94	26.510	
6,200.8	6,104.0	6,045.5	6,045.5	22.7	121.3	-97.31	-3,511.9	-1,489.1	3,816.0	3,672.0	143.96	26.507	
6,299.2	6,202.3	6,143.8	6,143.8	22.9	123.3	-97.35	-3,511.9	-1,489.1	3,816.3	3,670.2	146.07	26.126	
6,300.0	6,203.1	6,144.6	6,144.6	22.9	123.3	-97.36	-3,511.9	-1,489.1	3,816.3	3,670.2	146.09	26.123	
6,329.4	6,232.5	6,174.0	6,174.0	22.9	123.9	-171.52	-3,511.9	-1,489.1	3,816.3	3,669.6	146.71	26.013	
6,397.6	6,300.8	6,242.3	6,242.3	23.0	125.3	-171.52	-3,511.9	-1,489.1	3,816.3	3,668.2	148.16	25.758	
6,400.0	6,303.1	6,244.6	6,244.6	23.0	125.3	-171.52	-3,511.9	-1,489.1	3,816.3	3,668.1	148.21	25.749	
6,449.4	6,352.5	6,294.0	6,294.0	23.1	126.3	-171.52	-3,511.9	-1,489.1	3,816.3	3,667.1	149.27	25.567	
6,496.0	6,399.2	6,340.7	6,340.7	23.1	127.2	8.29	-3,511.9	-1,489.1	3,814.8	3,664.9	149.94	25.442	
6,500.0	6,403.1	6,344.6	6,344.6	23.1	127.3	8.29	-3,511.9	-1,489.1	3,814.6	3,664.6	149.97	25.435	
6,550.0	6,452.8	6,394.3	6,394.3	23.1	128.3	8.36	-3,511.9	-1,489.1	3,809.4	3,659.4	149.93	25.408	
6,594.5	6,496.6	6,438.1	6,438.1	23.2	129.2	8.47	-3,511.9	-1,489.1	3,801.8	3,652.6	149.27	25.470	
6,600.0	6,502.0	6,443.5	6,443.5	23.2	129.3	8.48	-3,511.9	-1,489.1	3,800.7	3,651.6	149.15	25.483	
6,650.0	6,550.5	6,492.0	6,492.0	23.2	130.3	8.66	-3,511.9	-1,489.1	3,788.7	3,641.1	147.63	25.663	
6,692.9	6,591.4	6,532.9	6,532.9	23.2	131.1	8.85	-3,511.9	-1,489.1	3,775.8	3,630.0	145.74	25.907	
6,700.0	6,598.0	6,539.5	6,539.5	23.2	131.2	8.89	-3,511.9	-1,489.1	3,773.4	3,628.0	145.38	25.955	
6,750.0	6,644.4	6,585.9	6,585.9	23.2	132.2	9.19	-3,511.9	-1,489.1	3,754.8	3,612.4	142.40	26.368	
6,791.3	6,681.6	6,623.1	6,623.1	23.2	132.9	9.49	-3,511.9	-1,489.1	3,737.1	3,597.7	139.40	26.808	
6,800.0	6,689.3	6,630.8	6,630.8	23.2	133.1	9.56	-3,511.9	-1,489.1	3,733.1	3,594.4	138.72	26.912	
6,850.0	6,732.6	6,674.1	6,674.1	23.2	133.9	10.01	-3,511.9	-1,489.1	3,708.3	3,574.0	134.35	27.601	
6,889.7	6,765.7	6,707.2	6,707.2	23.2	134.6	10.44	-3,511.9	-1,489.1	3,686.6	3,556.1	130.43	28.264	
6,900.0	6,774.0	6,715.5	6,715.5	23.2	134.8	10.56	-3,511.9	-1,489.1	3,680.7	3,551.3	129.36	28.453	
6,950.0	6,813.3	6,754.8	6,754.8	23.2	135.6	11.23	-3,511.9	-1,489.1	3,650.2	3,526.4	123.80	29.484	
6,988.2	6,841.9	6,783.4	6,783.4	23.2	136.1	11.84	-3,511.9	-1,489.1	3,625.2	3,505.9	119.24	30.403	
7,000.0	6,850.5	6,792.0	6,792.0	23.2	136.3	12.05	-3,511.9	-1,489.1	3,617.1	3,499.3	117.78	30.712	
7,050.0	6,885.2	6,826.7	6,826.7	23.2	137.0	13.06	-3,511.9	-1,489.1	3,581.5	3,470.1	111.42	32.145	
7,086.6	6,908.9	6,850.4	6,850.4	23.2	137.5	13.94	-3,511.9	-1,489.1	3,554.0	3,447.4	106.67	33.318	
7,100.0	6,917.3	6,858.8	6,858.8	23.2	137.7	14.30	-3,511.9	-1,489.1	3,543.7	3,438.7	104.94	33.769	
7,150.0	6,946.6	6,888.1	6,888.1	23.2	138.2	15.85	-3,511.9	-1,489.1	3,503.7	3,405.0	98.66	35.514	
7,185.0	6,965.5	6,907.0	6,907.0	23.3	138.6	17.18	-3,511.9	-1,489.1	3,474.5	3,379.9	94.65	36.710	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	6,973.1	6,914.6	6,914.6	23.3	138.8	17.82	-3,511.9	-1,489.1	3,461.8	3,368.7	93.08	37.191	
7,250.0	6,996.5	6,938.0	6,938.0	23.3	139.2	20.39	-3,511.9	-1,489.1	3,418.2	3,329.2	89.01	38.402	
7,283.4	7,010.4	6,951.9	6,951.9	23.4	139.5	22.55	-3,511.9	-1,489.1	3,388.2	3,300.5	87.71	38.628	
7,300.0	7,016.8	6,958.3	6,958.3	23.4	139.7	23.80	-3,511.9	-1,489.1	3,373.1	3,285.5	87.65	38.482	
7,350.0	7,033.8	6,975.3	6,975.3	23.5	140.0	28.48	-3,511.9	-1,489.1	3,326.8	3,236.1	90.67	36.692	
7,381.9	7,043.0	6,984.5	6,984.5	23.6	140.2	32.44	-3,511.9	-1,489.1	3,296.7	3,200.9	95.73	34.436	
7,400.0	7,047.6	6,989.1	6,989.1	23.6	140.3	35.14	-3,511.9	-1,489.1	3,279.4	3,179.5	99.90	32.825	
7,450.0	7,057.9	6,999.4	6,999.4	23.8	140.5	44.92	-3,511.9	-1,489.1	3,231.2	3,114.6	116.61	27.710	
7,480.3	7,062.5	7,004.0	7,004.0	23.9	140.6	53.02	-3,511.9	-1,489.1	3,201.7	3,071.7	129.91	24.645	
7,500.0	7,064.8	7,006.3	7,006.3	24.0	140.6	59.36	-3,511.9	-1,489.1	3,182.4	3,043.3	139.05	22.887	
7,550.0	7,068.3	7,009.8	7,009.8	24.2	140.7	79.17	-3,511.9	-1,489.1	3,133.3	2,975.9	157.35	19.912	
7,578.7	7,068.7	7,010.2	7,010.2	24.4	140.7	91.94	-3,511.9	-1,489.1	3,105.0	2,945.4	159.64	19.450	
7,578.9	7,068.7	7,010.2	7,010.2	24.4	140.7	92.00	-3,511.9	-1,489.1	3,104.9	2,945.2	159.64	19.450	
7,600.0	7,068.6	7,010.1	7,010.1	24.5	140.7	91.99	-3,511.9	-1,489.1	3,084.1	2,924.2	159.84	19.294	
7,677.1	7,068.1	7,009.6	7,009.6	25.1	140.7	91.94	-3,511.9	-1,489.1	3,008.2	2,847.6	160.58	18.733	
7,700.0	7,067.9	7,009.4	7,009.4	25.2	140.7	91.93	-3,511.9	-1,489.1	2,985.7	2,824.9	160.80	18.568	
7,775.6	7,067.4	7,008.9	7,008.9	25.9	140.7	91.88	-3,511.9	-1,489.1	2,911.5	2,749.8	161.61	18.016	
7,800.0	7,067.3	7,008.8	7,008.8	26.1	140.7	91.86	-3,511.9	-1,489.1	2,887.5	2,725.6	161.87	17.838	
7,874.0	7,066.8	7,008.3	7,008.3	26.8	140.7	91.81	-3,511.9	-1,489.1	2,814.9	2,652.0	162.81	17.289	
7,900.0	7,066.7	7,008.2	7,008.2	27.0	140.7	91.79	-3,511.9	-1,489.1	2,789.4	2,626.2	163.14	17.098	
7,972.4	7,066.2	7,007.7	7,007.7	27.8	140.6	91.75	-3,511.9	-1,489.1	2,718.4	2,554.3	164.13	16.563	
8,000.0	7,066.0	7,007.5	7,007.5	28.1	140.6	91.73	-3,511.9	-1,489.1	2,691.4	2,526.9	164.50	16.361	
8,070.8	7,065.6	7,007.1	7,007.1	28.9	140.6	91.68	-3,511.9	-1,489.1	2,622.1	2,456.6	165.51	15.842	
8,100.0	7,065.4	7,006.9	7,006.9	29.3	140.6	91.66	-3,511.9	-1,489.1	2,593.6	2,427.6	165.93	15.630	
8,169.3	7,065.0	7,006.5	7,006.5	30.2	140.6	91.62	-3,511.9	-1,489.1	2,525.9	2,358.9	166.96	15.129	
8,200.0	7,064.8	7,006.3	7,006.3	30.6	140.6	91.60	-3,511.9	-1,489.1	2,495.9	2,328.5	167.42	14.908	
8,267.7	7,064.4	7,005.9	7,005.9	31.5	140.6	91.55	-3,511.9	-1,489.1	2,429.9	2,261.5	168.46	14.424	
8,300.0	7,064.2	7,005.7	7,005.7	31.9	140.6	91.53	-3,511.9	-1,489.1	2,398.5	2,229.5	168.96	14.195	
8,366.1	7,063.7	7,005.2	7,005.2	32.8	140.6	91.49	-3,511.9	-1,489.1	2,334.1	2,164.1	170.01	13.729	
8,400.0	7,063.5	7,005.0	7,005.0	33.3	140.6	91.47	-3,511.9	-1,489.1	2,301.2	2,130.7	170.55	13.493	
8,464.5	7,063.1	7,004.6	7,004.6	34.2	140.6	91.42	-3,511.9	-1,489.1	2,238.6	2,067.0	171.59	13.046	
8,500.0	7,062.9	7,004.4	7,004.4	34.8	140.6	91.40	-3,511.9	-1,489.1	2,204.3	2,032.1	172.17	12.803	
8,563.0	7,062.5	7,004.0	7,004.0	35.7	140.6	91.36	-3,511.9	-1,489.1	2,143.3	1,970.1	173.21	12.374	
8,600.0	7,062.3	7,003.8	7,003.8	36.3	140.6	91.34	-3,511.9	-1,489.1	2,107.5	1,933.7	173.82	12.125	
8,661.4	7,061.9	7,003.4	7,003.4	37.2	140.6	91.30	-3,511.9	-1,489.1	2,048.3	1,873.5	174.85	11.715	
8,700.0	7,061.6	7,003.1	7,003.1	37.8	140.6	91.27	-3,511.9	-1,489.1	2,011.2	1,835.7	175.50	11.460	
8,759.8	7,061.3	7,002.8	7,002.8	38.8	140.5	91.23	-3,511.9	-1,489.1	1,953.7	1,777.2	176.52	11.068	
8,800.0	7,061.0	7,002.5	7,002.5	39.4	140.5	91.20	-3,511.9	-1,489.1	1,915.2	1,738.0	177.20	10.808	
8,858.2	7,060.6	7,002.1	7,002.1	40.3	140.5	91.17	-3,511.9	-1,489.1	1,859.4	1,681.2	178.21	10.434	
8,900.0	7,060.4	7,001.9	7,001.9	41.0	140.5	91.14	-3,511.9	-1,489.1	1,819.6	1,640.6	178.92	10.170	
8,956.7	7,060.0	7,001.5	7,001.5	41.9	140.5	91.10	-3,511.9	-1,489.1	1,765.6	1,585.7	179.91	9.814	
9,000.0	7,059.8	7,001.3	7,001.3	42.6	140.5	91.07	-3,511.9	-1,489.1	1,724.5	1,543.8	180.66	9.545	
9,055.1	7,059.4	7,000.9	7,000.9	43.6	140.5	91.04	-3,511.9	-1,489.1	1,672.3	1,490.7	181.63	9.207	
9,100.0	7,059.1	7,000.6	7,000.6	44.3	140.5	91.01	-3,511.9	-1,489.1	1,630.0	1,447.6	182.42	8.936	
9,153.5	7,058.8	7,000.3	7,000.3	45.2	140.5	90.97	-3,511.9	-1,489.1	1,579.7	1,396.3	183.36	8.615	
9,200.0	7,058.5	7,000.0	7,000.0	46.0	140.5	90.94	-3,511.9	-1,489.1	1,536.2	1,352.0	184.19	8.341	
9,251.9	7,058.2	6,999.7	6,999.7	46.9	140.5	90.91	-3,511.9	-1,489.1	1,487.8	1,302.7	185.11	8.037	
9,300.0	7,057.9	6,999.4	6,999.4	47.7	140.5	90.88	-3,511.9	-1,489.1	1,443.2	1,257.3	185.96	7.761	
9,350.4	7,057.6	6,999.1	6,999.1	48.6	140.5	90.84	-3,511.9	-1,489.1	1,396.8	1,209.9	186.87	7.475	
9,400.0	7,057.2	6,998.7	6,998.7	49.4	140.5	90.81	-3,511.9	-1,489.1	1,351.3	1,163.5	187.75	7.197	
9,448.8	7,056.9	6,998.4	6,998.4	50.3	140.5	90.78	-3,511.9	-1,489.1	1,306.8	1,118.2	188.63	6.928	
9,500.0	7,056.6	6,998.1	6,998.1	51.1	140.5	90.74	-3,511.9	-1,489.1	1,260.5	1,071.0	189.55	6.650	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,547.2	7,056.3	6,997.8	6,997.8	52.0	140.4	90.71	-3,511.9	-1,489.1	1,218.2	1,027.8	190.41	6.398	
9,600.0	7,056.0	6,997.5	6,997.5	52.9	140.4	90.68	-3,511.9	-1,489.1	1,171.3	980.0	191.36	6.121	
9,645.6	7,055.7	6,997.2	6,997.2	53.7	140.4	90.65	-3,511.9	-1,489.1	1,131.2	939.0	192.19	5.886	
9,700.0	7,055.4	6,996.9	6,996.9	54.6	140.4	90.61	-3,511.9	-1,489.1	1,084.0	890.8	193.17	5.611	
9,744.1	7,055.1	6,996.6	6,996.6	55.4	140.4	90.58	-3,511.9	-1,489.1	1,046.2	852.2	193.98	5.393	
9,800.0	7,054.7	6,996.2	6,996.2	56.4	140.4	90.55	-3,511.9	-1,489.1	999.0	804.0	194.99	5.123	
9,842.5	7,054.5	6,996.0	6,996.0	57.2	140.4	90.52	-3,511.9	-1,489.1	963.8	768.0	195.77	4.923	
9,900.0	7,054.1	6,995.6	6,995.6	58.2	140.4	90.48	-3,511.9	-1,489.1	917.1	720.3	196.82	4.659	
9,940.9	7,053.8	6,995.3	6,995.3	58.9	140.4	90.46	-3,511.9	-1,489.1	884.6	687.1	197.57	4.478	
10,000.0	7,053.5	6,995.0	6,995.0	60.0	140.4	90.42	-3,511.9	-1,489.1	839.1	640.4	198.65	4.224	
10,039.3	7,053.2	6,994.7	6,994.7	60.7	140.4	90.39	-3,511.9	-1,489.1	809.7	610.3	199.38	4.061	
10,100.0	7,052.8	6,994.3	6,994.3	61.8	140.4	90.35	-3,511.9	-1,489.1	766.2	565.7	200.49	3.822	
10,137.8	7,052.6	6,994.1	6,994.1	62.4	140.4	90.33	-3,511.9	-1,489.1	740.3	539.1	201.18	3.680	
10,200.0	7,052.2	6,993.7	6,993.7	63.6	140.4	90.29	-3,511.9	-1,489.1	700.1	497.7	202.33	3.460	
10,236.2	7,052.0	6,993.5	6,993.5	64.2	140.4	90.26	-3,511.9	-1,489.1	678.2	475.2	203.00	3.341	
10,300.0	7,051.6	6,993.1	6,993.1	65.4	140.4	90.22	-3,511.9	-1,489.1	642.7	438.6	204.17	3.148	
10,334.6	7,051.4	6,992.9	6,992.9	66.0	140.3	90.20	-3,511.9	-1,489.1	625.4	420.6	204.81	3.053	
10,400.0	7,051.0	6,992.5	6,992.5	67.2	140.3	90.15	-3,511.9	-1,489.1	596.8	390.7	206.02	2.897	
10,433.0	7,050.7	6,992.2	6,992.2	67.8	140.3	90.13	-3,511.9	-1,489.1	584.5	377.9	206.64	2.829	
10,500.0	7,050.3	6,991.8	6,991.8	69.0	140.3	90.09	-3,511.9	-1,489.1	564.9	357.0	207.87	2.718	
10,531.5	7,050.1	6,991.6	6,991.6	69.6	140.3	90.07	-3,511.9	-1,489.1	558.2	349.8	208.46	2.678	
10,600.0	7,049.7	6,991.2	6,991.2	70.8	140.3	90.02	-3,511.9	-1,489.1	549.7	339.9	209.73	2.621	
10,629.9	7,049.5	6,991.0	6,991.0	71.4	140.3	90.00	-3,511.9	-1,489.1	548.6	338.3	210.28	2.609	
10,635.0	7,049.5	6,991.0	6,991.0	71.5	140.3	90.00	-3,511.9	-1,489.1	548.6	338.2	210.38	2.607 CC, ES, SF	
10,700.0	7,049.1	6,990.6	6,990.6	72.7	140.3	89.96	-3,511.9	-1,489.1	552.4	340.8	211.59	2.611	
10,728.3	7,048.9	6,990.4	6,990.4	73.2	140.3	89.94	-3,511.9	-1,489.1	556.5	344.3	212.11	2.623	
10,800.0	7,048.4	6,989.9	6,989.9	74.5	140.3	89.89	-3,511.9	-1,489.1	572.9	359.4	213.45	2.684	
10,826.7	7,048.3	6,989.8	6,989.8	75.0	140.3	89.87	-3,511.9	-1,489.1	581.1	367.2	213.94	2.716	
10,900.0	7,047.8	6,989.3	6,989.3	76.3	140.3	89.83	-3,511.9	-1,489.1	609.2	393.9	215.31	2.830	
10,925.2	7,047.7	6,989.2	6,989.2	76.8	140.3	89.81	-3,511.9	-1,489.1	620.6	404.8	215.78	2.876	
11,000.0	7,047.2	6,988.7	6,988.7	78.2	140.3	89.76	-3,511.9	-1,489.1	658.9	441.7	217.17	3.034	
11,023.6	7,047.0	6,988.5	6,988.5	78.6	140.3	89.74	-3,511.9	-1,489.1	672.3	454.7	217.61	3.089	
11,100.0	7,046.6	6,988.1	6,988.1	80.0	140.3	89.69	-3,511.9	-1,489.1	719.2	500.1	219.04	3.283	
11,122.0	7,046.4	6,987.9	6,987.9	80.4	140.2	89.68	-3,511.9	-1,489.1	733.6	514.1	219.45	3.343	
11,200.0	7,045.9	6,987.4	6,987.4	81.9	140.2	89.63	-3,511.9	-1,489.1	787.5	566.6	220.91	3.565	
11,220.4	7,045.8	6,987.3	6,987.3	82.3	140.2	89.62	-3,511.9	-1,489.1	802.3	581.0	221.29	3.626	
11,300.0	7,045.3	6,986.8	6,986.8	83.7	140.2	89.56	-3,511.9	-1,489.1	862.1	639.3	222.78	3.870	
11,318.9	7,045.2	6,986.7	6,986.7	84.1	140.2	89.55	-3,511.9	-1,489.1	876.7	653.6	223.13	3.929	
11,400.0	7,044.7	6,986.2	6,986.2	85.6	140.2	89.50	-3,511.9	-1,489.1	941.4	716.7	224.65	4.190	
11,417.3	7,044.6	6,986.1	6,986.1	85.9	140.2	89.49	-3,511.9	-1,489.1	955.5	730.5	224.97	4.247	
11,500.0	7,044.0	6,985.5	6,985.5	87.5	140.2	89.43	-3,511.9	-1,489.1	1,024.3	797.8	226.52	4.522	
11,515.7	7,043.9	6,985.4	6,985.4	87.7	140.2	89.42	-3,511.9	-1,489.1	1,037.6	810.8	226.81	4.575	
11,600.0	7,043.4	6,984.9	6,984.9	89.3	140.2	89.37	-3,511.9	-1,489.1	1,110.0	881.7	228.39	4.860	
11,614.1	7,043.3	6,984.8	6,984.8	89.6	140.2	89.36	-3,511.9	-1,489.1	1,122.4	893.7	228.66	4.909	
11,700.0	7,042.8	6,984.3	6,984.3	91.2	140.2	89.30	-3,511.9	-1,489.1	1,198.0	967.7	230.27	5.203	
11,712.6	7,042.7	6,984.2	6,984.2	91.4	140.2	89.29	-3,511.9	-1,489.1	1,209.2	978.7	230.50	5.246	
11,800.0	7,042.2	6,983.7	6,983.7	93.0	140.2	89.24	-3,511.9	-1,489.1	1,287.7	1,055.6	232.14	5.547	
11,811.0	7,042.1	6,983.6	6,983.6	93.2	140.2	89.23	-3,511.9	-1,489.1	1,297.7	1,065.3	232.35	5.585	
11,900.0	7,041.5	6,983.0	6,983.0	94.9	140.2	89.17	-3,511.9	-1,489.1	1,378.8	1,144.8	234.02	5.892	
11,909.4	7,041.5	6,983.0	6,983.0	95.1	140.2	89.16	-3,511.9	-1,489.1	1,387.5	1,153.3	234.19	5.925	
12,000.0	7,040.9	6,982.4	6,982.4	96.8	140.1	89.10	-3,511.9	-1,489.1	1,471.1	1,235.2	235.89	6.236	
12,007.8	7,040.8	6,982.3	6,982.3	96.9	140.1	89.10	-3,511.9	-1,489.1	1,478.4	1,242.4	236.04	6.263	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,100.0	7,040.3	6,981.8	6,981.8	98.7	140.1	89.04	-3,511.9	-1,489.1	1,564.4	1,326.6	237.77	6.579	
12,106.3	7,040.2	6,981.7	6,981.7	98.8	140.1	89.03	-3,511.9	-1,489.1	1,570.2	1,332.3	237.89	6.601	
12,200.0	7,039.6	6,981.1	6,981.1	100.5	140.1	88.97	-3,511.9	-1,489.1	1,658.4	1,418.7	239.65	6.920	
12,204.7	7,039.6	6,981.1	6,981.1	100.6	140.1	88.97	-3,511.9	-1,489.1	1,662.8	1,423.1	239.74	6.936	
12,300.0	7,039.0	6,980.5	6,980.5	102.4	140.1	88.91	-3,511.9	-1,489.1	1,753.1	1,511.5	241.53	7.258	
12,303.1	7,039.0	6,980.5	6,980.5	102.5	140.1	88.90	-3,511.9	-1,489.1	1,756.0	1,514.4	241.59	7.269	
12,400.0	7,038.4	6,979.9	6,979.9	104.3	140.1	88.84	-3,511.9	-1,489.1	1,848.3	1,604.9	243.41	7.593	
12,401.5	7,038.4	6,979.9	6,979.9	104.3	140.1	88.84	-3,511.9	-1,489.1	1,849.8	1,606.3	243.44	7.598	
12,500.0	7,037.8	6,979.3	6,979.3	106.2	140.1	88.78	-3,511.9	-1,489.1	1,944.0	1,698.7	245.29	7.925	
12,598.4	7,037.1	6,978.6	6,978.6	108.0	140.1	88.71	-3,511.9	-1,489.1	2,038.6	1,791.5	247.14	8.249	
12,600.0	7,037.1	6,978.6	6,978.6	108.0	140.1	88.71	-3,511.9	-1,489.1	2,040.1	1,793.0	247.17	8.254	
12,696.8	7,036.5	6,978.0	6,978.0	109.9	140.1	88.65	-3,511.9	-1,489.1	2,133.6	1,884.6	248.99	8.569	
12,700.0	7,036.5	6,978.0	6,978.0	109.9	140.1	88.64	-3,511.9	-1,489.1	2,136.6	1,887.6	249.05	8.579	
12,795.2	7,035.9	6,977.4	6,977.4	111.7	140.0	88.58	-3,511.9	-1,489.1	2,228.8	1,978.0	250.85	8.885	
12,800.0	7,035.9	6,977.4	6,977.4	111.8	140.0	88.58	-3,511.9	-1,489.1	2,233.4	1,982.5	250.93	8.900	
12,893.7	7,035.3	6,976.8	6,976.8	113.6	140.0	88.52	-3,511.9	-1,489.1	2,324.3	2,071.6	252.70	9.198	
12,900.0	7,035.2	6,976.7	6,976.7	113.7	140.0	88.51	-3,511.9	-1,489.1	2,330.5	2,077.7	252.82	9.218	
12,992.1	7,034.7	6,976.2	6,976.2	115.4	140.0	88.45	-3,511.9	-1,489.1	2,420.1	2,165.5	254.55	9.507	
13,000.0	7,034.6	6,976.1	6,976.1	115.6	140.0	88.45	-3,511.9	-1,489.1	2,427.8	2,173.1	254.70	9.532	
13,090.5	7,034.0	6,975.5	6,975.5	117.3	140.0	88.39	-3,511.9	-1,489.1	2,516.0	2,259.6	256.40	9.813	
13,100.0	7,034.0	6,975.5	6,975.5	117.5	140.0	88.38	-3,511.9	-1,489.1	2,525.3	2,268.7	256.58	9.842	
13,188.9	7,033.4	6,974.9	6,974.9	119.1	140.0	88.32	-3,511.9	-1,489.1	2,612.2	2,353.9	258.26	10.115	
13,200.0	7,033.4	6,974.9	6,974.9	119.3	140.0	88.32	-3,511.9	-1,489.1	2,623.0	2,364.5	258.46	10.148	
13,287.4	7,032.8	6,974.3	6,974.3	121.0	140.0	88.26	-3,511.9	-1,489.1	2,708.5	2,448.4	260.11	10.413	
13,300.0	7,032.7	6,974.2	6,974.2	121.2	140.0	88.25	-3,511.9	-1,489.1	2,720.9	2,460.5	260.35	10.451	
13,385.8	7,032.2	6,973.7	6,973.7	122.9	140.0	88.19	-3,511.9	-1,489.1	2,805.0	2,543.0	261.96	10.707	
13,400.0	7,032.1	6,973.6	6,973.6	123.1	140.0	88.19	-3,511.9	-1,489.1	2,818.9	2,556.6	262.23	10.750	
13,484.2	7,031.6	6,973.1	6,973.1	124.7	140.0	88.13	-3,511.9	-1,489.1	2,901.5	2,637.7	263.82	10.998	
13,500.0	7,031.5	6,973.0	6,973.0	125.0	139.9	88.12	-3,511.9	-1,489.1	2,917.0	2,652.9	264.11	11.045	
13,582.6	7,030.9	6,972.4	6,972.4	126.6	139.9	88.07	-3,511.9	-1,489.1	2,998.2	2,732.6	265.67	11.286	
13,600.0	7,030.8	6,972.3	6,972.3	126.9	139.9	88.05	-3,511.9	-1,489.1	3,015.3	2,749.3	266.00	11.336	
13,681.1	7,030.3	6,971.8	6,971.8	128.4	139.9	88.00	-3,511.9	-1,489.1	3,095.1	2,827.5	267.52	11.569	
13,700.0	7,030.2	6,971.7	6,971.7	128.8	139.9	87.99	-3,511.9	-1,489.1	3,113.7	2,845.8	267.88	11.623	
13,779.5	7,029.7	6,971.2	6,971.2	130.3	139.9	87.94	-3,511.9	-1,489.1	3,192.0	2,922.6	269.38	11.849	
13,800.0	7,029.6	6,971.1	6,971.1	130.7	139.9	87.92	-3,511.9	-1,489.1	3,212.2	2,942.4	269.76	11.907	
13,877.9	7,029.1	6,970.6	6,970.6	132.2	139.9	87.87	-3,511.9	-1,489.1	3,289.0	3,017.7	271.23	12.126	
13,900.0	7,029.0	6,970.5	6,970.5	132.6	139.9	87.86	-3,511.9	-1,489.1	3,310.7	3,039.1	271.65	12.188	
13,976.3	7,028.5	6,970.0	6,970.0	134.0	139.9	87.81	-3,511.9	-1,489.1	3,386.1	3,113.0	273.08	12.399	
14,000.0	7,028.3	6,969.8	6,969.8	134.5	139.9	87.79	-3,511.9	-1,489.1	3,409.4	3,135.9	273.53	12.464	
14,074.8	7,027.9	6,969.4	6,969.4	135.9	139.9	87.74	-3,511.9	-1,489.1	3,483.2	3,208.3	274.94	12.669	
14,100.0	7,027.7	6,969.2	6,969.2	136.4	139.9	87.73	-3,511.9	-1,489.1	3,508.1	3,232.7	275.41	12.738	
14,173.2	7,027.2	6,968.7	6,968.7	137.8	139.9	87.68	-3,511.9	-1,489.1	3,580.4	3,303.7	276.79	12.936	
14,200.0	7,027.1	6,968.6	6,968.6	138.3	139.9	87.66	-3,511.9	-1,489.1	3,606.9	3,329.6	277.30	13.008	
14,210.5	7,027.0	6,968.5	6,968.5	138.5	139.9	87.65	-3,511.9	-1,489.1	3,617.3	3,339.8	277.49	13.036	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-168.23	-655.8	-136.6	670.3				
98.4	98.4	73.4	73.4	0.1	0.1	-168.21	-655.7	-136.9	669.8	669.7	0.15	4,508.059	
100.0	100.0	75.0	75.0	0.1	0.1	-168.21	-655.7	-136.9	669.8	669.7	0.15	4,421.230	
196.8	196.8	175.1	175.1	0.3	0.2	-168.13	-655.2	-137.7	669.5	669.1	0.49	1,375.213	
200.0	200.0	178.4	178.4	0.3	0.2	-168.13	-655.2	-137.7	669.5	669.0	0.50	1,343.619	
295.3	295.3	270.5	270.5	0.5	0.3	-168.09	-654.7	-138.1	669.1	668.3	0.79	849.047	
300.0	300.0	275.0	275.0	0.5	0.3	-168.09	-654.7	-138.1	669.1	668.3	0.80	834.640	
393.7	393.7	372.2	372.2	0.8	0.3	-168.02	-654.4	-138.8	668.9	667.9	1.08	622.097	
400.0	400.0	379.0	379.0	0.8	0.3	-168.02	-654.3	-138.9	668.9	667.8	1.09	611.536	
492.1	492.1	474.6	474.5	1.0	0.4	-167.95	-653.2	-139.4	668.0	666.6	1.36	492.899	
500.0	500.0	482.7	482.6	1.0	0.4	-167.95	-653.1	-139.5	667.9	666.5	1.38	484.909	
590.5	590.5	578.5	578.4	1.2	0.4	-167.91	-651.6	-139.6	666.5	664.8	1.63	408.510	
600.0	600.0	588.5	588.5	1.2	0.5	-167.90	-651.3	-139.6	666.3	664.6	1.66	401.861	
689.0	689.0	675.0	674.9	1.4	0.5	-167.83	-649.5	-140.1	664.5	662.6	1.90	349.697	
700.0	700.0	685.6	685.5	1.4	0.5	-167.82	-649.3	-140.2	664.3	662.4	1.93	344.185	
787.4	787.4	775.2	775.1	1.6	0.6	-167.73	-647.5	-140.8	662.8	660.6	2.17	305.911	
800.0	800.0	788.3	788.2	1.7	0.6	-167.72	-647.2	-140.9	662.5	660.3	2.20	301.057	
885.8	885.8	873.1	873.0	1.9	0.6	-167.66	-645.4	-141.2	660.8	658.4	2.43	272.125	
900.0	900.0	887.0	886.9	1.9	0.6	-167.65	-645.1	-141.3	660.5	658.1	2.47	267.881	
984.2	984.2	966.3	966.2	2.1	0.6	-167.61	-643.8	-141.5	659.2	656.5	2.69	245.489	
1,000.0	1,000.0	981.0	980.9	2.1	0.7	-167.60	-643.7	-141.5	659.1	656.3	2.73	241.741	
1,082.7	1,082.7	1,062.8	1,062.6	2.3	0.7	-167.57	-642.9	-141.7	658.4	655.4	2.94	223.789	
1,100.0	1,100.0	1,080.2	1,080.1	2.3	0.7	-167.56	-642.8	-141.8	658.2	655.2	2.99	220.350	
1,181.1	1,181.1	1,162.3	1,162.2	2.5	0.7	-93.46	-641.9	-142.2	657.6	654.3	3.22	203.973	
1,200.0	1,200.0	1,181.4	1,181.3	2.6	0.7	-93.51	-641.7	-142.2	657.4	654.1	3.27	200.919	
1,279.5	1,279.4	1,260.6	1,260.5	2.7	0.8	-93.85	-640.9	-142.1	656.8	653.4	3.47	189.090	
1,300.0	1,299.8	1,280.9	1,280.7	2.8	0.8	-93.96	-640.7	-142.1	656.7	653.2	3.53	186.267	
1,358.5	1,358.1	1,337.2	1,337.1	2.9	0.8	-94.35	-640.2	-142.1	656.5	652.9	3.68	178.577 CC	
1,377.9	1,377.5	1,355.8	1,355.6	2.9	0.8	-94.50	-640.1	-142.1	656.6	652.8	3.73	176.205 ES	
1,400.0	1,399.5	1,376.7	1,376.6	3.0	0.8	-94.69	-640.0	-142.0	656.6	652.9	3.78	173.606	
1,476.4	1,475.3	1,452.9	1,452.8	3.2	0.8	-95.47	-639.7	-141.9	657.2	653.2	3.99	164.708	
1,500.0	1,498.7	1,477.0	1,476.9	3.2	0.8	-95.74	-639.6	-141.9	657.4	653.3	4.05	162.149	
1,574.8	1,572.6	1,549.9	1,549.8	3.4	0.9	-96.66	-639.2	-142.1	658.2	653.9	4.28	153.773	
1,600.0	1,597.5	1,574.0	1,573.8	3.5	0.9	-96.99	-639.1	-142.2	658.6	654.3	4.36	151.163	
1,673.2	1,669.4	1,645.3	1,645.2	3.7	0.9	-98.08	-638.9	-142.5	660.3	655.7	4.61	143.289	
1,700.2	1,695.8	1,671.9	1,671.8	3.8	0.9	-98.51	-638.8	-142.6	661.1	656.4	4.70	140.619	
1,771.6	1,765.7	1,742.1	1,741.9	4.1	0.9	-99.74	-638.6	-142.9	663.3	658.3	4.97	133.458	
1,800.0	1,793.4	1,769.9	1,769.7	4.2	0.9	-100.23	-638.5	-142.9	664.3	659.2	5.08	130.848	
1,870.1	1,862.0	1,836.2	1,836.0	4.4	0.9	-101.39	-638.4	-142.9	666.9	661.6	5.34	124.846	
1,900.0	1,891.2	1,863.6	1,863.5	4.5	0.9	-101.88	-638.5	-142.9	668.3	662.8	5.45	122.590	
1,968.5	1,958.3	1,929.2	1,929.0	4.8	0.9	-103.03	-638.9	-142.8	671.8	666.1	5.71	117.585	
2,000.0	1,989.1	1,960.9	1,960.8	4.9	0.9	-103.59	-639.0	-142.6	673.5	667.7	5.83	115.433	
2,066.9	2,054.5	2,026.1	2,025.9	5.2	1.0	-104.75	-639.2	-142.1	677.2	671.1	6.10	111.034	
2,100.0	2,086.9	2,056.7	2,056.5	5.3	1.0	-105.29	-639.4	-141.8	679.2	673.0	6.23	109.032	
2,165.3	2,150.8	2,118.3	2,118.2	5.6	1.0	-106.36	-640.0	-141.5	683.6	677.1	6.49	105.307	
2,200.0	2,184.7	2,152.5	2,152.4	5.7	1.0	-106.94	-640.3	-141.4	686.1	679.5	6.63	103.490	
2,263.8	2,247.1	2,215.1	2,214.9	6.0	1.0	-107.98	-640.9	-141.3	690.8	683.9	6.89	100.308	
2,300.0	2,282.5	2,249.9	2,249.7	6.1	1.0	-108.55	-641.3	-141.3	693.6	686.5	7.03	98.633	
2,362.2	2,343.3	2,309.6	2,309.5	6.4	1.0	-109.52	-642.0	-141.3	698.6	691.3	7.28	95.916	
2,400.0	2,380.3	2,346.2	2,346.0	6.6	1.0	-110.10	-642.4	-141.3	701.8	694.3	7.44	94.381	
2,460.6	2,439.6	2,405.1	2,404.9	6.8	1.0	-111.03	-643.2	-141.3	707.1	699.4	7.68	92.056	
2,500.0	2,478.1	2,445.3	2,445.2	7.0	1.0	-111.66	-643.7	-141.3	710.6	702.7	7.84	90.651	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,505.6	2,505.4	7.2	1.0	-112.58	-644.2	-141.5	715.8	707.7	8.08	88.636	
2,600.0	2,575.9	2,546.6	2,546.4	7.4	1.0	-113.19	-644.5	-141.6	719.5	711.2	8.24	87.315	
2,657.5	2,632.2	2,604.2	2,604.0	7.7	1.0	-114.05	-644.8	-141.8	724.6	716.1	8.47	85.549	
2,700.0	2,673.8	2,646.6	2,646.4	7.8	1.0	-114.67	-645.0	-142.0	728.4	719.8	8.64	84.309	
2,755.9	2,728.4	2,702.2	2,702.0	8.1	1.0	-115.47	-645.1	-142.3	733.6	724.7	8.86	82.757	
2,800.0	2,771.6	2,744.4	2,744.2	8.3	1.0	-116.06	-645.2	-142.6	737.7	728.7	9.04	81.596	
2,854.3	2,824.7	2,796.5	2,796.3	8.5	1.1	-116.78	-645.5	-143.1	743.0	733.7	9.26	80.248	
2,900.0	2,869.4	2,841.0	2,840.8	8.7	1.1	-117.38	-645.8	-143.5	747.6	738.1	9.44	79.190	
2,952.7	2,921.0	2,892.4	2,892.2	8.9	1.1	-118.07	-646.1	-143.9	753.0	743.4	9.65	78.034	
3,000.0	2,967.2	2,939.8	2,939.6	9.2	1.1	-118.70	-646.3	-144.2	757.9	748.1	9.83	77.121	
3,051.2	3,017.3	2,991.2	2,991.0	9.4	1.1	-119.40	-646.5	-144.3	763.3	753.3	10.02	76.192	
3,100.0	3,065.0	3,040.5	3,040.3	9.6	1.1	-120.08	-646.4	-144.2	768.4	758.2	10.20	75.321	
3,149.6	3,113.5	3,090.7	3,090.5	9.8	1.1	-120.76	-646.3	-144.1	773.6	763.2	10.39	74.462	
3,200.0	3,162.8	3,139.0	3,138.8	10.0	1.1	-121.40	-646.2	-144.1	779.0	768.4	10.58	73.643	
3,248.0	3,209.8	3,184.5	3,184.3	10.3	1.1	-121.99	-646.2	-144.3	784.3	773.5	10.76	72.911	
3,300.0	3,260.6	3,233.6	3,233.4	10.5	1.1	-122.60	-646.3	-144.4	790.2	779.2	10.95	72.173	
3,346.4	3,306.1	3,277.4	3,277.2	10.7	1.1	-123.16	-646.4	-144.5	795.7	784.5	11.12	71.556	
3,400.0	3,358.4	3,330.2	3,330.0	10.9	1.1	-123.82	-646.6	-144.4	802.1	790.8	11.31	70.901	
3,444.9	3,402.3	3,376.0	3,375.8	11.1	1.1	-124.40	-646.7	-144.1	807.6	796.1	11.47	70.387	
3,500.0	3,456.3	3,430.9	3,430.7	11.4	1.1	-125.10	-646.6	-143.7	814.2	802.5	11.67	69.761	
3,543.3	3,498.6	3,473.3	3,473.1	11.6	1.1	-125.62	-646.5	-143.5	819.5	807.7	11.83	69.278	
3,600.0	3,554.1	3,526.9	3,526.7	11.8	1.1	-126.27	-646.4	-143.4	826.6	814.5	12.03	68.684	
3,641.7	3,594.9	3,564.8	3,564.6	12.0	1.1	-126.72	-646.5	-143.1	832.0	819.8	12.18	68.283	
3,700.0	3,651.9	3,618.4	3,618.2	12.3	1.1	-127.37	-646.7	-142.5	839.8	827.5	12.39	67.774	
3,740.1	3,691.2	3,656.3	3,656.1	12.5	1.1	-127.82	-647.0	-142.0	845.4	832.9	12.53	67.453	
3,800.0	3,749.7	3,713.0	3,712.7	12.7	1.2	-128.49	-647.4	-141.2	854.0	841.2	12.74	67.012	
3,838.6	3,787.4	3,750.0	3,749.8	12.9	1.2	-128.92	-647.7	-140.7	859.6	846.7	12.88	66.753	
3,900.0	3,847.5	3,809.6	3,809.4	13.2	1.2	-129.61	-648.3	-139.7	868.7	855.6	13.09	66.375	
3,937.0	3,883.7	3,848.2	3,847.9	13.3	1.2	-130.05	-648.5	-139.1	874.2	861.0	13.21	66.171	
4,000.0	3,945.3	3,912.8	3,912.6	13.6	1.2	-130.79	-648.7	-138.0	883.4	870.0	13.42	65.831	
4,035.4	3,980.0	3,947.2	3,947.0	13.8	1.2	-131.17	-648.7	-137.4	888.6	875.0	13.54	65.642	
4,100.0	4,043.1	4,009.6	4,009.4	14.1	1.2	-131.84	-648.9	-136.6	898.1	884.4	13.75	65.314	
4,133.8	4,076.3	4,041.3	4,041.1	14.2	1.2	-132.17	-649.1	-136.3	903.3	889.4	13.86	65.149	
4,200.0	4,141.0	4,103.5	4,103.3	14.5	1.2	-132.81	-649.6	-135.5	913.5	899.4	14.09	64.852	
4,232.3	4,172.5	4,136.3	4,136.0	14.7	1.2	-133.14	-649.8	-135.1	918.5	904.3	14.19	64.724	
4,300.0	4,238.8	4,205.1	4,204.8	15.0	1.2	-133.81	-650.3	-134.5	929.0	914.6	14.41	64.465	
4,330.7	4,268.8	4,236.3	4,236.1	15.1	1.2	-134.11	-650.5	-134.2	933.8	919.3	14.51	64.354	
4,400.0	4,336.6	4,306.1	4,305.8	15.4	1.2	-134.77	-650.7	-133.7	944.4	929.7	14.73	64.109	
4,429.1	4,365.1	4,332.0	4,331.8	15.6	1.3	-135.02	-650.7	-133.4	948.9	934.1	14.83	64.000	
4,500.0	4,434.4	4,395.1	4,394.8	15.9	1.3	-135.61	-651.1	-132.7	960.3	945.3	15.06	63.773	
4,527.5	4,461.3	4,422.2	4,422.0	16.0	1.3	-135.86	-651.4	-132.3	964.9	949.7	15.15	63.702	
4,600.0	4,532.2	4,495.5	4,495.2	16.4	1.3	-136.52	-651.9	-131.4	976.8	961.4	15.38	63.522	
4,626.0	4,557.6	4,522.1	4,521.9	16.5	1.3	-136.75	-652.1	-131.1	981.1	965.6	15.46	63.466	
4,700.0	4,630.0	4,598.6	4,598.3	16.8	1.3	-137.39	-652.6	-130.7	993.1	977.4	15.69	63.304	
4,724.4	4,653.9	4,623.6	4,623.3	16.9	1.3	-137.59	-652.8	-130.7	997.0	981.2	15.76	63.244	
4,800.0	4,727.8	4,700.0	4,699.7	17.3	1.3	-138.19	-653.2	-130.8	1,009.0	993.0	16.00	63.058	
4,822.8	4,750.2	4,721.9	4,721.6	17.4	1.3	-138.37	-653.2	-130.8	1,012.7	996.6	16.07	62.998	
4,900.0	4,825.6	4,793.0	4,792.7	17.7	1.3	-138.91	-653.7	-130.8	1,025.2	1,008.9	16.32	62.816	
4,921.2	4,846.4	4,813.2	4,812.9	17.8	1.3	-139.06	-653.8	-130.8	1,028.8	1,012.4	16.39	62.772	
5,000.0	4,923.5	4,889.7	4,889.4	18.2	1.3	-139.62	-654.6	-130.8	1,041.9	1,025.3	16.64	62.616	
5,019.7	4,942.7	4,909.9	4,909.6	18.3	1.3	-139.76	-654.8	-130.8	1,045.2	1,028.5	16.70	62.584	
5,100.0	5,021.3	4,997.1	4,996.8	18.6	1.4	-140.37	-655.4	-131.2	1,058.4	1,041.5	16.95	62.461	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	5,014.4	5,014.1	18.7	1.4	-140.49	-655.5	-131.3	1,061.3	1,044.3	17.00	62.425	
5,200.0	5,119.1	5,090.9	5,090.6	19.1	1.4	-141.00	-655.9	-131.7	1,074.7	1,057.5	17.26	62.278	
5,216.5	5,135.3	5,106.8	5,106.4	19.2	1.4	-141.11	-656.0	-131.8	1,077.5	1,060.2	17.31	62.252	
5,300.0	5,216.9	5,190.6	5,190.3	19.6	1.4	-141.67	-656.4	-132.1	1,091.3	1,073.8	17.57	62.126	
5,314.9	5,231.5	5,205.5	5,205.2	19.6	1.4	-141.76	-656.5	-132.2	1,093.8	1,076.2	17.61	62.104	
5,400.0	5,314.7	5,289.4	5,289.0	20.0	1.4	-142.31	-656.8	-132.5	1,107.9	1,090.0	17.87	61.988	
5,413.4	5,327.8	5,302.4	5,302.1	20.1	1.4	-142.39	-656.8	-132.5	1,110.1	1,092.2	17.91	61.971	
5,500.0	5,412.5	5,384.2	5,383.9	20.5	1.4	-142.91	-657.1	-132.7	1,124.7	1,106.5	18.18	61.865	
5,511.8	5,424.1	5,395.3	5,395.0	20.5	1.4	-142.98	-657.1	-132.7	1,126.7	1,108.5	18.22	61.852	
5,600.0	5,510.3	5,486.9	5,486.6	20.9	1.4	-143.53	-657.6	-133.2	1,141.6	1,123.1	18.48	61.771	
5,610.2	5,520.3	5,497.6	5,497.3	21.0	1.4	-143.59	-657.7	-133.3	1,143.3	1,124.8	18.51	61.761	
5,700.0	5,608.2	5,586.3	5,586.0	21.4	1.5	-144.09	-658.2	-134.3	1,158.3	1,139.5	18.79	61.656	
5,708.6	5,616.6	5,594.8	5,594.5	21.4	1.5	-144.13	-658.2	-134.4	1,159.7	1,140.9	18.81	61.647	
5,729.2	5,636.7	5,614.5	5,614.1	21.5	1.5	-144.24	-658.4	-134.7	1,163.1	1,144.3	18.88	61.622	
5,800.0	5,706.1	5,681.5	5,681.2	21.8	1.5	-144.71	-658.8	-135.4	1,174.4	1,155.4	18.99	61.837	
5,807.1	5,713.1	5,688.3	5,687.9	21.8	1.5	-144.75	-658.9	-135.4	1,175.4	1,156.4	19.00	61.869	
5,900.0	5,804.7	5,782.8	5,782.4	22.1	1.5	-145.28	-659.5	-136.4	1,188.0	1,168.9	19.10	62.195	
5,905.5	5,810.2	5,788.4	5,788.1	22.1	1.5	-145.31	-659.6	-136.4	1,188.6	1,169.5	19.11	62.212	
6,000.0	5,903.9	5,882.1	5,881.8	22.3	1.5	-145.69	-660.2	-137.7	1,198.6	1,179.4	19.20	62.412	
6,003.9	5,907.8	5,886.0	5,885.7	22.4	1.5	-145.70	-660.2	-137.7	1,199.0	1,179.7	19.21	62.420	
6,100.0	6,003.4	5,983.2	5,982.9	22.6	1.5	-146.00	-660.5	-138.6	1,206.3	1,187.0	19.30	62.505	
6,102.3	6,005.7	5,985.6	5,985.3	22.6	1.5	-146.00	-660.5	-138.6	1,206.5	1,187.2	19.30	62.506	
6,200.0	6,103.2	6,089.7	6,089.4	22.7	1.5	-146.20	-660.4	-139.5	1,210.9	1,191.5	19.39	62.453	
6,200.8	6,104.0	6,090.6	6,090.2	22.7	1.5	-146.20	-660.4	-139.5	1,210.9	1,191.5	19.39	62.452	
6,299.2	6,202.3	6,201.8	6,201.4	22.9	1.6	-146.30	-659.0	-140.4	1,211.7	1,192.2	19.48	62.197	
6,300.0	6,203.1	6,202.6	6,202.2	22.9	1.6	-146.30	-659.0	-140.5	1,211.7	1,192.2	19.48	62.193	
6,329.4	6,232.5	6,232.9	6,232.5	22.9	1.6	139.54	-658.5	-140.8	1,211.2	1,191.7	19.49	62.161	
6,397.6	6,300.8	6,303.3	6,302.9	23.0	1.6	139.55	-657.5	-142.0	1,209.7	1,190.1	19.60	61.725	
6,400.0	6,303.1	6,305.6	6,305.2	23.0	1.6	139.55	-657.4	-142.1	1,209.6	1,190.0	19.60	61.710	
6,449.4	6,352.5	6,355.1	6,354.6	23.1	1.6	139.56	-656.8	-143.0	1,208.5	1,188.8	19.69	61.375	
6,496.0	6,399.2	6,400.0	6,399.6	23.1	1.6	-40.79	-656.2	-143.9	1,206.3	1,186.6	19.72	61.180	
6,500.0	6,403.1	6,400.0	6,399.6	23.1	1.6	-40.81	-656.2	-143.9	1,206.0	1,186.3	19.72	61.167	
6,550.0	6,452.8	6,444.6	6,444.1	23.1	1.6	-41.19	-655.8	-144.8	1,201.1	1,181.4	19.70	60.969	
6,594.5	6,496.6	6,479.9	6,479.5	23.2	1.6	-41.69	-655.9	-145.4	1,194.9	1,175.3	19.67	60.735	
6,600.0	6,502.0	6,484.3	6,483.9	23.2	1.6	-41.76	-655.9	-145.5	1,194.0	1,174.4	19.67	60.706	
6,650.0	6,550.5	6,528.7	6,528.3	23.2	1.6	-42.59	-656.4	-146.2	1,184.7	1,165.1	19.61	60.424	
6,692.9	6,591.4	6,569.1	6,568.7	23.2	1.6	-43.52	-656.8	-146.9	1,174.8	1,155.3	19.52	60.178	
6,700.0	6,598.0	6,575.7	6,575.3	23.2	1.6	-43.70	-656.9	-147.0	1,173.0	1,153.5	19.50	60.142	
6,750.0	6,644.4	6,622.3	6,621.8	23.2	1.6	-45.09	-657.4	-147.7	1,159.0	1,139.7	19.36	59.860	
6,791.3	6,681.6	6,660.3	6,659.8	23.2	1.6	-46.48	-657.9	-148.4	1,145.8	1,126.5	19.22	59.611	
6,800.0	6,689.3	6,668.2	6,667.7	23.2	1.6	-46.80	-658.0	-148.5	1,142.8	1,123.6	19.19	59.562	
6,850.0	6,732.6	6,713.9	6,713.4	23.2	1.6	-48.83	-658.5	-149.4	1,124.5	1,105.5	18.99	59.227	
6,889.7	6,765.7	6,751.6	6,751.0	23.2	1.6	-50.75	-658.9	-150.2	1,108.5	1,089.6	18.82	58.897	
6,900.0	6,774.0	6,761.0	6,760.5	23.2	1.7	-51.28	-659.0	-150.4	1,104.1	1,085.4	18.78	58.809	
6,950.0	6,813.3	6,800.0	6,799.5	23.2	1.7	-53.92	-659.2	-151.4	1,082.0	1,063.4	18.59	58.212	
6,988.2	6,841.9	6,828.5	6,828.0	23.2	1.7	-56.14	-659.3	-152.0	1,064.2	1,045.7	18.47	57.620	
7,000.0	6,850.5	6,835.9	6,835.3	23.2	1.7	-56.82	-659.4	-152.2	1,058.6	1,040.2	18.43	57.425	
7,050.0	6,885.2	6,865.7	6,865.1	23.2	1.7	-59.83	-659.6	-152.7	1,034.2	1,015.9	18.34	56.404	
7,086.6	6,908.9	6,886.2	6,885.6	23.2	1.7	-62.16	-659.8	-153.0	1,016.0	997.7	18.31	55.486	
7,100.0	6,917.3	6,900.0	6,899.5	23.2	1.7	-63.34	-660.0	-153.1	1,009.3	991.0	18.29	55.184	
7,150.0	6,946.6	6,922.2	6,921.6	23.2	1.7	-66.56	-660.2	-153.3	983.9	965.6	18.31	53.730	
7,185.0	6,965.5	6,941.2	6,940.7	23.3	1.7	-69.10	-660.3	-153.4	966.1	947.7	18.35	52.652	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,200.0	6,973.1	6,948.9	6,948.4	23.3	1.7	-70.19	-660.4	-153.5	958.4	940.1	18.38	52.137	
7,250.0	6,996.5	6,972.3	6,971.8	23.3	1.7	-73.79	-660.5	-153.5	933.2	914.7	18.51	50.431	
7,283.4	7,010.4	6,986.1	6,985.6	23.4	1.7	-76.12	-660.5	-153.6	916.7	898.1	18.62	49.238	
7,300.0	7,016.8	6,992.4	6,991.8	23.4	1.7	-77.24	-660.5	-153.6	908.7	890.0	18.68	48.653	
7,350.0	7,033.8	7,000.0	6,999.5	23.5	1.7	-79.82	-660.4	-153.6	885.2	866.3	18.91	46.815	
7,381.9	7,043.0	7,000.0	6,999.5	23.6	1.7	-81.06	-660.4	-153.6	871.1	852.0	19.09	45.629	
7,400.0	7,047.6	7,000.0	6,999.5	23.6	1.7	-81.73	-660.4	-153.6	863.4	844.2	19.20	44.976	
7,450.0	7,057.9	7,000.0	6,999.5	23.8	1.7	-83.45	-660.4	-153.6	843.6	824.0	19.54	43.172	
7,480.3	7,062.5	7,000.0	6,999.5	23.9	1.7	-84.39	-660.4	-153.6	832.6	812.8	19.78	42.096	
7,500.0	7,064.8	7,000.0	6,999.5	24.0	1.7	-84.96	-660.4	-153.6	825.9	806.0	19.94	41.426	
7,550.0	7,068.3	7,000.0	6,999.5	24.2	1.7	-86.24	-660.4	-153.6	810.6	790.2	20.38	39.767	
7,578.7	7,068.7	7,000.0	6,999.5	24.4	1.7	-86.87	-660.4	-153.6	803.0	782.4	20.66	38.862	
7,578.9	7,068.7	7,000.0	6,999.5	24.4	1.7	-86.87	-660.4	-153.6	803.0	782.3	20.66	38.858	
7,600.0	7,068.6	7,000.0	6,999.5	24.5	1.7	-86.87	-660.4	-153.6	798.0	777.1	20.87	38.233	
7,677.1	7,068.1	7,000.0	6,999.5	25.1	1.7	-86.87	-660.4	-153.6	784.3	762.7	21.61	36.298	
7,700.0	7,067.9	7,000.0	6,999.5	25.2	1.7	-86.87	-660.4	-153.6	781.7	759.8	21.83	35.815	
7,775.6	7,067.4	7,000.0	6,999.5	25.9	1.7	-86.87	-660.4	-153.6	777.7	755.1	22.64	34.355	
7,778.8	7,067.4	7,000.0	6,999.5	25.9	1.7	-86.87	-660.4	-153.6	777.7	755.0	22.67	34.301	
7,800.0	7,067.3	7,000.0	6,999.5	26.1	1.7	-86.87	-660.4	-153.6	778.0	755.1	22.90	33.973	
7,874.0	7,066.8	7,000.0	6,999.5	26.8	1.7	-86.87	-660.4	-153.6	783.5	759.6	23.84	32.862	
7,900.0	7,066.7	7,000.0	6,999.5	27.0	1.7	-86.87	-660.4	-153.6	787.1	762.9	24.17	32.560	
7,972.4	7,066.2	7,000.0	6,999.5	27.8	1.7	-86.87	-660.4	-153.6	801.4	776.3	25.16	31.856	
8,000.0	7,066.0	7,000.0	6,999.5	28.1	1.7	-86.87	-660.4	-153.6	808.5	783.0	25.53	31.666	
8,070.8	7,065.6	7,000.0	6,999.5	28.9	1.7	-86.87	-660.4	-153.6	830.7	804.2	26.55	31.291	
8,100.0	7,065.4	7,000.0	6,999.5	29.3	1.7	-86.87	-660.4	-153.6	841.4	814.4	26.96	31.203	
8,169.3	7,065.0	7,000.0	6,999.5	30.2	1.7	-86.87	-660.4	-153.6	870.2	842.2	28.00	31.079	
8,200.0	7,064.8	7,000.0	6,999.5	30.6	1.7	-86.87	-660.4	-153.6	884.4	855.9	28.46	31.078 SF	
8,267.7	7,064.4	7,000.0	6,999.5	31.5	1.7	-86.87	-660.4	-153.6	918.6	889.1	29.50	31.135	
8,300.0	7,064.2	7,000.0	6,999.5	31.9	1.7	-86.87	-660.4	-153.6	936.2	906.2	30.00	31.203	
8,366.1	7,063.7	7,000.0	6,999.5	32.8	1.7	-86.87	-660.4	-153.6	974.5	943.5	31.05	31.384	
8,400.0	7,063.5	7,000.0	6,999.5	33.3	1.7	-86.87	-660.4	-153.6	995.3	963.7	31.59	31.508	
8,464.5	7,063.1	7,000.0	6,999.5	34.2	1.7	-86.87	-660.4	-153.6	1,036.8	1,004.2	32.64	31.767	
8,500.0	7,062.9	7,000.0	6,999.5	34.8	1.7	-86.87	-660.4	-153.6	1,060.6	1,027.4	33.21	31.933	
8,563.0	7,062.5	7,000.0	6,999.5	35.7	1.7	-86.87	-660.4	-153.6	1,104.4	1,070.1	34.26	32.239	
8,600.0	7,062.3	7,000.0	6,999.5	36.3	1.7	-86.87	-660.4	-153.6	1,131.0	1,096.1	34.87	32.435	
8,661.4	7,061.9	7,000.0	6,999.5	37.2	1.7	-86.87	-660.4	-153.6	1,176.3	1,140.4	35.90	32.764	
8,700.0	7,061.6	7,000.0	6,999.5	37.8	1.7	-86.87	-660.4	-153.6	1,205.5	1,169.0	36.55	32.982	
8,759.8	7,061.3	7,000.0	6,999.5	38.8	1.7	-86.87	-660.4	-153.6	1,251.9	1,214.3	37.57	33.319	
8,800.0	7,061.0	7,000.0	6,999.5	39.4	1.7	-86.87	-660.4	-153.6	1,283.6	1,245.3	38.26	33.551	
8,858.2	7,060.6	7,000.0	6,999.5	40.3	1.7	-86.87	-660.4	-153.6	1,330.4	1,291.1	39.26	33.885	
8,900.0	7,060.4	7,000.0	6,999.5	41.0	1.7	-86.87	-660.4	-153.6	1,364.5	1,324.5	39.98	34.127	
8,956.7	7,060.0	7,000.0	6,999.5	41.9	1.7	-86.87	-660.4	-153.6	1,411.4	1,370.4	40.97	34.450	
9,000.0	7,059.8	7,000.0	6,999.5	42.6	1.7	-86.87	-660.4	-153.6	1,447.8	1,406.0	41.73	34.697	
9,055.1	7,059.4	7,000.0	6,999.5	43.6	1.7	-86.87	-660.4	-153.6	1,494.5	1,451.8	42.69	35.006	
9,100.0	7,059.1	7,000.0	6,999.5	44.3	1.7	-86.87	-660.4	-153.6	1,533.1	1,489.6	43.48	35.256	
9,153.5	7,058.8	7,000.0	6,999.5	45.2	1.7	-86.87	-660.4	-153.6	1,579.4	1,535.0	44.43	35.547	
9,200.0	7,058.5	7,000.0	6,999.5	46.0	1.7	-86.87	-660.4	-153.6	1,620.0	1,574.8	45.26	35.797	
9,251.9	7,058.2	7,000.0	6,999.5	46.9	1.7	-86.87	-660.4	-153.6	1,665.8	1,619.6	46.18	36.070	
9,300.0	7,057.9	7,000.0	6,999.5	47.7	1.7	-86.87	-660.4	-153.6	1,708.4	1,661.4	47.04	36.319	
9,350.4	7,057.6	7,000.0	6,999.5	48.6	1.7	-86.87	-660.4	-153.6	1,753.4	1,705.5	47.94	36.573	
9,400.0	7,057.2	7,000.0	6,999.5	49.4	1.7	-86.87	-660.4	-153.6	1,798.0	1,749.2	48.83	36.820	
9,448.8	7,056.9	7,000.0	6,999.5	50.3	1.7	-86.87	-660.4	-153.6	1,842.2	1,792.5	49.71	37.056	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-1 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	7,056.6	7,000.0	6,999.5	51.1	1.7	-86.87	-660.4	-153.6	1,888.7	1,838.1	50.64	37.299	
9,547.2	7,056.3	7,000.0	6,999.5	52.0	1.7	-86.87	-660.4	-153.6	1,931.8	1,880.3	51.49	37.517	
9,600.0	7,056.0	7,000.0	6,999.5	52.9	1.7	-86.87	-660.4	-153.6	1,980.3	1,927.8	52.45	37.756	
9,645.6	7,055.7	7,000.0	6,999.5	53.7	1.7	-86.87	-660.4	-153.6	2,022.3	1,969.0	53.28	37.957	
9,700.0	7,055.4	7,000.0	6,999.5	54.6	1.7	-86.87	-660.4	-153.6	2,072.6	2,018.3	54.27	38.192	
9,744.1	7,055.1	7,000.0	6,999.5	55.4	1.7	-86.87	-660.4	-153.6	2,113.5	2,058.4	55.07	38.377	
9,800.0	7,054.7	7,000.0	6,999.5	56.4	1.7	-86.87	-660.4	-153.6	2,165.6	2,109.5	56.09	38.607	
9,842.5	7,054.5	7,000.0	6,999.5	57.2	1.7	-86.87	-660.4	-153.6	2,205.3	2,148.5	56.87	38.777	
9,900.0	7,054.1	7,000.0	6,999.5	58.2	1.7	-86.87	-660.4	-153.6	2,259.2	2,201.3	57.93	39.002	
9,940.9	7,053.8	7,000.0	6,999.5	58.9	1.7	-86.87	-660.4	-153.6	2,297.7	2,239.0	58.68	39.158	
10,000.0	7,053.5	7,000.0	6,999.5	60.0	1.7	-86.87	-660.4	-153.6	2,353.4	2,293.6	59.76	39.378	
10,039.3	7,053.2	7,000.0	6,999.5	60.7	1.7	-86.87	-660.4	-153.6	2,390.6	2,330.1	60.49	39.521	
10,100.0	7,052.8	7,000.0	6,999.5	61.8	1.7	-86.87	-660.4	-153.6	2,448.0	2,386.4	61.61	39.736	
10,137.8	7,052.6	7,000.0	6,999.5	62.4	1.7	-86.87	-660.4	-153.6	2,483.8	2,421.5	62.30	39.867	
10,200.0	7,052.2	7,000.0	6,999.5	63.6	1.7	-86.87	-660.4	-153.6	2,543.0	2,479.5	63.45	40.077	
10,236.2	7,052.0	7,000.0	6,999.5	64.2	1.7	-86.87	-660.4	-153.6	2,577.5	2,513.4	64.12	40.196	
10,300.0	7,051.6	7,000.0	6,999.5	65.4	1.7	-86.87	-660.4	-153.6	2,638.4	2,573.1	65.30	40.402	
10,334.6	7,051.4	7,000.0	6,999.5	66.0	1.7	-86.87	-660.4	-153.6	2,671.5	2,605.5	65.95	40.510	
10,400.0	7,051.0	7,000.0	6,999.5	67.2	1.7	-86.87	-660.4	-153.6	2,734.1	2,666.9	67.16	40.711	
10,433.0	7,050.7	7,000.0	6,999.5	67.8	1.7	-86.87	-660.4	-153.6	2,765.8	2,698.0	67.77	40.810	
10,500.0	7,050.3	7,000.0	6,999.5	69.0	1.7	-86.87	-660.4	-153.6	2,830.1	2,761.1	69.02	41.006	
10,531.5	7,050.1	7,000.0	6,999.5	69.6	1.7	-86.87	-660.4	-153.6	2,860.4	2,790.8	69.60	41.095	
10,600.0	7,049.7	7,000.0	6,999.5	70.8	1.7	-86.87	-660.4	-153.6	2,926.4	2,855.5	70.88	41.287	
10,629.9	7,049.5	7,000.0	6,999.5	71.4	1.7	-86.87	-660.4	-153.6	2,955.2	2,883.8	71.44	41.368	
10,700.0	7,049.1	7,000.0	6,999.5	72.7	1.7	-86.87	-660.4	-153.6	3,022.9	2,950.2	72.74	41.555	
10,728.3	7,048.9	7,000.0	6,999.5	73.2	1.7	-86.87	-660.4	-153.6	3,050.3	2,977.0	73.27	41.629	
10,800.0	7,048.4	7,000.0	6,999.5	74.5	1.7	-86.87	-660.4	-153.6	3,119.7	3,045.0	74.61	41.812	
10,826.7	7,048.3	7,000.0	6,999.5	75.0	1.7	-86.87	-660.4	-153.6	3,145.6	3,070.5	75.11	41.879	
10,900.0	7,047.8	7,000.0	6,999.5	76.3	1.7	-86.87	-660.4	-153.6	3,216.6	3,140.1	76.48	42.057	
10,925.2	7,047.7	7,000.0	6,999.5	76.8	1.7	-86.87	-660.4	-153.6	3,241.0	3,164.1	76.95	42.117	
11,000.0	7,047.2	7,000.0	6,999.5	78.2	1.7	-86.87	-660.4	-153.6	3,313.7	3,235.4	78.35	42.292	
11,023.6	7,047.0	7,000.0	6,999.5	78.6	1.7	-86.87	-660.4	-153.6	3,336.7	3,257.9	78.80	42.346	
11,100.0	7,046.6	7,000.0	6,999.5	80.0	1.7	-86.87	-660.4	-153.6	3,411.0	3,330.8	80.23	42.516	
11,122.0	7,046.4	7,000.0	6,999.5	80.4	1.7	-86.87	-660.4	-153.6	3,432.5	3,351.8	80.64	42.564	
11,200.0	7,045.9	7,000.0	6,999.5	81.9	1.7	-86.87	-660.4	-153.6	3,508.4	3,426.3	82.10	42.731	
11,220.4	7,045.8	7,000.0	6,999.5	82.3	1.7	-86.87	-660.4	-153.6	3,528.4	3,445.9	82.49	42.774	
11,300.0	7,045.3	7,000.0	6,999.5	83.7	1.7	-86.87	-660.4	-153.6	3,606.0	3,522.0	83.98	42.938	
11,318.9	7,045.2	7,000.0	6,999.5	84.1	1.7	-86.87	-660.4	-153.6	3,624.5	3,540.1	84.34	42.975	
11,400.0	7,044.7	7,000.0	6,999.5	85.6	1.7	-86.87	-660.4	-153.6	3,703.7	3,617.9	85.86	43.135	
11,417.3	7,044.6	7,000.0	6,999.5	85.9	1.7	-86.87	-660.4	-153.6	3,720.7	3,634.5	86.19	43.169	
11,500.0	7,044.0	7,000.0	6,999.5	87.5	1.7	-86.87	-660.4	-153.6	3,801.6	3,713.8	87.74	43.325	
11,515.7	7,043.9	7,000.0	6,999.5	87.7	1.7	-86.87	-660.4	-153.6	3,817.0	3,728.9	88.04	43.354	
11,600.0	7,043.4	7,000.0	6,999.5	89.3	1.7	-86.87	-660.4	-153.6	3,899.5	3,809.9	89.63	43.508	
11,614.1	7,043.3	7,000.0	6,999.5	89.6	1.7	-86.87	-660.4	-153.6	3,913.4	3,823.5	89.89	43.533	
11,700.0	7,042.8	7,000.0	6,999.5	91.2	1.7	-86.87	-660.4	-153.6	3,997.6	3,906.0	91.51	43.683	
11,712.6	7,042.7	7,000.0	6,999.5	91.4	1.7	-86.87	-660.4	-153.6	4,009.9	3,918.1	91.75	43.704	
11,800.0	7,042.2	7,000.0	6,999.5	93.0	1.7	-86.87	-660.4	-153.6	4,095.7	4,002.3	93.40	43.851	
11,811.0	7,042.1	7,000.0	6,999.5	93.2	1.7	-86.87	-660.4	-153.6	4,106.5	4,012.9	93.61	43.870	
11,900.0	7,041.5	7,000.0	6,999.5	94.9	1.7	-86.87	-660.4	-153.6	4,193.9	4,098.6	95.29	44.014	
11,909.4	7,041.5	7,000.0	6,999.5	95.1	1.7	-86.87	-660.4	-153.6	4,203.2	4,107.7	95.46	44.029	
12,000.0	7,040.9	7,000.0	6,999.5	96.8	1.7	-86.87	-660.4	-153.6	4,292.2	4,195.0	97.17	44.170	
12,007.8	7,040.8	7,000.0	6,999.5	96.9	1.7	-86.87	-660.4	-153.6	4,299.9	4,202.6	97.32	44.182	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,040.3	7,000.0	6,999.5	98.7	1.7	-86.87	-660.4	-153.6	4,390.6	4,291.5	99.06	44.321	
12,106.3	7,040.2	7,000.0	6,999.5	98.8	1.7	-86.87	-660.4	-153.6	4,396.8	4,297.6	99.18	44.330	
12,200.0	7,039.6	7,000.0	6,999.5	100.5	1.7	-86.87	-660.4	-153.6	4,489.1	4,388.1	100.96	44.466	
12,204.7	7,039.6	7,000.0	6,999.5	100.6	1.7	-86.87	-660.4	-153.6	4,493.7	4,392.6	101.04	44.472	
12,300.0	7,039.0	7,000.0	6,999.5	102.4	1.7	-86.87	-660.4	-153.6	4,587.6	4,484.7	102.85	44.606	
12,303.1	7,039.0	7,000.0	6,999.5	102.5	1.7	-86.87	-660.4	-153.6	4,590.7	4,487.7	102.91	44.610	
12,400.0	7,038.4	7,000.0	6,999.5	104.3	1.7	-86.87	-660.4	-153.6	4,686.2	4,581.4	104.74	44.741	
12,401.5	7,038.4	7,000.0	6,999.5	104.3	1.7	-86.87	-660.4	-153.6	4,687.7	4,582.9	104.77	44.743	
12,500.0	7,037.8	7,000.0	6,999.5	106.2	1.7	-86.87	-660.4	-153.6	4,784.8	4,678.2	106.63	44.872	
12,598.4	7,037.1	7,000.0	6,999.5	108.0	1.7	-86.87	-660.4	-153.6	4,881.9	4,773.4	108.50	44.996	
12,600.0	7,037.1	7,000.0	6,999.5	108.0	1.7	-86.87	-660.4	-153.6	4,883.5	4,775.0	108.53	44.998	
12,696.8	7,036.5	7,000.0	6,999.5	109.9	1.7	-86.87	-660.4	-153.6	4,979.1	4,868.7	110.36	45.116	
12,700.0	7,036.5	7,000.0	6,999.5	109.9	1.7	-86.87	-660.4	-153.6	4,982.2	4,871.8	110.42	45.120	
12,795.2	7,035.9	7,000.0	6,999.5	111.7	1.7	-86.87	-660.4	-153.6	5,076.4	4,964.1	112.23	45.232	
12,800.0	7,035.9	7,000.0	6,999.5	111.8	1.7	-86.87	-660.4	-153.6	5,081.0	4,968.7	112.32	45.238	
12,893.7	7,035.3	7,000.0	6,999.5	113.6	1.7	-86.87	-660.4	-153.6	5,173.6	5,059.5	114.10	45.345	
12,900.0	7,035.2	7,000.0	6,999.5	113.7	1.7	-86.87	-660.4	-153.6	5,179.9	5,065.7	114.22	45.352	
12,992.1	7,034.7	7,000.0	6,999.5	115.4	1.7	-86.87	-660.4	-153.6	5,271.0	5,155.0	115.96	45.454	
13,000.0	7,034.6	7,000.0	6,999.5	115.6	1.7	-86.87	-660.4	-153.6	5,278.8	5,162.7	116.11	45.463	
13,090.5	7,034.0	7,000.0	6,999.5	117.3	1.7	-86.87	-660.4	-153.6	5,368.3	5,250.5	117.83	45.560	
13,100.0	7,034.0	7,000.0	6,999.5	117.5	1.7	-86.87	-660.4	-153.6	5,377.7	5,259.7	118.01	45.570	
13,188.9	7,033.4	7,000.0	6,999.5	119.1	1.7	-86.87	-660.4	-153.6	5,465.7	5,346.0	119.70	45.662	
13,200.0	7,033.4	7,000.0	6,999.5	119.3	1.7	-86.87	-660.4	-153.6	5,476.7	5,356.8	119.91	45.673	
13,287.4	7,032.8	7,000.0	6,999.5	121.0	1.7	-86.87	-660.4	-153.6	5,563.2	5,441.6	121.57	45.762	
13,300.0	7,032.7	7,000.0	6,999.5	121.2	1.7	-86.87	-660.4	-153.6	5,575.7	5,453.9	121.81	45.774	
13,385.8	7,032.2	7,000.0	6,999.5	122.9	1.7	-86.87	-660.4	-153.6	5,660.7	5,537.2	123.44	45.858	
13,400.0	7,032.1	7,000.0	6,999.5	123.1	1.7	-86.87	-660.4	-153.6	5,674.7	5,551.0	123.71	45.872	
13,484.2	7,031.6	7,000.0	6,999.5	124.7	1.7	-86.87	-660.4	-153.6	5,758.2	5,632.9	125.31	45.952	
13,500.0	7,031.5	7,000.0	6,999.5	125.0	1.7	-86.87	-660.4	-153.6	5,773.8	5,648.2	125.61	45.967	
13,582.6	7,030.9	7,000.0	6,999.5	126.6	1.7	-86.87	-660.4	-153.6	5,855.7	5,728.5	127.18	46.043	
13,600.0	7,030.8	7,000.0	6,999.5	126.9	1.7	-86.87	-660.4	-153.6	5,872.9	5,745.4	127.51	46.059	
13,681.1	7,030.3	7,000.0	6,999.5	128.4	1.7	-86.87	-660.4	-153.6	5,953.3	5,824.2	129.05	46.131	
13,700.0	7,030.2	7,000.0	6,999.5	128.8	1.7	-86.87	-660.4	-153.6	5,972.0	5,842.6	129.41	46.148	
13,779.5	7,029.7	7,000.0	6,999.5	130.3	1.7	-86.87	-660.4	-153.6	6,050.9	5,919.9	130.92	46.217	
13,800.0	7,029.6	7,000.0	6,999.5	130.7	1.7	-86.87	-660.4	-153.6	6,071.2	5,939.9	131.31	46.235	
13,877.9	7,029.1	7,000.0	6,999.5	132.2	1.7	-86.87	-660.4	-153.6	6,148.5	6,015.7	132.79	46.301	
13,900.0	7,029.0	7,000.0	6,999.5	132.6	1.7	-86.87	-660.4	-153.6	6,170.4	6,037.2	133.21	46.319	
13,976.3	7,028.5	7,000.0	6,999.5	134.0	1.7	-86.87	-660.4	-153.6	6,246.1	6,111.5	134.67	46.382	
14,000.0	7,028.3	7,000.0	6,999.5	134.5	1.7	-86.87	-660.4	-153.6	6,269.6	6,134.5	135.12	46.401	
14,074.8	7,027.9	7,000.0	6,999.5	135.9	1.7	-86.87	-660.4	-153.6	6,343.8	6,207.3	136.54	46.461	
14,100.0	7,027.7	7,000.0	6,999.5	136.4	1.7	-86.87	-660.4	-153.6	6,368.8	6,231.8	137.02	46.481	
14,173.2	7,027.2	7,000.0	6,999.5	137.8	1.7	-86.87	-660.4	-153.6	6,441.5	6,303.1	138.41	46.538	
14,200.0	7,027.1	7,000.0	6,999.5	138.3	1.7	-86.87	-660.4	-153.6	6,468.1	6,329.2	138.92	46.559	
14,210.5	7,027.0	7,000.0	6,999.5	138.5	1.7	-86.87	-660.4	-153.6	6,478.5	6,339.4	139.12	46.567	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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)	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	5.3	5.3	0.0	0.0	131.86	-564.7	630.2	846.1				
98.4	98.4	100.9	100.9	0.1	0.0	131.87	-564.9	630.2	846.3	846.2	0.13	6,349.620	
100.0	100.0	102.6	102.6	0.1	0.0	131.87	-564.9	630.2	846.3	846.2	0.14	6,165.653	
196.8	196.8	203.1	203.1	0.3	0.2	131.89	-565.1	630.2	846.5	846.0	0.49	1,737.931	
200.0	200.0	206.2	206.2	0.3	0.2	131.89	-565.1	630.1	846.4	846.0	0.50	1,702.347	
259.2	259.2	264.7	264.7	0.5	0.2	131.90	-565.2	630.0	846.4	845.7	0.69	1,228.968	
295.3	295.3	300.4	300.4	0.5	0.3	131.91	-565.3	630.0	846.4	845.6	0.81	1,051.051	
300.0	300.0	305.1	305.1	0.5	0.3	131.91	-565.4	629.9	846.4	845.6	0.82	1,032.937	
393.7	393.7	399.6	399.6	0.8	0.3	131.92	-565.5	629.8	846.4	845.3	1.10	769.697	
400.0	400.0	406.0	406.0	0.8	0.3	131.92	-565.5	629.8	846.4	845.3	1.12	757.224	
492.1	492.1	500.0	500.0	1.0	0.4	131.93	-565.5	629.6	846.3	844.9	1.38	612.430	
500.0	500.0	507.7	507.7	1.0	0.4	131.93	-565.5	629.5	846.2	844.8	1.40	603.440	
552.5	552.5	558.0	558.0	1.1	0.4	131.94	-565.6	629.4	846.2	844.6	1.54	549.821	
590.5	590.5	594.5	594.5	1.2	0.4	131.95	-565.7	629.3	846.2	844.6	1.64	516.600	
600.0	600.0	603.6	603.6	1.2	0.4	131.96	-565.7	629.3	846.2	844.6	1.66	508.736 ES	
689.0	689.0	691.6	691.6	1.4	0.5	131.98	-566.2	629.2	846.5	844.6	1.91	442.391	
700.0	700.0	702.4	702.4	1.4	0.5	131.99	-566.3	629.2	846.5	844.6	1.94	435.422	
787.4	787.4	786.0	786.0	1.6	0.5	132.01	-566.9	629.3	847.0	844.9	2.18	388.486	
800.0	800.0	800.0	800.0	1.7	0.5	132.02	-567.0	629.4	847.2	844.9	2.22	382.400	
885.8	885.8	886.3	886.3	1.9	0.6	132.04	-567.7	629.6	847.8	845.3	2.45	346.312	
900.0	900.0	900.9	900.9	1.9	0.6	132.05	-567.9	629.6	847.9	845.4	2.49	340.972	
984.2	984.2	987.7	987.7	2.1	0.6	132.10	-568.6	629.4	848.2	845.5	2.71	312.483	
1,000.0	1,000.0	1,003.9	1,003.9	2.1	0.6	132.11	-568.8	629.2	848.2	845.5	2.76	307.662	
1,082.7	1,082.7	1,088.1	1,088.0	2.3	0.7	132.18	-569.7	628.6	848.3	845.3	2.98	284.498	
1,100.0	1,100.0	1,105.4	1,105.4	2.3	0.7	132.20	-569.8	628.4	848.3	845.3	3.03	280.094	
1,181.1	1,181.1	1,184.3	1,184.3	2.5	0.7	-153.59	-570.7	627.8	849.5	846.3	3.18	267.459	
1,200.0	1,200.0	1,202.7	1,202.7	2.6	0.7	-153.58	-570.9	627.7	850.0	846.8	3.22	263.677	
1,279.5	1,279.4	1,279.7	1,279.6	2.7	0.8	-153.61	-571.7	627.5	853.9	850.5	3.42	249.546	
1,300.0	1,299.8	1,300.0	1,300.0	2.8	0.8	-153.63	-571.9	627.5	855.2	851.8	3.47	246.250	
1,377.9	1,377.5	1,376.7	1,376.7	2.9	0.8	-153.73	-572.6	627.6	861.6	858.0	3.68	234.309	
1,400.0	1,399.5	1,398.5	1,398.5	3.0	0.8	-153.77	-572.8	627.6	863.8	860.0	3.73	231.272	
1,476.4	1,475.3	1,475.0	1,474.9	3.2	0.8	-153.94	-573.3	627.9	872.4	868.5	3.93	222.047	
1,500.0	1,498.7	1,498.5	1,498.5	3.2	0.8	-154.02	-573.3	628.1	875.4	871.4	3.99	219.467	
1,574.8	1,572.6	1,577.0	1,576.9	3.4	0.8	-154.30	-573.1	628.7	886.0	881.8	4.19	211.363	
1,600.0	1,597.5	1,603.4	1,603.4	3.5	0.8	-154.39	-573.1	628.7	889.9	885.6	4.26	208.943	
1,673.2	1,669.4	1,680.8	1,680.8	3.7	0.8	-154.70	-572.8	628.6	902.0	897.5	4.46	202.126	
1,700.2	1,695.8	1,708.2	1,708.2	3.8	0.8	-154.82	-572.6	628.5	906.7	902.2	4.54	199.894	
1,771.6	1,765.7	1,774.7	1,774.7	4.1	0.9	-155.20	-572.3	628.3	919.9	915.1	4.73	194.579	
1,800.0	1,793.4	1,801.3	1,801.2	4.2	0.9	-155.34	-572.3	628.2	925.2	920.4	4.80	192.651	
1,870.1	1,862.0	1,877.5	1,877.4	4.4	0.9	-155.72	-572.3	627.5	938.0	933.0	5.00	187.503	
1,900.0	1,891.2	1,910.2	1,910.1	4.5	0.9	-155.88	-572.3	627.0	943.4	938.3	5.09	185.491	
1,968.5	1,958.3	1,985.6	1,985.5	4.8	0.9	-156.22	-571.9	625.5	955.2	949.9	5.28	180.969	
2,000.0	1,989.1	2,016.9	2,016.8	4.9	0.9	-156.37	-571.6	624.8	960.5	955.1	5.37	178.978	
2,066.9	2,054.5	2,078.3	2,078.2	5.2	0.9	-156.64	-571.3	623.4	971.9	966.3	5.56	174.779	
2,100.0	2,086.9	2,109.5	2,109.4	5.3	0.9	-156.78	-571.2	622.8	977.6	972.0	5.66	172.797	
2,165.3	2,150.8	2,175.2	2,175.1	5.6	1.0	-157.04	-571.1	621.3	989.0	983.2	5.85	168.935	
2,200.0	2,184.7	2,209.6	2,209.4	5.7	1.0	-157.17	-571.1	620.4	995.0	989.1	5.96	167.013	
2,263.8	2,247.1	2,270.1	2,270.0	6.0	1.0	-157.39	-571.4	618.8	1,006.1	1,000.0	6.15	163.641	
2,300.0	2,282.5	2,304.8	2,304.6	6.1	1.0	-157.50	-571.6	617.9	1,012.5	1,006.3	6.26	161.800	
2,362.2	2,343.3	2,367.7	2,367.5	6.4	1.0	-157.69	-572.3	616.0	1,023.5	1,017.0	6.45	158.753	
2,400.0	2,380.3	2,406.4	2,406.2	6.6	1.0	-157.80	-572.8	614.7	1,030.1	1,023.5	6.56	156.983	
2,460.6	2,439.6	2,471.8	2,471.5	6.8	1.1	-157.97	-573.4	612.3	1,040.4	1,033.7	6.74	154.268	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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)	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	2,513.2	2,512.9	7.0	1.1	-158.10	-573.5	610.9	1,047.0	1,040.1	6.86	152.591	
2,559.0	2,535.9	2,571.7	2,571.4	7.2	1.1	-158.30	-573.3	609.0	1,056.8	1,049.7	7.04	150.099	
2,600.0	2,575.9	2,612.0	2,611.6	7.4	1.1	-158.45	-572.8	607.9	1,063.6	1,056.4	7.16	148.470	
2,657.5	2,632.2	2,667.7	2,667.3	7.7	1.1	-158.67	-572.1	606.5	1,073.1	1,065.8	7.34	146.215	
2,700.0	2,673.8	2,709.0	2,708.6	7.8	1.1	-158.83	-571.5	605.5	1,080.3	1,072.8	7.47	144.633	
2,755.9	2,728.4	2,764.3	2,763.9	8.1	1.1	-159.04	-570.8	604.1	1,089.6	1,082.0	7.64	142.610	
2,800.0	2,771.6	2,807.9	2,807.5	8.3	1.2	-159.19	-570.3	603.0	1,097.0	1,089.3	7.78	141.081	
2,854.3	2,824.7	2,862.1	2,861.7	8.5	1.2	-159.38	-569.7	601.6	1,106.1	1,098.2	7.94	139.260	
2,900.0	2,869.4	2,907.3	2,906.8	8.7	1.2	-159.54	-569.2	600.4	1,113.8	1,105.7	8.08	137.790	
2,952.7	2,921.0	2,957.1	2,956.6	8.9	1.2	-159.72	-568.6	599.1	1,122.6	1,114.4	8.25	136.150	
3,000.0	2,967.2	3,001.7	3,001.2	9.2	1.2	-159.87	-568.0	598.1	1,130.7	1,122.3	8.39	134.752	
3,051.2	3,017.3	3,050.6	3,050.1	9.4	1.2	-160.06	-567.3	597.1	1,139.4	1,130.9	8.55	133.298	
3,100.0	3,065.0	3,097.2	3,096.7	9.6	1.2	-160.24	-566.3	596.5	1,147.9	1,139.2	8.70	131.988	
3,149.6	3,113.5	3,146.0	3,145.5	9.8	1.2	-160.45	-565.2	595.9	1,156.5	1,147.7	8.85	130.697	
3,200.0	3,162.8	3,195.8	3,195.2	10.0	1.3	-160.64	-564.2	595.2	1,165.3	1,156.3	9.00	129.434	
3,248.0	3,209.8	3,239.2	3,238.6	10.3	1.3	-160.80	-563.4	594.6	1,173.7	1,164.6	9.15	128.263	
3,300.0	3,260.6	3,285.7	3,285.2	10.5	1.3	-160.97	-562.8	594.0	1,183.0	1,173.7	9.31	127.064	
3,346.4	3,306.1	3,330.8	3,330.2	10.7	1.3	-161.13	-562.3	593.5	1,191.5	1,182.0	9.45	126.029	
3,400.0	3,358.4	3,384.9	3,384.3	10.9	1.3	-161.30	-561.7	592.8	1,201.2	1,191.6	9.62	124.867	
3,444.9	3,402.3	3,433.5	3,432.9	11.1	1.3	-161.46	-561.3	592.0	1,209.2	1,199.5	9.76	123.925	
3,500.0	3,456.3	3,495.5	3,494.8	11.4	1.3	-161.64	-560.7	590.6	1,218.8	1,208.9	9.93	122.786	
3,543.3	3,498.6	3,543.5	3,542.8	11.6	1.3	-161.76	-560.3	589.2	1,226.2	1,216.1	10.06	121.899	
3,600.0	3,554.1	3,605.5	3,604.8	11.8	1.4	-161.90	-560.0	588.6	1,235.5	1,225.2	10.23	120.744	
3,641.7	3,594.9	3,645.1	3,644.4	12.0	1.4	-161.99	-559.8	585.2	1,242.2	1,231.9	10.36	119.901	
3,700.0	3,651.9	3,700.0	3,699.2	12.3	1.4	-162.12	-559.3	583.3	1,251.8	1,241.3	10.54	118.778	
3,740.1	3,691.2	3,735.0	3,734.2	12.5	1.4	-162.22	-558.9	582.3	1,258.5	1,247.9	10.66	118.018	
3,800.0	3,749.7	3,786.6	3,785.8	12.7	1.4	-162.37	-558.2	581.1	1,268.8	1,258.0	10.85	116.957	
3,838.6	3,787.4	3,823.0	3,822.2	12.9	1.4	-162.47	-557.6	580.4	1,275.6	1,264.6	10.97	116.303	
3,900.0	3,847.5	3,884.6	3,883.8	13.2	1.4	-162.65	-556.8	579.2	1,286.4	1,275.2	11.16	115.280	
3,937.0	3,883.7	3,920.0	3,919.2	13.3	1.5	-162.74	-556.5	578.4	1,292.9	1,281.6	11.27	114.684	
4,000.0	3,945.3	3,978.3	3,977.4	13.6	1.5	-162.90	-555.9	577.3	1,304.1	1,292.6	11.47	113.717	
4,035.4	3,980.0	4,011.2	4,010.4	13.8	1.5	-162.98	-555.7	576.7	1,310.5	1,298.9	11.58	113.193	
4,100.0	4,043.1	4,072.3	4,071.4	14.1	1.5	-163.14	-555.1	575.7	1,322.2	1,310.4	11.78	112.265	
4,133.8	4,076.3	4,100.0	4,099.1	14.2	1.5	-163.21	-554.9	575.3	1,328.4	1,316.5	11.88	111.806	
4,200.0	4,141.0	4,160.7	4,159.8	14.5	1.5	-163.36	-554.7	574.5	1,340.7	1,328.7	12.08	110.956	
4,232.3	4,172.5	4,188.4	4,187.5	14.7	1.5	-163.43	-554.7	574.2	1,346.9	1,334.7	12.18	110.566	
4,300.0	4,238.8	4,251.4	4,250.6	15.0	1.6	-163.57	-554.9	573.7	1,360.1	1,347.7	12.39	109.772	
4,330.7	4,268.8	4,280.6	4,279.7	15.1	1.6	-163.64	-554.9	573.5	1,366.1	1,353.6	12.48	109.425	
4,400.0	4,336.6	4,356.6	4,355.7	15.4	1.6	-163.82	-554.8	573.1	1,379.5	1,366.8	12.70	108.643	
4,429.1	4,365.1	4,390.4	4,389.5	15.6	1.6	-163.90	-554.6	572.7	1,385.0	1,372.3	12.79	108.308	
4,500.0	4,434.4	4,452.6	4,451.7	15.9	1.6	-164.05	-554.3	572.0	1,398.4	1,385.4	13.00	107.548	
4,527.5	4,461.3	4,475.8	4,474.9	16.0	1.6	-164.10	-554.3	571.8	1,403.7	1,390.6	13.09	107.271	
4,600.0	4,532.2	4,543.4	4,542.5	16.4	1.6	-164.25	-554.3	571.5	1,418.0	1,404.7	13.31	106.558	
4,626.0	4,557.6	4,569.3	4,568.4	16.5	1.6	-164.31	-554.3	571.4	1,423.1	1,409.7	13.39	106.304	
4,700.0	4,630.0	4,641.6	4,640.7	16.8	1.7	-164.47	-554.2	571.2	1,437.7	1,424.1	13.61	105.610	
4,724.4	4,653.9	4,665.1	4,664.2	16.9	1.7	-164.53	-554.1	571.2	1,442.5	1,428.8	13.69	105.394	
4,800.0	4,727.8	4,739.5	4,738.6	17.3	1.7	-164.70	-553.7	571.1	1,457.4	1,443.5	13.91	104.759	
4,822.8	4,750.2	4,762.5	4,761.6	17.4	1.7	-164.76	-553.6	571.1	1,461.9	1,448.0	13.98	104.565	
4,900.0	4,825.6	4,839.2	4,838.4	17.7	1.7	-164.94	-553.2	570.9	1,477.1	1,462.9	14.22	103.901	
4,921.2	4,846.4	4,860.2	4,859.3	17.8	1.7	-164.98	-553.1	570.8	1,481.3	1,467.0	14.28	103.726	
5,000.0	4,923.5	4,935.4	4,934.5	18.2	1.7	-165.13	-553.1	570.5	1,496.8	1,482.2	14.52	103.095	
5,019.7	4,942.7	4,953.6	4,952.7	18.3	1.7	-165.17	-553.1	570.4	1,500.7	1,486.1	14.58	102.943	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,100.0	5,021.3	5,032.0	5,031.1	18.6	1.7	-165.32	-553.3	570.0	1,516.7	1,501.9	14.82	102.354	
5,118.1	5,039.0	5,051.1	5,050.2	18.7	1.7	-165.35	-553.3	570.0	1,520.3	1,505.4	14.87	102.228	
5,200.0	5,119.1	5,135.0	5,134.1	19.1	1.8	-165.53	-552.8	569.7	1,536.3	1,521.2	15.12	101.638	
5,216.5	5,135.3	5,151.1	5,150.2	19.2	1.8	-165.57	-552.7	569.6	1,539.6	1,524.4	15.17	101.514	
5,300.0	5,216.9	5,234.2	5,233.3	19.6	1.8	-165.73	-552.4	569.3	1,555.9	1,540.5	15.42	100.904	
5,314.9	5,231.5	5,249.6	5,248.7	19.6	1.8	-165.76	-552.4	569.1	1,558.8	1,543.3	15.46	100.797	
5,400.0	5,314.7	5,341.0	5,340.0	20.0	1.8	-165.89	-552.9	567.9	1,575.2	1,559.5	15.72	100.176	
5,413.4	5,327.8	5,356.2	5,355.3	20.1	1.8	-165.91	-553.0	567.6	1,577.7	1,562.0	15.77	100.074	
5,500.0	5,412.5	5,452.7	5,451.8	20.5	1.8	-166.05	-553.2	565.5	1,593.7	1,577.7	16.03	99.402	
5,511.8	5,424.1	5,465.6	5,464.6	20.5	1.8	-166.07	-553.2	565.2	1,595.8	1,579.8	16.07	99.310	
5,600.0	5,510.3	5,549.7	5,548.7	20.9	1.9	-166.19	-552.9	563.1	1,611.7	1,595.4	16.34	98.630	
5,610.2	5,520.3	5,558.6	5,557.7	21.0	1.9	-166.20	-552.9	562.9	1,613.6	1,597.2	16.37	98.554	
5,700.0	5,608.2	5,638.3	5,637.3	21.4	1.9	-166.32	-552.7	561.5	1,630.2	1,613.6	16.65	97.911	
5,708.6	5,616.6	5,646.1	5,645.1	21.4	1.9	-166.34	-552.7	561.3	1,631.9	1,615.2	16.68	97.851	
5,729.2	5,636.7	5,664.6	5,663.6	21.5	1.9	-166.36	-552.7	561.1	1,635.7	1,619.0	16.74	97.711	
5,800.0	5,706.1	5,727.8	5,726.8	21.8	1.9	-166.53	-552.4	560.4	1,648.5	1,631.6	16.88	97.655	
5,807.1	5,713.1	5,734.0	5,733.0	21.8	1.9	-166.54	-552.3	560.4	1,649.7	1,632.8	16.89	97.663	
5,900.0	5,804.7	5,816.9	5,815.9	22.1	1.9	-166.73	-551.8	560.1	1,664.1	1,647.0	17.03	97.712	
5,905.5	5,810.2	5,822.0	5,821.0	22.1	1.9	-166.74	-551.7	560.2	1,664.9	1,647.8	17.04	97.716	
6,000.0	5,903.9	5,910.5	5,909.5	22.3	2.0	-166.91	-551.3	560.3	1,676.8	1,659.6	17.16	97.707	
6,003.9	5,907.8	5,914.4	5,913.4	22.4	2.0	-166.91	-551.3	560.3	1,677.2	1,660.1	17.17	97.707	
6,100.0	6,003.4	6,009.4	6,008.4	22.6	2.0	-167.05	-550.7	560.6	1,686.3	1,669.0	17.28	97.607	
6,102.3	6,005.7	6,011.7	6,010.7	22.6	2.0	-167.05	-550.7	560.6	1,686.5	1,669.2	17.28	97.604	
6,200.0	6,103.2	6,104.7	6,103.7	22.7	2.0	-167.16	-549.7	561.3	1,692.5	1,675.1	17.38	97.391	
6,200.8	6,104.0	6,105.4	6,104.4	22.7	2.0	-167.16	-549.7	561.3	1,692.6	1,675.2	17.38	97.389	
6,299.2	6,202.3	6,200.0	6,199.0	22.9	2.0	-167.24	-548.7	562.3	1,695.7	1,678.2	17.47	97.054	
6,300.0	6,203.1	6,200.0	6,199.0	22.9	2.0	-167.24	-548.7	562.3	1,695.7	1,678.2	17.47	97.051	
6,329.4	6,232.5	6,227.6	6,226.6	22.9	2.0	118.58	-548.5	562.6	1,696.0	1,678.5	17.48	97.004	
6,397.6	6,300.8	6,293.6	6,292.5	23.0	2.0	118.55	-547.9	563.5	1,696.5	1,678.9	17.60	96.390	
6,400.0	6,303.1	6,295.9	6,294.8	23.0	2.0	118.55	-547.9	563.5	1,696.5	1,678.9	17.60	96.369	
6,449.4	6,352.5	6,345.9	6,344.8	23.1	2.0	118.52	-547.5	564.2	1,696.9	1,679.2	17.69	95.904	
6,496.0	6,399.2	6,393.4	6,392.3	23.1	2.0	-61.78	-547.1	564.9	1,696.6	1,678.8	17.73	95.680	
6,500.0	6,403.1	6,397.4	6,396.3	23.1	2.0	-61.80	-547.0	564.9	1,696.5	1,678.7	17.73	95.668	
6,550.0	6,452.8	6,438.9	6,437.8	23.1	1.9	-62.09	-546.7	565.5	1,694.5	1,676.7	17.74	95.493	
6,594.5	6,496.6	6,475.0	6,474.0	23.2	1.9	-62.50	-546.4	566.3	1,691.5	1,673.8	17.75	95.292	
6,600.0	6,502.0	6,479.5	6,478.4	23.2	1.9	-62.56	-546.4	566.4	1,691.1	1,673.3	17.75	95.266	
6,650.0	6,550.5	6,523.8	6,522.7	23.2	1.9	-63.25	-546.1	567.5	1,686.4	1,668.7	17.75	94.998	
6,692.9	6,591.4	6,565.0	6,563.9	23.2	1.9	-64.03	-545.9	568.5	1,681.2	1,663.5	17.75	94.724	
6,700.0	6,598.0	6,571.7	6,570.6	23.2	1.9	-64.18	-545.9	568.7	1,680.3	1,662.5	17.75	94.677	
6,750.0	6,644.4	6,615.8	6,614.7	23.2	1.9	-65.26	-545.7	569.7	1,672.8	1,655.0	17.75	94.268	
6,791.3	6,681.6	6,648.0	6,646.9	23.2	1.9	-66.24	-545.5	570.6	1,665.8	1,648.0	17.75	93.849	
6,800.0	6,689.3	6,654.6	6,653.5	23.2	1.9	-66.46	-545.5	570.8	1,664.2	1,646.5	17.75	93.762	
6,850.0	6,732.6	6,691.9	6,690.8	23.2	1.9	-67.80	-545.3	572.0	1,654.7	1,637.0	17.76	93.159	
6,889.7	6,765.7	6,722.9	6,721.8	23.2	1.9	-69.00	-545.2	573.1	1,646.6	1,628.8	17.78	92.601	
6,900.0	6,774.0	6,731.0	6,729.9	23.2	1.9	-69.33	-545.1	573.4	1,644.4	1,626.6	17.79	92.460	
6,950.0	6,813.3	6,769.4	6,768.3	23.2	1.9	-70.99	-545.2	574.6	1,633.4	1,615.6	17.82	91.639	
6,988.2	6,841.9	6,797.5	6,796.3	23.2	1.9	-72.32	-545.3	575.5	1,624.6	1,606.8	17.87	90.906	
7,000.0	6,850.5	6,800.0	6,798.8	23.2	1.9	-72.60	-545.3	575.6	1,621.9	1,604.0	17.89	90.677	
7,050.0	6,885.2	6,833.9	6,832.7	23.2	1.9	-74.38	-545.5	576.8	1,610.1	1,592.1	17.97	89.616	
7,086.6	6,908.9	6,853.6	6,852.4	23.2	1.9	-75.61	-545.6	577.5	1,601.4	1,583.3	18.05	88.725	
7,100.0	6,917.3	6,860.5	6,859.3	23.2	1.9	-76.06	-545.6	577.8	1,598.2	1,580.1	18.07	88.428	
7,150.0	6,946.6	6,884.8	6,883.5	23.2	1.9	-77.71	-545.7	578.8	1,586.6	1,568.3	18.21	87.131	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-2 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,185.0	6,965.5	6,900.0	6,898.7	23.3	1.9	-78.82	-545.8	579.5	1,578.6	1,560.3	18.32	86.172	
7,200.0	6,973.1	6,907.7	6,906.4	23.3	1.9	-79.33	-545.8	579.9	1,575.2	1,556.9	18.37	85.730	
7,250.0	6,996.5	6,930.4	6,929.1	23.3	1.9	-80.95	-545.9	580.9	1,564.4	1,545.9	18.57	84.229	
7,283.4	7,010.4	6,944.0	6,942.7	23.4	1.9	-81.96	-545.9	581.6	1,557.6	1,538.9	18.73	83.152	
7,300.0	7,016.8	6,950.3	6,949.0	23.4	1.9	-82.44	-546.0	581.9	1,554.3	1,535.5	18.81	82.629	
7,350.0	7,033.8	6,967.3	6,965.9	23.5	1.9	-83.78	-546.1	582.7	1,545.1	1,526.0	19.09	80.933	
7,381.9	7,043.0	6,976.5	6,975.1	23.6	1.9	-84.55	-546.2	583.1	1,539.7	1,520.4	19.30	79.789	
7,400.0	7,047.6	6,981.2	6,979.8	23.6	1.9	-84.95	-546.3	583.3	1,536.9	1,517.5	19.42	79.157	
7,450.0	7,057.9	6,991.9	6,990.6	23.8	1.9	-85.91	-546.4	583.8	1,529.9	1,510.1	19.78	77.325	
7,480.3	7,062.5	6,996.9	6,995.5	23.9	1.9	-86.38	-546.5	584.0	1,526.2	1,506.2	20.03	76.184	
7,500.0	7,064.8	6,999.4	6,998.0	24.0	1.9	-86.65	-546.5	584.2	1,524.2	1,504.0	20.20	75.471	
7,550.0	7,068.3	7,000.0	6,998.6	24.2	1.9	-87.02	-546.5	584.2	1,519.8	1,499.2	20.64	73.651	
7,578.7	7,068.7	7,000.0	6,998.6	24.4	1.9	-87.16	-546.5	584.2	1,518.0	1,497.1	20.90	72.625	
7,578.9	7,068.7	7,000.0	6,998.6	24.4	1.9	-87.16	-546.5	584.2	1,518.0	1,497.1	20.90	72.620	
7,600.0	7,068.6	7,000.0	6,998.6	24.5	1.9	-87.16	-546.5	584.2	1,517.0	1,495.9	21.11	71.859	
7,662.4	7,068.2	7,000.0	6,998.6	24.9	1.9	-87.16	-546.5	584.2	1,515.7	1,494.0	21.71	69.828	
7,677.1	7,068.1	7,000.0	6,998.6	25.1	1.9	-87.16	-546.5	584.2	1,515.8	1,493.9	21.85	69.382	
7,700.0	7,067.9	7,000.0	6,998.6	25.2	1.9	-87.16	-546.5	584.2	1,516.2	1,494.1	22.07	68.713	
7,775.6	7,067.4	7,000.0	6,998.6	25.9	1.9	-87.16	-546.5	584.2	1,519.9	1,497.0	22.88	66.438	
7,800.0	7,067.3	7,000.0	6,998.6	26.1	1.9	-87.16	-546.5	584.2	1,521.9	1,498.8	23.14	65.771	
7,874.0	7,066.8	7,000.0	6,998.6	26.8	1.9	-87.16	-546.5	584.2	1,530.4	1,506.3	24.08	63.548	
7,900.0	7,066.7	7,000.0	6,998.6	27.0	1.9	-87.16	-546.5	584.2	1,534.2	1,509.8	24.41	62.842	
7,972.4	7,066.2	7,000.0	6,998.6	27.8	1.9	-87.16	-546.5	584.2	1,547.1	1,521.7	25.40	60.912	
8,000.0	7,066.0	7,000.0	6,998.6	28.1	1.9	-87.16	-546.5	584.2	1,552.8	1,527.1	25.77	60.249	
8,070.8	7,065.6	7,000.0	6,998.6	28.9	1.9	-87.16	-546.5	584.2	1,569.8	1,543.0	26.79	58.598	
8,100.0	7,065.4	7,000.0	6,998.6	29.3	1.9	-87.16	-546.5	584.2	1,577.6	1,550.4	27.21	57.987	
8,169.3	7,065.0	7,000.0	6,998.6	30.2	1.9	-87.16	-546.5	584.2	1,598.2	1,570.0	28.24	56.592	
8,200.0	7,064.8	7,000.0	6,998.6	30.6	1.9	-87.16	-546.5	584.2	1,608.2	1,579.5	28.70	56.036	
8,267.7	7,064.4	7,000.0	6,998.6	31.5	1.9	-87.16	-546.5	584.2	1,632.1	1,602.4	29.75	54.869	
8,300.0	7,064.2	7,000.0	6,998.6	31.9	1.9	-87.16	-546.5	584.2	1,644.3	1,614.1	30.24	54.369	
8,366.1	7,063.7	7,000.0	6,998.6	32.8	1.9	-87.16	-546.5	584.2	1,671.1	1,639.8	31.29	53.400	
8,400.0	7,063.5	7,000.0	6,998.6	33.3	1.9	-87.16	-546.5	584.2	1,685.6	1,653.8	31.83	52.955	
8,464.5	7,063.1	7,000.0	6,998.6	34.2	1.9	-87.16	-546.5	584.2	1,714.9	1,682.0	32.88	52.155	
8,500.0	7,062.9	7,000.0	6,998.6	34.8	1.9	-87.16	-546.5	584.2	1,731.7	1,698.3	33.46	51.761	
8,563.0	7,062.5	7,000.0	6,998.6	35.7	1.9	-87.16	-546.5	584.2	1,763.1	1,728.6	34.50	51.105	
8,600.0	7,062.3	7,000.0	6,998.6	36.3	1.9	-87.16	-546.5	584.2	1,782.3	1,747.1	35.11	50.759	
8,661.4	7,061.9	7,000.0	6,998.6	37.2	1.9	-87.16	-546.5	584.2	1,815.3	1,779.2	36.15	50.223	
8,700.0	7,061.6	7,000.0	6,998.6	37.8	1.9	-87.16	-546.5	584.2	1,836.8	1,800.0	36.79	49.921	
8,759.8	7,061.3	7,000.0	6,998.6	38.8	1.9	-87.16	-546.5	584.2	1,871.3	1,833.5	37.82	49.485	
8,800.0	7,061.0	7,000.0	6,998.6	39.4	1.9	-87.16	-546.5	584.2	1,895.1	1,856.6	38.50	49.223	
8,858.2	7,060.6	7,000.0	6,998.6	40.3	1.9	-87.16	-546.5	584.2	1,930.6	1,891.1	39.51	48.870	
8,900.0	7,060.4	7,000.0	6,998.6	41.0	1.9	-87.16	-546.5	584.2	1,956.8	1,916.6	40.23	48.644	
8,956.7	7,060.0	7,000.0	6,998.6	41.9	1.9	-87.16	-546.5	584.2	1,993.1	1,951.9	41.21	48.360	
9,000.0	7,059.8	7,000.0	6,998.6	42.6	1.9	-87.16	-546.5	584.2	2,021.5	1,979.5	41.97	48.166	
9,055.1	7,059.4	7,000.0	6,998.6	43.6	1.9	-87.16	-546.5	584.2	2,058.4	2,015.4	42.94	47.938	
9,100.0	7,059.1	7,000.0	6,998.6	44.3	1.9	-87.16	-546.5	584.2	2,089.0	2,045.3	43.73	47.773	
9,153.5	7,058.8	7,000.0	6,998.6	45.2	1.9	-87.16	-546.5	584.2	2,126.2	2,081.5	44.68	47.591	
9,200.0	7,058.5	7,000.0	6,998.6	46.0	1.9	-87.16	-546.5	584.2	2,159.1	2,113.6	45.50	47.452	
9,251.9	7,058.2	7,000.0	6,998.6	46.9	1.9	-87.16	-546.5	584.2	2,196.4	2,149.9	46.43	47.308	
9,300.0	7,057.9	7,000.0	6,998.6	47.7	1.9	-87.16	-546.5	584.2	2,231.4	2,184.1	47.28	47.191	
9,350.4	7,057.6	7,000.0	6,998.6	48.6	1.9	-87.16	-546.5	584.2	2,268.6	2,220.4	48.19	47.078	
9,400.0	7,057.2	7,000.0	6,998.6	49.4	1.9	-87.16	-546.5	584.2	2,305.8	2,256.7	49.08	46.981	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
9,448.8	7,056.9	7,000.0	6,998.6	50.3	1.9	-87.16	-546.5	584.2	2,342.8	2,292.8	49.96	46.894	
9,500.0	7,056.6	7,000.0	6,998.6	51.1	1.9	-87.16	-546.5	584.2	2,382.0	2,331.2	50.88	46.815	
9,547.2	7,056.3	7,000.0	6,998.6	52.0	1.9	-87.16	-546.5	584.2	2,418.7	2,366.9	51.74	46.748	
9,600.0	7,056.0	7,000.0	6,998.6	52.9	1.9	-87.16	-546.5	584.2	2,460.0	2,407.3	52.69	46.685	
9,645.6	7,055.7	7,000.0	6,998.6	53.7	1.9	-87.16	-546.5	584.2	2,496.1	2,442.6	53.53	46.635	
9,700.0	7,055.4	7,000.0	6,998.6	54.6	1.9	-87.16	-546.5	584.2	2,539.5	2,485.0	54.51	46.585	
9,744.1	7,055.1	7,000.0	6,998.6	55.4	1.9	-87.16	-546.5	584.2	2,575.0	2,519.7	55.32	46.549	
9,800.0	7,054.7	7,000.0	6,998.6	56.4	1.9	-87.16	-546.5	584.2	2,620.4	2,564.1	56.34	46.511	
9,842.5	7,054.5	7,000.0	6,998.6	57.2	1.9	-87.16	-546.5	584.2	2,655.2	2,598.1	57.12	46.486	
9,900.0	7,054.1	7,000.0	6,998.6	58.2	1.9	-87.16	-546.5	584.2	2,702.6	2,644.5	58.17	46.459	
9,940.9	7,053.8	7,000.0	6,998.6	58.9	1.9	-87.16	-546.5	584.2	2,736.6	2,677.7	58.92	46.442	
10,000.0	7,053.5	7,000.0	6,998.6	60.0	1.9	-87.16	-546.5	584.2	2,786.0	2,726.0	60.01	46.425	
10,039.3	7,053.2	7,000.0	6,998.6	60.7	1.9	-87.16	-546.5	584.2	2,819.1	2,758.4	60.74	46.416	
10,100.0	7,052.8	7,000.0	6,998.6	61.8	1.9	-87.16	-546.5	584.2	2,870.4	2,808.6	61.85	46.407	
10,137.8	7,052.6	7,000.0	6,998.6	62.4	1.9	-87.16	-546.5	584.2	2,902.6	2,840.0	62.55	46.403	
10,200.0	7,052.2	7,000.0	6,998.6	63.6	1.9	-87.16	-546.5	584.2	2,955.8	2,892.1	63.70	46.401 SF	
10,236.2	7,052.0	7,000.0	6,998.6	64.2	1.9	-87.16	-546.5	584.2	2,986.9	2,922.6	64.37	46.402	
10,300.0	7,051.6	7,000.0	6,998.6	65.4	1.9	-87.16	-546.5	584.2	3,042.1	2,976.5	65.55	46.407	
10,334.6	7,051.4	7,000.0	6,998.6	66.0	1.9	-87.16	-546.5	584.2	3,072.2	3,006.0	66.20	46.411	
10,400.0	7,051.0	7,000.0	6,998.6	67.2	1.9	-87.16	-546.5	584.2	3,129.2	3,061.8	67.41	46.422	
10,433.0	7,050.7	7,000.0	6,998.6	67.8	1.9	-87.16	-546.5	584.2	3,158.1	3,090.1	68.02	46.428	
10,500.0	7,050.3	7,000.0	6,998.6	69.0	1.9	-87.16	-546.5	584.2	3,217.0	3,147.8	69.27	46.444	
10,531.5	7,050.1	7,000.0	6,998.6	69.6	1.9	-87.16	-546.5	584.2	3,244.8	3,175.0	69.85	46.452	
10,600.0	7,049.7	7,000.0	6,998.6	70.8	1.9	-87.16	-546.5	584.2	3,305.6	3,234.5	71.13	46.473	
10,629.9	7,049.5	7,000.0	6,998.6	71.4	1.9	-87.16	-546.5	584.2	3,332.2	3,260.5	71.69	46.483	
10,700.0	7,049.1	7,000.0	6,998.6	72.7	1.9	-87.16	-546.5	584.2	3,394.8	3,321.8	72.99	46.507	
10,728.3	7,048.9	7,000.0	6,998.6	73.2	1.9	-87.16	-546.5	584.2	3,420.1	3,346.6	73.52	46.518	
10,800.0	7,048.4	7,000.0	6,998.6	74.5	1.9	-87.16	-546.5	584.2	3,484.5	3,409.7	74.86	46.546	
10,826.7	7,048.3	7,000.0	6,998.6	75.0	1.9	-87.16	-546.5	584.2	3,508.6	3,433.3	75.36	46.557	
10,900.0	7,047.8	7,000.0	6,998.6	76.3	1.9	-87.16	-546.5	584.2	3,574.8	3,498.1	76.73	46.588	
10,925.2	7,047.7	7,000.0	6,998.6	76.8	1.9	-87.16	-546.5	584.2	3,597.7	3,520.5	77.20	46.600	
11,000.0	7,047.2	7,000.0	6,998.6	78.2	1.9	-87.16	-546.5	584.2	3,665.7	3,587.0	78.60	46.634	
11,023.6	7,047.0	7,000.0	6,998.6	78.6	1.9	-87.16	-546.5	584.2	3,687.2	3,608.1	79.05	46.645	
11,100.0	7,046.6	7,000.0	6,998.6	80.0	1.9	-87.16	-546.5	584.2	3,756.9	3,676.5	80.48	46.682	
11,122.0	7,046.4	7,000.0	6,998.6	80.4	1.9	-87.16	-546.5	584.2	3,777.1	3,696.2	80.89	46.692	
11,200.0	7,045.9	7,000.0	6,998.6	81.9	1.9	-87.16	-546.5	584.2	3,848.6	3,766.3	82.36	46.731	
11,220.4	7,045.8	7,000.0	6,998.6	82.3	1.9	-87.16	-546.5	584.2	3,867.4	3,784.7	82.74	46.742	
11,300.0	7,045.3	7,000.0	6,998.6	83.7	1.9	-87.16	-546.5	584.2	3,940.8	3,856.5	84.24	46.783	
11,318.9	7,045.2	7,000.0	6,998.6	84.1	1.9	-87.16	-546.5	584.2	3,958.2	3,873.6	84.59	46.792	
11,400.0	7,044.7	7,000.0	6,998.6	85.6	1.9	-87.16	-546.5	584.2	4,033.3	3,947.1	86.12	46.835	
11,417.3	7,044.6	7,000.0	6,998.6	85.9	1.9	-87.16	-546.5	584.2	4,049.3	3,962.8	86.44	46.844	
11,500.0	7,044.0	7,000.0	6,998.6	87.5	1.9	-87.16	-546.5	584.2	4,126.1	4,038.1	88.00	46.888	
11,515.7	7,043.9	7,000.0	6,998.6	87.7	1.9	-87.16	-546.5	584.2	4,140.7	4,052.4	88.29	46.897	
11,600.0	7,043.4	7,000.0	6,998.6	89.3	1.9	-87.16	-546.5	584.2	4,219.3	4,129.4	89.88	46.942	
11,614.1	7,043.3	7,000.0	6,998.6	89.6	1.9	-87.16	-546.5	584.2	4,232.5	4,142.3	90.15	46.950	
11,700.0	7,042.8	7,000.0	6,998.6	91.2	1.9	-87.16	-546.5	584.2	4,312.7	4,221.0	91.77	46.997	
11,712.6	7,042.7	7,000.0	6,998.6	91.4	1.9	-87.16	-546.5	584.2	4,324.5	4,232.5	92.00	47.004	
11,800.0	7,042.2	7,000.0	6,998.6	93.0	1.9	-87.16	-546.5	584.2	4,406.5	4,312.8	93.65	47.051	
11,811.0	7,042.1	7,000.0	6,998.6	93.2	1.9	-87.16	-546.5	584.2	4,416.8	4,323.0	93.86	47.057	
11,900.0	7,041.5	7,000.0	6,998.6	94.9	1.9	-87.16	-546.5	584.2	4,500.5	4,405.0	95.54	47.106	
11,909.4	7,041.5	7,000.0	6,998.6	95.1	1.9	-87.16	-546.5	584.2	4,509.4	4,413.7	95.72	47.111	
12,000.0	7,040.9	7,000.0	6,998.6	96.8	1.9	-87.16	-546.5	584.2	4,594.8	4,497.4	97.43	47.160	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,007.8	7,040.8	7,000.0	6,998.6	96.9	1.9	-87.16	-546.5	584.2	4,602.2	4,504.6	97.58	47.164	
12,100.0	7,040.3	7,000.0	6,998.6	98.7	1.9	-87.16	-546.5	584.2	4,689.3	4,590.0	99.32	47.214	
12,106.3	7,040.2	7,000.0	6,998.6	98.8	1.9	-87.16	-546.5	584.2	4,695.3	4,595.8	99.44	47.218	
12,200.0	7,039.6	7,000.0	6,998.6	100.5	1.9	-87.16	-546.5	584.2	4,784.1	4,682.9	101.21	47.268	
12,204.7	7,039.6	7,000.0	6,998.6	100.6	1.9	-87.16	-546.5	584.2	4,788.5	4,687.2	101.30	47.271	
12,300.0	7,039.0	7,000.0	6,998.6	102.4	1.9	-87.16	-546.5	584.2	4,879.0	4,775.9	103.10	47.322	
12,303.1	7,039.0	7,000.0	6,998.6	102.5	1.9	-87.16	-546.5	584.2	4,882.0	4,778.8	103.16	47.323	
12,400.0	7,038.4	7,000.0	6,998.6	104.3	1.9	-87.16	-546.5	584.2	4,974.2	4,869.2	105.00	47.375	
12,401.5	7,038.4	7,000.0	6,998.6	104.3	1.9	-87.16	-546.5	584.2	4,975.7	4,870.6	105.03	47.376	
12,500.0	7,037.8	7,000.0	6,998.6	106.2	1.9	-87.16	-546.5	584.2	5,069.5	4,962.6	106.89	47.427	
12,598.4	7,037.1	7,000.0	6,998.6	108.0	1.9	-87.16	-546.5	584.2	5,163.5	5,054.7	108.75	47.478	
12,600.0	7,037.1	7,000.0	6,998.6	108.0	1.9	-87.16	-546.5	584.2	5,165.0	5,056.2	108.78	47.479	
12,696.8	7,036.5	7,000.0	6,998.6	109.9	1.9	-87.16	-546.5	584.2	5,257.7	5,147.0	110.62	47.529	
12,700.0	7,036.5	7,000.0	6,998.6	109.9	1.9	-87.16	-546.5	584.2	5,260.7	5,150.0	110.68	47.531	
12,795.2	7,035.9	7,000.0	6,998.6	111.7	1.9	-87.16	-546.5	584.2	5,352.0	5,239.5	112.49	47.579	
12,800.0	7,035.9	7,000.0	6,998.6	111.8	1.9	-87.16	-546.5	584.2	5,356.5	5,244.0	112.58	47.581	
12,893.7	7,035.3	7,000.0	6,998.6	113.6	1.9	-87.16	-546.5	584.2	5,446.5	5,332.1	114.35	47.628	
12,900.0	7,035.2	7,000.0	6,998.6	113.7	1.9	-87.16	-546.5	584.2	5,452.5	5,338.1	114.47	47.631	
12,992.1	7,034.7	7,000.0	6,998.6	115.4	1.9	-87.16	-546.5	584.2	5,541.1	5,424.8	116.22	47.677	
13,000.0	7,034.6	7,000.0	6,998.6	115.6	1.9	-87.16	-546.5	584.2	5,548.7	5,432.3	116.37	47.680	
13,090.5	7,034.0	7,000.0	6,998.6	117.3	1.9	-87.16	-546.5	584.2	5,635.8	5,517.7	118.09	47.724	
13,100.0	7,034.0	7,000.0	6,998.6	117.5	1.9	-87.16	-546.5	584.2	5,644.9	5,526.7	118.27	47.729	
13,188.9	7,033.4	7,000.0	6,998.6	119.1	1.9	-87.16	-546.5	584.2	5,730.7	5,610.7	119.96	47.772	
13,200.0	7,033.4	7,000.0	6,998.6	119.3	1.9	-87.16	-546.5	584.2	5,741.3	5,621.1	120.17	47.777	
13,287.4	7,032.8	7,000.0	6,998.6	121.0	1.9	-87.16	-546.5	584.2	5,825.6	5,703.8	121.83	47.818	
13,300.0	7,032.7	7,000.0	6,998.6	121.2	1.9	-87.16	-546.5	584.2	5,837.8	5,715.8	122.07	47.824	
13,385.8	7,032.2	7,000.0	6,998.6	122.9	1.9	-87.16	-546.5	584.2	5,920.7	5,797.0	123.70	47.864	
13,400.0	7,032.1	7,000.0	6,998.6	123.1	1.9	-87.16	-546.5	584.2	5,934.5	5,810.5	123.97	47.870	
13,484.2	7,031.6	7,000.0	6,998.6	124.7	1.9	-87.16	-546.5	584.2	6,015.9	5,890.4	125.57	47.909	
13,500.0	7,031.5	7,000.0	6,998.6	125.0	1.9	-87.16	-546.5	584.2	6,031.2	5,905.3	125.87	47.916	
13,582.6	7,030.9	7,000.0	6,998.6	126.6	1.9	-87.16	-546.5	584.2	6,111.2	5,983.8	127.44	47.953	
13,600.0	7,030.8	7,000.0	6,998.6	126.9	1.9	-87.16	-546.5	584.2	6,128.0	6,000.3	127.77	47.961	
13,681.1	7,030.3	7,000.0	6,998.6	128.4	1.9	-87.16	-546.5	584.2	6,206.6	6,077.3	129.31	47.997	
13,700.0	7,030.2	7,000.0	6,998.6	128.8	1.9	-87.16	-546.5	584.2	6,225.0	6,095.3	129.67	48.005	
13,779.5	7,029.7	7,000.0	6,998.6	130.3	1.9	-87.16	-546.5	584.2	6,302.1	6,170.9	131.18	48.040	
13,800.0	7,029.6	7,000.0	6,998.6	130.7	1.9	-87.16	-546.5	584.2	6,322.0	6,190.4	131.57	48.049	
13,877.9	7,029.1	7,000.0	6,998.6	132.2	1.9	-87.16	-546.5	584.2	6,397.7	6,264.6	133.06	48.082	
13,900.0	7,029.0	7,000.0	6,998.6	132.6	1.9	-87.16	-546.5	584.2	6,419.1	6,285.7	133.48	48.092	
13,976.3	7,028.5	7,000.0	6,998.6	134.0	1.9	-87.16	-546.5	584.2	6,493.4	6,358.4	134.93	48.124	
14,000.0	7,028.3	7,000.0	6,998.6	134.5	1.9	-87.16	-546.5	584.2	6,516.4	6,381.0	135.38	48.134	
14,074.8	7,027.9	7,000.0	6,998.6	135.9	1.9	-87.16	-546.5	584.2	6,589.1	6,452.3	136.80	48.165	
14,100.0	7,027.7	7,000.0	6,998.6	136.4	1.9	-87.16	-546.5	584.2	6,613.7	6,476.4	137.28	48.175	
14,173.2	7,027.2	7,000.0	6,998.6	137.8	1.9	-87.16	-546.5	584.2	6,684.9	6,546.3	138.68	48.205	
14,200.0	7,027.1	7,000.0	6,998.6	138.3	1.9	-87.16	-546.5	584.2	6,711.0	6,571.8	139.19	48.216	
14,210.5	7,027.0	7,000.0	6,998.6	138.5	1.9	-87.16	-546.5	584.2	6,721.3	6,581.9	139.39	48.220	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
0.0	0.0	0.0	0.0	0.0	0.0	-160.74	-1,595.7	-557.7	1,690.4				
98.4	98.4	79.2	79.2	0.1	0.0	-160.73	-1,595.6	-557.9	1,690.3	1,690.2	0.15	N/A	
100.0	100.0	80.7	80.7	0.1	0.1	-160.73	-1,595.6	-557.9	1,690.3	1,690.2	0.15	N/A	
196.8	196.8	165.4	165.4	0.3	0.1	-160.72	-1,595.7	-558.3	1,690.7	1,690.2	0.45	3,771.550	
200.0	200.0	168.0	168.0	0.3	0.1	-160.72	-1,595.8	-558.3	1,690.7	1,690.2	0.46	3,689.762	
295.3	295.3	268.6	268.6	0.5	0.2	-160.71	-1,596.6	-558.7	1,691.5	1,690.7	0.78	2,180.178	
300.0	300.0	274.3	274.3	0.5	0.2	-160.71	-1,596.6	-558.7	1,691.5	1,690.7	0.79	2,135.325	
393.7	393.7	376.0	376.0	0.8	0.3	-160.70	-1,596.6	-559.0	1,691.6	1,690.6	1.06	1,599.509	
400.0	400.0	382.6	382.6	0.8	0.3	-160.70	-1,596.6	-559.1	1,691.6	1,690.6	1.07	1,574.665	
445.2	445.2	426.7	426.7	0.9	0.3	-160.69	-1,596.4	-559.5	1,691.6	1,690.4	1.20	1,410.174	
492.1	492.1	470.4	470.3	1.0	0.4	-160.67	-1,596.3	-559.8	1,691.7	1,690.3	1.33	1,268.849	
500.0	500.0	477.7	477.7	1.0	0.4	-160.67	-1,596.3	-559.9	1,691.7	1,690.3	1.36	1,247.883	
590.5	590.5	571.3	571.3	1.2	0.4	-160.65	-1,596.3	-560.5	1,691.9	1,690.2	1.61	1,048.048	
600.0	600.0	581.4	581.4	1.2	0.4	-160.65	-1,596.3	-560.6	1,691.9	1,690.2	1.64	1,030.790	
632.2	632.2	613.8	613.8	1.3	0.4	-160.64	-1,596.2	-560.8	1,691.9	1,690.1	1.73	977.010	
689.0	689.0	666.5	666.5	1.4	0.5	-160.63	-1,596.1	-561.2	1,691.9	1,690.0	1.89	896.315	
700.0	700.0	676.8	676.8	1.4	0.5	-160.63	-1,596.1	-561.3	1,691.9	1,690.0	1.92	882.181	
787.4	787.4	773.0	773.0	1.6	0.5	-160.60	-1,596.0	-562.1	1,692.1	1,689.9	2.16	783.758	
800.0	800.0	787.7	787.7	1.7	0.5	-160.59	-1,595.9	-562.2	1,692.0	1,689.8	2.19	771.307	
858.6	858.6	840.2	840.1	1.8	0.5	-160.58	-1,595.6	-562.6	1,691.9	1,689.5	2.35	720.861	
885.8	885.8	862.8	862.8	1.9	0.6	-160.57	-1,595.5	-562.8	1,691.9	1,689.5	2.42	699.941	
900.0	900.0	874.7	874.6	1.9	0.6	-160.57	-1,595.5	-563.0	1,692.0	1,689.5	2.45	689.520	
984.2	984.2	954.1	954.1	2.1	0.6	-160.54	-1,595.8	-563.8	1,692.5	1,689.8	2.68	631.597	
1,000.0	1,000.0	969.9	969.9	2.1	0.6	-160.54	-1,595.8	-564.0	1,692.6	1,689.9	2.72	621.638	
1,082.7	1,082.7	1,054.2	1,054.1	2.3	0.6	-160.51	-1,596.2	-564.8	1,693.2	1,690.2	2.95	574.519	
1,100.0	1,100.0	1,072.0	1,071.9	2.3	0.7	-160.51	-1,596.2	-564.9	1,693.3	1,690.3	2.99	565.581	
1,181.1	1,181.1	1,152.4	1,152.3	2.5	0.7	-86.37	-1,596.6	-565.2	1,693.6	1,690.5	3.16	536.206	
1,200.0	1,200.0	1,170.8	1,170.7	2.6	0.7	-86.39	-1,596.7	-565.2	1,693.7	1,690.5	3.21	528.305	
1,279.5	1,279.4	1,249.1	1,249.1	2.7	0.7	-86.51	-1,597.2	-565.3	1,694.0	1,690.6	3.40	497.629	
1,300.0	1,299.8	1,269.4	1,269.4	2.8	0.7	-86.56	-1,597.4	-565.4	1,694.1	1,690.6	3.46	490.256	
1,377.9	1,377.5	1,352.1	1,352.1	2.9	0.8	-86.78	-1,597.8	-565.7	1,694.2	1,690.5	3.66	463.131	
1,400.0	1,399.5	1,376.5	1,376.5	3.0	0.8	-86.87	-1,597.9	-565.7	1,694.1	1,690.4	3.72	455.997	
1,476.4	1,475.3	1,456.5	1,456.4	3.2	0.8	-87.18	-1,597.9	-566.0	1,693.7	1,689.8	3.92	431.591	
1,500.0	1,498.7	1,480.7	1,480.6	3.2	0.8	-87.29	-1,597.8	-566.1	1,693.6	1,689.6	3.99	424.568	
1,574.8	1,572.6	1,560.8	1,560.7	3.4	0.8	-87.70	-1,597.5	-566.5	1,693.0	1,688.7	4.21	401.892	
1,600.0	1,597.5	1,588.1	1,588.1	3.5	0.8	-87.86	-1,597.3	-566.7	1,692.7	1,688.4	4.29	394.750	
1,673.2	1,669.4	1,654.5	1,654.4	3.7	0.9	-88.27	-1,596.8	-567.3	1,691.9	1,687.3	4.53	373.466	
1,700.2	1,695.8	1,678.0	1,677.9	3.8	0.9	-88.42	-1,596.8	-567.5	1,691.7	1,687.1	4.62	366.195	
1,771.6	1,765.7	1,742.2	1,742.2	4.1	0.9	-88.85	-1,596.7	-568.2	1,691.4	1,686.5	4.88	346.413	
1,791.9	1,785.5	1,760.8	1,760.7	4.1	0.9	-88.98	-1,596.6	-568.4	1,691.4	1,686.5	4.96	341.149	
1,800.0	1,793.4	1,768.2	1,768.2	4.2	0.9	-89.03	-1,596.6	-568.5	1,691.4	1,686.4	4.99	339.087	
1,870.1	1,862.0	1,835.4	1,835.3	4.4	0.9	-89.46	-1,596.6	-569.7	1,691.6	1,686.3	5.26	321.408	
1,900.0	1,891.2	1,865.3	1,865.3	4.5	0.9	-89.65	-1,596.6	-570.4	1,691.7	1,686.3	5.38	314.377	
1,968.5	1,958.3	1,934.1	1,934.0	4.8	1.0	-90.08	-1,596.4	-572.1	1,691.9	1,686.2	5.66	298.871	
2,000.0	1,989.1	1,965.7	1,965.6	4.9	1.0	-90.28	-1,596.3	-572.8	1,692.0	1,686.2	5.79	292.244	
2,066.9	2,054.5	2,043.7	2,043.6	5.2	1.0	-90.78	-1,596.0	-574.2	1,692.2	1,686.1	6.07	278.739	
2,100.0	2,086.9	2,087.8	2,087.7	5.3	1.0	-91.07	-1,595.4	-574.8	1,692.1	1,685.9	6.21	272.476	
2,165.3	2,150.8	2,146.2	2,146.0	5.6	1.0	-91.44	-1,594.5	-575.6	1,691.6	1,685.2	6.49	260.834	
2,191.0	2,175.8	2,167.2	2,167.0	5.7	1.0	-91.58	-1,594.3	-575.9	1,691.6	1,685.0	6.59	256.565	
2,200.0	2,184.7	2,174.6	2,174.5	5.7	1.1	-91.63	-1,594.2	-576.0	1,691.6	1,685.0	6.63	255.093	
2,263.8	2,247.1	2,238.2	2,238.1	6.0	1.1	-92.04	-1,593.8	-577.0	1,691.8	1,684.9	6.91	244.948	
2,300.0	2,282.5	2,280.4	2,280.2	6.1	1.1	-92.32	-1,593.3	-577.6	1,691.8	1,684.7	7.06	239.477	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
2,362.2	2,343.3	2,342.1	2,341.9	6.4	1.1	-92.72	-1,592.4	-578.4	1,691.7	1,684.4	7.34	230.591	
2,366.4	2,347.5	2,346.0	2,345.8	6.4	1.1	-92.74	-1,592.4	-578.4	1,691.7	1,684.4	7.35	230.015	
2,400.0	2,380.3	2,377.1	2,376.9	6.6	1.1	-92.94	-1,592.0	-578.9	1,691.7	1,684.2	7.50	225.505	
2,460.6	2,439.6	2,437.2	2,437.0	6.8	1.1	-93.33	-1,591.2	-579.7	1,691.9	1,684.1	7.77	217.689	
2,500.0	2,478.1	2,477.9	2,477.7	7.0	1.2	-93.60	-1,590.7	-580.3	1,692.0	1,684.1	7.95	212.913	
2,559.0	2,535.9	2,536.9	2,536.7	7.2	1.2	-93.98	-1,589.8	-581.1	1,692.2	1,683.9	8.21	206.083	
2,600.0	2,575.9	2,576.9	2,576.7	7.4	1.2	-94.24	-1,589.3	-581.7	1,692.3	1,683.9	8.39	201.605	
2,657.5	2,632.2	2,631.5	2,631.3	7.7	1.2	-94.59	-1,588.5	-582.5	1,692.6	1,683.9	8.65	195.611	
2,700.0	2,673.8	2,671.1	2,670.8	7.8	1.2	-94.85	-1,588.0	-583.0	1,692.9	1,684.1	8.84	191.417	
2,755.9	2,728.4	2,727.6	2,727.4	8.1	1.2	-95.22	-1,587.3	-583.7	1,693.4	1,684.3	9.10	186.138	
2,800.0	2,771.6	2,776.9	2,776.6	8.3	1.2	-95.53	-1,586.6	-584.4	1,693.8	1,684.5	9.30	182.153	
2,854.3	2,824.7	2,828.7	2,828.5	8.5	1.3	-95.86	-1,585.7	-585.3	1,694.1	1,684.6	9.55	177.475	
2,900.0	2,869.4	2,867.7	2,867.5	8.7	1.3	-96.11	-1,585.1	-586.0	1,694.6	1,684.8	9.75	173.761	
2,952.7	2,921.0	2,916.5	2,916.3	8.9	1.3	-96.43	-1,584.6	-586.7	1,695.4	1,685.4	9.99	169.661	
3,000.0	2,967.2	2,968.9	2,968.6	9.2	1.3	-96.77	-1,583.9	-587.4	1,696.0	1,685.8	10.21	166.132	
3,051.2	3,017.3	3,020.9	3,020.6	9.4	1.3	-97.11	-1,583.2	-587.9	1,696.7	1,686.2	10.44	162.464	
3,100.0	3,065.0	3,065.3	3,065.0	9.6	1.3	-97.40	-1,582.6	-588.4	1,697.4	1,686.7	10.67	159.139	
3,149.6	3,113.5	3,110.8	3,110.5	9.8	1.4	-97.69	-1,582.0	-589.0	1,698.3	1,687.4	10.89	155.914	
3,200.0	3,162.8	3,158.5	3,158.2	10.0	1.4	-98.01	-1,581.6	-589.3	1,699.3	1,688.2	11.12	152.814	
3,248.0	3,209.8	3,200.0	3,199.7	10.3	1.4	-98.30	-1,581.2	-589.3	1,700.4	1,689.0	11.34	149.986	
3,300.0	3,260.6	3,244.8	3,244.5	10.5	1.4	-98.62	-1,581.1	-589.0	1,701.8	1,690.2	11.57	147.086	
3,346.4	3,306.1	3,281.9	3,281.6	10.7	1.4	-98.88	-1,581.2	-588.7	1,703.3	1,691.6	11.78	144.615	
3,400.0	3,358.4	3,334.4	3,334.1	10.9	1.4	-99.27	-1,581.5	-588.1	1,705.4	1,693.4	12.02	141.863	
3,444.9	3,402.3	3,384.4	3,384.0	11.1	1.4	-99.64	-1,581.6	-587.4	1,707.0	1,694.8	12.23	139.618	
3,500.0	3,456.3	3,448.2	3,447.9	11.4	1.4	-100.10	-1,581.5	-586.7	1,708.9	1,696.4	12.48	136.975	
3,543.3	3,498.6	3,499.2	3,498.9	11.6	1.4	-100.46	-1,581.1	-586.4	1,710.1	1,697.5	12.67	134.973	
3,600.0	3,554.1	3,565.2	3,564.8	11.8	1.4	-100.90	-1,580.2	-586.5	1,711.6	1,698.6	12.93	132.369	
3,641.7	3,594.9	3,611.9	3,611.6	12.0	1.4	-101.21	-1,579.2	-586.9	1,712.4	1,699.3	13.12	130.504	
3,700.0	3,651.9	3,670.5	3,670.1	12.3	1.4	-101.59	-1,578.0	-587.3	1,713.6	1,700.3	13.39	127.986	
3,740.1	3,691.2	3,709.7	3,709.4	12.5	1.4	-101.85	-1,577.1	-587.6	1,714.5	1,700.9	13.57	126.312	
3,800.0	3,749.7	3,763.8	3,763.4	12.7	1.4	-102.20	-1,576.0	-588.0	1,715.9	1,702.1	13.85	123.918	
3,838.6	3,787.4	3,800.0	3,799.6	12.9	1.4	-102.43	-1,575.3	-588.4	1,716.9	1,702.9	14.02	122.431	
3,900.0	3,847.5	3,857.6	3,857.2	13.2	1.5	-102.79	-1,574.3	-589.1	1,718.7	1,704.4	14.30	120.153	
3,937.0	3,883.7	3,893.1	3,892.7	13.3	1.5	-103.02	-1,573.7	-589.6	1,719.9	1,705.4	14.47	118.826	
4,000.0	3,945.3	3,950.5	3,950.0	13.6	1.5	-103.37	-1,572.8	-590.6	1,722.0	1,707.2	14.76	116.660	
4,035.4	3,980.0	3,982.5	3,982.1	13.8	1.5	-103.56	-1,572.4	-591.3	1,723.3	1,708.4	14.92	115.487	
4,100.0	4,043.1	4,036.5	4,036.0	14.1	1.5	-103.88	-1,571.8	-592.5	1,725.9	1,710.7	15.21	113.442	
4,133.8	4,076.3	4,063.7	4,063.2	14.2	1.5	-104.05	-1,571.7	-593.1	1,727.5	1,712.1	15.37	112.417	
4,200.0	4,141.0	4,116.6	4,116.1	14.5	1.5	-104.36	-1,571.7	-594.2	1,730.9	1,715.3	15.66	110.502	
4,232.3	4,172.5	4,142.0	4,141.5	14.7	1.5	-104.52	-1,571.8	-594.7	1,732.8	1,717.0	15.81	109.612	
4,300.0	4,238.8	4,200.0	4,199.5	15.0	1.6	-104.87	-1,572.4	-595.8	1,737.2	1,721.1	16.11	107.830	
4,330.7	4,268.8	4,225.1	4,224.6	15.1	1.6	-105.02	-1,572.8	-596.3	1,739.4	1,723.1	16.25	107.056	
4,400.0	4,336.6	4,295.7	4,295.2	15.4	1.6	-105.44	-1,573.8	-597.8	1,744.2	1,727.7	16.55	105.361	
4,429.1	4,365.1	4,319.8	4,319.3	15.6	1.6	-105.58	-1,574.1	-598.3	1,746.3	1,729.6	16.68	104.671	
4,500.0	4,434.4	4,376.0	4,375.5	15.9	1.6	-105.92	-1,575.2	-599.4	1,751.8	1,734.8	17.00	103.066	
4,527.5	4,461.3	4,400.0	4,399.4	16.0	1.6	-106.06	-1,575.8	-599.8	1,754.1	1,737.0	17.12	102.469	
4,600.0	4,532.2	4,461.5	4,460.9	16.4	1.6	-106.43	-1,577.6	-600.6	1,760.4	1,743.0	17.44	100.961	
4,626.0	4,557.6	4,484.3	4,483.7	16.5	1.6	-106.58	-1,578.3	-600.8	1,762.8	1,745.3	17.55	100.441	
4,700.0	4,630.0	4,556.2	4,555.5	16.8	1.6	-107.02	-1,580.6	-601.4	1,769.8	1,751.9	17.87	99.017	
4,724.4	4,653.9	4,580.6	4,580.0	16.9	1.6	-107.17	-1,581.4	-601.7	1,772.1	1,754.1	17.98	98.561	
4,800.0	4,727.8	4,652.9	4,652.1	17.3	1.6	-107.60	-1,583.7	-602.7	1,779.3	1,761.0	18.31	97.188	
4,822.8	4,750.2	4,674.3	4,673.5	17.4	1.6	-107.73	-1,584.4	-603.0	1,781.5	1,763.1	18.41	96.786	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
4,900.0	4,825.6	4,747.3	4,746.6	17.7	1.7	-108.17	-1,586.9	-603.7	1,789.2	1,770.4	18.74	95.470	
4,921.2	4,846.4	4,767.6	4,766.8	17.8	1.7	-108.29	-1,587.6	-603.9	1,791.3	1,772.5	18.83	95.119	
5,000.0	4,923.5	4,846.6	4,845.7	18.2	1.7	-108.76	-1,590.3	-604.6	1,799.3	1,780.2	19.17	93.859	
5,019.7	4,942.7	4,867.1	4,866.2	18.3	1.7	-108.88	-1,591.0	-604.7	1,801.3	1,782.1	19.25	93.553	
5,100.0	5,021.3	4,949.8	4,948.9	18.6	1.7	-109.39	-1,593.6	-605.1	1,809.4	1,789.8	19.60	92.334	
5,118.1	5,039.0	4,968.3	4,967.4	18.7	1.7	-109.50	-1,594.1	-605.2	1,811.3	1,791.6	19.67	92.066	
5,200.0	5,119.1	5,054.5	5,053.5	19.1	1.7	-110.01	-1,596.6	-605.7	1,819.4	1,799.4	20.02	90.883	
5,216.5	5,135.3	5,072.1	5,071.1	19.2	1.7	-110.12	-1,597.0	-605.7	1,821.1	1,801.0	20.09	90.650	
5,300.0	5,216.9	5,160.5	5,159.6	19.6	1.7	-110.67	-1,599.0	-605.3	1,829.2	1,808.8	20.44	89.498	
5,314.9	5,231.5	5,176.3	5,175.4	19.6	1.7	-110.77	-1,599.3	-605.3	1,830.6	1,810.1	20.50	89.295	
5,400.0	5,314.7	5,262.6	5,261.6	20.0	1.7	-111.30	-1,601.0	-604.9	1,838.8	1,817.9	20.86	88.165	
5,413.4	5,327.8	5,275.9	5,274.9	20.1	1.7	-111.38	-1,601.2	-604.8	1,840.1	1,819.2	20.91	87.992	
5,500.0	5,412.5	5,374.5	5,373.5	20.5	1.7	-112.00	-1,602.7	-603.9	1,848.3	1,827.0	21.27	86.906	
5,511.8	5,424.1	5,388.6	5,387.6	20.5	1.7	-112.09	-1,602.8	-603.7	1,849.3	1,828.0	21.32	86.761	
5,600.0	5,510.3	5,472.3	5,471.3	20.9	1.7	-112.62	-1,603.5	-602.5	1,857.3	1,835.6	21.68	85.673	
5,610.2	5,520.3	5,481.7	5,480.7	21.0	1.7	-112.68	-1,603.6	-602.4	1,858.3	1,836.5	21.72	85.551	
5,700.0	5,608.2	5,576.8	5,575.7	21.4	1.7	-113.28	-1,604.4	-601.1	1,866.6	1,844.5	22.09	84.510	
5,708.6	5,616.6	5,586.3	5,585.3	21.4	1.7	-113.34	-1,604.4	-601.0	1,867.4	1,845.3	22.12	84.411	
5,729.2	5,636.7	5,610.7	5,609.6	21.5	1.7	-113.49	-1,604.5	-600.8	1,869.2	1,847.0	22.20	84.183	
5,800.0	5,706.1	5,703.6	5,702.6	21.8	1.7	-114.13	-1,604.2	-599.8	1,874.8	1,852.4	22.41	83.653	
5,807.1	5,713.1	5,710.5	5,709.5	21.8	1.7	-114.17	-1,604.2	-599.8	1,875.3	1,852.8	22.43	83.615	
5,900.0	5,804.7	5,800.0	5,799.0	22.1	1.7	-114.71	-1,603.4	-599.2	1,881.0	1,858.3	22.64	83.085	
5,905.5	5,810.2	5,806.1	5,805.0	22.1	1.7	-114.74	-1,603.3	-599.1	1,881.3	1,858.6	22.65	83.059	
6,000.0	5,903.9	5,892.8	5,891.7	22.3	1.7	-115.16	-1,602.8	-598.6	1,886.1	1,863.2	22.84	82.578	
6,003.9	5,907.8	5,900.0	5,898.9	22.4	1.7	-115.19	-1,602.7	-598.6	1,886.2	1,863.4	22.85	82.563	
6,100.0	6,003.4	5,985.2	5,984.1	22.6	1.7	-115.51	-1,602.5	-597.6	1,890.1	1,867.1	23.01	82.136	
6,102.3	6,005.7	5,987.3	5,986.3	22.6	1.7	-115.52	-1,602.5	-597.6	1,890.2	1,867.2	23.01	82.128	
6,200.0	6,103.2	6,086.7	6,085.7	22.7	1.7	-115.78	-1,602.3	-596.2	1,892.8	1,869.7	23.16	81.739	
6,200.8	6,104.0	6,087.5	6,086.5	22.7	1.7	-115.78	-1,602.2	-596.2	1,892.9	1,869.7	23.16	81.736	
6,299.2	6,202.3	6,194.0	6,192.9	22.9	1.7	-115.94	-1,601.6	-594.3	1,893.8	1,870.5	23.28	81.350	
6,300.0	6,203.1	6,194.9	6,193.8	22.9	1.7	-115.94	-1,601.6	-594.3	1,893.8	1,870.5	23.28	81.347	
6,329.4	6,232.5	6,227.0	6,225.9	22.9	1.7	169.86	-1,601.3	-593.5	1,893.7	1,870.4	23.29	81.295	
6,397.6	6,300.8	6,301.5	6,300.3	23.0	1.7	169.79	-1,600.3	-591.2	1,893.2	1,869.8	23.38	80.960	
6,400.0	6,303.1	6,304.0	6,302.9	23.0	1.7	169.79	-1,600.3	-591.1	1,893.1	1,869.7	23.39	80.948	
6,449.4	6,352.5	6,357.0	6,355.8	23.1	1.7	169.72	-1,599.3	-589.1	1,892.6	1,869.2	23.46	80.684	
6,496.0	6,399.2	6,409.3	6,408.0	23.1	1.7	-10.59	-1,598.3	-587.0	1,890.5	1,867.0	23.50	80.448	
6,500.0	6,403.1	6,414.8	6,413.5	23.1	1.7	-10.61	-1,598.2	-586.8	1,890.2	1,866.7	23.50	80.425	
6,550.0	6,452.8	6,484.3	6,482.9	23.1	1.7	-10.83	-1,596.2	-584.2	1,884.0	1,860.5	23.54	80.031	
6,594.5	6,496.6	6,530.6	6,529.2	23.2	1.7	-11.07	-1,594.7	-582.7	1,875.3	1,851.8	23.57	79.571	
6,600.0	6,502.0	6,535.7	6,534.3	23.2	1.7	-11.10	-1,594.5	-582.6	1,874.1	1,850.5	23.57	79.512	
6,650.0	6,550.5	6,581.2	6,579.8	23.2	1.7	-11.42	-1,593.1	-581.5	1,860.9	1,837.3	23.56	78.979	
6,692.9	6,591.4	6,618.0	6,616.6	23.2	1.7	-11.76	-1,592.0	-580.9	1,847.0	1,823.5	23.51	78.563	
6,700.0	6,598.0	6,623.8	6,622.4	23.2	1.7	-11.82	-1,591.9	-580.8	1,844.5	1,821.0	23.50	78.503	
6,750.0	6,644.4	6,663.9	6,662.4	23.2	1.7	-12.30	-1,590.9	-580.4	1,825.1	1,801.7	23.36	78.127	
6,791.3	6,681.6	6,700.0	6,698.5	23.2	1.7	-12.79	-1,590.2	-580.1	1,806.8	1,783.6	23.20	77.897	
6,800.0	6,689.3	6,700.0	6,698.5	23.2	1.7	-12.87	-1,590.2	-580.1	1,802.7	1,779.6	23.15	77.872	
6,850.0	6,732.6	6,737.5	6,736.1	23.2	1.7	-13.57	-1,589.6	-580.0	1,777.6	1,754.7	22.86	77.751	
6,889.7	6,765.7	6,764.4	6,762.9	23.2	1.7	-14.21	-1,589.3	-580.0	1,755.6	1,733.1	22.58	77.753	
6,900.0	6,774.0	6,771.1	6,769.7	23.2	1.7	-14.40	-1,589.2	-580.0	1,749.7	1,727.2	22.50	77.772	
6,950.0	6,813.3	6,800.0	6,798.5	23.2	1.8	-15.37	-1,589.0	-580.0	1,719.3	1,697.3	22.06	77.935	
6,988.2	6,841.9	6,828.7	6,827.2	23.2	1.8	-16.32	-1,589.0	-580.1	1,694.4	1,672.8	21.69	78.129	
7,000.0	6,850.5	6,836.2	6,834.8	23.2	1.8	-16.63	-1,588.9	-580.1	1,686.5	1,664.9	21.56	78.214	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
7,050.0	6,885.2	6,867.0	6,865.5	23.2	1.8	-18.13	-1,588.9	-580.1	1,651.3	1,630.3	21.01	78.599	
7,086.6	6,908.9	6,888.1	6,886.6	23.2	1.8	-19.44	-1,589.0	-580.1	1,624.1	1,603.5	20.59	78.896	
7,100.0	6,917.3	6,900.0	6,898.5	23.2	1.8	-20.04	-1,589.0	-580.1	1,613.9	1,593.5	20.42	79.029	
7,150.0	6,946.6	6,920.0	6,918.6	23.2	1.8	-22.23	-1,589.1	-580.1	1,574.6	1,554.8	19.82	79.446	
7,185.0	6,965.5	6,935.7	6,934.2	23.3	1.8	-24.12	-1,589.2	-580.0	1,546.0	1,526.6	19.40	79.691	
7,200.0	6,973.1	6,942.0	6,940.6	23.3	1.8	-25.03	-1,589.3	-580.0	1,533.5	1,514.2	19.25	79.667	
7,250.0	6,996.5	6,961.7	6,960.3	23.3	1.8	-28.55	-1,589.5	-580.0	1,490.8	1,472.0	18.76	79.451	
7,283.4	7,010.4	6,973.6	6,972.1	23.4	1.8	-31.43	-1,589.6	-580.0	1,461.4	1,442.9	18.52	78.894	
7,300.0	7,016.8	6,979.1	6,977.6	23.4	1.8	-33.04	-1,589.7	-580.0	1,446.7	1,428.3	18.44	78.446	
7,350.0	7,033.8	7,000.0	6,998.5	23.5	1.8	-39.17	-1,590.0	-579.9	1,401.5	1,383.1	18.40	76.185	
7,381.9	7,043.0	7,000.0	6,998.5	23.6	1.8	-43.16	-1,590.0	-579.9	1,372.1	1,353.6	18.49	74.224	
7,400.0	7,047.6	7,000.0	6,998.5	23.6	1.8	-45.71	-1,590.0	-579.9	1,355.3	1,336.7	18.59	72.917	
7,450.0	7,057.9	7,000.0	6,998.5	23.8	1.8	-53.90	-1,590.0	-579.9	1,308.4	1,289.4	19.05	68.697	
7,480.3	7,062.5	7,000.0	6,998.5	23.9	1.8	-59.76	-1,590.0	-579.9	1,279.8	1,260.4	19.41	65.924	
7,500.0	7,064.8	7,000.0	6,998.5	24.0	1.8	-63.94	-1,590.0	-579.9	1,261.1	1,241.4	19.65	64.161	
7,550.0	7,068.3	7,000.0	6,998.5	24.2	1.8	-75.62	-1,590.0	-579.9	1,213.5	1,193.2	20.25	59.926	
7,578.7	7,068.7	7,000.0	6,998.5	24.4	1.8	-82.78	-1,590.0	-579.9	1,186.1	1,165.5	20.62	57.526	
7,578.9	7,068.7	7,000.0	6,998.5	24.4	1.8	-82.82	-1,590.0	-579.9	1,185.9	1,165.3	20.62	57.514	
7,600.0	7,068.6	7,000.0	6,998.5	24.5	1.8	-82.82	-1,590.0	-579.9	1,165.8	1,145.0	20.82	55.982	
7,677.1	7,068.1	7,000.0	6,998.5	25.1	1.8	-82.82	-1,590.0	-579.9	1,092.6	1,071.0	21.55	50.698	
7,700.0	7,067.9	7,000.0	6,998.5	25.2	1.8	-82.82	-1,590.0	-579.9	1,071.0	1,049.3	21.77	49.205	
7,775.6	7,067.4	7,000.0	6,998.5	25.9	1.8	-82.82	-1,590.0	-579.9	1,000.1	977.5	22.57	44.309	
7,800.0	7,067.3	7,000.0	6,998.5	26.1	1.8	-82.82	-1,590.0	-579.9	977.3	954.5	22.83	42.807	
7,874.0	7,066.8	7,000.0	6,998.5	26.8	1.8	-82.82	-1,590.0	-579.9	908.8	885.0	23.77	38.239	
7,900.0	7,066.7	7,000.0	6,998.5	27.0	1.8	-82.82	-1,590.0	-579.9	884.9	860.8	24.09	36.727	
7,972.4	7,066.2	7,000.0	6,998.5	27.8	1.8	-82.82	-1,590.0	-579.9	819.1	794.1	25.07	32.670	
8,000.0	7,066.0	7,000.0	6,998.5	28.1	1.8	-82.82	-1,590.0	-579.9	794.4	769.0	25.45	31.220	
8,070.8	7,065.6	7,000.0	6,998.5	28.9	1.8	-82.82	-1,590.0	-579.9	731.8	705.3	26.45	27.661	
8,100.0	7,065.4	7,000.0	6,998.5	29.3	1.8	-82.82	-1,590.0	-579.9	706.5	679.6	26.87	26.292	
8,169.3	7,065.0	7,000.0	6,998.5	30.2	1.8	-82.82	-1,590.0	-579.9	647.6	619.7	27.90	23.212	
8,200.0	7,064.8	7,000.0	6,998.5	30.6	1.8	-82.82	-1,590.0	-579.9	622.2	593.8	28.36	21.942	
8,267.7	7,064.4	7,000.0	6,998.5	31.5	1.8	-82.82	-1,590.0	-579.9	568.0	538.6	29.40	19.322	
8,300.0	7,064.2	7,000.0	6,998.5	31.9	1.8	-82.82	-1,590.0	-579.9	543.2	513.3	29.89	18.173	
8,366.1	7,063.7	7,000.0	6,998.5	32.8	1.8	-82.82	-1,590.0	-579.9	495.2	464.3	30.94	16.007	
8,400.0	7,063.5	7,000.0	6,998.5	33.3	1.8	-82.82	-1,590.0	-579.9	472.3	440.8	31.47	15.008	
8,464.5	7,063.1	7,000.0	6,998.5	34.2	1.8	-82.82	-1,590.0	-579.9	432.7	400.2	32.52	13.308	
8,500.0	7,062.9	7,000.0	6,998.5	34.8	1.8	-82.82	-1,590.0	-579.9	413.6	380.5	33.09	12.501	
8,563.0	7,062.5	7,000.0	6,998.5	35.7	1.8	-82.82	-1,590.0	-579.9	385.5	351.4	34.13	11.296	
8,600.0	7,062.3	7,000.0	6,998.5	36.3	1.8	-82.82	-1,590.0	-579.9	372.9	338.2	34.74	10.736	
8,661.4	7,061.9	7,000.0	6,998.5	37.2	1.8	-82.82	-1,590.0	-579.9	359.7	323.9	35.76	10.056	
8,700.0	7,061.6	7,000.0	6,998.5	37.8	1.8	-82.82	-1,590.0	-579.9	356.5	320.1	36.41	9.791	
8,710.0	7,061.6	7,000.0	6,998.5	38.0	1.8	-82.82	-1,590.0	-579.9	356.4	319.8	36.58	9.742 CC, ES	
8,759.8	7,061.3	7,000.0	6,998.5	38.8	1.8	-82.82	-1,590.0	-579.9	359.8	322.4	37.43	9.614 SF	
8,800.0	7,061.0	7,000.0	6,998.5	39.4	1.8	-82.82	-1,590.0	-579.9	367.5	329.4	38.11	9.645	
8,858.2	7,060.6	7,000.0	6,998.5	40.3	1.8	-82.82	-1,590.0	-579.9	386.0	346.9	39.11	9.869	
8,900.0	7,060.4	7,000.0	6,998.5	41.0	1.8	-82.82	-1,590.0	-579.9	403.8	364.0	39.83	10.140	
8,956.7	7,060.0	7,000.0	6,998.5	41.9	1.8	-82.82	-1,590.0	-579.9	433.4	392.6	40.81	10.620	
9,000.0	7,059.8	7,000.0	6,998.5	42.6	1.8	-82.82	-1,590.0	-579.9	459.4	417.9	41.56	11.055	
9,055.1	7,059.4	7,000.0	6,998.5	43.6	1.8	-82.82	-1,590.0	-579.9	496.1	453.5	42.53	11.665	
9,100.0	7,059.1	7,000.0	6,998.5	44.3	1.8	-82.82	-1,590.0	-579.9	528.3	485.0	43.31	12.197	
9,153.5	7,058.8	7,000.0	6,998.5	45.2	1.8	-82.82	-1,590.0	-579.9	568.9	524.7	44.26	12.856	
9,200.0	7,058.5	7,000.0	6,998.5	46.0	1.8	-82.82	-1,590.0	-579.9	605.9	560.8	45.07	13.442	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design NE SW SEC. 7 T4N R64W 6th P.M. - LATHAM 7-3 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,251.9	7,058.2	7,000.0	6,998.5	46.9	1.8	-82.82	-1,590.0	-579.9	648.6	602.6	46.00	14.101	
9,300.0	7,057.9	7,000.0	6,998.5	47.7	1.8	-82.82	-1,590.0	-579.9	689.3	642.4	46.85	14.712	
9,350.4	7,057.6	7,000.0	6,998.5	48.6	1.8	-82.82	-1,590.0	-579.9	732.8	685.1	47.75	15.348	
9,400.0	7,057.2	7,000.0	6,998.5	49.4	1.8	-82.82	-1,590.0	-579.9	776.6	728.0	48.64	15.968	
9,448.8	7,056.9	7,000.0	6,998.5	50.3	1.8	-82.82	-1,590.0	-579.9	820.3	770.7	49.51	16.567	
9,500.0	7,056.6	7,000.0	6,998.5	51.1	1.8	-82.82	-1,590.0	-579.9	866.7	816.2	50.43	17.185	
9,547.2	7,056.3	7,000.0	6,998.5	52.0	1.8	-82.82	-1,590.0	-579.9	909.9	858.6	51.28	17.743	
9,600.0	7,056.0	7,000.0	6,998.5	52.9	1.8	-82.82	-1,590.0	-579.9	958.7	906.5	52.23	18.354	
9,645.6	7,055.7	7,000.0	6,998.5	53.7	1.8	-82.82	-1,590.0	-579.9	1,001.2	948.2	53.06	18.870	
9,700.0	7,055.4	7,000.0	6,998.5	54.6	1.8	-82.82	-1,590.0	-579.9	1,052.2	998.1	54.04	19.469	
9,744.1	7,055.1	7,000.0	6,998.5	55.4	1.8	-82.82	-1,590.0	-579.9	1,093.8	1,038.9	54.84	19.943	
9,800.0	7,054.7	7,000.0	6,998.5	56.4	1.8	-82.82	-1,590.0	-579.9	1,146.8	1,090.9	55.86	20.529	
9,842.5	7,054.5	7,000.0	6,998.5	57.2	1.8	-82.82	-1,590.0	-579.9	1,187.2	1,130.6	56.64	20.963	
9,900.0	7,054.1	7,000.0	6,998.5	58.2	1.8	-82.82	-1,590.0	-579.9	1,242.2	1,184.5	57.68	21.535	
9,940.9	7,053.8	7,000.0	6,998.5	58.9	1.8	-82.82	-1,590.0	-579.9	1,281.5	1,223.0	58.43	21.931	
10,000.0	7,053.5	7,000.0	6,998.5	60.0	1.8	-82.82	-1,590.0	-579.9	1,338.3	1,278.8	59.51	22.488	
10,039.3	7,053.2	7,000.0	6,998.5	60.7	1.8	-82.82	-1,590.0	-579.9	1,376.3	1,316.1	60.23	22.849	
10,100.0	7,052.8	7,000.0	6,998.5	61.8	1.8	-82.82	-1,590.0	-579.9	1,435.0	1,373.6	61.35	23.391	
10,137.8	7,052.6	7,000.0	6,998.5	62.4	1.8	-82.82	-1,590.0	-579.9	1,471.6	1,409.5	62.04	23.720	
10,200.0	7,052.2	7,000.0	6,998.5	63.6	1.8	-82.82	-1,590.0	-579.9	1,532.0	1,468.8	63.18	24.247	
10,236.2	7,052.0	7,000.0	6,998.5	64.2	1.8	-82.82	-1,590.0	-579.9	1,567.3	1,503.4	63.85	24.546	
10,300.0	7,051.6	7,000.0	6,998.5	65.4	1.8	-82.82	-1,590.0	-579.9	1,629.4	1,564.4	65.03	25.058	
10,334.6	7,051.4	7,000.0	6,998.5	66.0	1.8	-82.82	-1,590.0	-579.9	1,663.3	1,597.6	65.67	25.329	
10,400.0	7,051.0	7,000.0	6,998.5	67.2	1.8	-82.82	-1,590.0	-579.9	1,727.2	1,660.3	66.87	25.828	
10,433.0	7,050.7	7,000.0	6,998.5	67.8	1.8	-82.82	-1,590.0	-579.9	1,759.5	1,692.0	67.48	26.073	
10,500.0	7,050.3	7,000.0	6,998.5	69.0	1.8	-82.82	-1,590.0	-579.9	1,825.1	1,756.4	68.72	26.558	
10,531.5	7,050.1	7,000.0	6,998.5	69.6	1.8	-82.82	-1,590.0	-579.9	1,856.0	1,786.7	69.30	26.781	
10,600.0	7,049.7	7,000.0	6,998.5	70.8	1.8	-82.82	-1,590.0	-579.9	1,923.3	1,852.7	70.57	27.252	
10,629.9	7,049.5	7,000.0	6,998.5	71.4	1.8	-82.82	-1,590.0	-579.9	1,952.7	1,881.6	71.13	27.453	
10,700.0	7,049.1	7,000.0	6,998.5	72.7	1.8	-82.82	-1,590.0	-579.9	2,021.7	1,949.2	72.43	27.912	
10,728.3	7,048.9	7,000.0	6,998.5	73.2	1.8	-82.82	-1,590.0	-579.9	2,049.5	1,976.6	72.96	28.093	
10,800.0	7,048.4	7,000.0	6,998.5	74.5	1.8	-82.82	-1,590.0	-579.9	2,120.2	2,045.9	74.29	28.540	
10,826.7	7,048.3	7,000.0	6,998.5	75.0	1.8	-82.82	-1,590.0	-579.9	2,146.5	2,071.8	74.78	28.703	
10,900.0	7,047.8	7,000.0	6,998.5	76.3	1.8	-82.82	-1,590.0	-579.9	2,218.8	2,142.7	76.15	29.138	
10,925.2	7,047.7	7,000.0	6,998.5	76.8	1.8	-82.82	-1,590.0	-579.9	2,243.7	2,167.0	76.62	29.284	
11,000.0	7,047.2	7,000.0	6,998.5	78.2	1.8	-82.82	-1,590.0	-579.9	2,317.6	2,239.6	78.01	29.708	
11,023.6	7,047.0	7,000.0	6,998.5	78.6	1.8	-82.82	-1,590.0	-579.9	2,340.9	2,262.4	78.45	29.839	
11,100.0	7,046.6	7,000.0	6,998.5	80.0	1.8	-82.82	-1,590.0	-579.9	2,416.4	2,336.5	79.88	30.252	
11,122.0	7,046.4	7,000.0	6,998.5	80.4	1.8	-82.82	-1,590.0	-579.9	2,438.2	2,357.9	80.29	30.369	
11,200.0	7,045.9	7,000.0	6,998.5	81.9	1.8	-82.82	-1,590.0	-579.9	2,515.4	2,433.6	81.74	30.772	
11,220.4	7,045.8	7,000.0	6,998.5	82.3	1.8	-82.82	-1,590.0	-579.9	2,535.6	2,453.5	82.12	30.875	
11,300.0	7,045.3	7,000.0	6,998.5	83.7	1.8	-82.82	-1,590.0	-579.9	2,614.4	2,530.8	83.61	31.269	
11,318.9	7,045.2	7,000.0	6,998.5	84.1	1.8	-82.82	-1,590.0	-579.9	2,633.1	2,549.1	83.96	31.360	
11,400.0	7,044.7	7,000.0	6,998.5	85.6	1.8	-82.82	-1,590.0	-579.9	2,713.5	2,628.0	85.48	31.744	
11,417.3	7,044.6	7,000.0	6,998.5	85.9	1.8	-82.82	-1,590.0	-579.9	2,730.7	2,644.9	85.81	31.824	
11,500.0	7,044.0	7,000.0	6,998.5	87.5	1.8	-82.82	-1,590.0	-579.9	2,812.7	2,725.3	87.35	32.199	
11,515.7	7,043.9	7,000.0	6,998.5	87.7	1.8	-82.82	-1,590.0	-579.9	2,828.3	2,740.6	87.65	32.268	
11,600.0	7,043.4	7,000.0	6,998.5	89.3	1.8	-82.82	-1,590.0	-579.9	2,911.9	2,822.7	89.23	32.635	
11,614.1	7,043.3	7,000.0	6,998.5	89.6	1.8	-82.82	-1,590.0	-579.9	2,925.9	2,836.4	89.49	32.695	
11,700.0	7,042.8	7,000.0	6,998.5	91.2	1.8	-82.82	-1,590.0	-579.9	3,011.2	2,920.1	91.10	33.053	
11,712.6	7,042.7	7,000.0	6,998.5	91.4	1.8	-82.82	-1,590.0	-579.9	3,023.7	2,932.3	91.34	33.104	
11,800.0	7,042.2	7,000.0	6,998.5	93.0	1.8	-82.82	-1,590.0	-579.9	3,110.5	3,017.5	92.98	33.454	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
11,811.0	7,042.1	7,000.0	6,998.5	93.2	1.8	-82.82	-1,590.0	-579.9	3,121.4	3,028.2	93.18	33.497	
11,900.0	7,041.5	7,000.0	6,998.5	94.9	1.8	-82.82	-1,590.0	-579.9	3,209.8	3,115.0	94.86	33.839	
11,909.4	7,041.5	7,000.0	6,998.5	95.1	1.8	-82.82	-1,590.0	-579.9	3,219.2	3,124.2	95.03	33.875	
12,000.0	7,040.9	7,000.0	6,998.5	96.8	1.8	-82.82	-1,590.0	-579.9	3,309.2	3,212.5	96.73	34.210	
12,007.8	7,040.8	7,000.0	6,998.5	96.9	1.8	-82.82	-1,590.0	-579.9	3,317.1	3,220.2	96.88	34.238	
12,100.0	7,040.3	7,000.0	6,998.5	98.7	1.8	-82.82	-1,590.0	-579.9	3,408.7	3,310.1	98.61	34.566	
12,106.3	7,040.2	7,000.0	6,998.5	98.8	1.8	-82.82	-1,590.0	-579.9	3,414.9	3,316.2	98.73	34.588	
12,200.0	7,039.6	7,000.0	6,998.5	100.5	1.8	-82.82	-1,590.0	-579.9	3,508.2	3,407.7	100.50	34.909	
12,204.7	7,039.6	7,000.0	6,998.5	100.6	1.8	-82.82	-1,590.0	-579.9	3,512.8	3,412.2	100.58	34.924	
12,300.0	7,039.0	7,000.0	6,998.5	102.4	1.8	-82.82	-1,590.0	-579.9	3,607.6	3,505.3	102.38	35.239	
12,303.1	7,039.0	7,000.0	6,998.5	102.5	1.8	-82.82	-1,590.0	-579.9	3,610.8	3,508.3	102.44	35.249	
12,400.0	7,038.4	7,000.0	6,998.5	104.3	1.8	-82.82	-1,590.0	-579.9	3,707.2	3,602.9	104.26	35.557	
12,401.5	7,038.4	7,000.0	6,998.5	104.3	1.8	-82.82	-1,590.0	-579.9	3,708.7	3,604.4	104.29	35.562	
12,500.0	7,037.8	7,000.0	6,998.5	106.2	1.8	-82.82	-1,590.0	-579.9	3,806.7	3,700.6	106.14	35.864	
12,598.4	7,037.1	7,000.0	6,998.5	108.0	1.8	-82.82	-1,590.0	-579.9	3,904.7	3,796.7	108.00	36.155	
12,600.0	7,037.1	7,000.0	6,998.5	108.0	1.8	-82.82	-1,590.0	-579.9	3,906.3	3,798.3	108.03	36.160	
12,696.8	7,036.5	7,000.0	6,998.5	109.9	1.8	-82.82	-1,590.0	-579.9	4,002.7	3,892.9	109.85	36.437	
12,700.0	7,036.5	7,000.0	6,998.5	109.9	1.8	-82.82	-1,590.0	-579.9	4,005.9	3,896.0	109.91	36.446	
12,795.2	7,035.9	7,000.0	6,998.5	111.7	1.8	-82.82	-1,590.0	-579.9	4,100.8	3,989.1	111.71	36.709	
12,800.0	7,035.9	7,000.0	6,998.5	111.8	1.8	-82.82	-1,590.0	-579.9	4,105.5	3,993.7	111.80	36.722	
12,893.7	7,035.3	7,000.0	6,998.5	113.6	1.8	-82.82	-1,590.0	-579.9	4,198.8	4,085.3	113.57	36.972	
12,900.0	7,035.2	7,000.0	6,998.5	113.7	1.8	-82.82	-1,590.0	-579.9	4,205.1	4,091.4	113.69	36.989	
12,992.1	7,034.7	7,000.0	6,998.5	115.4	1.8	-82.82	-1,590.0	-579.9	4,296.9	4,181.5	115.42	37.227	
13,000.0	7,034.6	7,000.0	6,998.5	115.6	1.8	-82.82	-1,590.0	-579.9	4,304.8	4,189.2	115.57	37.247	
13,090.5	7,034.0	7,000.0	6,998.5	117.3	1.8	-82.82	-1,590.0	-579.9	4,395.0	4,277.7	117.28	37.473	
13,100.0	7,034.0	7,000.0	6,998.5	117.5	1.8	-82.82	-1,590.0	-579.9	4,404.4	4,287.0	117.46	37.497	
13,188.9	7,033.4	7,000.0	6,998.5	119.1	1.8	-82.82	-1,590.0	-579.9	4,493.1	4,374.0	119.14	37.712	
13,200.0	7,033.4	7,000.0	6,998.5	119.3	1.8	-82.82	-1,590.0	-579.9	4,504.1	4,384.8	119.35	37.739	
13,287.4	7,032.8	7,000.0	6,998.5	121.0	1.8	-82.82	-1,590.0	-579.9	4,591.2	4,470.2	121.00	37.944	
13,300.0	7,032.7	7,000.0	6,998.5	121.2	1.8	-82.82	-1,590.0	-579.9	4,603.8	4,482.6	121.24	37.973	
13,385.8	7,032.2	7,000.0	6,998.5	122.9	1.8	-82.82	-1,590.0	-579.9	4,689.4	4,566.5	122.86	38.168	
13,400.0	7,032.1	7,000.0	6,998.5	123.1	1.8	-82.82	-1,590.0	-579.9	4,703.5	4,580.4	123.13	38.200	
13,484.2	7,031.6	7,000.0	6,998.5	124.7	1.8	-82.82	-1,590.0	-579.9	4,787.5	4,662.8	124.72	38.386	
13,500.0	7,031.5	7,000.0	6,998.5	125.0	1.8	-82.82	-1,590.0	-579.9	4,803.2	4,678.2	125.02	38.420	
13,582.6	7,030.9	7,000.0	6,998.5	126.6	1.8	-82.82	-1,590.0	-579.9	4,885.7	4,759.1	126.58	38.597	
13,600.0	7,030.8	7,000.0	6,998.5	126.9	1.8	-82.82	-1,590.0	-579.9	4,903.0	4,776.1	126.91	38.633	
13,681.1	7,030.3	7,000.0	6,998.5	128.4	1.8	-82.82	-1,590.0	-579.9	4,983.8	4,855.4	128.44	38.802	
13,700.0	7,030.2	7,000.0	6,998.5	128.8	1.8	-82.81	-1,590.0	-579.9	5,002.7	4,873.9	128.80	38.840	
13,779.5	7,029.7	7,000.0	6,998.5	130.3	1.8	-82.81	-1,590.0	-579.9	5,082.0	4,951.7	130.31	39.001	
13,800.0	7,029.6	7,000.0	6,998.5	130.7	1.8	-82.81	-1,590.0	-579.9	5,102.5	4,971.8	130.69	39.041	
13,877.9	7,029.1	7,000.0	6,998.5	132.2	1.8	-82.81	-1,590.0	-579.9	5,180.2	5,048.0	132.17	39.194	
13,900.0	7,029.0	7,000.0	6,998.5	132.6	1.8	-82.81	-1,590.0	-579.9	5,202.2	5,069.6	132.59	39.237	
13,976.3	7,028.5	7,000.0	6,998.5	134.0	1.8	-82.81	-1,590.0	-579.9	5,278.4	5,144.4	134.03	39.382	
14,000.0	7,028.3	7,000.0	6,998.5	134.5	1.8	-82.81	-1,590.0	-579.9	5,302.0	5,167.5	134.48	39.426	
14,074.8	7,027.9	7,000.0	6,998.5	135.9	1.8	-82.81	-1,590.0	-579.9	5,376.6	5,240.7	135.89	39.565	
14,100.0	7,027.7	7,000.0	6,998.5	136.4	1.8	-82.81	-1,590.0	-579.9	5,401.8	5,265.4	136.37	39.611	
14,173.2	7,027.2	7,000.0	6,998.5	137.8	1.8	-82.81	-1,590.0	-579.9	5,474.8	5,337.1	137.76	39.742	
14,200.0	7,027.1	7,000.0	6,998.5	138.3	1.8	-82.81	-1,590.0	-579.9	5,501.6	5,363.3	138.26	39.790	
14,210.5	7,027.0	7,000.0	6,998.5	138.5	1.8	-82.81	-1,590.0	-579.9	5,512.1	5,373.6	138.46	39.809	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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				Semi Major Axis				Distance					Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	164.09	-1,683.1	479.6	1,750.1					
98.4	98.4	92.5	92.5	0.1	0.0	164.10	-1,683.2	479.4	1,750.2	1,750.0	0.14	N/A		
100.0	100.0	94.1	94.1	0.1	0.0	164.10	-1,683.2	479.4	1,750.2	1,750.0	0.14	N/A		
196.8	196.8	184.9	184.9	0.3	0.2	164.12	-1,683.6	479.0	1,750.5	1,750.0	0.49	3,537.899		
200.0	200.0	187.9	187.9	0.3	0.2	164.12	-1,683.6	479.0	1,750.5	1,750.0	0.51	3,456.402		
295.3	295.3	292.9	292.9	0.5	0.3	164.13	-1,684.0	478.8	1,750.7	1,749.9	0.79	2,207.172		
300.0	300.0	298.3	298.3	0.5	0.3	164.13	-1,684.0	478.8	1,750.7	1,749.9	0.81	2,169.668		
330.1	330.1	326.6	326.6	0.6	0.3	164.13	-1,684.0	478.7	1,750.7	1,749.8	0.89	1,976.390		
393.7	393.7	385.8	385.8	0.8	0.3	164.13	-1,684.1	478.6	1,750.8	1,749.7	1.05	1,665.351		
400.0	400.0	391.7	391.7	0.8	0.3	164.13	-1,684.1	478.6	1,750.8	1,749.7	1.07	1,639.776		
492.1	492.1	492.3	492.3	1.0	0.3	164.13	-1,684.2	478.6	1,750.9	1,749.6	1.28	1,370.219		
500.0	500.0	500.0	500.0	1.0	0.3	164.13	-1,684.2	478.6	1,750.9	1,749.6	1.30	1,351.498		
537.6	537.6	534.1	534.1	1.1	0.3	164.13	-1,684.1	478.7	1,750.8	1,749.4	1.38	1,268.650		
590.5	590.5	581.0	581.0	1.2	0.3	164.14	-1,684.2	478.6	1,750.9	1,749.4	1.50	1,168.008		
600.0	600.0	589.4	589.4	1.2	0.3	164.14	-1,684.2	478.6	1,750.9	1,749.4	1.52	1,151.710		
689.0	689.0	685.6	685.6	1.4	0.3	164.14	-1,684.6	478.4	1,751.2	1,749.4	1.76	993.917		
700.0	700.0	697.9	697.9	1.4	0.3	164.15	-1,684.6	478.4	1,751.2	1,749.4	1.79	976.865		
724.7	724.7	721.2	721.2	1.5	0.4	164.15	-1,684.6	478.3	1,751.2	1,749.3	1.86	941.545		
787.4	787.4	779.5	779.5	1.6	0.4	164.16	-1,684.7	478.1	1,751.2	1,749.2	2.03	862.385		
800.0	800.0	791.2	791.2	1.7	0.4	164.16	-1,684.7	478.1	1,751.3	1,749.2	2.06	848.074		
885.8	885.8	878.0	878.0	1.9	0.4	164.17	-1,685.1	477.9	1,751.5	1,749.2	2.31	758.682		
900.0	900.0	892.4	892.4	1.9	0.5	164.17	-1,685.1	477.9	1,751.6	1,749.2	2.35	745.632		
984.2	984.2	978.8	978.8	2.1	0.5	164.18	-1,685.3	477.6	1,751.7	1,749.1	2.59	676.922		
1,000.0	1,000.0	994.9	994.9	2.1	0.5	164.18	-1,685.4	477.6	1,751.7	1,749.1	2.63	665.460		
1,082.7	1,082.7	1,071.4	1,071.4	2.3	0.5	164.18	-1,685.6	477.5	1,751.9	1,749.1	2.85	614.993		
1,100.0	1,100.0	1,087.3	1,087.3	2.3	0.6	164.18	-1,685.6	477.6	1,752.0	1,749.1	2.89	605.435		
1,181.1	1,181.1	1,163.2	1,163.2	2.5	0.6	-121.66	-1,686.2	477.6	1,753.2	1,750.1	3.07	570.330		
1,200.0	1,200.0	1,180.9	1,180.9	2.6	0.6	-121.66	-1,686.3	477.6	1,753.6	1,750.5	3.12	561.365		
1,279.5	1,279.4	1,265.2	1,265.2	2.7	0.6	-121.72	-1,687.1	477.5	1,756.3	1,753.0	3.33	526.891		
1,300.0	1,299.8	1,287.8	1,287.8	2.8	0.6	-121.75	-1,687.2	477.5	1,757.2	1,753.8	3.39	518.728		
1,377.9	1,377.5	1,363.9	1,363.9	2.9	0.7	-121.85	-1,687.6	477.4	1,761.0	1,757.4	3.60	489.567		
1,400.0	1,399.5	1,385.0	1,384.9	3.0	0.7	-121.89	-1,687.8	477.3	1,762.3	1,758.6	3.66	482.045		
1,476.4	1,475.3	1,457.7	1,457.7	3.2	0.7	-122.03	-1,688.3	477.3	1,767.6	1,763.7	3.87	456.336		
1,500.0	1,498.7	1,480.1	1,480.1	3.2	0.7	-122.08	-1,688.5	477.3	1,769.5	1,765.6	3.94	449.044		
1,574.8	1,572.6	1,552.8	1,552.8	3.4	0.8	-122.26	-1,689.2	477.4	1,776.3	1,772.1	4.17	425.769		
1,600.0	1,597.5	1,577.5	1,577.5	3.5	0.8	-122.33	-1,689.4	477.4	1,778.8	1,774.6	4.25	418.581		
1,673.2	1,669.4	1,650.8	1,650.8	3.7	0.8	-122.56	-1,690.1	477.4	1,786.9	1,782.4	4.50	397.394		
1,700.2	1,695.8	1,678.0	1,678.0	3.8	0.8	-122.65	-1,690.4	477.3	1,790.1	1,785.6	4.59	390.299		
1,771.6	1,765.7	1,750.7	1,750.6	4.1	0.8	-123.04	-1,691.1	476.8	1,798.8	1,794.0	4.84	371.964		
1,800.0	1,793.4	1,779.6	1,779.6	4.2	0.9	-123.19	-1,691.3	476.6	1,802.3	1,797.4	4.93	365.280		
1,870.1	1,862.0	1,858.6	1,858.5	4.4	0.9	-123.60	-1,691.9	475.8	1,810.7	1,805.5	5.18	349.360		
1,900.0	1,891.2	1,893.6	1,893.6	4.5	0.9	-123.78	-1,691.9	475.5	1,814.1	1,808.8	5.29	343.065		
1,968.5	1,958.3	1,965.1	1,965.0	4.8	0.9	-124.15	-1,691.8	474.7	1,821.9	1,816.4	5.53	329.246		
2,000.0	1,989.1	1,997.6	1,997.6	4.9	0.9	-124.31	-1,691.8	474.3	1,825.4	1,819.8	5.65	323.298		
2,066.9	2,054.5	2,075.1	2,075.1	5.2	0.9	-124.71	-1,691.3	473.2	1,832.8	1,826.9	5.89	311.116		
2,100.0	2,086.9	2,114.2	2,114.1	5.3	1.0	-124.90	-1,690.9	472.6	1,836.3	1,830.3	6.01	305.481		
2,165.3	2,150.8	2,193.2	2,193.1	5.6	1.0	-125.29	-1,689.8	471.0	1,842.8	1,836.6	6.25	294.766		
2,200.0	2,184.7	2,235.2	2,235.1	5.7	1.0	-125.50	-1,688.9	470.2	1,846.1	1,839.8	6.38	289.418		
2,263.8	2,247.1	2,310.1	2,309.9	6.0	1.0	-125.88	-1,686.7	468.9	1,851.9	1,845.2	6.62	279.935		
2,300.0	2,282.5	2,345.7	2,345.5	6.1	1.0	-126.06	-1,685.5	468.5	1,855.0	1,848.3	6.75	274.805		
2,362.2	2,343.3	2,407.0	2,406.7	6.4	1.0	-126.38	-1,683.5	467.6	1,860.5	1,853.6	6.99	266.359		
2,400.0	2,380.3	2,445.3	2,445.1	6.6	1.0	-126.57	-1,682.2	467.0	1,863.9	1,856.8	7.13	261.476		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
2,460.6	2,439.6	2,506.7	2,506.4	6.8	1.0	-126.87	-1,680.3	465.6	1,869.3	1,861.9	7.36	253.960	
2,500.0	2,478.1	2,544.8	2,544.5	7.0	1.0	-127.05	-1,679.1	464.7	1,872.8	1,865.3	7.51	249.330	
2,559.0	2,535.9	2,600.0	2,599.6	7.2	1.1	-127.32	-1,677.4	463.5	1,878.1	1,870.4	7.74	242.691	
2,600.0	2,575.9	2,637.9	2,637.6	7.4	1.1	-127.50	-1,676.3	462.7	1,881.9	1,874.0	7.90	238.307	
2,657.5	2,632.2	2,688.7	2,688.3	7.7	1.1	-127.74	-1,674.9	461.5	1,887.3	1,879.2	8.12	232.435	
2,700.0	2,673.8	2,730.9	2,730.5	7.8	1.1	-127.94	-1,673.9	460.6	1,891.5	1,883.2	8.28	228.305	
2,755.9	2,728.4	2,789.2	2,788.7	8.1	1.1	-128.20	-1,672.4	459.2	1,896.9	1,888.4	8.50	223.084	
2,800.0	2,771.6	2,828.9	2,828.4	8.3	1.1	-128.38	-1,671.4	458.1	1,901.2	1,892.5	8.67	219.175	
2,854.3	2,824.7	2,875.5	2,874.9	8.5	1.1	-128.59	-1,670.5	456.8	1,906.7	1,897.8	8.89	214.571	
2,900.0	2,869.4	2,917.1	2,916.5	8.7	1.1	-128.76	-1,669.8	455.5	1,911.5	1,902.4	9.06	210.882	
2,952.7	2,921.0	2,969.8	2,969.2	8.9	1.1	-128.99	-1,668.9	454.0	1,917.0	1,907.8	9.27	206.772	
3,000.0	2,967.2	3,016.9	3,016.3	9.2	1.2	-129.19	-1,668.1	452.8	1,922.0	1,912.6	9.46	203.264	
3,051.2	3,017.3	3,067.5	3,066.9	9.4	1.2	-129.41	-1,667.1	451.4	1,927.5	1,917.8	9.66	199.623	
3,100.0	3,065.0	3,115.7	3,115.1	9.6	1.2	-129.62	-1,666.2	450.2	1,932.6	1,922.8	9.85	196.299	
3,149.6	3,113.5	3,164.3	3,163.7	9.8	1.2	-129.83	-1,665.3	449.0	1,937.9	1,927.9	10.04	193.045	
3,200.0	3,162.8	3,213.0	3,212.3	10.0	1.2	-130.04	-1,664.4	447.7	1,943.4	1,933.1	10.23	189.876	
3,248.0	3,209.8	3,257.5	3,256.8	10.3	1.2	-130.23	-1,663.6	446.7	1,948.6	1,938.2	10.42	186.968	
3,300.0	3,260.6	3,306.0	3,305.2	10.5	1.2	-130.44	-1,662.7	445.6	1,954.4	1,943.7	10.62	183.958	
3,346.4	3,306.1	3,350.9	3,350.1	10.7	1.3	-130.64	-1,661.9	444.9	1,959.6	1,948.8	10.80	181.370	
3,400.0	3,358.4	3,400.0	3,399.2	10.9	1.3	-130.87	-1,660.8	444.3	1,965.7	1,954.6	11.01	178.517	
3,444.9	3,402.3	3,442.6	3,441.9	11.1	1.3	-131.07	-1,659.9	443.9	1,970.8	1,959.6	11.19	176.200	
3,500.0	3,456.3	3,492.0	3,491.2	11.4	1.3	-131.30	-1,658.9	443.7	1,977.3	1,965.9	11.40	173.485	
3,543.3	3,498.6	3,528.2	3,527.5	11.6	1.3	-131.47	-1,658.2	443.6	1,982.6	1,971.0	11.56	171.434	
3,600.0	3,554.1	3,574.7	3,573.9	11.8	1.3	-131.69	-1,657.4	443.8	1,989.7	1,977.9	11.78	168.879	
3,641.7	3,594.9	3,611.6	3,610.8	12.0	1.3	-131.88	-1,656.8	444.1	1,995.1	1,983.2	11.94	167.077	
3,700.0	3,651.9	3,674.5	3,673.6	12.3	1.3	-132.18	-1,655.8	444.6	2,002.7	1,990.5	12.16	164.670	
3,740.1	3,691.2	3,714.5	3,713.6	12.5	1.3	-132.37	-1,655.1	444.8	2,007.8	1,995.5	12.31	163.047	
3,800.0	3,749.7	3,767.0	3,766.2	12.7	1.3	-132.62	-1,654.4	444.9	2,015.7	2,003.1	12.54	160.733	
3,838.6	3,787.4	3,801.2	3,800.3	12.9	1.3	-132.77	-1,654.1	444.7	2,020.8	2,008.1	12.69	159.290	
3,900.0	3,847.5	3,865.6	3,864.7	13.2	1.3	-133.05	-1,653.6	444.5	2,029.0	2,016.1	12.92	157.040	
3,937.0	3,883.7	3,904.1	3,903.2	13.3	1.3	-133.21	-1,653.2	444.3	2,034.0	2,020.9	13.06	155.723	
4,000.0	3,945.3	3,965.5	3,964.6	13.6	1.4	-133.48	-1,652.5	444.1	2,042.4	2,029.1	13.30	153.560	
4,035.4	3,980.0	4,000.0	3,999.2	13.8	1.4	-133.63	-1,652.1	444.0	2,047.1	2,033.7	13.43	152.380	
4,100.0	4,043.1	4,060.3	4,059.4	14.1	1.4	-133.88	-1,651.6	443.6	2,055.8	2,042.1	13.68	150.304	
4,133.8	4,076.3	4,091.9	4,091.1	14.2	1.4	-134.01	-1,651.4	443.4	2,060.4	2,046.6	13.81	149.248	
4,200.0	4,141.0	4,159.1	4,158.3	14.5	1.4	-134.29	-1,651.0	442.9	2,069.5	2,055.5	14.05	147.251	
4,232.3	4,172.5	4,192.3	4,191.4	14.7	1.4	-134.43	-1,650.7	442.7	2,073.9	2,059.8	14.18	146.304	
4,300.0	4,238.8	4,255.6	4,254.7	15.0	1.4	-134.68	-1,650.1	442.3	2,083.2	2,068.8	14.43	144.378	
4,330.7	4,268.8	4,283.9	4,283.1	15.1	1.4	-134.80	-1,650.0	442.1	2,087.5	2,073.0	14.54	143.530	
4,400.0	4,336.6	4,356.1	4,355.2	15.4	1.5	-135.09	-1,649.5	441.6	2,097.2	2,082.4	14.80	141.687	
4,429.1	4,365.1	4,387.6	4,386.7	15.6	1.5	-135.21	-1,649.2	441.5	2,101.2	2,086.3	14.91	140.935	
4,500.0	4,434.4	4,473.6	4,472.8	15.9	1.5	-135.57	-1,647.9	441.0	2,110.7	2,095.5	15.17	139.141	
4,527.5	4,461.3	4,506.9	4,506.0	16.0	1.5	-135.70	-1,647.3	440.6	2,114.2	2,099.0	15.27	138.450	
4,600.0	4,532.2	4,585.9	4,585.0	16.4	1.5	-136.00	-1,645.9	439.2	2,123.4	2,107.8	15.54	136.655	
4,626.0	4,557.6	4,611.2	4,610.2	16.5	1.5	-136.09	-1,645.4	438.6	2,126.6	2,111.0	15.63	136.019	
4,700.0	4,630.0	4,674.6	4,673.6	16.8	1.5	-136.32	-1,644.4	437.4	2,136.0	2,120.1	15.91	134.254	
4,724.4	4,653.9	4,700.0	4,699.1	16.9	1.6	-136.41	-1,644.0	436.9	2,139.2	2,123.2	16.00	133.692	
4,800.0	4,727.8	4,774.1	4,773.1	17.3	1.6	-136.69	-1,642.9	435.7	2,149.1	2,132.9	16.28	131.998	
4,822.8	4,750.2	4,798.2	4,797.2	17.4	1.6	-136.78	-1,642.5	435.4	2,152.1	2,135.7	16.37	131.499	
4,900.0	4,825.6	4,865.3	4,864.3	17.7	1.6	-137.03	-1,641.4	434.3	2,162.3	2,145.6	16.65	129.863	
4,921.2	4,846.4	4,883.7	4,882.7	17.8	1.6	-137.09	-1,641.2	434.0	2,165.2	2,148.4	16.73	129.425	
5,000.0	4,923.5	4,950.3	4,949.3	18.2	1.6	-137.32	-1,640.7	432.7	2,176.0	2,159.0	17.02	127.858	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,019.7	4,942.7	4,966.8	4,965.8	18.3	1.6	-137.38	-1,640.7	432.4	2,178.8	2,161.7	17.09	127.479	
5,100.0	5,021.3	5,042.0	5,041.0	18.6	1.7	-137.62	-1,640.7	430.9	2,190.4	2,173.0	17.39	125.987	
5,118.1	5,039.0	5,060.7	5,059.6	18.7	1.7	-137.68	-1,640.7	430.5	2,193.0	2,175.6	17.45	125.660	
5,200.0	5,119.1	5,133.9	5,132.8	19.1	1.7	-137.92	-1,640.7	429.1	2,204.9	2,187.2	17.75	124.226	
5,216.5	5,135.3	5,146.6	5,145.6	19.2	1.7	-137.96	-1,640.7	428.9	2,207.4	2,189.6	17.81	123.947	
5,300.0	5,216.9	5,211.9	5,210.8	19.6	1.7	-138.17	-1,641.1	427.9	2,220.2	2,202.1	18.11	122.596	
5,314.9	5,231.5	5,224.2	5,223.2	19.6	1.7	-138.21	-1,641.3	427.8	2,222.6	2,204.4	18.16	122.364	
5,400.0	5,314.7	5,300.0	5,298.9	20.0	1.7	-138.45	-1,642.4	426.8	2,236.4	2,217.9	18.47	121.100	
5,413.4	5,327.8	5,300.0	5,298.9	20.1	1.7	-138.45	-1,642.4	426.8	2,238.6	2,220.1	18.52	120.898	
5,500.0	5,412.5	5,374.7	5,373.6	20.5	1.7	-138.68	-1,643.9	426.1	2,253.3	2,234.5	18.82	119.714	
5,511.8	5,424.1	5,384.2	5,383.1	20.5	1.7	-138.71	-1,644.2	426.0	2,255.3	2,236.5	18.86	119.558	
5,600.0	5,510.3	5,456.7	5,455.6	20.9	1.7	-138.93	-1,646.1	425.7	2,271.0	2,251.8	19.17	118.447	
5,610.2	5,520.3	5,465.2	5,464.1	21.0	1.7	-138.96	-1,646.3	425.8	2,272.8	2,253.6	19.21	118.324	
5,700.0	5,608.2	5,544.3	5,543.1	21.4	1.7	-139.21	-1,648.4	426.2	2,289.4	2,269.8	19.52	117.295	
5,708.6	5,616.6	5,552.3	5,551.1	21.4	1.7	-139.24	-1,648.7	426.3	2,291.0	2,271.4	19.55	117.200	
5,729.2	5,636.7	5,571.3	5,570.2	21.5	1.7	-139.30	-1,649.2	426.5	2,294.8	2,275.2	19.62	116.978	
5,800.0	5,706.1	5,647.8	5,646.6	21.8	1.7	-139.70	-1,651.1	427.3	2,307.3	2,287.6	19.76	116.783	
5,807.1	5,713.1	5,656.3	5,655.1	21.8	1.7	-139.74	-1,651.3	427.4	2,308.5	2,288.7	19.77	116.789	
5,900.0	5,804.7	5,758.8	5,757.6	22.1	1.7	-140.18	-1,653.3	428.2	2,322.2	2,302.3	19.89	116.751	
5,905.5	5,810.2	5,764.6	5,763.4	22.1	1.7	-140.20	-1,653.4	428.2	2,322.9	2,303.0	19.90	116.751	
6,000.0	5,903.9	5,857.8	5,856.5	22.3	1.7	-140.53	-1,654.9	428.9	2,334.2	2,314.2	20.01	116.648	
6,003.9	5,907.8	5,861.5	5,860.3	22.4	1.7	-140.54	-1,655.0	429.0	2,334.7	2,314.6	20.01	116.646	
6,100.0	6,003.4	5,958.4	5,957.1	22.6	1.7	-140.82	-1,656.2	430.5	2,343.7	2,323.6	20.12	116.503	
6,102.3	6,005.7	5,960.8	5,959.6	22.6	1.7	-140.82	-1,656.2	430.5	2,343.9	2,323.7	20.12	116.500	
6,200.0	6,103.2	6,049.6	6,048.3	22.7	1.7	-141.01	-1,657.1	432.2	2,350.4	2,330.2	20.21	116.281	
6,200.8	6,104.0	6,050.2	6,048.9	22.7	1.7	-141.02	-1,657.1	432.2	2,350.5	2,330.2	20.21	116.279	
6,299.2	6,202.3	6,138.0	6,136.6	22.9	1.7	-141.12	-1,658.7	433.8	2,355.0	2,334.7	20.30	115.995	
6,300.0	6,203.1	6,138.8	6,137.4	22.9	1.7	-141.12	-1,658.7	433.8	2,355.1	2,334.8	20.30	115.992	
6,329.4	6,232.5	6,168.1	6,166.8	22.9	1.7	144.70	-1,659.2	434.4	2,356.0	2,335.7	20.30	116.047	
6,397.6	6,300.8	6,250.3	6,249.0	23.0	1.7	144.67	-1,660.3	436.4	2,357.7	2,337.3	20.40	115.571	
6,400.0	6,303.1	6,253.6	6,252.3	23.0	1.7	144.67	-1,660.3	436.5	2,357.7	2,337.3	20.40	115.554	
6,449.4	6,352.5	6,312.7	6,311.4	23.1	1.7	144.64	-1,660.5	438.0	2,358.5	2,338.1	20.48	115.164	
6,496.0	6,399.2	6,350.3	6,349.0	23.1	1.7	-35.62	-1,660.6	439.0	2,358.1	2,337.6	20.51	114.975	
6,500.0	6,403.1	6,353.5	6,352.1	23.1	1.7	-35.63	-1,660.6	439.0	2,358.0	2,337.5	20.51	114.970	
6,550.0	6,452.8	6,400.0	6,398.6	23.1	1.7	-35.87	-1,661.0	440.3	2,354.8	2,334.3	20.50	114.862	
6,594.5	6,496.6	6,439.2	6,437.8	23.2	1.7	-36.23	-1,661.4	441.3	2,349.7	2,329.2	20.48	114.722	
6,600.0	6,502.0	6,445.1	6,443.7	23.2	1.7	-36.29	-1,661.5	441.5	2,348.9	2,328.5	20.48	114.710	
6,650.0	6,550.5	6,497.9	6,496.4	23.2	1.7	-36.92	-1,661.9	442.9	2,340.2	2,319.8	20.42	114.603	
6,692.9	6,591.4	6,542.4	6,540.9	23.2	1.7	-37.64	-1,662.1	444.2	2,330.5	2,310.1	20.34	114.563	
6,700.0	6,598.0	6,549.7	6,548.2	23.2	1.7	-37.77	-1,662.2	444.4	2,328.7	2,308.4	20.33	114.571	
6,750.0	6,644.4	6,600.0	6,598.5	23.2	1.7	-38.83	-1,662.3	445.8	2,314.5	2,294.3	20.19	114.656	
6,791.3	6,681.6	6,632.0	6,630.5	23.2	1.7	-39.81	-1,662.4	446.7	2,300.8	2,280.8	20.04	114.793	
6,800.0	6,689.3	6,638.6	6,637.1	23.2	1.7	-40.03	-1,662.5	446.9	2,297.8	2,277.8	20.01	114.842	
6,850.0	6,732.6	6,675.8	6,674.3	23.2	1.7	-41.45	-1,662.8	447.9	2,278.8	2,259.0	19.79	115.124	
6,889.7	6,765.7	6,700.0	6,698.5	23.2	1.7	-42.69	-1,663.0	448.5	2,262.2	2,242.6	19.61	115.351	
6,900.0	6,774.0	6,712.1	6,710.6	23.2	1.7	-43.10	-1,663.2	448.9	2,257.7	2,238.1	19.56	115.452	
6,950.0	6,813.3	6,747.7	6,746.2	23.2	1.7	-45.01	-1,663.6	449.9	2,234.5	2,215.2	19.31	115.741	
6,988.2	6,841.9	6,773.7	6,772.1	23.2	1.7	-46.64	-1,664.0	450.6	2,215.5	2,196.4	19.13	115.835	
7,000.0	6,850.5	6,781.4	6,779.9	23.2	1.7	-47.18	-1,664.1	450.9	2,209.4	2,190.3	19.07	115.874	
7,050.0	6,885.2	6,817.0	6,815.4	23.2	1.7	-49.69	-1,664.6	452.0	2,182.6	2,163.7	18.86	115.734	
7,086.6	6,908.9	6,845.3	6,843.7	23.2	1.7	-51.79	-1,665.0	452.8	2,161.9	2,143.1	18.75	115.311	
7,100.0	6,917.3	6,855.3	6,853.7	23.2	1.7	-52.60	-1,665.1	453.1	2,154.1	2,135.4	18.70	115.174	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,150.0	6,946.6	6,890.3	6,888.7	23.2	1.7	-55.81	-1,665.6	454.0	2,124.1	2,105.4	18.62	114.086	
7,185.0	6,965.5	6,912.2	6,910.6	23.3	1.7	-58.22	-1,665.8	454.6	2,102.3	2,083.7	18.59	113.070	
7,200.0	6,973.1	6,920.9	6,919.3	23.3	1.7	-59.29	-1,665.9	454.8	2,092.8	2,074.2	18.61	112.437	
7,250.0	6,996.5	6,947.5	6,945.8	23.3	1.7	-63.00	-1,666.2	455.5	2,060.6	2,041.9	18.69	110.275	
7,283.4	7,010.4	6,963.2	6,961.6	23.4	1.7	-65.59	-1,666.3	455.9	2,038.5	2,019.7	18.77	108.577	
7,300.0	7,016.8	6,970.4	6,968.7	23.4	1.7	-66.90	-1,666.3	456.0	2,027.5	2,008.7	18.83	107.700	
7,350.0	7,033.8	6,989.5	6,987.9	23.5	1.7	-70.93	-1,666.4	456.5	1,994.0	1,974.9	19.02	104.821	
7,381.9	7,043.0	6,999.7	6,998.1	23.6	1.7	-73.53	-1,666.5	456.8	1,972.4	1,953.2	19.18	102.841	
7,400.0	7,047.6	7,004.9	7,003.2	23.6	1.7	-75.01	-1,666.5	456.9	1,960.1	1,940.8	19.27	101.714	
7,450.0	7,057.9	7,016.4	7,014.7	23.8	1.7	-79.05	-1,666.5	457.3	1,926.2	1,906.6	19.58	98.384	
7,480.3	7,062.5	7,021.5	7,019.8	23.9	1.7	-81.44	-1,666.5	457.4	1,905.7	1,885.9	19.81	96.212	
7,500.0	7,064.8	7,024.0	7,022.4	24.0	1.7	-82.97	-1,666.5	457.5	1,892.4	1,872.5	19.97	94.772	
7,550.0	7,068.3	7,027.8	7,026.2	24.2	1.7	-86.69	-1,666.5	457.6	1,859.1	1,838.6	20.47	90.809	
7,578.7	7,068.7	7,028.3	7,026.6	24.4	1.7	-88.71	-1,666.5	457.6	1,840.2	1,819.3	20.82	88.375	
7,578.9	7,068.7	7,028.3	7,026.6	24.4	1.7	-88.72	-1,666.5	457.6	1,840.1	1,819.2	20.82	88.363	
7,600.0	7,068.6	7,028.1	7,026.5	24.5	1.7	-88.72	-1,666.5	457.6	1,826.3	1,805.3	21.03	86.837	
7,677.1	7,068.1	7,027.7	7,026.0	25.1	1.7	-88.70	-1,666.5	457.6	1,777.3	1,755.6	21.77	81.642	
7,700.0	7,067.9	7,027.5	7,025.9	25.2	1.7	-88.69	-1,666.5	457.6	1,763.2	1,741.2	21.99	80.188	
7,775.6	7,067.4	7,027.1	7,025.4	25.9	1.7	-88.67	-1,666.5	457.5	1,717.8	1,695.0	22.80	75.338	
7,800.0	7,067.3	7,026.9	7,025.3	26.1	1.7	-88.67	-1,666.5	457.5	1,703.6	1,680.6	23.06	73.864	
7,874.0	7,066.8	7,026.5	7,024.8	26.8	1.7	-88.65	-1,666.5	457.5	1,662.0	1,638.0	24.01	69.231	
7,900.0	7,066.7	7,026.3	7,024.7	27.0	1.7	-88.64	-1,666.5	457.5	1,648.0	1,623.6	24.34	67.710	
7,972.4	7,066.2	7,025.9	7,024.2	27.8	1.7	-88.63	-1,666.5	457.5	1,610.3	1,585.0	25.32	63.590	
8,000.0	7,066.0	7,025.7	7,024.1	28.1	1.7	-88.62	-1,666.5	457.5	1,596.7	1,571.0	25.70	62.129	
8,070.8	7,065.6	7,025.3	7,023.7	28.9	1.7	-88.60	-1,666.5	457.5	1,563.1	1,536.4	26.71	58.515	
8,100.0	7,065.4	7,025.2	7,023.5	29.3	1.7	-88.60	-1,666.5	457.5	1,550.1	1,523.0	27.13	57.133	
8,169.3	7,065.0	7,024.8	7,023.1	30.2	1.7	-88.58	-1,666.5	457.5	1,520.9	1,492.7	28.17	53.997	
8,200.0	7,064.8	7,024.6	7,023.0	30.6	1.7	-88.57	-1,666.5	457.5	1,508.7	1,480.1	28.62	52.708	
8,267.7	7,064.4	7,024.2	7,022.6	31.5	1.7	-88.56	-1,666.5	457.5	1,483.9	1,454.2	29.67	50.014	
8,300.0	7,064.2	7,024.1	7,022.4	31.9	1.7	-88.55	-1,666.5	457.5	1,473.0	1,442.8	30.17	48.826	
8,366.1	7,063.7	7,023.7	7,022.1	32.8	1.7	-88.54	-1,666.5	457.5	1,452.7	1,421.5	31.22	46.533	
8,400.0	7,063.5	7,023.5	7,021.9	33.3	1.7	-88.53	-1,666.5	457.5	1,443.3	1,411.6	31.76	45.451	
8,464.5	7,063.1	7,023.2	7,021.5	34.2	1.7	-88.51	-1,666.5	457.4	1,427.6	1,394.8	32.80	43.518	
8,500.0	7,062.9	7,023.0	7,021.3	34.8	1.7	-88.51	-1,666.5	457.4	1,420.1	1,386.7	33.38	42.543	
8,563.0	7,062.5	7,022.7	7,021.0	35.7	1.7	-88.49	-1,666.5	457.4	1,408.9	1,374.5	34.42	40.930	
8,600.0	7,062.3	7,022.5	7,020.8	36.3	1.7	-88.49	-1,666.5	457.4	1,403.6	1,368.6	35.04	40.063	
8,661.4	7,061.9	7,022.2	7,020.5	37.2	1.7	-88.47	-1,666.5	457.4	1,396.9	1,360.9	36.07	38.731	
8,700.0	7,061.6	7,022.0	7,020.3	37.8	1.7	-88.46	-1,666.5	457.4	1,394.1	1,357.4	36.72	37.969	
8,759.8	7,061.3	7,021.7	7,020.0	38.8	1.7	-88.45	-1,666.5	457.4	1,391.9	1,354.1	37.74	36.883	
8,782.6	7,061.1	7,021.6	7,019.9	39.1	1.7	-88.45	-1,666.5	457.4	1,391.7	1,353.6	38.13	36.501 CC	
8,800.0	7,061.0	7,021.5	7,019.8	39.4	1.7	-88.44	-1,666.5	457.4	1,391.8	1,353.4	38.42	36.223 ES	
8,858.2	7,060.6	7,021.2	7,019.5	40.3	1.7	-88.43	-1,666.5	457.4	1,393.7	1,354.3	39.43	35.349	
8,900.0	7,060.4	7,021.0	7,019.3	41.0	1.7	-88.42	-1,666.5	457.4	1,396.6	1,356.5	40.15	34.786	
8,956.7	7,060.0	7,020.7	7,019.1	41.9	1.7	-88.41	-1,666.5	457.4	1,402.5	1,361.4	41.14	34.094	
9,000.0	7,059.8	7,020.5	7,018.9	42.6	1.7	-88.40	-1,666.5	457.4	1,408.5	1,366.7	41.89	33.624	
9,055.1	7,059.4	7,020.3	7,018.6	43.6	1.7	-88.39	-1,666.5	457.4	1,418.1	1,375.2	42.86	33.087	
9,100.0	7,059.1	7,020.1	7,018.4	44.3	1.7	-88.39	-1,666.5	457.4	1,427.4	1,383.8	43.65	32.701	
9,153.5	7,058.8	7,019.8	7,018.2	45.2	1.7	-88.37	-1,666.5	457.3	1,440.2	1,395.6	44.60	32.294	
9,200.0	7,058.5	7,019.6	7,017.9	46.0	1.7	-88.37	-1,666.5	457.3	1,452.9	1,407.5	45.42	31.987	
9,251.9	7,058.2	7,019.4	7,017.7	46.9	1.7	-88.36	-1,666.5	457.3	1,468.7	1,422.3	46.35	31.688	
9,300.0	7,057.9	7,019.2	7,017.5	47.7	1.7	-88.35	-1,666.5	457.3	1,484.7	1,437.5	47.21	31.453	
9,350.4	7,057.6	7,018.9	7,017.3	48.6	1.7	-88.34	-1,666.5	457.3	1,503.0	1,454.9	48.11	31.242	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,400.0	7,057.2	7,018.7	7,017.0	49.4	1.7	-88.33	-1,666.5	457.3	1,522.5	1,473.5	49.00	31.071	
9,448.8	7,056.9	7,018.5	7,016.8	50.3	1.7	-88.32	-1,666.5	457.3	1,542.9	1,493.0	49.88	30.933	
9,500.0	7,056.6	7,018.3	7,016.6	51.1	1.7	-88.31	-1,666.5	457.3	1,565.7	1,514.9	50.80	30.819	
9,547.2	7,056.3	7,018.1	7,016.4	52.0	1.7	-88.30	-1,666.5	457.3	1,587.9	1,536.2	51.66	30.738	
9,600.0	7,056.0	7,017.8	7,016.2	52.9	1.7	-88.29	-1,666.5	457.3	1,613.9	1,561.3	52.61	30.675	
9,645.6	7,055.7	7,017.7	7,016.0	53.7	1.7	-88.29	-1,666.5	457.3	1,637.5	1,584.1	53.45	30.640	
9,700.0	7,055.4	7,017.4	7,015.8	54.6	1.7	-88.28	-1,666.5	457.3	1,666.8	1,612.4	54.43	30.621 SF	
9,744.1	7,055.1	7,017.2	7,015.6	55.4	1.7	-88.27	-1,666.5	457.3	1,691.5	1,636.2	55.24	30.621	
9,800.0	7,054.7	7,017.0	7,015.3	56.4	1.7	-88.26	-1,666.5	457.3	1,723.9	1,667.6	56.26	30.641	
9,842.5	7,054.5	7,016.8	7,015.2	57.2	1.7	-88.25	-1,666.5	457.3	1,749.3	1,692.3	57.04	30.669	
9,900.0	7,054.1	7,016.6	7,014.9	58.2	1.7	-88.24	-1,666.5	457.3	1,784.7	1,726.6	58.09	30.722	
9,940.9	7,053.8	7,016.4	7,014.8	58.9	1.7	-88.24	-1,666.5	457.3	1,810.6	1,751.8	58.84	30.770	
10,000.0	7,053.5	7,016.2	7,014.5	60.0	1.7	-88.23	-1,666.5	457.3	1,849.0	1,789.0	59.93	30.852	
10,039.3	7,053.2	7,016.0	7,014.4	60.7	1.7	-88.22	-1,666.5	457.2	1,875.1	1,814.5	60.66	30.914	
10,100.0	7,052.8	7,015.8	7,014.1	61.8	1.7	-88.21	-1,666.5	457.2	1,916.3	1,854.5	61.77	31.022	
10,137.8	7,052.6	7,015.7	7,014.0	62.4	1.7	-88.20	-1,666.5	457.2	1,942.4	1,880.0	62.47	31.094	
10,200.0	7,052.2	7,015.4	7,013.8	63.6	1.7	-88.19	-1,666.5	457.2	1,986.4	1,922.7	63.62	31.222	
10,236.2	7,052.0	7,015.3	7,013.6	64.2	1.7	-88.19	-1,666.5	457.2	2,012.4	1,948.1	64.29	31.301	
10,300.0	7,051.6	7,015.0	7,013.4	65.4	1.7	-88.18	-1,666.5	457.2	2,058.9	1,993.4	65.47	31.447	
10,334.6	7,051.4	7,014.9	7,013.2	66.0	1.7	-88.17	-1,666.5	457.2	2,084.6	2,018.4	66.11	31.530	
10,400.0	7,051.0	7,014.7	7,013.0	67.2	1.7	-88.16	-1,666.5	457.2	2,133.7	2,066.3	67.33	31.691	
10,433.0	7,050.7	7,014.5	7,012.9	67.8	1.7	-88.16	-1,666.5	457.2	2,158.8	2,090.9	67.94	31.775	
10,500.0	7,050.3	7,014.3	7,012.6	69.0	1.7	-88.15	-1,666.5	457.2	2,210.4	2,141.3	69.19	31.949	
10,531.5	7,050.1	7,014.2	7,012.5	69.6	1.7	-88.14	-1,666.5	457.2	2,235.0	2,165.2	69.77	32.033	
10,600.0	7,049.7	7,013.9	7,012.3	70.8	1.7	-88.13	-1,666.5	457.2	2,289.0	2,217.9	71.05	32.218	
10,629.9	7,049.5	7,013.8	7,012.2	71.4	1.7	-88.13	-1,666.5	457.2	2,312.8	2,241.2	71.61	32.299	
10,700.0	7,049.1	7,013.6	7,011.9	72.7	1.7	-88.12	-1,666.5	457.2	2,369.2	2,296.3	72.91	32.493	
10,728.3	7,048.9	7,013.5	7,011.8	73.2	1.7	-88.11	-1,666.5	457.2	2,392.2	2,318.7	73.44	32.572	
10,800.0	7,048.4	7,013.2	7,011.6	74.5	1.7	-88.10	-1,666.5	457.2	2,450.8	2,376.0	74.78	32.773	
10,826.7	7,048.3	7,013.1	7,011.5	75.0	1.7	-88.10	-1,666.5	457.2	2,472.9	2,397.6	75.28	32.849	
10,900.0	7,047.8	7,012.9	7,011.2	76.3	1.7	-88.09	-1,666.5	457.2	2,533.8	2,457.1	76.65	33.056	
10,925.2	7,047.7	7,012.8	7,011.1	76.8	1.7	-88.09	-1,666.5	457.2	2,554.8	2,477.7	77.12	33.127	
11,000.0	7,047.2	7,012.5	7,010.9	78.2	1.7	-88.08	-1,666.5	457.2	2,617.9	2,539.4	78.52	33.339	
11,023.6	7,047.0	7,012.5	7,010.8	78.6	1.7	-88.07	-1,666.5	457.2	2,637.9	2,558.9	78.97	33.406	
11,100.0	7,046.6	7,012.2	7,010.5	80.0	1.7	-88.06	-1,666.5	457.1	2,703.1	2,622.7	80.40	33.622	
11,122.0	7,046.4	7,012.1	7,010.5	80.4	1.7	-88.06	-1,666.5	457.1	2,722.0	2,641.2	80.81	33.684	
11,200.0	7,045.9	7,011.9	7,010.2	81.9	1.7	-88.05	-1,666.5	457.1	2,789.3	2,707.0	82.27	33.903	
11,220.4	7,045.8	7,011.8	7,010.2	82.3	1.7	-88.05	-1,666.5	457.1	2,807.1	2,724.4	82.66	33.960	
11,300.0	7,045.3	7,011.6	7,009.9	83.7	1.7	-88.03	-1,666.5	457.1	2,876.4	2,792.3	84.15	34.181	
11,318.9	7,045.2	7,011.5	7,009.8	84.1	1.7	-88.03	-1,666.5	457.1	2,892.9	2,808.4	84.51	34.233	
11,400.0	7,044.7	7,000.0	6,998.3	85.6	1.7	-87.56	-1,666.5	456.8	2,964.4	2,878.4	86.00	34.471	
11,417.3	7,044.6	7,000.0	6,998.3	85.9	1.7	-87.56	-1,666.5	456.8	2,979.6	2,893.3	86.32	34.518	
11,500.0	7,044.0	7,000.0	6,998.3	87.5	1.7	-87.56	-1,666.5	456.8	3,053.0	2,965.1	87.88	34.741	
11,515.7	7,043.9	7,000.0	6,998.3	87.7	1.7	-87.56	-1,666.5	456.8	3,067.0	2,978.8	88.18	34.783	
11,600.0	7,043.4	7,000.0	6,998.3	89.3	1.7	-87.56	-1,666.5	456.8	3,142.3	3,052.6	89.76	35.007	
11,614.1	7,043.3	7,000.0	6,998.3	89.6	1.7	-87.56	-1,666.5	456.8	3,155.0	3,065.0	90.03	35.044	
11,700.0	7,042.8	7,000.0	6,998.3	91.2	1.7	-87.56	-1,666.5	456.8	3,232.3	3,140.7	91.65	35.268	
11,712.6	7,042.7	7,000.0	6,998.3	91.4	1.7	-87.56	-1,666.5	456.8	3,243.7	3,151.8	91.89	35.301	
11,800.0	7,042.2	7,000.0	6,998.3	93.0	1.7	-87.56	-1,666.5	456.8	3,322.8	3,229.3	93.54	35.525	
11,811.0	7,042.1	7,000.0	6,998.3	93.2	1.7	-87.56	-1,666.5	456.8	3,332.8	3,239.1	93.74	35.553	
11,900.0	7,041.5	7,000.0	6,998.3	94.9	1.7	-87.56	-1,666.5	456.8	3,413.9	3,318.5	95.42	35.776	
11,909.4	7,041.5	7,000.0	6,998.3	95.1	1.7	-87.56	-1,666.5	456.8	3,422.5	3,326.9	95.60	35.799	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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
12,000.0	7,040.9	7,000.0	6,998.3	96.8	1.7	-87.56	-1,666.5	456.8	3,505.4	3,408.1	97.31	36.022	
12,007.8	7,040.8	7,000.0	6,998.3	96.9	1.7	-87.56	-1,666.5	456.8	3,512.7	3,415.2	97.46	36.041	
12,100.0	7,040.3	7,000.0	6,998.3	98.7	1.7	-87.56	-1,666.5	456.8	3,597.4	3,498.2	99.20	36.263	
12,106.3	7,040.2	7,000.0	6,998.3	98.8	1.7	-87.56	-1,666.5	456.8	3,603.2	3,503.9	99.32	36.278	
12,200.0	7,039.6	7,000.0	6,998.3	100.5	1.7	-87.56	-1,666.5	456.8	3,689.9	3,588.8	101.10	36.499	
12,204.7	7,039.6	7,000.0	6,998.3	100.6	1.7	-87.56	-1,666.5	456.8	3,694.2	3,593.0	101.18	36.510	
12,300.0	7,039.0	7,000.0	6,998.3	102.4	1.7	-87.56	-1,666.5	456.8	3,782.7	3,679.7	102.99	36.729	
12,303.1	7,039.0	7,000.0	6,998.3	102.5	1.7	-87.56	-1,666.5	456.8	3,785.6	3,682.5	103.05	36.736	
12,400.0	7,038.4	7,000.0	6,998.3	104.3	1.7	-87.56	-1,666.5	456.8	3,875.8	3,770.9	104.88	36.954	
12,401.5	7,038.4	7,000.0	6,998.3	104.3	1.7	-87.56	-1,666.5	456.8	3,877.3	3,772.4	104.91	36.958	
12,500.0	7,037.8	7,000.0	6,998.3	106.2	1.7	-87.56	-1,666.5	456.8	3,969.3	3,862.5	106.78	37.174	
12,598.4	7,037.1	7,000.0	6,998.3	108.0	1.7	-87.56	-1,666.5	456.8	4,061.6	3,953.0	108.64	37.386	
12,600.0	7,037.1	7,000.0	6,998.3	108.0	1.7	-87.56	-1,666.5	456.8	4,063.1	3,954.4	108.67	37.389	
12,696.8	7,036.5	7,000.0	6,998.3	109.9	1.7	-87.56	-1,666.5	456.8	4,154.2	4,043.7	110.51	37.592	
12,700.0	7,036.5	7,000.0	6,998.3	109.9	1.7	-87.56	-1,666.5	456.8	4,157.2	4,046.6	110.57	37.599	
12,795.2	7,035.9	7,000.0	6,998.3	111.7	1.7	-87.56	-1,666.5	456.8	4,247.1	4,134.7	112.37	37.794	
12,800.0	7,035.9	7,000.0	6,998.3	111.8	1.7	-87.56	-1,666.5	456.8	4,251.6	4,139.1	112.46	37.804	
12,893.7	7,035.3	7,000.0	6,998.3	113.6	1.7	-87.56	-1,666.5	456.8	4,340.2	4,226.0	114.24	37.991	
12,900.0	7,035.2	7,000.0	6,998.3	113.7	1.7	-87.56	-1,666.5	456.8	4,346.2	4,231.8	114.36	38.004	
12,992.1	7,034.7	7,000.0	6,998.3	115.4	1.7	-87.56	-1,666.5	456.8	4,433.5	4,317.4	116.11	38.184	
13,000.0	7,034.6	7,000.0	6,998.3	115.6	1.7	-87.56	-1,666.5	456.8	4,441.0	4,324.8	116.26	38.199	
13,090.5	7,034.0	7,000.0	6,998.3	117.3	1.7	-87.56	-1,666.5	456.8	4,527.1	4,409.1	117.98	38.372	
13,100.0	7,034.0	7,000.0	6,998.3	117.5	1.7	-87.56	-1,666.5	456.8	4,536.1	4,417.9	118.16	38.390	
13,188.9	7,033.4	7,000.0	6,998.3	119.1	1.7	-87.56	-1,666.5	456.8	4,620.8	4,501.0	119.85	38.556	
13,200.0	7,033.4	7,000.0	6,998.3	119.3	1.7	-87.56	-1,666.5	456.8	4,631.4	4,511.3	120.06	38.576	
13,287.4	7,032.8	7,000.0	6,998.3	121.0	1.7	-87.56	-1,666.5	456.8	4,714.8	4,593.1	121.72	38.735	
13,300.0	7,032.7	7,000.0	6,998.3	121.2	1.7	-87.56	-1,666.5	456.8	4,726.9	4,604.9	121.96	38.758	
13,385.8	7,032.2	7,000.0	6,998.3	122.9	1.7	-87.56	-1,666.5	456.8	4,808.9	4,685.3	123.59	38.910	
13,400.0	7,032.1	7,000.0	6,998.3	123.1	1.7	-87.56	-1,666.5	456.8	4,822.5	4,698.7	123.86	38.935	
13,484.2	7,031.6	7,000.0	6,998.3	124.7	1.7	-87.56	-1,666.5	456.8	4,903.2	4,777.8	125.46	39.082	
13,500.0	7,031.5	7,000.0	6,998.3	125.0	1.7	-87.56	-1,666.5	456.8	4,918.3	4,792.6	125.76	39.109	
13,582.6	7,030.9	7,000.0	6,998.3	126.6	1.7	-87.56	-1,666.5	456.8	4,997.7	4,870.3	127.33	39.249	
13,600.0	7,030.8	7,000.0	6,998.3	126.9	1.7	-87.56	-1,666.5	456.8	5,014.3	4,886.7	127.66	39.278	
13,681.1	7,030.3	7,000.0	6,998.3	128.4	1.7	-87.56	-1,666.5	456.8	5,092.3	4,963.1	129.20	39.412	
13,700.0	7,030.2	7,000.0	6,998.3	128.8	1.7	-87.56	-1,666.5	456.8	5,110.5	4,980.9	129.56	39.444	
13,779.5	7,029.7	7,000.0	6,998.3	130.3	1.7	-87.56	-1,666.5	456.8	5,187.0	5,055.9	131.08	39.572	
13,800.0	7,029.6	7,000.0	6,998.3	130.7	1.7	-87.56	-1,666.5	456.8	5,206.8	5,075.3	131.47	39.605	
13,877.9	7,029.1	7,000.0	6,998.3	132.2	1.7	-87.56	-1,666.5	456.8	5,281.9	5,149.0	132.95	39.728	
13,900.0	7,029.0	7,000.0	6,998.3	132.6	1.7	-87.56	-1,666.5	456.8	5,303.2	5,169.8	133.37	39.763	
13,976.3	7,028.5	7,000.0	6,998.3	134.0	1.7	-87.56	-1,666.5	456.8	5,376.9	5,242.1	134.82	39.881	
14,000.0	7,028.3	7,000.0	6,998.3	134.5	1.7	-87.56	-1,666.5	456.8	5,399.8	5,264.5	135.27	39.917	
14,074.8	7,027.9	7,000.0	6,998.3	135.9	1.7	-87.56	-1,666.5	456.8	5,472.0	5,335.3	136.70	40.030	
14,100.0	7,027.7	7,000.0	6,998.3	136.4	1.7	-87.56	-1,666.5	456.8	5,496.4	5,359.3	137.18	40.068	
14,173.2	7,027.2	7,000.0	6,998.3	137.8	1.7	-87.56	-1,666.5	456.8	5,567.3	5,428.7	138.57	40.176	
14,200.0	7,027.1	7,000.0	6,998.3	138.3	1.7	-87.56	-1,666.5	456.8	5,593.2	5,454.2	139.08	40.215	
14,210.5	7,027.0	7,000.0	6,998.3	138.5	1.7	-87.56	-1,666.5	456.8	5,603.4	5,464.1	139.28	40.231	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	155.18	-2,834.3	1,310.6	7,638.0				
98.4	98.4	11,613.7	6,907.5	0.1	92.0	155.18	-2,834.3	1,310.6	7,548.3	7,464.6	83.71	90.176	
100.0	100.0	11,613.7	6,907.5	0.1	92.0	155.18	-2,834.3	1,310.6	7,546.8	7,463.1	83.71	90.157	
196.8	196.8	11,613.7	6,907.5	0.3	92.0	155.18	-2,834.3	1,310.6	7,458.8	7,374.8	83.93	88.874	
200.0	200.0	11,613.7	6,907.5	0.3	92.0	155.18	-2,834.3	1,310.6	7,455.9	7,372.0	83.93	88.832	
295.3	295.3	11,613.7	6,907.5	0.5	92.0	155.18	-2,834.3	1,310.6	7,369.5	7,285.3	84.15	87.579	
300.0	300.0	11,613.7	6,907.5	0.5	92.0	155.18	-2,834.3	1,310.6	7,365.2	7,281.1	84.16	87.517	
393.7	393.7	11,613.7	6,907.5	0.8	92.0	155.18	-2,834.3	1,310.6	7,280.5	7,196.1	84.37	86.294	
400.0	400.0	11,613.7	6,907.5	0.8	92.0	155.18	-2,834.3	1,310.6	7,274.8	7,190.4	84.38	86.212	
492.1	492.1	11,613.7	6,907.5	1.0	92.0	155.18	-2,834.3	1,310.6	7,191.7	7,107.1	84.59	85.019	
500.0	500.0	11,613.7	6,907.5	1.0	92.0	155.18	-2,834.3	1,310.6	7,184.6	7,100.0	84.61	84.917	
590.5	590.5	11,613.7	6,907.5	1.2	92.0	155.18	-2,834.3	1,310.6	7,103.1	7,018.3	84.81	83.753	
600.0	600.0	11,613.7	6,907.5	1.2	92.0	155.18	-2,834.3	1,310.6	7,094.6	7,009.8	84.83	83.632	
689.0	689.0	11,613.7	6,907.5	1.4	92.0	155.18	-2,834.3	1,310.6	7,014.9	6,929.8	85.03	82.497	
700.0	700.0	11,613.7	6,907.5	1.4	92.0	155.18	-2,834.3	1,310.6	7,005.0	6,919.9	85.06	82.357	
787.4	787.4	11,613.7	6,907.5	1.6	92.0	155.18	-2,834.3	1,310.6	6,926.9	6,841.6	85.25	81.251	
800.0	800.0	11,613.7	6,907.5	1.7	92.0	155.18	-2,834.3	1,310.6	6,915.6	6,830.3	85.28	81.092	
885.8	885.8	11,613.7	6,907.5	1.9	92.0	155.18	-2,834.3	1,310.6	6,839.2	6,753.7	85.47	80.014	
900.0	900.0	11,613.7	6,907.5	1.9	92.0	155.18	-2,834.3	1,310.6	6,826.5	6,741.0	85.51	79.837	
984.2	984.2	11,613.7	6,907.5	2.1	92.0	155.18	-2,834.3	1,310.6	6,751.7	6,666.0	85.70	78.788	
1,000.0	1,000.0	11,613.7	6,907.5	2.1	92.0	155.18	-2,834.3	1,310.6	6,737.8	6,652.0	85.73	78.592	
1,082.7	1,082.7	11,613.7	6,907.5	2.3	92.0	155.18	-2,834.3	1,310.6	6,664.6	6,578.7	85.92	77.571	
1,100.0	1,100.0	11,613.7	6,907.5	2.3	92.0	155.18	-2,834.3	1,310.6	6,649.3	6,563.4	85.96	77.358	
1,181.1	1,181.1	11,613.7	6,907.5	2.5	92.0	-132.86	-2,834.3	1,310.6	6,578.2	6,546.3	31.92	206.075	
1,200.0	1,200.0	11,613.7	6,907.5	2.6	92.0	-133.34	-2,834.3	1,310.6	6,561.8	6,529.3	32.46	202.159	
1,279.5	1,279.5	11,613.7	6,907.5	2.7	92.0	-135.28	-2,834.3	1,310.6	6,493.2	6,458.6	34.69	187.204	
1,300.0	1,299.8	11,613.7	6,907.5	2.8	92.0	-135.75	-2,834.3	1,310.6	6,475.8	6,440.5	35.25	183.733	
1,377.9	1,377.5	11,613.7	6,907.5	2.9	92.0	-137.44	-2,834.3	1,310.6	6,409.9	6,372.6	37.32	171.776	
1,400.0	1,399.5	11,613.7	6,907.5	3.0	92.0	-137.89	-2,834.3	1,310.6	6,391.5	6,353.6	37.88	168.740	
1,476.4	1,475.3	11,613.7	6,907.5	3.2	92.0	-139.37	-2,834.3	1,310.6	6,328.4	6,288.7	39.75	159.210	
1,500.0	1,498.7	11,613.7	6,907.5	3.2	92.0	-139.80	-2,834.3	1,310.6	6,309.2	6,268.9	40.30	156.560	
1,574.8	1,572.6	11,613.7	6,907.5	3.4	92.0	-141.09	-2,834.3	1,310.6	6,248.9	6,207.0	41.96	148.923	
1,600.0	1,597.5	11,613.7	6,907.5	3.5	92.0	-141.51	-2,834.3	1,310.6	6,228.9	6,186.4	42.49	146.604	
1,673.2	1,669.4	11,613.7	6,907.5	3.7	92.0	-142.64	-2,834.3	1,310.6	6,171.6	6,127.6	43.95	140.434	
1,700.2	1,695.8	11,613.7	6,907.5	3.8	92.0	-143.04	-2,834.3	1,310.6	6,150.8	6,106.3	44.45	138.377	
1,771.6	1,765.7	11,613.7	6,907.5	4.1	92.0	-143.04	-2,834.3	1,310.6	6,096.1	6,051.4	44.65	136.532	
1,800.0	1,793.4	11,613.7	6,907.5	4.2	92.0	-143.04	-2,834.3	1,310.6	6,074.5	6,029.7	44.73	135.810	
1,870.1	1,862.0	11,613.7	6,907.5	4.4	92.0	-143.04	-2,834.3	1,310.6	6,021.3	5,976.4	44.93	134.010	
1,900.0	1,891.2	11,613.7	6,907.5	4.5	92.0	-143.04	-2,834.3	1,310.6	5,998.7	5,953.7	45.02	133.250	
1,968.5	1,958.3	11,613.7	6,907.5	4.8	92.0	-143.04	-2,834.3	1,310.6	5,947.2	5,902.0	45.22	131.506	
2,000.0	1,989.1	11,613.7	6,907.5	4.9	92.0	-143.04	-2,834.3	1,310.6	5,923.7	5,878.3	45.32	130.713	
2,066.9	2,054.5	11,613.7	6,907.5	5.2	92.0	-143.04	-2,834.3	1,310.6	5,873.8	5,828.3	45.52	129.028	
2,100.0	2,086.9	11,613.7	6,907.5	5.3	92.0	-143.04	-2,834.3	1,310.6	5,849.4	5,803.7	45.63	128.203	
2,165.3	2,150.8	11,613.7	6,907.5	5.6	92.0	-143.04	-2,834.3	1,310.6	5,801.2	5,755.4	45.83	126.580	
2,200.0	2,184.7	11,613.7	6,907.5	5.7	92.0	-143.04	-2,834.3	1,310.6	5,775.8	5,729.9	45.94	125.728	
2,263.8	2,247.1	11,613.7	6,907.5	6.0	92.0	-143.04	-2,834.3	1,310.6	5,729.4	5,683.2	46.14	124.167	
2,300.0	2,282.5	11,613.7	6,907.5	6.1	92.0	-143.04	-2,834.3	1,310.6	5,703.1	5,656.9	46.26	123.289	
2,362.2	2,343.3	11,613.7	6,907.5	6.4	92.0	-143.04	-2,834.3	1,310.6	5,658.3	5,611.9	46.46	121.791	
2,400.0	2,380.3	11,613.7	6,907.5	6.6	92.0	-143.04	-2,834.3	1,310.6	5,631.2	5,584.7	46.58	120.891	
2,460.6	2,439.6	11,613.7	6,907.5	6.8	92.0	-143.04	-2,834.3	1,310.6	5,588.1	5,541.3	46.78	119.457	
2,500.0	2,478.1	11,613.7	6,907.5	7.0	92.0	-143.04	-2,834.3	1,310.6	5,560.2	5,513.3	46.91	118.535	
2,559.0	2,535.9	11,613.7	6,907.5	7.2	92.0	-143.04	-2,834.3	1,310.6	5,518.7	5,471.6	47.10	117.164	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,600.0	2,575.9	11,613.7	6,907.5	7.4	92.0	-143.04	-2,834.3	1,310.6	5,490.1	5,442.9	47.24	116.223	
2,657.5	2,632.2	11,613.7	6,907.5	7.7	92.0	-143.04	-2,834.3	1,310.6	5,450.3	5,402.8	47.43	114.915	
2,700.0	2,673.8	11,613.7	6,907.5	7.8	92.0	-143.04	-2,834.3	1,310.6	5,421.0	5,373.4	47.57	113.957	
2,755.9	2,728.4	11,613.7	6,907.5	8.1	92.0	-143.04	-2,834.3	1,310.6	5,382.7	5,335.0	47.76	112.710	
2,800.0	2,771.6	11,613.7	6,907.5	8.3	92.0	-143.04	-2,834.3	1,310.6	5,352.8	5,304.9	47.90	111.738	
2,854.3	2,824.7	11,613.7	6,907.5	8.5	92.0	-143.04	-2,834.3	1,310.6	5,316.1	5,268.1	48.09	110.551	
2,900.0	2,869.4	11,613.7	6,907.5	8.7	92.0	-143.04	-2,834.3	1,310.6	5,285.6	5,237.3	48.24	109.565	
2,952.7	2,921.0	11,613.7	6,907.5	8.9	92.0	-143.04	-2,834.3	1,310.6	5,250.6	5,202.2	48.42	108.438	
3,000.0	2,967.2	11,613.7	6,907.5	9.2	92.0	-143.04	-2,834.3	1,310.6	5,219.5	5,170.9	48.58	107.441	
3,051.2	3,017.3	11,613.7	6,907.5	9.4	92.0	-143.04	-2,834.3	1,310.6	5,186.0	5,137.3	48.75	106.372	
3,100.0	3,065.0	11,613.7	6,907.5	9.6	92.0	-143.04	-2,834.3	1,310.6	5,154.4	5,105.5	48.92	105.365	
3,149.6	3,113.5	11,613.7	6,907.5	9.8	92.0	-143.04	-2,834.3	1,310.6	5,122.6	5,073.5	49.09	104.353	
3,200.0	3,162.8	11,613.7	6,907.5	10.0	92.0	-143.04	-2,834.3	1,310.6	5,090.5	5,041.3	49.26	103.338	
3,248.0	3,209.8	11,613.7	6,907.5	10.3	92.0	-143.04	-2,834.3	1,310.6	5,060.2	5,010.8	49.43	102.382	
3,300.0	3,260.6	11,613.7	6,907.5	10.5	92.0	-143.04	-2,834.3	1,310.6	5,027.8	4,978.2	49.60	101.360	
3,346.4	3,306.1	11,613.7	6,907.5	10.7	92.0	-143.04	-2,834.3	1,310.6	4,999.1	4,949.3	49.76	100.458	
3,400.0	3,358.4	11,613.7	6,907.5	10.9	92.0	-143.04	-2,834.3	1,310.6	4,966.3	4,916.3	49.95	99.432	
3,444.9	3,402.3	11,613.7	6,907.5	11.1	92.0	-143.04	-2,834.3	1,310.6	4,939.1	4,889.0	50.10	98.582	
3,500.0	3,456.3	11,613.7	6,907.5	11.4	92.0	-143.04	-2,834.3	1,310.6	4,906.1	4,855.8	50.29	97.553	
3,543.3	3,498.6	11,613.7	6,907.5	11.6	92.0	-143.04	-2,834.3	1,310.6	4,880.4	4,829.9	50.44	96.755	
3,600.0	3,554.1	11,613.7	6,907.5	11.8	92.0	-143.04	-2,834.3	1,310.6	4,847.1	4,796.5	50.64	95.725	
3,641.7	3,594.9	11,613.7	6,907.5	12.0	92.0	-143.04	-2,834.3	1,310.6	4,822.9	4,772.2	50.78	94.976	
3,700.0	3,651.9	11,613.7	6,907.5	12.3	92.0	-143.04	-2,834.3	1,310.6	4,789.6	4,738.6	50.98	93.946	
3,740.1	3,691.2	11,613.7	6,907.5	12.5	92.0	-143.04	-2,834.3	1,310.6	4,766.9	4,715.7	51.12	93.246	
3,800.0	3,749.7	11,613.7	6,907.5	12.7	92.0	-143.04	-2,834.3	1,310.6	4,733.4	4,682.1	51.33	92.218	
3,838.6	3,787.4	11,613.7	6,907.5	12.9	92.0	-143.04	-2,834.3	1,310.6	4,712.2	4,660.7	51.46	91.565	
3,900.0	3,847.5	11,613.7	6,907.5	13.2	92.0	-143.04	-2,834.3	1,310.6	4,678.7	4,627.1	51.68	90.541	
3,937.0	3,883.7	11,613.7	6,907.5	13.3	92.0	-143.04	-2,834.3	1,310.6	4,658.9	4,607.1	51.80	89.932	
4,000.0	3,945.3	11,613.7	6,907.5	13.6	92.0	-143.04	-2,834.3	1,310.6	4,625.6	4,573.5	52.02	88.913	
4,035.4	3,980.0	11,613.7	6,907.5	13.8	92.0	-143.04	-2,834.3	1,310.6	4,607.1	4,555.0	52.15	88.349	
4,100.0	4,043.1	11,613.7	6,907.5	14.1	92.0	-143.04	-2,834.3	1,310.6	4,574.0	4,521.6	52.37	87.337	
4,133.8	4,076.3	11,613.7	6,907.5	14.2	92.0	-143.04	-2,834.3	1,310.6	4,556.9	4,504.4	52.49	86.815	
4,200.0	4,141.0	11,613.7	6,907.5	14.5	92.0	-143.04	-2,834.3	1,310.6	4,524.0	4,471.3	52.72	85.812	
4,232.3	4,172.5	11,613.7	6,907.5	14.7	92.0	-143.04	-2,834.3	1,310.6	4,508.2	4,455.4	52.83	85.330	
4,300.0	4,238.8	11,613.7	6,907.5	15.0	92.0	-143.04	-2,834.3	1,310.6	4,475.7	4,422.6	53.07	84.337	
4,330.7	4,268.8	11,613.7	6,907.5	15.1	92.0	-143.04	-2,834.3	1,310.6	4,461.2	4,408.0	53.18	83.894	
4,400.0	4,336.6	11,613.7	6,907.5	15.4	92.0	-143.04	-2,834.3	1,310.6	4,429.1	4,375.7	53.42	82.914	
4,429.1	4,365.1	11,613.7	6,907.5	15.6	92.0	-143.04	-2,834.3	1,310.6	4,415.9	4,362.4	53.52	82.509	
4,500.0	4,434.4	11,613.7	6,907.5	15.9	92.0	-143.04	-2,834.3	1,310.6	4,384.3	4,330.6	53.77	81.541	
4,527.5	4,461.3	11,613.7	6,907.5	16.0	92.0	-143.04	-2,834.3	1,310.6	4,372.3	4,318.5	53.86	81.172	
4,600.0	4,532.2	11,613.7	6,907.5	16.4	92.0	-143.04	-2,834.3	1,310.6	4,341.4	4,287.3	54.12	80.220	
4,626.0	4,557.6	11,613.7	6,907.5	16.5	92.0	-143.04	-2,834.3	1,310.6	4,330.6	4,276.3	54.21	79.886	
4,700.0	4,630.0	11,613.7	6,907.5	16.8	92.0	-143.04	-2,834.3	1,310.6	4,300.4	4,245.9	54.47	78.951	
4,724.4	4,653.9	11,613.7	6,907.5	16.9	92.0	-143.04	-2,834.3	1,310.6	4,290.6	4,236.1	54.55	78.649	
4,800.0	4,727.8	11,613.7	6,907.5	17.3	92.0	-143.04	-2,834.3	1,310.6	4,261.3	4,206.5	54.82	77.733	
4,822.8	4,750.2	11,613.7	6,907.5	17.4	92.0	-143.04	-2,834.3	1,310.6	4,252.6	4,197.7	54.90	77.462	
4,900.0	4,825.6	11,613.7	6,907.5	17.7	92.0	-143.04	-2,834.3	1,310.6	4,224.2	4,169.0	55.17	76.566	
4,921.2	4,846.4	11,613.7	6,907.5	17.8	92.0	-143.04	-2,834.3	1,310.6	4,216.6	4,161.3	55.25	76.325	
5,000.0	4,923.5	11,613.7	6,907.5	18.2	92.0	-143.04	-2,834.3	1,310.6	4,189.2	4,133.6	55.52	75.451	
5,019.7	4,942.7	11,613.7	6,907.5	18.3	92.0	-143.04	-2,834.3	1,310.6	4,182.5	4,126.9	55.59	75.237	
5,100.0	5,021.3	11,613.7	6,907.5	18.6	92.0	-143.04	-2,834.3	1,310.6	4,156.2	4,100.4	55.87	74.387	
5,118.1	5,039.0	11,613.7	6,907.5	18.7	92.0	-143.04	-2,834.3	1,310.6	4,150.5	4,094.6	55.94	74.200	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	11,613.7	6,907.5	19.1	92.0	-143.04	-2,834.3	1,310.6	4,125.5	4,069.3	56.22	73.375	
5,216.5	5,135.3	11,613.7	6,907.5	19.2	92.0	-143.04	-2,834.3	1,310.6	4,120.6	4,064.3	56.28	73.213	
5,300.0	5,216.9	11,613.7	6,907.5	19.6	92.0	-143.04	-2,834.3	1,310.6	4,096.9	4,040.4	56.58	72.414	
5,314.9	5,231.5	11,613.7	6,907.5	19.6	92.0	-143.04	-2,834.3	1,310.6	4,092.9	4,036.2	56.63	72.275	
5,400.0	5,314.7	11,613.7	6,907.5	20.0	92.0	-143.04	-2,834.3	1,310.6	4,070.7	4,013.7	56.93	71.505	
5,413.4	5,327.8	11,613.7	6,907.5	20.1	92.0	-143.04	-2,834.3	1,310.6	4,067.3	4,010.3	56.98	71.387	
5,500.0	5,412.5	11,613.7	6,907.5	20.5	92.0	-143.04	-2,834.3	1,310.6	4,046.7	3,989.4	57.28	70.646	
5,511.8	5,424.1	11,613.7	6,907.5	20.5	92.0	-143.04	-2,834.3	1,310.6	4,044.0	3,986.7	57.32	70.549	
5,600.0	5,510.3	11,613.7	6,907.5	20.9	92.0	-143.04	-2,834.3	1,310.6	4,025.0	3,967.4	57.63	69.839	
5,610.2	5,520.3	11,613.7	6,907.5	21.0	92.0	-143.04	-2,834.3	1,310.6	4,023.0	3,965.3	57.67	69.759	
5,700.0	5,608.2	11,613.7	6,907.5	21.4	92.0	-143.04	-2,834.3	1,310.6	4,005.8	3,947.8	57.99	69.082	
5,708.6	5,616.6	11,613.7	6,907.5	21.4	92.0	-143.04	-2,834.3	1,310.6	4,004.2	3,946.2	58.02	69.019	
5,729.2	5,636.7	11,613.7	6,907.5	21.5	92.0	-143.04	-2,834.3	1,310.6	4,000.6	3,942.5	58.09	68.871	
5,800.0	5,706.1	11,613.7	6,907.5	21.8	92.0	-142.88	-2,834.3	1,310.6	3,988.2	3,930.0	58.21	68.520	
5,807.1	5,713.1	11,613.7	6,907.5	21.8	92.0	-142.87	-2,834.3	1,310.6	3,987.0	3,928.8	58.21	68.493	
5,900.0	5,804.7	11,613.7	6,907.5	22.1	92.0	-142.67	-2,834.3	1,310.6	3,970.5	3,912.3	58.26	68.156	
5,905.5	5,810.2	11,613.7	6,907.5	22.1	92.0	-142.65	-2,834.3	1,310.6	3,969.5	3,911.3	58.26	68.139	
6,000.0	5,903.9	11,613.7	6,907.5	22.3	92.0	-142.44	-2,834.3	1,310.6	3,952.5	3,894.3	58.23	67.882	
6,003.9	5,907.8	11,613.7	6,907.5	22.4	92.0	-142.43	-2,834.3	1,310.6	3,951.8	3,893.5	58.22	67.874	
6,100.0	6,003.4	11,613.7	6,907.5	22.6	92.0	-142.22	-2,834.3	1,310.6	3,934.2	3,876.1	58.11	67.697	
6,102.3	6,005.7	11,613.7	6,907.5	22.6	92.0	-142.21	-2,834.3	1,310.6	3,933.8	3,875.6	58.11	67.694	
6,200.0	6,103.2	11,613.7	6,907.5	22.7	92.0	-141.98	-2,834.3	1,310.6	3,915.6	3,857.7	57.92	67.600	
6,200.8	6,104.0	11,613.7	6,907.5	22.7	92.0	-141.98	-2,834.3	1,310.6	3,915.5	3,857.6	57.92	67.600	
6,299.2	6,202.3	11,613.7	6,907.5	22.9	92.0	-141.75	-2,834.3	1,310.6	3,897.0	3,839.3	57.66	67.590	
6,300.0	6,203.1	11,613.7	6,907.5	22.9	92.0	-141.75	-2,834.3	1,310.6	3,896.8	3,839.2	57.65	67.590	
6,329.4	6,232.5	11,613.7	6,907.5	22.9	92.0	-144.16	-2,834.3	1,310.6	3,891.3	3,833.5	57.78	67.346	
6,397.6	6,300.8	11,613.7	6,907.5	23.0	92.0	144.16	-2,834.3	1,310.6	3,878.9	3,821.0	57.88	67.017	
6,400.0	6,303.1	11,613.7	6,907.5	23.0	92.0	144.16	-2,834.3	1,310.6	3,878.5	3,820.6	57.88	67.006	
6,449.4	6,352.5	11,613.7	6,907.5	23.1	92.0	144.16	-2,834.3	1,310.6	3,870.3	3,812.4	57.96	66.775	
6,496.0	6,399.2	11,613.7	6,907.5	23.1	92.0	-36.46	-2,834.3	1,310.6	3,861.9	3,804.1	57.88	66.726	
6,500.0	6,403.1	11,613.7	6,907.5	23.1	92.0	-36.50	-2,834.3	1,310.6	3,861.1	3,803.2	57.90	66.690	
6,550.0	6,452.8	11,613.7	6,907.5	23.1	92.0	-37.05	-2,834.3	1,310.6	3,849.9	3,791.7	58.27	66.074	
6,594.5	6,496.6	11,613.7	6,907.5	23.2	92.0	-37.64	-2,834.3	1,310.6	3,838.2	3,779.4	58.79	65.289	
6,600.0	6,502.0	11,613.7	6,907.5	23.2	92.0	-37.72	-2,834.3	1,310.6	3,836.6	3,777.8	58.86	65.178	
6,650.0	6,550.5	11,613.7	6,907.5	23.2	92.0	-38.51	-2,834.3	1,310.6	3,821.3	3,761.6	59.69	64.014	
6,692.9	6,591.4	11,613.7	6,907.5	23.2	92.0	-39.30	-2,834.3	1,310.6	3,806.5	3,745.9	60.60	62.817	
6,700.0	6,598.0	11,613.7	6,907.5	23.2	92.0	-39.45	-2,834.3	1,310.6	3,803.9	3,743.2	60.76	62.604	
6,750.0	6,644.4	11,613.7	6,907.5	23.2	92.0	-40.52	-2,834.3	1,310.6	3,784.6	3,722.6	62.07	60.975	
6,791.3	6,681.6	11,613.7	6,907.5	23.2	92.0	-41.52	-2,834.3	1,310.6	3,767.3	3,704.0	63.34	59.481	
6,800.0	6,689.3	11,613.7	6,907.5	23.2	92.0	-41.75	-2,834.3	1,310.6	3,763.5	3,699.9	63.62	59.154	
6,850.0	6,732.6	11,613.7	6,907.5	23.2	92.0	-43.14	-2,834.3	1,310.6	3,740.5	3,675.1	65.42	57.174	
6,889.7	6,765.7	11,613.7	6,907.5	23.2	92.0	-44.38	-2,834.3	1,310.6	3,721.0	3,654.0	67.04	55.504	
6,900.0	6,774.0	11,613.7	6,907.5	23.2	92.0	-44.72	-2,834.3	1,310.6	3,715.9	3,648.4	67.48	55.065	
6,950.0	6,813.3	11,613.7	6,907.5	23.2	92.0	-46.49	-2,834.3	1,310.6	3,689.5	3,619.7	69.80	52.859	
6,988.2	6,841.9	11,613.7	6,907.5	23.2	92.0	-47.98	-2,834.3	1,310.6	3,668.4	3,596.7	71.75	51.126	
7,000.0	6,850.5	11,613.7	6,907.5	23.2	92.0	-48.47	-2,834.3	1,310.6	3,661.7	3,589.3	72.38	50.588	
7,050.0	6,885.2	11,613.7	6,907.5	23.2	92.0	-50.67	-2,834.3	1,310.6	3,632.4	3,557.2	75.23	48.284	
7,086.6	6,908.9	11,613.7	6,907.5	23.2	92.0	-52.43	-2,834.3	1,310.6	3,610.1	3,532.6	77.49	46.590	
7,100.0	6,917.3	11,613.7	6,907.5	23.2	92.0	-53.11	-2,834.3	1,310.6	3,601.8	3,523.4	78.33	45.981	
7,150.0	6,946.6	11,613.7	6,907.5	23.2	92.0	-55.79	-2,834.3	1,310.6	3,569.9	3,488.3	81.66	43.715	
7,185.0	6,965.5	11,613.7	6,907.5	23.3	92.0	-57.83	-2,834.3	1,310.6	3,547.0	3,462.9	84.10	42.176	
7,200.0	6,973.1	11,613.7	6,907.5	23.3	92.0	-58.74	-2,834.3	1,310.6	3,537.0	3,451.8	85.18	41.523	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	11,613.7	6,907.5	23.3	92.0	-61.94	-2,834.3	1,310.6	3,503.1	3,414.3	88.82	39.441	
7,283.4	7,010.4	11,613.7	6,907.5	23.4	92.0	-64.22	-2,834.3	1,310.6	3,480.0	3,388.7	91.28	38.126	
7,300.0	7,016.8	11,613.7	6,907.5	23.4	92.0	-65.39	-2,834.3	1,310.6	3,468.4	3,376.0	92.48	37.504	
7,350.0	7,033.8	11,613.7	6,907.5	23.5	92.0	-69.08	-2,834.3	1,310.6	3,433.1	3,337.0	96.05	35.741	
7,381.9	7,043.0	11,613.7	6,907.5	23.6	92.0	-71.55	-2,834.3	1,310.6	3,410.3	3,312.0	98.23	34.717	
7,400.0	7,047.6	11,613.7	6,907.5	23.6	92.0	-72.98	-2,834.3	1,310.6	3,397.2	3,297.8	99.41	34.174	
7,450.0	7,057.9	11,613.7	6,907.5	23.8	92.0	-77.04	-2,834.3	1,310.6	3,361.0	3,258.6	102.41	32.818	
7,480.3	7,062.5	11,613.7	6,907.5	23.9	92.0	-79.56	-2,834.3	1,310.6	3,338.9	3,234.9	104.01	32.101	
7,500.0	7,064.8	11,613.7	6,907.5	24.0	92.0	-81.22	-2,834.3	1,310.6	3,324.5	3,219.6	104.94	31.679	
7,550.0	7,068.3	11,613.7	6,907.5	24.2	92.0	-85.44	-2,834.3	1,310.6	3,288.1	3,181.2	106.92	30.753	
7,578.7	7,068.7	11,613.7	6,907.5	24.4	92.0	-87.87	-2,834.3	1,310.6	3,267.2	3,159.5	107.78	30.314	
7,578.9	7,068.7	11,613.7	6,907.5	24.4	92.0	-87.88	-2,834.3	1,310.6	3,267.1	3,159.4	107.79	30.312	
7,600.0	7,068.6	11,613.7	6,907.5	24.5	92.0	-87.88	-2,834.3	1,310.6	3,251.9	3,143.9	107.99	30.112	
7,677.1	7,068.1	11,613.7	6,907.5	25.1	92.0	-87.88	-2,834.3	1,310.6	3,196.6	3,087.9	108.73	29.399	
7,700.0	7,067.9	11,613.7	6,907.5	25.2	92.0	-87.88	-2,834.3	1,310.6	3,180.4	3,071.5	108.95	29.192	
7,775.6	7,067.4	11,613.7	6,907.5	25.9	92.0	-87.88	-2,834.3	1,310.6	3,127.5	3,017.7	109.76	28.493	
7,800.0	7,067.3	11,613.7	6,907.5	26.1	92.0	-87.88	-2,834.3	1,310.6	3,110.6	3,000.5	110.03	28.271	
7,874.0	7,066.8	11,613.7	6,907.5	26.8	92.0	-87.88	-2,834.3	1,310.6	3,059.9	2,949.0	110.97	27.575	
7,900.0	7,066.7	11,613.7	6,907.5	27.0	92.0	-87.88	-2,834.3	1,310.6	3,042.4	2,931.1	111.30	27.335	
7,972.4	7,066.2	11,613.7	6,907.5	27.8	92.0	-87.88	-2,834.3	1,310.6	2,994.1	2,881.8	112.29	26.665	
8,000.0	7,066.0	11,613.7	6,907.5	28.1	92.0	-87.88	-2,834.3	1,310.6	2,976.0	2,863.3	112.66	26.416	
8,070.8	7,065.6	11,613.7	6,907.5	28.9	92.0	-87.88	-2,834.3	1,310.6	2,930.1	2,816.4	113.68	25.776	
8,100.0	7,065.4	11,613.7	6,907.5	29.3	92.0	-87.88	-2,834.3	1,310.6	2,911.5	2,797.4	114.09	25.519	
8,169.3	7,065.0	11,613.7	6,907.5	30.2	92.0	-87.88	-2,834.3	1,310.6	2,868.1	2,752.9	115.13	24.912	
8,200.0	7,064.8	11,613.7	6,907.5	30.6	92.0	-87.88	-2,834.3	1,310.6	2,849.1	2,733.5	115.59	24.649	
8,267.7	7,064.4	11,613.7	6,907.5	31.5	92.0	-87.88	-2,834.3	1,310.6	2,808.1	2,691.5	116.63	24.076	
8,300.0	7,064.2	11,613.7	6,907.5	31.9	92.0	-87.88	-2,834.3	1,310.6	2,788.9	2,671.8	117.13	23.810	
8,366.1	7,063.7	11,613.7	6,907.5	32.8	92.0	-87.88	-2,834.3	1,310.6	2,750.4	2,632.2	118.18	23.272	
8,400.0	7,063.5	11,613.7	6,907.5	33.3	92.0	-87.88	-2,834.3	1,310.6	2,731.0	2,612.3	118.72	23.004	
8,464.5	7,063.1	11,613.7	6,907.5	34.2	92.0	-87.88	-2,834.3	1,310.6	2,695.0	2,575.2	119.77	22.501	
8,500.0	7,062.9	11,613.7	6,907.5	34.8	92.0	-87.88	-2,834.3	1,310.6	2,675.6	2,555.3	120.35	22.233	
8,563.0	7,062.5	11,613.7	6,907.5	35.7	92.0	-87.88	-2,834.3	1,310.6	2,642.1	2,520.7	121.39	21.765	
8,600.0	7,062.3	11,613.7	6,907.5	36.3	92.0	-87.88	-2,834.3	1,310.6	2,622.9	2,500.9	122.00	21.498	
8,661.4	7,061.9	11,613.7	6,907.5	37.2	92.0	-87.88	-2,834.3	1,310.6	2,591.9	2,468.8	123.04	21.066	
8,700.0	7,061.6	11,613.7	6,907.5	37.8	92.0	-87.88	-2,834.3	1,310.6	2,572.9	2,449.2	123.69	20.802	
8,759.8	7,061.3	11,613.7	6,907.5	38.8	92.0	-87.88	-2,834.3	1,310.6	2,544.5	2,419.7	124.71	20.404	
8,800.0	7,061.0	11,613.7	6,907.5	39.4	92.0	-87.88	-2,834.3	1,310.6	2,525.9	2,400.6	125.39	20.144	
8,858.2	7,060.6	11,613.7	6,907.5	40.3	92.0	-87.88	-2,834.3	1,310.6	2,500.0	2,373.6	126.40	19.779	
8,900.0	7,060.4	11,613.7	6,907.5	41.0	92.0	-87.88	-2,834.3	1,310.6	2,482.1	2,355.0	127.12	19.526	
8,956.7	7,060.0	11,613.7	6,907.5	41.9	92.0	-87.88	-2,834.3	1,310.6	2,458.7	2,330.6	128.11	19.193	
9,000.0	7,059.8	11,613.7	6,907.5	42.6	92.0	-87.88	-2,834.3	1,310.6	2,441.6	2,312.7	128.86	18.947	
9,055.1	7,059.4	11,613.7	6,907.5	43.6	92.0	-87.88	-2,834.3	1,310.6	2,420.7	2,290.9	129.83	18.645	
9,100.0	7,059.1	11,613.7	6,907.5	44.3	92.0	-87.88	-2,834.3	1,310.6	2,404.6	2,273.9	130.62	18.409	
9,153.5	7,058.8	11,613.7	6,907.5	45.2	92.0	-87.88	-2,834.3	1,310.6	2,386.2	2,254.6	131.57	18.136	
9,200.0	7,058.5	11,613.7	6,907.5	46.0	92.0	-87.88	-2,834.3	1,310.6	2,371.2	2,238.8	132.39	17.910	
9,251.9	7,058.2	11,613.7	6,907.5	46.9	92.0	-87.88	-2,834.3	1,310.6	2,355.3	2,222.0	133.32	17.666	
9,300.0	7,057.9	11,613.7	6,907.5	47.7	92.0	-87.88	-2,834.3	1,310.6	2,341.6	2,207.4	134.18	17.451	
9,350.4	7,057.6	11,613.7	6,907.5	48.6	92.0	-87.88	-2,834.3	1,310.6	2,328.1	2,193.0	135.08	17.235	
9,400.0	7,057.2	11,613.7	6,907.5	49.4	92.0	-87.88	-2,834.3	1,310.6	2,315.9	2,179.9	135.97	17.032	
9,448.8	7,056.9	11,613.7	6,907.5	50.3	92.0	-87.88	-2,834.3	1,310.6	2,304.8	2,168.0	136.85	16.842	
9,500.0	7,056.6	11,613.7	6,907.5	51.1	92.0	-87.88	-2,834.3	1,310.6	2,294.3	2,156.5	137.78	16.652	
9,547.2	7,056.3	11,613.7	6,907.5	52.0	92.0	-87.88	-2,834.3	1,310.6	2,285.6	2,146.9	138.63	16.486	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.0	11,613.7	6,907.5	52.9	92.0	-87.88	-2,834.3	1,310.6	2,276.9	2,137.3	139.59	16.311	
9,645.6	7,055.7	11,613.7	6,907.5	53.7	92.0	-87.88	-2,834.3	1,310.6	2,270.4	2,130.0	140.42	16.168	
9,700.0	7,055.4	11,613.7	6,907.5	54.6	92.0	-87.88	-2,834.3	1,310.6	2,263.8	2,122.4	141.41	16.009	
9,744.1	7,055.1	11,613.7	6,907.5	55.4	92.0	-87.88	-2,834.3	1,310.6	2,259.4	2,117.2	142.22	15.887	
9,800.0	7,054.7	11,613.7	6,907.5	56.4	92.0	-87.88	-2,834.3	1,310.6	2,255.1	2,111.8	143.24	15.744	
9,842.5	7,054.5	11,613.7	6,907.5	57.2	92.0	-87.88	-2,834.3	1,310.6	2,252.7	2,108.7	144.02	15.642	
9,900.0	7,054.1	11,613.7	6,907.5	58.2	92.0	-87.88	-2,834.3	1,310.6	2,250.7	2,105.7	145.07	15.515	
9,940.9	7,053.8	11,613.7	6,907.5	58.9	92.0	-87.88	-2,834.3	1,310.6	2,250.2	2,104.4	145.82	15.431	
9,947.5	7,053.8	11,613.7	6,907.5	59.0	92.0	-87.88	-2,834.3	1,310.6	2,250.2	2,104.3	145.94	15.418 CC, ES	
10,000.0	7,053.5	11,568.7	6,907.8	60.0	91.2	-87.89	-2,879.3	1,310.6	2,250.4	2,104.3	146.07	15.407	
10,039.3	7,053.2	11,529.4	6,908.1	60.7	90.5	-87.91	-2,918.6	1,310.6	2,250.5	2,104.5	146.05	15.409	
10,100.0	7,052.8	11,468.7	6,908.5	61.8	89.4	-87.93	-2,979.2	1,310.7	2,250.7	2,104.7	146.04	15.412	
10,137.8	7,052.6	11,431.0	6,908.7	62.4	88.7	-87.94	-3,017.0	1,310.7	2,250.9	2,104.8	146.03	15.414	
10,200.0	7,052.2	11,368.7	6,909.1	63.6	87.6	-87.96	-3,079.2	1,310.7	2,251.1	2,105.1	146.01	15.417	
10,236.2	7,052.0	11,332.5	6,909.4	64.2	86.9	-87.97	-3,115.4	1,310.7	2,251.2	2,105.2	146.01	15.418	
10,300.0	7,051.6	11,268.7	6,909.8	65.4	85.8	-87.99	-3,179.2	1,310.7	2,251.4	2,105.4	146.00	15.421	
10,334.6	7,051.4	11,234.1	6,910.0	66.0	85.2	-88.00	-3,213.8	1,310.7	2,251.5	2,105.5	145.99	15.422	
10,400.0	7,051.0	11,168.8	6,910.5	67.2	84.0	-88.03	-3,279.2	1,310.7	2,251.7	2,105.8	145.99	15.424	
10,433.0	7,050.7	11,135.7	6,910.7	67.8	83.4	-88.04	-3,312.3	1,310.7	2,251.8	2,105.9	145.98	15.425	
10,500.0	7,050.3	11,068.8	6,911.1	69.0	82.2	-88.06	-3,379.2	1,310.7	2,252.1	2,106.1	145.98	15.427	
10,531.5	7,050.1	11,037.3	6,911.3	69.6	81.6	-88.07	-3,410.7	1,310.7	2,252.2	2,106.2	145.98	15.428	
10,600.0	7,049.7	10,968.8	6,911.8	70.8	80.4	-88.09	-3,479.2	1,310.7	2,252.4	2,106.4	145.98	15.429	
10,629.9	7,049.5	10,938.9	6,912.0	71.4	79.9	-88.10	-3,509.1	1,310.7	2,252.5	2,106.5	145.98	15.430	
10,700.0	7,049.1	10,868.8	6,912.5	72.7	78.6	-88.13	-3,579.2	1,310.7	2,252.8	2,106.8	145.99	15.431	
10,728.3	7,048.9	10,840.5	6,912.7	73.2	78.1	-88.14	-3,607.5	1,310.7	2,252.8	2,106.9	145.99	15.431	
10,800.0	7,048.4	10,768.8	6,913.1	74.5	76.8	-88.16	-3,679.2	1,310.7	2,253.1	2,107.1	146.00	15.432	
10,826.7	7,048.3	10,742.0	6,913.3	75.0	76.3	-88.17	-3,705.9	1,310.7	2,253.2	2,107.2	146.00	15.432	
10,900.0	7,047.8	10,668.8	6,913.8	76.3	75.1	-88.19	-3,779.2	1,310.7	2,253.4	2,107.4	146.02	15.433	
10,925.2	7,047.7	10,643.6	6,914.0	76.8	74.6	-88.20	-3,804.3	1,310.7	2,253.5	2,107.5	146.02	15.433	
11,000.0	7,047.2	10,568.8	6,914.5	78.2	73.3	-88.23	-3,879.1	1,310.8	2,253.8	2,107.7	146.04	15.433	
11,023.6	7,047.0	10,545.2	6,914.6	78.6	72.9	-88.23	-3,902.7	1,310.8	2,253.9	2,107.8	146.04	15.433	
11,100.0	7,046.6	10,468.8	6,915.1	80.0	71.5	-88.26	-3,979.1	1,310.8	2,254.1	2,108.0	146.07	15.432	
11,122.0	7,046.4	10,446.8	6,915.3	80.4	71.1	-88.27	-4,001.2	1,310.8	2,254.2	2,108.1	146.07	15.432	
11,200.0	7,045.9	10,368.8	6,915.8	81.9	69.8	-88.29	-4,079.1	1,310.8	2,254.5	2,108.4	146.10	15.431	
11,220.4	7,045.8	10,348.4	6,915.9	82.3	69.4	-88.30	-4,099.6	1,310.8	2,254.5	2,108.4	146.11	15.431	
11,300.0	7,045.3	10,268.8	6,916.5	83.7	68.0	-88.33	-4,179.1	1,310.8	2,254.8	2,108.7	146.14	15.429	
11,318.9	7,045.2	10,250.0	6,916.6	84.1	67.7	-88.33	-4,198.0	1,310.8	2,254.9	2,108.7	146.15	15.429	
11,400.0	7,044.7	10,168.8	6,917.1	85.6	66.3	-88.36	-4,279.1	1,310.8	2,255.1	2,109.0	146.18	15.427	
11,417.3	7,044.6	10,151.5	6,917.3	85.9	66.0	-88.36	-4,296.4	1,310.8	2,255.2	2,109.0	146.19	15.426	
11,500.0	7,044.0	10,068.9	6,917.8	87.5	64.6	-88.39	-4,379.1	1,310.8	2,255.5	2,109.2	146.24	15.424	
11,515.7	7,043.9	10,053.1	6,917.9	87.7	64.3	-88.40	-4,394.8	1,310.8	2,255.5	2,109.3	146.25	15.423	
11,600.0	7,043.4	9,968.9	6,918.5	89.3	62.9	-88.43	-4,479.1	1,310.8	2,255.8	2,109.5	146.30	15.420	
11,614.1	7,043.3	9,954.7	6,918.6	89.6	62.7	-88.43	-4,493.2	1,310.8	2,255.9	2,109.6	146.30	15.419	
11,700.0	7,042.8	9,868.9	6,919.1	91.2	61.2	-88.46	-4,579.1	1,310.8	2,256.2	2,109.8	146.36	15.415	
11,712.6	7,042.7	9,856.3	6,919.2	91.4	61.0	-88.46	-4,591.6	1,310.8	2,256.2	2,109.9	146.37	15.414	
11,800.0	7,042.2	9,768.9	6,919.8	93.0	59.5	-88.49	-4,679.1	1,310.8	2,256.5	2,110.1	146.44	15.410	
11,811.0	7,042.1	9,757.9	6,919.9	93.2	59.4	-88.50	-4,690.1	1,310.8	2,256.6	2,110.1	146.44	15.409	
11,900.0	7,041.5	9,668.9	6,920.5	94.9	57.9	-88.52	-4,779.0	1,310.9	2,256.9	2,110.4	146.52	15.403	
11,909.4	7,041.5	9,659.5	6,920.5	95.1	57.7	-88.53	-4,788.5	1,310.9	2,256.9	2,110.4	146.53	15.403	
12,000.0	7,040.9	9,568.9	6,921.1	96.8	56.2	-88.56	-4,879.0	1,310.9	2,257.2	2,110.6	146.61	15.396	
12,007.8	7,040.8	9,561.0	6,921.2	96.9	56.1	-88.56	-4,886.9	1,310.9	2,257.3	2,110.6	146.62	15.395	
12,100.0	7,040.3	9,468.9	6,921.8	98.7	54.6	-88.59	-4,979.0	1,310.9	2,257.6	2,110.9	146.71	15.388	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,040.2	9,462.6	6,921.8	98.8	54.5	-88.59	-4,985.3	1,310.9	2,257.6	2,110.9	146.72	15.387	
12,200.0	7,039.6	9,368.9	6,922.5	100.5	53.0	-88.62	-5,079.0	1,310.9	2,257.9	2,111.1	146.82	15.378	
12,204.7	7,039.6	9,364.2	6,922.5	100.6	52.9	-88.63	-5,083.7	1,310.9	2,257.9	2,111.1	146.83	15.378	
12,300.0	7,039.0	9,268.9	6,923.1	102.4	51.5	-88.66	-5,179.0	1,310.9	2,258.3	2,111.3	146.95	15.368	
12,303.1	7,039.0	9,265.8	6,923.1	102.5	51.4	-88.66	-5,182.1	1,310.9	2,258.3	2,111.3	146.95	15.368	
12,400.0	7,038.4	9,168.9	6,923.8	104.3	49.9	-88.69	-5,279.0	1,310.9	2,258.6	2,111.5	147.08	15.356	
12,401.5	7,038.4	9,167.4	6,923.8	104.3	49.9	-88.69	-5,280.5	1,310.9	2,258.6	2,111.5	147.09	15.356	
12,500.0	7,037.8	9,068.9	6,924.5	106.2	48.4	-88.72	-5,379.0	1,310.9	2,259.0	2,111.7	147.24	15.343	
12,598.4	7,037.1	8,970.5	6,925.1	108.0	46.9	-88.76	-5,477.4	1,310.9	2,259.3	2,111.9	147.40	15.328	
12,600.0	7,037.1	8,968.9	6,925.1	108.0	46.9	-88.76	-5,479.0	1,310.9	2,259.3	2,111.9	147.40	15.327	
12,696.8	7,036.5	8,872.1	6,925.8	109.9	45.5	-88.79	-5,575.8	1,310.9	2,259.7	2,112.1	147.58	15.311	
12,700.0	7,036.5	8,869.0	6,925.8	109.9	45.5	-88.79	-5,579.0	1,310.9	2,259.7	2,112.1	147.59	15.311	
12,795.2	7,035.9	8,773.7	6,926.4	111.7	44.1	-88.82	-5,674.2	1,311.0	2,260.0	2,112.2	147.79	15.292	
12,800.0	7,035.9	8,769.0	6,926.5	111.8	44.1	-88.82	-5,678.9	1,311.0	2,260.0	2,112.2	147.80	15.291	
12,893.7	7,035.3	8,675.3	6,927.1	113.6	42.8	-88.85	-5,772.6	1,311.0	2,260.4	2,112.4	148.01	15.271	
12,900.0	7,035.2	8,669.0	6,927.1	113.7	42.7	-88.85	-5,778.9	1,311.0	2,260.4	2,112.4	148.03	15.270	
12,992.1	7,034.7	8,576.9	6,927.7	115.4	41.5	-88.89	-5,871.0	1,311.0	2,260.7	2,112.5	148.27	15.248	
13,000.0	7,034.6	8,569.0	6,927.8	115.6	41.4	-88.89	-5,878.9	1,311.0	2,260.8	2,112.5	148.29	15.246	
13,090.5	7,034.0	8,478.5	6,928.4	117.3	40.3	-88.92	-5,969.4	1,311.0	2,261.1	2,112.5	148.55	15.221	
13,100.0	7,034.0	8,469.0	6,928.4	117.5	40.2	-88.92	-5,978.9	1,311.0	2,261.1	2,112.5	148.58	15.219	
13,188.9	7,033.4	8,380.1	6,929.0	119.1	39.1	-88.95	-6,067.8	1,311.0	2,261.4	2,112.6	148.86	15.191	
13,200.0	7,033.4	8,369.0	6,929.1	119.3	39.0	-88.95	-6,078.9	1,311.0	2,261.5	2,112.6	148.90	15.188	
13,287.4	7,032.8	8,281.6	6,929.7	121.0	38.0	-88.98	-6,166.3	1,311.0	2,261.8	2,112.6	149.22	15.158	
13,300.0	7,032.7	8,269.0	6,929.8	121.2	37.9	-88.99	-6,178.9	1,311.0	2,261.8	2,112.6	149.27	15.153	
13,385.8	7,032.2	8,183.2	6,930.3	122.9	37.0	-89.01	-6,264.7	1,311.0	2,262.1	2,112.5	149.62	15.119	
13,400.0	7,032.1	8,169.0	6,930.4	123.1	36.9	-89.02	-6,278.9	1,311.0	2,262.2	2,112.5	149.68	15.113	
13,484.2	7,031.6	8,084.8	6,931.0	124.7	36.1	-89.05	-6,363.1	1,311.0	2,262.5	2,112.4	150.07	15.076	
13,500.0	7,031.5	8,069.0	6,931.1	125.0	35.9	-89.05	-6,378.9	1,311.0	2,262.6	2,112.4	150.16	15.068	
13,582.6	7,030.9	7,986.4	6,931.7	126.6	35.2	-89.08	-6,461.5	1,311.0	2,262.9	2,112.3	150.59	15.026	
13,600.0	7,030.8	7,969.0	6,931.8	126.9	35.1	-89.09	-6,478.9	1,311.0	2,262.9	2,112.2	150.69	15.017	
13,681.1	7,030.3	7,888.0	6,932.3	128.4	34.5	-89.11	-6,559.9	1,311.1	2,263.2	2,112.0	151.18	14.970	
13,700.0	7,030.2	7,869.0	6,932.4	128.8	34.4	-89.12	-6,578.8	1,311.1	2,263.3	2,112.0	151.31	14.958	
13,779.5	7,029.7	7,789.6	6,933.0	130.3	33.9	-89.14	-6,658.3	1,311.1	2,263.6	2,111.7	151.86	14.906	
13,800.0	7,029.6	7,769.1	6,933.1	130.7	33.7	-89.15	-6,678.8	1,311.1	2,263.6	2,111.6	152.02	14.890	
13,877.9	7,029.1	7,691.1	6,933.6	132.2	33.3	-89.18	-6,756.7	1,311.1	2,263.9	2,111.3	152.64	14.831	
13,900.0	7,029.0	7,669.1	6,933.8	132.6	33.2	-89.18	-6,778.8	1,311.1	2,264.0	2,111.2	152.84	14.813	
13,976.3	7,028.5	7,592.7	6,934.3	134.0	32.9	-89.21	-6,855.2	1,311.1	2,264.3	2,110.8	153.54	14.747	
14,000.0	7,028.3	7,569.3	6,934.4	134.5	32.8	-89.22	-6,878.6	1,311.1	2,264.4	2,110.6	153.78	14.725	
14,074.8	7,027.9	7,497.8	6,930.8	135.9	32.6	-89.14	-6,949.9	1,311.1	2,264.7	2,110.1	154.57	14.651	
14,100.0	7,027.7	7,474.0	6,928.0	136.4	32.5	-89.07	-6,973.6	1,311.1	2,264.9	2,110.0	154.86	14.625	
14,173.2	7,027.2	7,406.0	6,915.7	137.8	32.3	-88.77	-7,040.5	1,311.1	2,265.4	2,109.7	155.71	14.549	
14,200.0	7,027.1	7,381.7	6,909.8	138.3	32.3	-88.62	-7,064.0	1,311.1	2,265.6	2,109.6	156.04	14.519	
14,210.5	7,027.0	7,372.3	6,907.3	138.5	32.3	-88.56	-7,073.0	1,311.1	2,265.7	2,109.6	156.17	14.508 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 106-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	170.22	-5,114.8	881.3	5,190.2				
98.4	98.4	133.5	133.5	0.1	0.1	170.21	-5,114.0	882.2	5,189.7	5,189.5	0.21	N/A	
100.0	100.0	135.4	135.4	0.1	0.1	170.21	-5,114.0	882.2	5,189.7	5,189.5	0.21	N/A	
196.8	196.8	225.2	225.2	0.3	0.3	170.20	-5,112.9	882.9	5,188.8	5,188.2	0.61	8,448.226	
200.0	200.0	227.3	227.2	0.3	0.3	170.20	-5,112.9	882.9	5,188.8	5,188.1	0.63	8,295.242	
295.3	295.3	285.0	285.0	0.5	0.4	170.20	-5,112.6	883.4	5,188.3	5,187.4	0.96	5,417.682	
297.5	297.5	285.0	285.0	0.5	0.4	170.20	-5,112.6	883.4	5,188.3	5,187.4	0.96	5,389.782	
300.0	300.0	285.0	285.0	0.5	0.4	170.20	-5,112.6	883.4	5,188.3	5,187.4	0.97	5,358.261	
393.7	393.7	343.0	343.0	0.8	0.5	170.19	-5,112.6	884.1	5,188.6	5,187.3	1.30	3,988.750	
400.0	400.0	346.5	346.4	0.8	0.6	170.19	-5,112.6	884.2	5,188.7	5,187.4	1.32	3,924.188	
492.1	492.1	390.0	390.0	1.0	0.6	170.18	-5,113.0	885.1	5,189.8	5,188.2	1.62	3,202.061	
500.0	500.0	390.0	390.0	1.0	0.6	170.18	-5,113.0	885.1	5,189.9	5,188.3	1.64	3,167.556	
590.5	590.5	454.1	454.0	1.2	0.8	170.16	-5,113.9	886.9	5,191.7	5,189.7	1.98	2,616.147	
600.0	600.0	459.5	459.5	1.2	0.8	170.16	-5,114.0	887.1	5,192.0	5,189.9	2.02	2,573.024	
689.0	689.0	517.0	516.9	1.4	0.9	170.14	-5,115.3	889.5	5,194.5	5,192.1	2.35	2,214.679	
700.0	700.0	517.0	516.9	1.4	0.9	170.14	-5,115.3	889.5	5,194.8	5,192.5	2.37	2,191.673	
787.4	787.4	562.0	561.8	1.6	1.0	170.11	-5,116.6	891.6	5,198.1	5,195.4	2.67	1,945.685	
800.0	800.0	568.5	568.3	1.7	1.1	170.11	-5,116.8	892.0	5,198.6	5,195.9	2.72	1,914.739	
885.8	885.8	612.5	612.2	1.9	1.2	170.09	-5,118.5	894.3	5,202.6	5,199.5	3.01	1,727.205	
900.0	900.0	619.8	619.5	1.9	1.2	170.09	-5,118.8	894.7	5,203.3	5,200.2	3.06	1,699.665	
984.2	984.2	669.2	668.7	2.1	1.3	170.06	-5,121.0	897.6	5,207.9	5,204.6	3.37	1,545.154	
1,000.0	1,000.0	682.3	681.7	2.1	1.3	170.05	-5,121.7	898.4	5,208.9	5,205.4	3.44	1,514.971	
1,082.7	1,082.7	728.0	727.3	2.3	1.4	170.02	-5,123.9	901.4	5,213.9	5,210.1	3.74	1,394.988	
1,100.0	1,100.0	754.8	754.0	2.3	1.5	170.01	-5,125.3	903.2	5,214.9	5,211.1	3.85	1,355.920	
1,181.1	1,181.1	803.0	802.0	2.5	1.6	-115.76	-5,127.9	906.8	5,220.9	5,216.7	4.14	1,261.999	
1,200.0	1,200.0	814.2	813.1	2.6	1.7	-115.74	-5,128.6	907.7	5,222.5	5,218.3	4.21	1,241.699	
1,279.5	1,279.4	856.0	854.7	2.7	1.8	-115.66	-5,131.1	911.3	5,230.1	5,225.6	4.48	1,167.522	
1,300.0	1,299.8	856.0	854.7	2.8	1.8	-115.62	-5,131.1	911.3	5,232.3	5,227.8	4.52	1,156.711	
1,377.9	1,377.5	920.9	919.2	2.9	2.0	-115.56	-5,135.3	917.6	5,241.5	5,236.6	4.87	1,075.601	
1,400.0	1,399.5	934.2	932.4	3.0	2.0	-115.54	-5,136.2	919.1	5,244.4	5,239.4	4.96	1,057.754	
1,476.4	1,475.3	985.0	982.7	3.2	2.2	-115.46	-5,139.7	924.8	5,255.1	5,249.8	5.28	995.533	
1,500.0	1,498.7	985.0	982.7	3.2	2.2	-115.39	-5,139.7	924.8	5,258.7	5,253.4	5.34	985.561	
1,574.8	1,572.6	985.0	982.7	3.4	2.2	-115.16	-5,139.7	924.8	5,271.3	5,265.8	5.54	952.233	
1,600.0	1,597.5	1,027.1	1,024.4	3.5	2.3	-115.20	-5,143.0	930.1	5,275.6	5,269.8	5.73	920.980	
1,673.2	1,669.4	1,053.5	1,050.5	3.7	2.4	-115.02	-5,145.3	933.6	5,289.6	5,283.5	6.03	877.653	
1,700.2	1,695.8	1,063.1	1,060.0	3.8	2.4	-114.95	-5,146.2	934.9	5,295.1	5,289.0	6.14	862.886	
1,771.6	1,765.7	1,113.0	1,109.0	4.1	2.6	-115.12	-5,151.1	942.1	5,310.4	5,303.9	6.52	814.564	
1,800.0	1,793.4	1,113.0	1,109.0	4.2	2.6	-115.12	-5,151.1	942.1	5,316.5	5,309.9	6.61	804.003	
1,870.1	1,862.0	1,113.0	1,109.0	4.4	2.6	-115.12	-5,151.1	942.1	5,332.2	5,325.3	6.86	777.707	
1,900.0	1,891.2	1,113.0	1,109.0	4.5	2.6	-115.12	-5,151.1	942.1	5,339.1	5,332.2	6.96	767.067	
1,968.5	1,958.3	1,165.0	1,160.1	4.8	2.8	-115.30	-5,156.8	950.2	5,355.1	5,347.7	7.38	725.734	
2,000.0	1,989.1	1,177.8	1,172.6	4.9	2.9	-115.35	-5,158.3	952.3	5,362.6	5,355.1	7.53	711.737	
2,066.9	2,054.5	1,204.8	1,199.1	5.2	3.0	-115.44	-5,161.6	956.7	5,379.0	5,371.2	7.87	683.287	
2,100.0	2,086.9	1,242.0	1,235.4	5.3	3.1	-115.58	-5,166.3	963.1	5,387.4	5,379.3	8.12	663.812	
2,165.3	2,150.8	1,242.0	1,235.4	5.6	3.1	-115.58	-5,166.3	963.1	5,404.0	5,395.7	8.37	645.991	
2,200.0	2,184.7	1,267.9	1,260.6	5.7	3.3	-115.67	-5,169.7	967.7	5,413.0	5,404.4	8.59	630.249	
2,263.8	2,247.1	1,308.2	1,299.9	6.0	3.4	-115.82	-5,175.0	975.3	5,429.8	5,420.8	8.98	604.796	
2,300.0	2,282.5	1,330.9	1,322.0	6.1	3.5	-115.91	-5,177.9	979.8	5,439.5	5,430.3	9.20	591.384	
2,362.2	2,343.3	1,370.0	1,359.8	6.4	3.7	-116.06	-5,183.1	987.9	5,456.2	5,446.7	9.58	569.629	
2,400.0	2,380.3	1,370.0	1,359.8	6.6	3.7	-116.06	-5,183.1	987.9	5,466.6	5,456.9	9.73	561.973	
2,460.6	2,439.6	1,370.0	1,359.8	6.8	3.7	-116.06	-5,183.1	987.9	5,483.8	5,473.9	9.97	550.056	
2,500.0	2,478.1	1,420.1	1,408.2	7.0	4.0	-116.26	-5,189.9	999.0	5,494.7	5,484.4	10.33	532.118	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	1,441.3	1,428.6	7.2	4.1	-116.35	-5,192.9	1,003.9	5,511.9	5,501.2	10.65	517.628	
2,600.0	2,575.9	1,455.9	1,442.7	7.4	4.2	-116.41	-5,195.1	1,007.4	5,524.0	5,513.1	10.87	508.136	
2,657.5	2,632.2	1,498.0	1,482.9	7.7	4.4	-116.59	-5,201.4	1,017.8	5,541.4	5,530.1	11.27	491.691	
2,700.0	2,673.8	1,498.0	1,482.9	7.8	4.4	-116.59	-5,201.4	1,017.8	5,554.3	5,542.9	11.44	485.410	
2,755.9	2,728.4	1,498.0	1,482.9	8.1	4.4	-116.59	-5,201.4	1,017.8	5,571.7	5,560.1	11.67	477.407	
2,800.0	2,771.6	1,498.0	1,482.9	8.3	4.4	-116.59	-5,201.4	1,017.8	5,585.9	5,574.0	11.85	471.342	
2,854.3	2,824.7	1,548.3	1,530.8	8.5	4.7	-116.80	-5,209.4	1,031.0	5,603.1	5,590.8	12.30	455.358	
2,900.0	2,869.4	1,565.1	1,546.7	8.7	4.8	-116.88	-5,212.2	1,035.5	5,618.1	5,605.5	12.57	446.968	
2,952.7	2,921.0	1,584.3	1,564.9	8.9	4.9	-116.96	-5,215.4	1,040.8	5,635.6	5,622.7	12.87	437.740	
3,000.0	2,967.2	1,627.0	1,605.2	9.2	5.2	-117.15	-5,222.7	1,053.0	5,651.6	5,638.4	13.26	426.196	
3,051.2	3,017.3	1,627.0	1,605.2	9.4	5.2	-117.15	-5,222.7	1,053.0	5,669.0	5,655.5	13.47	420.788	
3,100.0	3,065.0	1,646.7	1,623.7	9.6	5.3	-117.24	-5,226.1	1,058.8	5,685.9	5,672.2	13.77	412.894	
3,149.6	3,113.5	1,681.2	1,656.1	9.8	5.6	-117.40	-5,232.2	1,068.9	5,703.3	5,689.1	14.14	403.226	
3,200.0	3,162.8	1,716.1	1,688.9	10.0	5.8	-117.55	-5,238.4	1,079.1	5,721.0	5,706.5	14.52	393.967	
3,248.0	3,209.8	1,755.0	1,725.4	10.3	6.1	-117.73	-5,245.3	1,090.6	5,738.0	5,723.1	14.91	384.909	
3,300.0	3,260.6	1,755.0	1,725.4	10.5	6.1	-117.73	-5,245.3	1,090.6	5,756.7	5,741.5	15.12	380.646	
3,346.4	3,306.1	1,755.0	1,725.4	10.7	6.1	-117.73	-5,245.3	1,090.6	5,773.7	5,758.3	15.32	376.946	
3,400.0	3,358.4	1,802.2	1,769.6	10.9	6.4	-117.94	-5,254.0	1,104.7	5,793.2	5,777.4	15.78	367.137	
3,444.9	3,402.3	1,816.7	1,783.2	11.1	6.5	-118.00	-5,256.8	1,109.2	5,809.9	5,793.9	16.04	362.213	
3,500.0	3,456.3	1,834.5	1,799.8	11.4	6.6	-118.09	-5,260.2	1,114.7	5,830.8	5,814.4	16.36	356.418	
3,543.3	3,498.6	1,884.0	1,845.7	11.6	7.0	-118.31	-5,270.2	1,130.2	5,847.6	5,830.8	16.79	348.348	
3,600.0	3,554.1	1,884.0	1,845.7	11.8	7.0	-118.31	-5,270.2	1,130.2	5,869.4	5,852.4	17.02	344.784	
3,641.7	3,594.9	1,884.0	1,845.7	12.0	7.0	-118.31	-5,270.2	1,130.2	5,885.7	5,868.5	17.20	342.235	
3,700.0	3,651.9	1,939.1	1,896.6	12.3	7.4	-118.56	-5,281.4	1,147.9	5,908.8	5,891.1	17.72	333.529	
3,740.1	3,691.2	1,988.2	1,942.0	12.5	7.8	-118.78	-5,291.2	1,163.8	5,924.6	5,906.5	18.13	326.861	
3,800.0	3,749.7	2,012.0	1,964.0	12.7	7.9	-118.89	-5,295.9	1,171.6	5,948.3	5,929.8	18.49	321.662	
3,838.6	3,787.4	2,048.4	1,997.6	12.9	8.2	-119.06	-5,303.1	1,183.7	5,963.6	5,944.7	18.84	316.500	
3,900.0	3,847.5	2,076.6	2,023.6	13.2	8.4	-119.19	-5,308.7	1,193.1	5,988.2	5,969.0	19.24	311.178	
3,937.0	3,883.7	2,093.5	2,039.1	13.3	8.6	-119.27	-5,312.2	1,198.8	6,003.2	5,983.8	19.49	308.096	
4,000.0	3,945.3	2,140.0	2,081.8	13.6	8.9	-119.48	-5,321.7	1,214.6	6,029.1	6,009.1	19.98	301.689	
4,035.4	3,980.0	2,140.0	2,081.8	13.8	8.9	-119.48	-5,321.7	1,214.6	6,043.7	6,023.5	20.13	300.193	
4,100.0	4,043.1	2,140.0	2,081.8	14.1	8.9	-119.48	-5,321.7	1,214.6	6,070.7	6,050.3	20.40	297.545	
4,133.8	4,076.3	2,140.0	2,081.8	14.2	8.9	-119.48	-5,321.7	1,214.6	6,085.1	6,064.6	20.54	296.193	
4,200.0	4,141.0	2,189.5	2,127.0	14.5	9.3	-119.71	-5,332.3	1,231.5	6,113.2	6,092.1	21.08	289.960	
4,232.3	4,172.5	2,199.3	2,136.1	14.7	9.4	-119.75	-5,334.5	1,234.9	6,127.1	6,105.8	21.27	288.063	
4,300.0	4,238.8	2,220.0	2,154.9	15.0	9.6	-119.85	-5,339.2	1,241.9	6,156.6	6,134.9	21.66	284.214	
4,330.7	4,268.8	2,269.0	2,199.5	15.1	10.0	-120.06	-5,350.8	1,258.6	6,170.5	6,148.4	22.05	279.894	
4,400.0	4,336.6	2,269.0	2,199.5	15.4	10.0	-120.06	-5,350.8	1,258.6	6,201.0	6,178.7	22.34	277.631	
4,429.1	4,365.1	2,269.0	2,199.5	15.6	10.0	-120.06	-5,350.8	1,258.6	6,214.1	6,191.6	22.46	276.704	
4,500.0	4,434.4	2,269.0	2,199.5	15.9	10.0	-120.06	-5,350.8	1,258.6	6,246.2	6,223.5	22.75	274.510	
4,527.5	4,461.3	2,301.3	2,228.8	16.0	10.2	-120.21	-5,358.7	1,269.7	6,258.8	6,235.7	23.05	271.584	
4,600.0	4,532.2	2,336.0	2,260.1	16.4	10.5	-120.36	-5,367.1	1,282.1	6,292.1	6,268.6	23.54	267.344	
4,626.0	4,557.6	2,348.3	2,271.1	16.5	10.6	-120.42	-5,370.0	1,286.6	6,304.1	6,280.4	23.71	265.883	
4,700.0	4,630.0	2,397.0	2,314.7	16.8	11.1	-120.65	-5,381.7	1,304.9	6,338.7	6,314.4	24.28	261.085	
4,724.4	4,653.9	2,397.0	2,314.7	16.9	11.1	-120.65	-5,381.7	1,304.9	6,350.1	6,325.8	24.38	260.461	
4,800.0	4,727.8	2,397.0	2,314.7	17.3	11.1	-120.65	-5,381.7	1,304.9	6,386.0	6,361.3	24.70	258.580	
4,822.8	4,750.2	2,397.0	2,314.7	17.4	11.1	-120.65	-5,381.7	1,304.9	6,397.0	6,372.2	24.79	258.027	
4,900.0	4,825.6	2,447.7	2,359.8	17.7	11.6	-120.89	-5,393.9	1,324.6	6,434.1	6,408.6	25.42	253.152	
4,921.2	4,846.4	2,454.0	2,365.4	17.8	11.6	-120.92	-5,395.5	1,327.1	6,444.4	6,418.9	25.54	252.307	
5,000.0	4,923.5	2,477.1	2,385.8	18.2	11.8	-121.03	-5,401.3	1,336.2	6,483.0	6,457.0	26.01	249.277	
5,019.7	4,942.7	2,482.9	2,390.9	18.3	11.9	-121.05	-5,402.7	1,338.5	6,492.7	6,466.6	26.12	248.543	
5,100.0	5,021.3	2,526.0	2,428.8	18.6	12.3	-121.26	-5,413.8	1,355.8	6,532.8	6,506.1	26.71	244.587	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	2,526.0	2,428.8	18.7	12.3	-121.26	-5,413.8	1,355.8	6,541.9	6,515.1	26.79	244.234	
5,200.0	5,119.1	2,526.0	2,428.8	19.1	12.3	-121.26	-5,413.8	1,355.8	6,583.3	6,556.2	27.13	242.683	
5,216.5	5,135.3	2,526.0	2,428.8	19.2	12.3	-121.26	-5,413.8	1,355.8	6,591.8	6,564.6	27.20	242.377	
5,300.0	5,216.9	2,526.0	2,428.8	19.6	12.3	-121.26	-5,413.8	1,355.8	6,635.0	6,607.4	27.55	240.875	
5,314.9	5,231.5	2,526.0	2,428.8	19.6	12.3	-121.26	-5,413.8	1,355.8	6,642.8	6,615.2	27.61	240.613	
5,400.0	5,314.7	2,580.8	2,476.7	20.0	12.9	-121.52	-5,428.5	1,378.1	6,687.0	6,658.7	28.30	236.268	
5,413.4	5,327.8	2,583.9	2,479.4	20.1	12.9	-121.53	-5,429.4	1,379.4	6,694.0	6,665.6	28.38	235.891	
5,500.0	5,412.5	2,604.0	2,496.8	20.5	13.1	-121.62	-5,435.0	1,387.7	6,740.0	6,711.2	28.86	233.526	
5,511.8	5,424.1	2,606.7	2,499.1	20.5	13.2	-121.64	-5,435.7	1,388.9	6,746.3	6,717.4	28.93	233.213	
5,600.0	5,510.3	2,654.0	2,539.8	20.9	13.7	-121.86	-5,449.3	1,408.8	6,794.1	6,764.5	29.58	229.663	
5,610.2	5,520.3	2,654.0	2,539.8	21.0	13.7	-121.86	-5,449.3	1,408.8	6,799.6	6,770.0	29.63	229.519	
5,700.0	5,608.2	2,654.0	2,539.8	21.4	13.7	-121.86	-5,449.3	1,408.8	6,848.5	6,818.5	30.00	228.286	
5,708.6	5,616.6	2,654.0	2,539.8	21.4	13.7	-121.86	-5,449.3	1,408.8	6,853.3	6,823.3	30.04	228.170	
5,729.2	5,636.7	2,654.0	2,539.8	21.5	13.7	-121.86	-5,449.3	1,408.8	6,864.6	6,834.5	30.12	227.898	
5,800.0	5,706.1	2,654.0	2,539.8	21.8	13.7	-122.65	-5,449.3	1,408.8	6,903.7	6,873.5	30.20	228.605	
5,807.1	5,713.1	2,654.0	2,539.8	21.8	13.7	-122.73	-5,449.3	1,408.8	6,907.5	6,877.3	30.20	228.719	
5,900.0	5,804.7	2,715.1	2,591.8	22.1	14.3	-124.00	-5,467.2	1,435.3	6,957.7	6,927.1	30.61	227.289	
5,905.5	5,810.2	2,717.0	2,593.4	22.1	14.4	-124.06	-5,467.8	1,436.1	6,960.6	6,930.0	30.62	227.301	
6,000.0	5,903.9	2,782.0	2,648.2	22.3	15.1	-125.29	-5,487.0	1,465.4	7,011.0	6,980.0	31.01	226.057	
6,003.9	5,907.8	2,782.0	2,648.2	22.4	15.1	-125.33	-5,487.0	1,465.4	7,013.0	6,982.0	31.01	226.136	
6,100.0	6,003.4	2,782.0	2,648.2	22.6	15.1	-126.28	-5,487.0	1,465.4	7,062.9	7,031.9	30.97	228.045	
6,102.3	6,005.7	2,782.0	2,648.2	22.6	15.1	-126.30	-5,487.0	1,465.4	7,064.1	7,033.1	30.97	228.097	
6,200.0	6,103.2	2,839.5	2,696.2	22.7	15.8	-127.42	-5,503.9	1,492.2	7,113.7	7,082.4	31.27	227.478	
6,200.8	6,104.0	2,839.9	2,696.6	22.7	15.8	-127.43	-5,504.0	1,492.4	7,114.1	7,082.8	31.27	227.477	
6,299.2	6,202.3	2,911.0	2,755.5	22.9	16.6	-128.54	-5,524.6	1,526.4	7,162.8	7,131.2	31.63	226.480	
6,300.0	6,203.1	2,911.0	2,755.5	22.9	16.6	-128.55	-5,524.6	1,526.4	7,163.2	7,131.5	31.63	226.498	
6,329.4	6,232.5	2,911.0	2,755.5	22.9	16.6	157.03	-5,524.6	1,526.4	7,177.4	7,145.9	31.53	227.614	
6,397.6	6,300.8	2,974.8	2,808.1	23.0	17.4	156.83	-5,542.9	1,557.5	7,210.3	7,178.3	32.04	225.075	
6,400.0	6,303.1	2,977.1	2,810.0	23.0	17.4	156.83	-5,543.6	1,558.6	7,211.5	7,179.4	32.05	224.984	
6,449.4	6,352.5	3,025.1	2,849.5	23.1	18.0	156.68	-5,557.1	1,582.2	7,235.3	7,202.9	32.43	223.092	
6,496.0	6,399.2	4,260.2	3,920.9	23.1	30.2	-26.17	-5,843.9	2,118.6	7,254.5	7,214.9	39.62	183.088	
6,500.0	6,403.1	4,261.4	3,921.8	23.1	30.2	-26.14	-5,844.1	2,119.1	7,255.6	7,216.0	39.65	183.011	
6,550.0	6,452.8	4,275.4	3,934.3	23.1	30.3	-25.72	-5,846.1	2,125.3	7,268.2	7,228.4	39.81	182.583	
6,594.5	6,496.6	4,323.0	3,976.1	23.2	30.8	-25.57	-5,852.7	2,147.1	7,277.3	7,237.4	39.95	182.142	
6,600.0	6,502.0	4,323.0	3,976.1	23.2	30.8	-25.54	-5,852.7	2,147.1	7,278.3	7,238.3	39.93	182.295	
6,650.0	6,550.5	4,323.0	3,976.1	23.2	30.8	-25.31	-5,852.7	2,147.1	7,285.0	7,245.5	39.55	184.198	
6,692.9	6,591.4	4,323.0	3,976.1	23.2	30.8	-25.19	-5,852.7	2,147.1	7,288.6	7,249.5	39.06	186.613	
6,700.0	6,598.0	4,323.0	3,976.1	23.2	30.8	-25.17	-5,852.7	2,147.1	7,289.0	7,250.0	38.96	187.089	
6,750.0	6,644.4	4,323.0	3,976.1	23.2	30.8	-25.13	-5,852.7	2,147.1	7,290.1	7,252.0	38.17	191.002	
6,791.3	6,681.6	4,323.0	3,976.1	23.2	30.8	-25.17	-5,852.7	2,147.1	7,289.0	7,251.6	37.37	195.036	
6,800.0	6,689.3	4,323.0	3,976.1	23.2	30.8	-25.19	-5,852.7	2,147.1	7,288.5	7,251.3	37.19	195.986	
6,850.0	6,732.6	4,323.0	3,976.1	23.2	30.8	-25.34	-5,852.7	2,147.1	7,284.0	7,248.0	36.04	202.103	
6,889.7	6,765.7	4,369.6	4,016.6	23.2	31.3	-25.76	-5,859.4	2,169.3	7,278.0	7,242.7	35.28	206.308	
6,900.0	6,774.0	4,372.4	4,018.9	23.2	31.3	-25.83	-5,859.8	2,170.6	7,276.2	7,241.2	35.01	207.821	
6,950.0	6,813.3	4,385.5	4,030.3	23.2	31.5	-26.27	-5,861.8	2,176.9	7,265.9	7,232.3	33.66	215.893	
6,988.2	6,841.9	4,395.2	4,038.7	23.2	31.6	-26.68	-5,863.3	2,181.6	7,256.2	7,223.6	32.56	222.863	
7,000.0	6,850.5	4,398.2	4,041.2	23.2	31.6	-26.82	-5,863.7	2,183.0	7,252.8	7,220.6	32.21	225.191	
7,050.0	6,885.2	4,452.0	4,087.5	23.2	32.2	-27.74	-5,872.3	2,209.2	7,237.3	7,206.4	30.90	234.181	
7,086.6	6,908.9	4,452.0	4,087.5	23.2	32.2	-28.28	-5,872.3	2,209.2	7,223.9	7,194.1	29.78	242.564	
7,100.0	6,917.3	4,452.0	4,087.5	23.2	32.2	-28.50	-5,872.3	2,209.2	7,218.6	7,189.3	29.37	245.803	
7,150.0	6,946.6	4,452.0	4,087.5	23.2	32.2	-29.40	-5,872.3	2,209.2	7,197.5	7,169.5	27.92	257.762	
7,185.0	6,965.5	4,452.0	4,087.5	23.3	32.2	-30.13	-5,872.3	2,209.2	7,181.2	7,154.2	26.99	266.020	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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		
7,200.0	6,973.1	4,452.0	4,087.5	23.3	32.2	-30.47	-5,872.3	2,209.2	7,173.8	7,147.2	26.66	269.134		
7,250.0	6,996.5	4,452.0	4,087.5	23.3	32.2	-31.73	-5,872.3	2,209.2	7,147.9	7,122.2	25.66	278.561		
7,283.4	7,010.4	4,586.6	4,203.1	23.4	33.6	-33.76	-5,893.4	2,274.7	7,129.0	7,103.1	25.87	275.535		
7,300.0	7,016.8	4,593.9	4,209.4	23.4	33.7	-34.35	-5,894.4	2,278.3	7,119.3	7,093.5	25.77	276.215		
7,350.0	7,033.8	4,614.3	4,226.9	23.5	33.9	-36.34	-5,897.5	2,288.2	7,088.4	7,062.6	25.81	274.654		
7,381.9	7,043.0	4,625.9	4,236.9	23.6	34.0	-37.76	-5,899.2	2,293.9	7,067.7	7,041.6	26.11	270.677		
7,400.0	7,047.6	4,632.0	4,242.2	23.6	34.1	-38.63	-5,900.1	2,296.9	7,055.6	7,029.2	26.38	267.470		
7,450.0	7,057.9	4,647.0	4,255.1	23.8	34.3	-41.26	-5,902.3	2,304.2	7,020.9	6,993.4	27.48	255.463		
7,480.3	7,062.5	4,654.8	4,261.7	23.9	34.3	-43.04	-5,903.4	2,308.0	6,999.0	6,970.6	28.39	246.495		
7,500.0	7,064.8	4,659.3	4,265.6	24.0	34.4	-44.27	-5,904.0	2,310.3	6,984.5	6,955.4	29.07	240.285		
7,550.0	7,068.3	4,668.7	4,273.7	24.2	34.5	-47.74	-5,905.4	2,314.9	6,946.6	6,915.5	31.04	223.793		
7,578.7	7,068.7	4,672.9	4,277.3	24.4	34.5	-49.95	-5,906.0	2,316.9	6,924.2	6,891.9	32.30	214.352		
7,578.9	7,068.7	4,672.9	4,277.3	24.4	34.5	-49.96	-5,906.0	2,317.0	6,924.1	6,891.8	32.31	214.306		
7,600.0	7,068.6	4,675.6	4,279.6	24.5	34.6	-49.99	-5,906.4	2,318.3	6,907.4	6,874.9	32.49	212.598		
7,677.1	7,068.1	4,685.5	4,288.1	25.1	34.7	-50.12	-5,907.8	2,323.1	6,846.9	6,813.8	33.14	206.588		
7,700.0	7,067.9	4,688.4	4,290.6	25.2	34.7	-50.16	-5,908.3	2,324.6	6,829.0	6,795.7	33.34	204.854		
7,775.6	7,067.4	4,697.9	4,298.8	25.9	34.8	-50.29	-5,909.6	2,329.3	6,770.2	6,736.1	34.06	198.769		
7,800.0	7,067.3	4,701.0	4,301.4	26.1	34.8	-50.33	-5,910.1	2,330.8	6,751.2	6,716.9	34.29	196.858		
7,874.0	7,066.8	4,708.0	4,307.4	26.8	34.9	-50.42	-5,911.1	2,334.3	6,694.0	6,658.9	35.11	190.637		
7,900.0	7,066.7	4,708.0	4,307.4	27.0	34.9	-50.42	-5,911.1	2,334.3	6,673.9	6,638.6	35.38	188.646		
7,972.4	7,066.2	4,708.0	4,307.4	27.8	34.9	-50.42	-5,911.1	2,334.3	6,618.3	6,582.2	36.17	182.971		
8,000.0	7,066.0	4,708.0	4,307.4	28.1	34.9	-50.42	-5,911.1	2,334.3	6,597.3	6,560.8	36.47	180.879		
8,070.8	7,065.6	4,729.4	4,325.7	28.9	35.1	-50.70	-5,914.2	2,344.8	6,543.3	6,505.8	37.51	174.463		
8,100.0	7,065.4	4,732.4	4,328.3	29.3	35.2	-50.74	-5,914.6	2,346.3	6,521.2	6,483.3	37.87	172.182		
8,169.3	7,065.0	4,739.7	4,334.6	30.2	35.2	-50.84	-5,915.7	2,349.9	6,468.8	6,430.1	38.79	166.768		
8,200.0	7,064.8	4,742.9	4,337.4	30.6	35.3	-50.88	-5,916.2	2,351.5	6,445.7	6,406.5	39.20	164.448		
8,267.7	7,064.4	4,750.3	4,343.7	31.5	35.3	-50.98	-5,917.3	2,355.0	6,395.0	6,354.9	40.13	159.374		
8,300.0	7,064.2	4,753.8	4,346.7	31.9	35.4	-51.02	-5,917.8	2,356.8	6,370.9	6,330.4	40.57	157.036		
8,366.1	7,063.7	4,761.2	4,353.1	32.8	35.5	-51.12	-5,919.0	2,360.4	6,321.9	6,280.3	41.51	152.306		
8,400.0	7,063.5	4,765.1	4,356.4	33.3	35.5	-51.17	-5,919.6	2,362.2	6,296.8	6,254.8	41.99	149.966		
8,464.5	7,063.1	4,772.5	4,362.8	34.2	35.6	-51.27	-5,920.7	2,365.9	6,249.4	6,206.4	42.93	145.575		
8,500.0	7,062.9	4,776.7	4,366.4	34.8	35.6	-51.32	-5,921.4	2,367.9	6,223.4	6,180.0	43.45	143.245		
8,563.0	7,062.5	4,784.2	4,372.9	35.7	35.7	-51.42	-5,922.6	2,371.5	6,177.5	6,133.2	44.39	139.180		
8,600.0	7,062.3	4,788.7	4,376.8	36.3	35.8	-51.48	-5,923.3	2,373.7	6,150.7	6,105.8	44.94	136.870		
8,661.4	7,061.9	4,796.3	4,383.3	37.2	35.8	-51.58	-5,924.5	2,377.3	6,106.4	6,060.6	45.87	133.115		
8,700.0	7,061.6	4,801.2	4,387.5	37.8	35.9	-51.65	-5,925.3	2,379.7	6,078.8	6,032.3	46.46	130.832		
8,759.8	7,061.3	4,808.8	4,394.1	38.8	36.0	-51.75	-5,926.6	2,383.3	6,036.1	5,988.7	47.39	127.370		
8,800.0	7,061.0	4,814.1	4,398.6	39.4	36.0	-51.81	-5,927.4	2,385.8	6,007.6	5,959.6	48.01	125.119		
8,858.2	7,060.6	4,821.8	4,405.3	40.3	36.1	-51.92	-5,928.7	2,389.5	5,966.5	5,917.5	48.93	121.930		
8,900.0	7,060.4	4,837.0	4,418.5	41.0	36.3	-52.12	-5,931.3	2,396.7	5,937.2	5,887.5	49.70	119.454		
8,956.7	7,060.0	4,837.0	4,418.5	41.9	36.3	-52.12	-5,931.3	2,396.7	5,897.7	5,847.1	50.52	116.733		
9,000.0	7,059.8	4,847.6	4,427.6	42.6	36.4	-52.26	-5,933.1	2,401.8	5,867.6	5,816.3	51.27	114.444		
9,055.1	7,059.4	4,866.0	4,443.5	43.6	36.6	-52.50	-5,936.1	2,410.5	5,829.6	5,777.3	52.29	111.492		
9,100.0	7,059.1	4,880.0	4,455.6	44.3	36.7	-52.68	-5,938.3	2,417.2	5,798.9	5,745.8	53.11	109.189		
9,153.5	7,058.8	4,895.8	4,469.2	45.2	36.9	-52.89	-5,940.8	2,424.8	5,762.4	5,708.3	54.09	106.543		
9,200.0	7,058.5	4,908.7	4,480.3	46.0	37.0	-53.07	-5,942.7	2,431.1	5,730.9	5,676.0	54.93	104.339		
9,251.9	7,058.2	4,922.4	4,492.1	46.9	37.2	-53.25	-5,944.7	2,437.8	5,696.0	5,640.1	55.87	101.959		
9,300.0	7,057.9	4,934.4	4,502.4	47.7	37.3	-53.41	-5,946.5	2,443.6	5,663.9	5,607.2	56.73	99.843		
9,350.4	7,057.6	4,946.3	4,512.7	48.6	37.4	-53.57	-5,948.1	2,449.4	5,630.5	5,572.9	57.63	97.697		
9,400.0	7,057.2	4,957.4	4,522.2	49.4	37.5	-53.71	-5,949.6	2,454.9	5,597.8	5,539.3	58.52	95.661		
9,448.8	7,056.9	4,967.9	4,531.3	50.3	37.6	-53.86	-5,951.0	2,460.1	5,565.9	5,506.5	59.39	93.722		
9,500.0	7,056.6	4,979.0	4,540.8	51.1	37.7	-54.00	-5,952.5	2,465.6	5,532.7	5,472.4	60.30	91.752		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.3	4,989.1	4,549.4	52.0	37.9	-54.14	-5,953.8	2,470.6	5,502.2	5,441.1	61.15	89.984	
9,600.0	7,056.0	5,000.3	4,559.1	52.9	38.0	-54.29	-5,955.3	2,476.1	5,468.5	5,406.4	62.09	88.069	
9,645.6	7,055.7	5,009.9	4,567.3	53.7	38.1	-54.42	-5,956.6	2,480.8	5,439.6	5,376.7	62.92	86.457	
9,700.0	7,055.4	5,021.2	4,577.1	54.6	38.2	-54.57	-5,958.0	2,486.4	5,405.4	5,341.5	63.90	84.596	
9,744.1	7,055.1	5,030.3	4,585.0	55.4	38.3	-54.69	-5,959.2	2,490.9	5,378.0	5,313.3	64.70	83.128	
9,800.0	7,054.7	5,041.8	4,594.9	56.4	38.4	-54.85	-5,960.7	2,496.5	5,343.4	5,277.7	65.71	81.319	
9,842.5	7,054.5	5,050.5	4,602.3	57.2	38.5	-54.96	-5,961.8	2,500.8	5,317.4	5,250.9	66.48	79.982	
9,900.0	7,054.1	5,062.1	4,612.3	58.2	38.6	-55.12	-5,963.3	2,506.5	5,282.5	5,215.0	67.53	78.226	
9,940.9	7,053.8	5,070.3	4,619.4	58.9	38.7	-55.23	-5,964.3	2,510.5	5,257.9	5,189.6	68.28	77.009	
10,000.0	7,053.5	5,082.1	4,629.6	60.0	38.8	-55.39	-5,965.8	2,516.3	5,222.8	5,153.4	69.36	75.303	
10,039.3	7,053.2	5,089.8	4,636.3	60.7	38.9	-55.49	-5,966.8	2,520.1	5,199.6	5,129.5	70.08	74.196	
10,100.0	7,052.8	5,101.5	4,646.3	61.8	39.0	-55.65	-5,968.3	2,525.7	5,164.2	5,093.0	71.19	72.543	
10,137.8	7,052.6	5,108.7	4,652.6	62.4	39.1	-55.75	-5,969.2	2,529.3	5,142.4	5,070.5	71.88	71.540	
10,200.0	7,052.2	5,120.8	4,663.0	63.6	39.2	-55.91	-5,970.8	2,535.1	5,106.9	5,033.9	73.03	69.931	
10,236.2	7,052.0	5,127.9	4,669.1	64.2	39.3	-56.00	-5,971.7	2,538.6	5,086.5	5,012.8	73.70	69.018	
10,300.0	7,051.6	5,140.5	4,680.1	65.4	39.4	-56.18	-5,973.3	2,544.7	5,050.9	4,976.0	74.88	67.450	
10,334.6	7,051.4	5,147.5	4,686.1	66.0	39.5	-56.27	-5,974.2	2,548.0	5,031.8	4,956.3	75.53	66.619	
10,400.0	7,051.0	5,160.8	4,697.7	67.2	39.6	-56.45	-5,976.0	2,554.4	4,996.2	4,919.5	76.76	65.091	
10,433.0	7,050.7	5,167.6	4,703.6	67.8	39.7	-56.54	-5,976.9	2,557.7	4,978.4	4,901.1	77.38	64.337	
10,500.0	7,050.3	5,181.6	4,715.7	69.0	39.8	-56.73	-5,978.7	2,564.4	4,942.9	4,864.2	78.65	62.849	
10,531.5	7,050.1	5,188.3	4,721.5	69.6	39.9	-56.82	-5,979.6	2,567.5	4,926.4	4,847.1	79.25	62.166	
10,600.0	7,049.7	5,202.9	4,734.3	70.8	40.0	-57.02	-5,981.6	2,574.5	4,891.0	4,810.4	80.55	60.717	
10,629.9	7,049.5	5,209.4	4,739.9	71.4	40.1	-57.10	-5,982.4	2,577.6	4,875.7	4,794.6	81.13	60.099	
10,700.0	7,049.1	5,222.0	4,750.9	72.7	40.2	-57.27	-5,984.1	2,583.5	4,840.5	4,758.1	82.44	58.716	
10,728.3	7,048.9	5,222.0	4,750.9	73.2	40.2	-57.27	-5,984.1	2,583.5	4,826.5	4,743.6	82.90	58.221	
10,800.0	7,048.4	5,222.0	4,750.9	74.5	40.2	-57.27	-5,984.1	2,583.5	4,791.6	4,707.5	84.06	57.000	
10,826.7	7,048.3	5,222.0	4,750.9	75.0	40.2	-57.27	-5,984.1	2,583.5	4,778.8	4,694.3	84.50	56.555	
10,900.0	7,047.8	5,243.2	4,769.4	76.3	40.5	-57.56	-5,987.1	2,593.6	4,744.2	4,658.2	86.00	55.167	
10,925.2	7,047.7	5,245.8	4,771.6	76.8	40.5	-57.59	-5,987.4	2,594.8	4,732.5	4,646.1	86.45	54.746	
11,000.0	7,047.2	5,253.5	4,778.3	78.2	40.6	-57.70	-5,988.5	2,598.4	4,698.4	4,610.7	87.78	53.526	
11,023.6	7,047.0	5,255.9	4,780.4	78.6	40.6	-57.73	-5,988.8	2,599.5	4,687.9	4,599.7	88.20	53.150	
11,100.0	7,046.6	5,263.8	4,787.3	80.0	40.7	-57.84	-5,989.9	2,603.3	4,654.4	4,564.8	89.57	51.964	
11,122.0	7,046.4	5,266.2	4,789.3	80.4	40.7	-57.87	-5,990.3	2,604.4	4,644.9	4,554.9	89.96	51.630	
11,200.0	7,045.9	5,274.4	4,796.5	81.9	40.8	-57.98	-5,991.4	2,608.3	4,612.0	4,520.6	91.37	50.478	
11,220.4	7,045.8	5,276.6	4,798.4	82.3	40.8	-58.01	-5,991.7	2,609.3	4,603.6	4,511.8	91.74	50.183	
11,300.0	7,045.3	5,285.1	4,805.8	83.7	40.9	-58.13	-5,992.9	2,613.3	4,571.4	4,478.2	93.17	49.064	
11,318.9	7,045.2	5,287.2	4,807.6	84.1	40.9	-58.15	-5,993.2	2,614.3	4,563.9	4,470.4	93.51	48.805	
11,400.0	7,044.7	5,296.0	4,815.3	85.6	41.0	-58.27	-5,994.5	2,618.5	4,532.6	4,437.6	94.99	47.719	
11,417.3	7,044.6	5,297.9	4,817.0	85.9	41.0	-58.30	-5,994.8	2,619.4	4,526.1	4,430.8	95.30	47.493	
11,500.0	7,044.0	5,307.1	4,824.9	87.5	41.1	-58.42	-5,996.1	2,623.7	4,495.7	4,398.9	96.81	46.440	
11,515.7	7,043.9	5,308.8	4,826.5	87.7	41.1	-58.45	-5,996.3	2,624.5	4,490.1	4,393.0	97.09	46.244	
11,600.0	7,043.4	5,318.3	4,834.7	89.3	41.2	-58.57	-5,997.7	2,629.0	4,460.7	4,362.0	98.64	45.223	
11,614.1	7,043.3	5,319.9	4,836.1	89.6	41.2	-58.60	-5,998.0	2,629.8	4,455.9	4,357.0	98.90	45.056	
11,700.0	7,042.8	5,329.8	4,844.7	91.2	41.3	-58.73	-5,999.4	2,634.4	4,427.6	4,327.1	100.47	44.067	
11,712.6	7,042.7	5,331.2	4,845.9	91.4	41.3	-58.75	-5,999.6	2,635.1	4,423.6	4,322.9	100.71	43.926	
11,800.0	7,042.2	5,350.0	4,862.2	93.0	41.5	-59.00	-6,002.4	2,644.0	4,396.5	4,294.1	102.46	42.912	
11,811.0	7,042.1	5,350.0	4,862.2	93.2	41.5	-59.00	-6,002.4	2,644.0	4,393.2	4,290.6	102.64	42.803	
11,900.0	7,041.5	5,353.9	4,865.6	94.9	41.6	-59.05	-6,003.0	2,645.8	4,367.4	4,263.3	104.18	41.921	
11,909.4	7,041.5	5,355.2	4,866.8	95.1	41.6	-59.07	-6,003.2	2,646.4	4,364.8	4,260.4	104.36	41.824	
12,000.0	7,040.9	5,368.0	4,877.9	96.8	41.7	-59.25	-6,005.1	2,652.5	4,340.4	4,234.4	106.08	40.917	
12,007.8	7,040.8	5,369.1	4,878.9	96.9	41.7	-59.26	-6,005.2	2,653.0	4,338.4	4,232.2	106.23	40.840	
12,100.0	7,040.3	5,382.1	4,890.1	98.7	41.9	-59.44	-6,007.2	2,659.1	4,315.6	4,207.6	107.98	39.966	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design SE SE SEC. 18 T4N R64W 6th P.M. - NEI C17-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 106-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,106.3	7,040.2	5,383.0	4,890.9	98.8	41.9	-59.45	-6,007.3	2,659.6	4,314.1	4,206.0	108.10	39.908	
12,200.0	7,039.6	5,396.1	4,902.3	100.5	42.0	-59.63	-6,009.2	2,665.8	4,292.8	4,182.9	109.89	39.065	
12,204.7	7,039.6	5,396.8	4,902.8	100.6	42.0	-59.63	-6,009.3	2,666.1	4,291.8	4,181.8	109.98	39.024	
12,300.0	7,039.0	5,410.0	4,914.3	102.4	42.2	-59.81	-6,011.3	2,672.3	4,272.2	4,160.4	111.80	38.214	
12,303.1	7,039.0	5,410.4	4,914.7	102.5	42.2	-59.82	-6,011.3	2,672.5	4,271.6	4,159.8	111.86	38.188	
12,400.0	7,038.4	5,423.8	4,926.3	104.3	42.3	-60.00	-6,013.3	2,678.9	4,253.9	4,140.1	113.71	37.410	
12,401.5	7,038.4	5,424.0	4,926.5	104.3	42.3	-60.00	-6,013.3	2,679.0	4,253.6	4,139.8	113.74	37.398	
12,500.0	7,037.8	5,437.5	4,938.3	106.2	42.4	-60.19	-6,015.3	2,685.4	4,237.7	4,122.1	115.63	36.650	
12,598.4	7,037.1	5,451.0	4,949.9	108.0	42.6	-60.37	-6,017.3	2,691.7	4,224.0	4,106.5	117.52	35.944	
12,600.0	7,037.1	5,451.2	4,950.1	108.0	42.6	-60.37	-6,017.3	2,691.8	4,223.8	4,106.3	117.55	35.933	
12,696.8	7,036.5	5,464.3	4,961.5	109.9	42.7	-60.55	-6,019.2	2,698.0	4,212.6	4,093.2	119.41	35.279	
12,700.0	7,036.5	5,464.7	4,961.9	109.9	42.7	-60.55	-6,019.3	2,698.2	4,212.3	4,092.8	119.47	35.258	
12,795.2	7,035.9	5,479.0	4,974.3	111.7	42.9	-60.75	-6,021.3	2,705.0	4,203.4	4,082.0	121.33	34.644	
12,800.0	7,035.9	5,479.0	4,974.3	111.8	42.9	-60.75	-6,021.3	2,705.0	4,203.0	4,081.6	121.41	34.618	
12,893.7	7,035.3	5,479.0	4,974.3	113.6	42.9	-60.75	-6,021.3	2,705.0	4,196.4	4,073.4	123.00	34.117	
12,900.0	7,035.2	5,479.0	4,974.3	113.7	42.9	-60.75	-6,021.3	2,705.0	4,196.0	4,072.9	123.11	34.084	
12,992.1	7,034.7	5,479.0	4,974.3	115.4	42.9	-60.75	-6,021.3	2,705.0	4,191.7	4,067.1	124.67	33.622	
13,000.0	7,034.6	5,479.0	4,974.3	115.6	42.9	-60.75	-6,021.3	2,705.0	4,191.4	4,066.6	124.80	33.584	
13,090.5	7,034.0	5,479.0	4,974.3	117.3	42.9	-60.75	-6,021.3	2,705.0	4,189.4	4,063.0	126.34	33.159	
13,100.0	7,034.0	5,479.0	4,974.3	117.5	42.9	-60.75	-6,021.3	2,705.0	4,189.3	4,062.8	126.50	33.116	
13,141.7	7,033.7	5,479.0	4,974.3	118.2	42.9	-60.75	-6,021.3	2,705.0	4,189.1	4,061.8	127.21	32.930 CC	
13,188.9	7,033.4	5,479.0	4,974.3	119.1	42.9	-60.75	-6,021.3	2,705.0	4,189.3	4,061.3	128.01	32.726	
13,200.0	7,033.4	5,479.0	4,974.3	119.3	42.9	-60.75	-6,021.3	2,705.0	4,189.5	4,061.3	128.20	32.679	
13,287.4	7,032.8	5,513.8	5,004.4	121.0	43.3	-61.22	-6,026.5	2,721.6	4,191.3	4,061.0	130.32	32.161 ES	
13,300.0	7,032.7	5,514.8	5,005.3	121.2	43.3	-61.23	-6,026.7	2,722.1	4,191.7	4,061.2	130.56	32.107	
13,385.8	7,032.2	5,521.4	5,011.0	122.9	43.3	-61.32	-6,027.7	2,725.2	4,195.8	4,063.6	132.14	31.752	
13,400.0	7,032.1	5,522.5	5,011.9	123.1	43.3	-61.34	-6,027.8	2,725.8	4,196.6	4,064.2	132.40	31.695	
13,484.2	7,031.6	5,529.1	5,017.7	124.7	43.4	-61.43	-6,028.9	2,729.0	4,202.5	4,068.5	133.97	31.370	
13,500.0	7,031.5	5,530.4	5,018.7	125.0	43.4	-61.44	-6,029.1	2,729.6	4,203.8	4,069.5	134.26	31.311	
13,582.6	7,030.9	5,537.1	5,024.5	126.6	43.5	-61.53	-6,030.1	2,732.8	4,211.5	4,075.7	135.80	31.013	
13,600.0	7,030.8	5,538.5	5,025.7	126.9	43.5	-61.55	-6,030.3	2,733.5	4,213.3	4,077.2	136.12	30.953	
13,681.1	7,030.3	5,545.2	5,031.5	128.4	43.6	-61.64	-6,031.4	2,736.7	4,222.7	4,085.1	137.63	30.681	
13,700.0	7,030.2	5,546.7	5,032.8	128.8	43.6	-61.66	-6,031.6	2,737.5	4,225.1	4,087.1	137.99	30.620	
13,779.5	7,029.7	5,553.5	5,038.6	130.3	43.7	-61.76	-6,032.7	2,740.8	4,236.1	4,096.7	139.47	30.372	
13,800.0	7,029.6	5,555.2	5,040.1	130.7	43.7	-61.78	-6,033.0	2,741.6	4,239.2	4,099.4	139.86	30.311	
13,877.9	7,029.1	5,562.0	5,045.9	132.2	43.8	-61.87	-6,034.1	2,744.9	4,251.8	4,110.5	141.32	30.086	
13,900.0	7,029.0	5,563.9	5,047.5	132.6	43.8	-61.90	-6,034.4	2,745.9	4,255.6	4,113.9	141.74	30.024	
13,976.3	7,028.5	5,570.6	5,053.3	134.0	43.9	-61.99	-6,035.5	2,749.2	4,269.7	4,126.5	143.18	29.820	
14,000.0	7,028.3	5,572.8	5,055.1	134.5	43.9	-62.02	-6,035.9	2,750.2	4,274.3	4,130.6	143.63	29.760	
14,074.8	7,027.9	5,579.6	5,060.9	135.9	44.0	-62.11	-6,037.0	2,753.6	4,289.7	4,144.6	145.04	29.575	
14,100.0	7,027.7	5,607.0	5,084.3	136.4	44.3	-62.48	-6,041.6	2,767.1	4,295.3	4,149.3	146.00	29.419	
14,173.2	7,027.2	5,607.0	5,084.3	137.8	44.3	-62.48	-6,041.6	2,767.1	4,311.8	4,164.6	147.26	29.280	
14,200.0	7,027.1	5,607.0	5,084.3	138.3	44.3	-62.48	-6,041.6	2,767.1	4,318.2	4,170.5	147.73	29.231	
14,210.5	7,027.0	5,607.0	5,084.3	138.5	44.3	-62.48	-6,041.6	2,767.1	4,320.8	4,172.9	147.91	29.212 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	169.98	-5,114.8	903.6	5,194.1				
98.4	98.4	128.0	128.0	0.1	0.1	169.98	-5,114.3	903.7	5,193.7	5,193.5	0.17	N/A	
100.0	100.0	128.0	128.0	0.1	0.1	169.98	-5,114.3	903.7	5,193.7	5,193.5	0.17	N/A	
196.8	196.8	595.3	594.1	0.3	1.2	169.79	-5,089.8	916.7	5,187.9	5,186.4	1.47	3,517.437	
200.0	200.0	728.0	725.6	0.3	1.6	169.64	-5,075.5	927.6	5,187.6	5,185.7	1.83	2,833.572	
295.3	295.3	781.6	778.6	0.5	1.8	169.57	-5,069.1	933.0	5,178.0	5,175.8	2.18	2,374.449	
300.0	300.0	784.0	780.9	0.5	1.8	169.57	-5,068.8	933.3	5,177.6	5,175.4	2.20	2,356.189	
393.7	393.7	856.0	852.0	0.8	2.0	169.46	-5,060.7	942.0	5,169.2	5,166.6	2.59	1,997.686	
400.0	400.0	856.0	852.0	0.8	2.0	169.46	-5,060.7	942.0	5,168.6	5,166.0	2.60	1,986.594	
492.1	492.1	889.3	884.7	1.0	2.2	169.40	-5,057.2	946.7	5,161.0	5,158.1	2.89	1,784.864	
500.0	500.0	894.4	889.7	1.0	2.2	169.39	-5,056.7	947.4	5,160.3	5,157.4	2.92	1,766.153	
590.5	590.5	952.7	946.9	1.2	2.4	169.27	-5,050.5	956.8	5,153.6	5,150.3	3.27	1,576.872	
600.0	600.0	958.7	952.9	1.2	2.4	169.26	-5,049.9	957.8	5,152.9	5,149.6	3.30	1,559.503	
689.0	689.0	1,014.8	1,007.6	1.4	2.7	169.13	-5,044.1	968.3	5,146.9	5,143.2	3.64	1,413.054	
700.0	700.0	1,021.6	1,014.3	1.4	2.7	169.12	-5,043.4	969.6	5,146.2	5,142.5	3.68	1,396.818	
787.4	787.4	1,075.6	1,066.9	1.6	2.9	168.98	-5,038.0	980.7	5,140.9	5,136.9	4.01	1,280.635	
800.0	800.0	1,083.4	1,074.4	1.7	3.0	168.96	-5,037.3	982.4	5,140.2	5,136.1	4.06	1,265.520	
885.8	885.8	1,138.8	1,128.2	1.9	3.2	168.82	-5,032.0	994.8	5,135.7	5,131.3	4.39	1,169.791	
900.0	900.0	1,148.5	1,137.6	1.9	3.3	168.79	-5,031.1	997.1	5,135.0	5,130.6	4.45	1,155.015	
984.2	984.2	1,206.2	1,193.4	2.1	3.5	168.63	-5,025.7	1,010.6	5,131.1	5,126.4	4.78	1,074.559	
1,000.0	1,000.0	1,216.9	1,203.8	2.1	3.6	168.60	-5,024.8	1,013.2	5,130.5	5,125.6	4.84	1,060.783	
1,082.7	1,082.7	1,385.9	1,366.8	2.3	4.4	168.11	-5,008.2	1,054.2	5,126.6	5,121.1	5.44	943.007	
1,100.0	1,100.0	1,403.3	1,383.7	2.3	4.5	168.06	-5,006.3	1,058.4	5,125.6	5,120.0	5.52	928.519	
1,181.1	1,181.1	1,484.9	1,462.2	2.5	4.9	-118.09	-4,997.4	1,078.4	5,121.4	5,114.1	7.28	703.135	
1,200.0	1,200.0	1,519.8	1,495.8	2.6	5.1	-118.22	-4,993.6	1,087.0	5,120.6	5,113.1	7.51	682.273	
1,279.5	1,279.4	1,627.0	1,599.0	2.7	5.7	-118.64	-4,980.6	1,113.1	5,117.0	5,108.8	8.23	621.693	
1,300.0	1,299.8	1,661.5	1,632.2	2.8	5.8	-118.78	-4,976.4	1,121.3	5,116.1	5,107.7	8.44	606.475	
1,377.9	1,377.5	1,699.0	1,668.5	2.9	6.0	-118.95	-4,972.0	1,130.1	5,114.3	5,105.5	8.78	582.275	
1,400.0	1,399.5	1,709.6	1,678.7	3.0	6.1	-118.99	-4,970.8	1,132.5	5,114.1	5,105.2	8.88	575.852	
1,423.2	1,422.6	1,720.8	1,689.5	3.1	6.1	-119.03	-4,969.6	1,135.1	5,114.0	5,105.0	8.99	568.998	
1,476.4	1,475.3	1,755.0	1,722.6	3.2	6.3	-119.16	-4,966.1	1,142.8	5,114.4	5,105.2	9.27	551.605	
1,500.0	1,498.7	1,760.3	1,727.8	3.2	6.3	-119.17	-4,965.5	1,144.0	5,114.8	5,105.5	9.35	546.933	
1,574.8	1,572.6	1,834.6	1,799.8	3.4	6.7	-119.45	-4,958.0	1,160.9	5,116.9	5,107.0	9.90	516.808	
1,600.0	1,597.5	1,859.5	1,823.8	3.5	6.8	-119.54	-4,955.5	1,166.6	5,117.8	5,107.8	10.08	507.517	
1,673.2	1,669.4	1,949.9	1,911.3	3.7	7.2	-119.89	-4,946.1	1,187.4	5,121.2	5,110.4	10.74	476.934	
1,700.2	1,695.8	1,986.6	1,946.8	3.8	7.4	-120.03	-4,942.1	1,195.8	5,122.6	5,111.6	11.00	465.860	
1,771.6	1,765.7	2,042.6	2,001.1	4.1	7.7	-120.30	-4,936.0	1,208.5	5,126.5	5,115.0	11.50	445.840	
1,800.0	1,793.4	2,059.1	2,017.0	4.2	7.8	-120.37	-4,934.2	1,212.3	5,128.1	5,116.5	11.67	439.534	
1,870.1	1,862.0	2,099.8	2,056.4	4.4	8.0	-120.56	-4,930.0	1,221.5	5,132.6	5,120.5	12.10	424.280	
1,900.0	1,891.2	2,140.0	2,095.4	4.5	8.1	-120.75	-4,926.1	1,230.5	5,134.7	5,122.3	12.39	414.482	
1,968.5	1,958.3	2,307.4	2,257.5	4.8	9.0	-121.52	-4,907.3	1,267.8	5,138.7	5,125.3	13.43	382.604	
2,000.0	1,989.1	2,336.4	2,285.6	4.9	9.1	-121.65	-4,903.7	1,274.1	5,140.2	5,126.6	13.68	375.814	
2,066.9	2,054.5	2,397.0	2,344.4	5.2	9.4	-121.93	-4,896.5	1,286.8	5,143.7	5,129.5	14.20	362.149	
2,100.0	2,086.9	2,420.2	2,366.9	5.3	9.5	-122.03	-4,893.7	1,291.6	5,145.4	5,131.0	14.43	356.674	
2,165.3	2,150.8	2,464.0	2,409.4	5.6	9.7	-122.22	-4,888.6	1,300.7	5,149.1	5,134.3	14.86	346.459	
2,200.0	2,184.7	2,487.2	2,432.0	5.7	9.8	-122.33	-4,886.0	1,305.5	5,151.2	5,136.1	15.09	341.295	
2,263.8	2,247.1	2,526.0	2,469.7	6.0	10.0	-122.50	-4,881.7	1,313.5	5,155.3	5,139.8	15.51	332.493	
2,300.0	2,282.5	2,526.0	2,469.7	6.1	10.0	-122.50	-4,881.7	1,313.5	5,157.9	5,142.3	15.64	329.774	
2,362.2	2,343.3	2,582.4	2,524.6	6.4	10.2	-122.75	-4,875.7	1,325.1	5,162.4	5,146.3	16.13	320.066	
2,400.0	2,380.3	2,602.9	2,544.6	6.6	10.3	-122.84	-4,873.7	1,329.3	5,165.3	5,149.0	16.36	315.656	
2,460.6	2,439.6	2,654.0	2,594.3	6.8	10.5	-123.06	-4,868.8	1,339.8	5,170.4	5,153.6	16.82	307.320	
2,500.0	2,478.1	2,659.8	2,599.9	7.0	10.6	-123.08	-4,868.3	1,341.0	5,173.8	5,156.8	17.00	304.342	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,559.0	2,535.9	2,719.6	2,658.3	7.2	10.8	-123.34	-4,862.9	1,353.1	5,179.1	5,161.6	17.49	296.192	
2,600.0	2,575.9	2,761.3	2,699.0	7.4	11.0	-123.52	-4,859.1	1,361.3	5,182.8	5,165.0	17.82	290.797	
2,657.5	2,632.2	2,828.6	2,764.7	7.7	11.3	-123.80	-4,853.0	1,374.1	5,187.9	5,169.6	18.32	283.189	
2,700.0	2,673.8	2,882.3	2,817.4	7.8	11.5	-124.01	-4,848.3	1,383.6	5,191.7	5,173.0	18.70	277.664	
2,755.9	2,728.4	2,958.5	2,892.3	8.1	11.8	-124.31	-4,841.6	1,395.9	5,196.5	5,177.3	19.19	270.745	
2,800.0	2,771.6	3,022.2	2,955.2	8.3	12.0	-124.54	-4,836.2	1,404.8	5,200.2	5,180.6	19.58	265.521	
2,854.3	2,824.7	3,039.0	2,971.8	8.5	12.1	-124.59	-4,834.8	1,406.9	5,204.8	5,184.9	19.86	262.131	
2,900.0	2,869.4	3,086.1	3,018.5	8.7	12.2	-124.75	-4,831.3	1,412.1	5,208.7	5,188.5	20.16	258.412	
2,952.7	2,921.0	3,114.6	3,046.7	8.9	12.3	-124.84	-4,829.5	1,414.8	5,213.5	5,193.0	20.44	255.095	
3,000.0	2,967.2	3,168.0	3,100.0	9.2	12.4	-124.99	-4,826.8	1,418.7	5,218.1	5,197.4	20.76	251.341	
3,051.2	3,017.3	3,168.0	3,100.0	9.4	12.4	-124.99	-4,826.8	1,418.7	5,223.1	5,202.2	20.96	249.158	
3,100.0	3,065.0	3,168.0	3,100.0	9.6	12.4	-124.99	-4,826.8	1,418.7	5,228.4	5,207.2	21.16	247.137	
3,149.6	3,113.5	3,218.2	3,150.1	9.8	12.5	-125.11	-4,825.2	1,421.3	5,233.7	5,212.3	21.43	244.167	
3,200.0	3,162.8	3,244.0	3,175.8	10.0	12.6	-125.17	-4,824.6	1,422.3	5,239.5	5,217.8	21.68	241.708	
3,248.0	3,209.8	3,296.0	3,227.8	10.3	12.6	-125.29	-4,824.1	1,423.6	5,245.3	5,223.4	21.95	238.932	
3,300.0	3,260.6	3,296.0	3,227.8	10.5	12.6	-125.29	-4,824.1	1,423.6	5,251.6	5,229.4	22.16	236.993	
3,346.4	3,306.1	3,353.8	3,285.7	10.7	12.7	-125.40	-4,824.0	1,424.4	5,257.4	5,235.0	22.42	234.527	
3,400.0	3,358.4	3,422.3	3,354.1	10.9	12.8	-125.54	-4,823.6	1,425.4	5,264.0	5,241.2	22.72	231.729	
3,444.9	3,402.3	3,460.5	3,392.3	11.1	12.9	-125.62	-4,823.4	1,425.8	5,269.4	5,246.5	22.94	229.701	
3,500.0	3,456.3	3,506.8	3,438.6	11.4	12.9	-125.71	-4,823.3	1,426.2	5,276.2	5,253.0	23.21	227.278	
3,543.3	3,498.6	3,543.2	3,475.0	11.6	13.0	-125.78	-4,823.3	1,426.4	5,281.6	5,258.2	23.43	225.415	
3,600.0	3,554.1	3,586.0	3,517.8	11.8	13.0	-125.86	-4,823.4	1,426.5	5,288.8	5,265.1	23.70	223.112	
3,641.7	3,594.9	3,616.6	3,548.4	12.0	13.0	-125.91	-4,823.5	1,426.6	5,294.2	5,270.3	23.91	221.467	
3,700.0	3,651.9	3,659.3	3,591.1	12.3	13.1	-125.99	-4,823.8	1,426.8	5,301.9	5,277.7	24.18	219.225	
3,740.1	3,691.2	3,692.2	3,624.0	12.5	13.1	-126.05	-4,824.1	1,426.9	5,307.2	5,282.9	24.38	217.690	
3,800.0	3,749.7	3,755.8	3,687.6	12.7	13.2	-126.16	-4,824.9	1,426.7	5,315.3	5,290.6	24.68	215.356	
3,838.6	3,787.4	3,796.9	3,728.7	12.9	13.2	-126.23	-4,825.4	1,426.3	5,320.4	5,295.6	24.88	213.877	
3,900.0	3,847.5	3,920.7	3,852.4	13.2	13.4	-126.44	-4,826.5	1,424.7	5,328.3	5,303.1	25.24	211.107	
3,937.0	3,883.7	3,959.1	3,890.9	13.3	13.4	-126.50	-4,826.5	1,424.3	5,332.8	5,307.4	25.42	209.754	
4,000.0	3,945.3	4,004.5	3,936.3	13.6	13.5	-126.58	-4,826.6	1,423.6	5,340.6	5,314.9	25.72	207.657	
4,035.4	3,980.0	4,030.1	3,961.9	13.8	13.5	-126.62	-4,826.8	1,423.2	5,345.1	5,319.2	25.88	206.501	
4,100.0	4,043.1	4,078.8	4,010.6	14.1	13.5	-126.69	-4,827.3	1,422.1	5,353.4	5,327.2	26.19	204.432	
4,133.8	4,076.3	4,108.0	4,039.7	14.2	13.6	-126.74	-4,827.7	1,421.5	5,357.8	5,331.4	26.35	203.356	
4,200.0	4,141.0	4,169.0	4,100.7	14.5	13.6	-126.83	-4,828.6	1,420.1	5,366.5	5,339.8	26.66	201.270	
4,232.3	4,172.5	4,191.8	4,123.5	14.7	13.6	-126.87	-4,829.0	1,419.6	5,370.8	5,343.9	26.81	200.313	
4,300.0	4,238.8	4,300.7	4,232.3	15.0	13.8	-127.04	-4,830.0	1,418.0	5,379.6	5,352.4	27.19	197.846	
4,330.7	4,268.8	4,343.2	4,274.9	15.1	13.8	-127.11	-4,830.0	1,417.6	5,383.4	5,356.0	27.36	196.795	
4,400.0	4,336.6	4,424.9	4,356.6	15.4	13.9	-127.24	-4,830.2	1,416.0	5,391.9	5,364.2	27.71	194.562	
4,429.1	4,365.1	4,452.0	4,383.6	15.6	13.9	-127.28	-4,830.4	1,415.2	5,395.4	5,367.6	27.86	193.688	
4,500.0	4,434.4	4,509.7	4,441.3	15.9	14.0	-127.36	-4,830.8	1,413.4	5,404.1	5,375.9	28.19	191.711	
4,527.5	4,461.3	4,530.3	4,461.9	16.0	14.0	-127.39	-4,831.0	1,412.7	5,407.6	5,379.2	28.32	190.967	
4,600.0	4,532.2	4,630.9	4,562.4	16.4	14.1	-127.54	-4,831.9	1,409.8	5,416.8	5,388.1	28.70	188.724	
4,626.0	4,557.6	4,708.0	4,639.5	16.5	14.2	-127.66	-4,831.3	1,408.5	5,419.6	5,390.8	28.89	187.624	
4,700.0	4,630.0	4,750.4	4,681.9	16.8	14.2	-127.73	-4,830.7	1,408.0	5,428.0	5,398.8	29.23	185.687	
4,724.4	4,653.9	4,761.8	4,693.3	16.9	14.3	-127.75	-4,830.6	1,407.9	5,430.9	5,401.6	29.34	185.083	
4,800.0	4,727.8	4,796.9	4,728.4	17.3	14.3	-127.81	-4,830.5	1,407.6	5,440.2	5,410.5	29.69	183.252	
4,822.8	4,750.2	4,837.0	4,768.5	17.4	14.4	-127.88	-4,830.7	1,407.4	5,443.3	5,413.5	29.83	182.499	
4,900.0	4,825.6	4,965.0	4,896.5	17.7	14.5	-128.10	-4,829.9	1,407.0	5,453.0	5,422.7	30.30	179.968	
4,921.2	4,846.4	4,965.0	4,896.5	17.8	14.5	-128.10	-4,829.9	1,407.0	5,455.5	5,425.1	30.38	179.548	
5,000.0	4,923.5	5,019.5	4,951.0	18.2	14.6	-128.20	-4,829.1	1,407.1	5,464.8	5,434.0	30.77	177.586	
5,019.7	4,942.7	5,028.3	4,959.9	18.3	14.6	-128.21	-4,829.0	1,407.1	5,467.2	5,436.4	30.86	177.145	
5,100.0	5,021.3	5,094.0	5,025.5	18.6	14.7	-128.33	-4,829.1	1,407.4	5,477.8	5,446.5	31.27	175.163	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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		
5,118.1	5,039.0	5,094.0	5,025.5	18.7	14.7	-128.33	-4,829.1	1,407.4	5,480.1	5,448.8	31.34	174.834		
5,200.0	5,119.1	5,132.4	5,063.9	19.1	14.8	-128.40	-4,829.3	1,407.5	5,491.3	5,459.6	31.72	173.105		
5,216.5	5,135.3	5,150.8	5,082.3	19.2	14.8	-128.43	-4,829.4	1,407.6	5,493.6	5,461.8	31.81	172.684		
5,300.0	5,216.9	5,238.4	5,169.9	19.6	15.0	-128.58	-4,829.8	1,408.1	5,505.1	5,472.8	32.26	170.635		
5,314.9	5,231.5	5,250.9	5,182.4	19.6	15.0	-128.60	-4,829.9	1,408.2	5,507.2	5,474.8	32.34	170.298		
5,400.0	5,314.7	5,321.8	5,253.3	20.0	15.1	-128.72	-4,830.4	1,408.4	5,519.0	5,486.3	32.77	168.414		
5,413.4	5,327.8	5,333.0	5,264.5	20.1	15.1	-128.74	-4,830.5	1,408.4	5,520.9	5,488.1	32.84	168.123		
5,500.0	5,412.5	5,420.2	5,351.7	20.5	15.2	-128.89	-4,831.3	1,408.6	5,533.2	5,499.9	33.30	166.166		
5,511.8	5,424.1	5,432.7	5,364.2	20.5	15.3	-128.91	-4,831.4	1,408.6	5,534.8	5,501.5	33.36	165.899		
5,600.0	5,510.3	5,523.4	5,455.0	20.9	15.4	-129.07	-4,832.0	1,409.1	5,547.2	5,513.4	33.83	163.957		
5,610.2	5,520.3	5,533.7	5,465.2	21.0	15.4	-129.08	-4,832.1	1,409.1	5,548.7	5,514.8	33.89	163.737		
5,700.0	5,608.2	5,607.0	5,538.5	21.4	15.5	-129.20	-4,832.6	1,409.2	5,561.3	5,527.0	34.34	161.939		
5,708.6	5,616.6	5,626.1	5,557.6	21.4	15.5	-129.24	-4,832.8	1,409.2	5,562.5	5,528.1	34.40	161.693		
5,729.2	5,636.7	5,641.8	5,573.3	21.5	15.6	-129.26	-4,833.0	1,409.2	5,565.4	5,530.9	34.50	161.299		
5,800.0	5,706.1	5,696.0	5,627.5	21.8	15.6	-129.50	-4,833.6	1,409.3	5,575.1	5,540.3	34.82	160.100		
5,807.1	5,713.1	5,701.4	5,632.9	21.8	15.7	-129.52	-4,833.6	1,409.3	5,576.0	5,541.2	34.85	160.006		
5,900.0	5,804.7	5,775.6	5,707.1	22.1	15.8	-129.79	-4,834.6	1,409.6	5,587.2	5,552.0	35.20	158.736		
5,905.5	5,810.2	5,780.1	5,711.6	22.1	15.8	-129.80	-4,834.6	1,409.7	5,587.8	5,552.6	35.22	158.667		
6,000.0	5,903.9	5,864.0	5,795.5	22.3	15.9	-130.04	-4,835.8	1,410.5	5,597.4	5,561.8	35.55	157.435		
6,003.9	5,907.8	5,864.0	5,795.5	22.4	15.9	-130.04	-4,835.8	1,410.5	5,597.7	5,562.2	35.56	157.411		
6,100.0	6,003.4	6,019.4	5,950.8	22.6	16.2	-130.28	-4,837.3	1,411.5	5,604.8	5,568.8	35.98	155.781		
6,102.3	6,005.7	6,021.6	5,953.0	22.6	16.2	-130.28	-4,837.4	1,411.5	5,604.9	5,568.9	35.99	155.754		
6,200.0	6,103.2	6,113.6	6,045.1	22.7	16.3	-130.40	-4,837.9	1,412.1	5,609.6	5,573.3	36.28	154.620		
6,200.8	6,104.0	6,114.3	6,045.8	22.7	16.3	-130.40	-4,837.9	1,412.1	5,609.6	5,573.4	36.28	154.612		
6,299.2	6,202.3	6,348.8	6,280.2	22.9	16.7	-130.50	-4,835.9	1,414.8	5,611.3	5,574.5	36.80	152.468		
6,300.0	6,203.1	6,351.4	6,282.8	22.9	16.7	-130.50	-4,835.9	1,414.8	5,611.3	5,574.5	36.81	152.445		
6,329.4	6,232.5	6,397.7	6,329.1	22.9	16.8	155.33	-4,834.9	1,414.9	5,610.8	5,573.9	36.89	152.075		
6,397.6	6,300.8	6,461.1	6,392.5	23.0	16.9	155.32	-4,833.4	1,415.2	5,609.5	5,572.4	37.10	151.204		
6,400.0	6,303.1	6,463.3	6,394.7	23.0	16.9	155.32	-4,833.4	1,415.2	5,609.5	5,572.4	37.11	151.174		
6,449.4	6,352.5	6,506.0	6,437.4	23.1	17.0	155.31	-4,832.4	1,415.5	5,608.6	5,571.3	37.25	150.550		
6,496.0	6,399.2	6,539.4	6,470.8	23.1	17.1	-24.98	-4,831.7	1,415.7	5,606.4	5,569.2	37.27	150.446		
6,500.0	6,403.1	6,542.1	6,473.5	23.1	17.1	-24.99	-4,831.6	1,415.7	5,606.1	5,568.9	37.26	150.469		
6,550.0	6,452.8	6,575.3	6,506.7	23.1	17.1	-25.20	-4,831.1	1,415.9	5,600.7	5,563.6	37.08	151.032		
6,594.5	6,496.6	6,604.6	6,536.0	23.2	17.2	-25.47	-4,830.7	1,415.9	5,593.3	5,556.5	36.81	151.950		
6,600.0	6,502.0	6,608.2	6,539.6	23.2	17.2	-25.52	-4,830.7	1,415.9	5,592.3	5,555.5	36.77	152.095		
6,650.0	6,550.5	6,634.0	6,565.4	23.2	17.2	-25.95	-4,830.4	1,415.9	5,580.9	5,544.6	36.31	153.703		
6,692.9	6,591.4	6,669.2	6,600.6	23.2	17.3	-26.45	-4,830.2	1,415.9	5,568.8	5,533.0	35.84	155.394		
6,700.0	6,598.0	6,673.9	6,605.3	23.2	17.3	-26.54	-4,830.2	1,415.9	5,566.6	5,530.9	35.75	155.720		
6,750.0	6,644.4	6,706.1	6,637.4	23.2	17.4	-27.26	-4,830.1	1,416.0	5,549.5	5,514.5	35.06	158.277		
6,791.3	6,681.6	6,731.9	6,663.3	23.2	17.4	-27.97	-4,830.0	1,416.1	5,533.3	5,498.9	34.42	160.745		
6,800.0	6,689.3	6,737.3	6,668.7	23.2	17.4	-28.13	-4,830.0	1,416.1	5,529.7	5,495.4	34.28	161.310		
6,850.0	6,732.6	6,763.0	6,694.4	23.2	17.4	-29.17	-4,830.0	1,416.3	5,507.2	5,473.8	33.41	164.813		
6,889.7	6,765.7	6,796.1	6,727.5	23.2	17.5	-30.18	-4,830.1	1,416.5	5,487.4	5,454.7	32.71	167.752		
6,900.0	6,774.0	6,803.2	6,734.5	23.2	17.5	-30.46	-4,830.1	1,416.6	5,482.1	5,449.6	32.52	168.564		
6,950.0	6,813.3	6,836.3	6,767.7	23.2	17.6	-31.97	-4,830.2	1,416.7	5,454.5	5,422.9	31.60	172.591		
6,988.2	6,841.9	6,861.6	6,793.0	23.2	17.6	-33.30	-4,830.3	1,416.9	5,431.9	5,401.0	30.92	175.673		
7,000.0	6,850.5	6,869.8	6,801.2	23.2	17.6	-33.75	-4,830.4	1,416.9	5,424.6	5,393.9	30.71	176.636		
7,050.0	6,885.2	6,903.6	6,834.9	23.2	17.7	-35.86	-4,830.6	1,417.0	5,392.5	5,362.6	29.89	180.387		
7,086.6	6,908.9	6,927.4	6,858.7	23.2	17.7	-37.64	-4,830.7	1,417.1	5,367.6	5,338.2	29.39	182.655		
7,100.0	6,917.3	6,935.7	6,867.1	23.2	17.7	-38.34	-4,830.8	1,417.2	5,358.3	5,329.1	29.21	183.434		
7,150.0	6,946.6	6,965.0	6,896.4	23.2	17.8	-41.25	-4,830.9	1,417.3	5,322.2	5,293.5	28.73	185.277		
7,185.0	6,965.5	6,983.9	6,915.2	23.3	17.8	-43.57	-4,831.0	1,417.4	5,295.9	5,267.4	28.52	185.672		

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design													SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-21D - Wellbore #1 - Wellbore #1		Offset Site Error:	0.0 usft
Survey Program: 128-MWD													Offset Well Error:		0.0 usft	
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
7,200.0	6,973.1	6,991.5	6,922.9	23.3	17.8	-44.64	-4,831.1	1,417.5	5,284.4	5,255.9	28.51	185.380				
7,250.0	6,996.5	7,014.9	6,946.3	23.3	17.9	-48.61	-4,831.2	1,417.6	5,245.1	5,216.5	28.61	183.338				
7,283.4	7,010.4	7,020.0	6,951.4	23.4	17.9	-51.48	-4,831.2	1,417.7	5,218.1	5,189.3	28.84	180.934				
7,300.0	7,016.8	7,020.0	6,951.4	23.4	17.9	-52.98	-4,831.2	1,417.7	5,204.5	5,175.5	29.00	179.464				
7,350.0	7,033.8	7,042.5	6,973.9	23.5	17.9	-58.30	-4,831.3	1,417.9	5,162.8	5,133.0	29.82	173.157				
7,381.9	7,043.0	7,049.0	6,980.3	23.6	17.9	-61.95	-4,831.3	1,417.9	5,135.8	5,105.3	30.46	168.614				
7,400.0	7,047.6	7,052.2	6,983.6	23.6	17.9	-64.15	-4,831.4	1,417.9	5,120.3	5,089.4	30.86	165.930				
7,450.0	7,057.9	7,059.6	6,991.0	23.8	18.0	-70.65	-4,831.4	1,418.0	5,077.1	5,045.0	32.05	158.391				
7,480.3	7,062.5	7,063.0	6,994.3	23.9	18.0	-74.85	-4,831.4	1,418.0	5,050.6	5,017.8	32.79	154.011				
7,500.0	7,064.8	7,064.7	6,996.0	24.0	18.0	-77.67	-4,831.4	1,418.1	5,033.4	5,000.1	33.25	151.372				
7,550.0	7,068.3	7,067.3	6,998.7	24.2	18.0	-85.01	-4,831.5	1,418.1	4,989.4	4,955.1	34.31	145.440				
7,578.7	7,068.7	7,067.8	6,999.1	24.4	18.0	-89.26	-4,831.5	1,418.1	4,964.2	4,929.4	34.81	142.616				
7,578.9	7,068.7	7,067.8	6,999.1	24.4	18.0	-89.28	-4,831.5	1,418.1	4,964.1	4,929.2	34.81	142.604				
7,600.0	7,068.6	7,067.8	6,999.1	24.5	18.0	-89.28	-4,831.5	1,418.1	4,945.5	4,910.5	35.02	141.226				
7,677.1	7,068.1	7,067.9	6,999.2	25.1	18.0	-89.28	-4,831.5	1,418.1	4,877.9	4,842.1	35.76	136.411				
7,700.0	7,067.9	7,067.9	6,999.3	25.2	18.0	-89.28	-4,831.5	1,418.1	4,857.9	4,821.9	35.98	135.024				
7,775.6	7,067.4	7,068.0	6,999.3	25.9	18.0	-89.29	-4,831.5	1,418.1	4,792.0	4,755.2	36.79	130.242				
7,800.0	7,067.3	7,068.0	6,999.4	26.1	18.0	-89.29	-4,831.5	1,418.1	4,770.8	4,733.7	37.06	128.743				
7,874.0	7,066.8	7,068.1	6,999.4	26.8	18.0	-89.29	-4,831.5	1,418.1	4,706.6	4,668.6	38.00	123.855				
7,900.0	7,066.7	7,068.1	6,999.5	27.0	18.0	-89.29	-4,831.5	1,418.1	4,684.2	4,645.8	38.33	122.197				
7,972.4	7,066.2	7,068.2	6,999.5	27.8	18.0	-89.29	-4,831.5	1,418.1	4,621.8	4,582.5	39.32	117.544				
8,000.0	7,066.0	7,068.2	6,999.6	28.1	18.0	-89.29	-4,831.5	1,418.1	4,598.1	4,558.4	39.70	115.835				
8,070.8	7,065.6	7,068.3	6,999.7	28.9	18.0	-89.29	-4,831.5	1,418.1	4,537.5	4,496.8	40.71	111.454				
8,100.0	7,065.4	7,068.3	6,999.7	29.3	18.0	-89.30	-4,831.5	1,418.1	4,512.6	4,471.5	41.13	109.717				
8,169.3	7,065.0	7,068.4	6,999.8	30.2	18.0	-89.30	-4,831.5	1,418.1	4,453.8	4,411.6	42.17	105.626				
8,200.0	7,064.8	7,068.4	6,999.8	30.6	18.0	-89.30	-4,831.5	1,418.1	4,427.7	4,385.1	42.62	103.877				
8,267.7	7,064.4	7,068.5	6,999.9	31.5	18.0	-89.30	-4,831.5	1,418.1	4,370.6	4,327.0	43.67	100.081				
8,300.0	7,064.2	7,068.5	6,999.9	31.9	18.0	-89.30	-4,831.5	1,418.1	4,343.5	4,299.3	44.17	98.335				
8,366.1	7,063.7	7,068.6	7,000.0	32.8	18.0	-89.30	-4,831.5	1,418.1	4,288.2	4,243.0	45.22	94.826				
8,400.0	7,063.5	7,068.7	7,000.0	33.3	18.0	-89.30	-4,831.5	1,418.1	4,260.0	4,214.2	45.76	93.094				
8,464.5	7,063.1	7,068.7	7,000.1	34.2	18.0	-89.31	-4,831.5	1,418.1	4,206.4	4,159.6	46.81	89.863				
8,500.0	7,062.9	7,068.8	7,000.1	34.8	18.0	-89.31	-4,831.5	1,418.1	4,177.1	4,129.8	47.39	88.152				
8,563.0	7,062.5	7,068.8	7,000.2	35.7	18.0	-89.31	-4,831.5	1,418.1	4,125.4	4,076.9	48.43	85.184				
8,600.0	7,062.3	7,068.9	7,000.2	36.3	18.0	-89.31	-4,831.5	1,418.1	4,095.1	4,046.0	49.04	83.500				
8,661.4	7,061.9	7,069.0	7,000.3	37.2	18.0	-89.31	-4,831.5	1,418.1	4,045.1	3,995.0	50.08	80.778				
8,700.0	7,061.6	7,069.0	7,000.4	37.8	18.0	-89.31	-4,831.5	1,418.1	4,013.8	3,963.1	50.73	79.127				
8,759.8	7,061.3	7,069.1	7,000.4	38.8	18.0	-89.31	-4,831.5	1,418.1	3,965.6	3,913.9	51.75	76.634				
8,800.0	7,061.0	7,069.1	7,000.5	39.4	18.0	-89.31	-4,831.5	1,418.1	3,933.5	3,881.0	52.43	75.018				
8,858.2	7,060.6	7,069.2	7,000.6	40.3	18.0	-89.32	-4,831.5	1,418.1	3,887.0	3,833.6	53.44	72.737				
8,900.0	7,060.4	7,069.2	7,000.6	41.0	18.0	-89.32	-4,831.5	1,418.1	3,854.0	3,799.8	54.16	71.158				
8,956.7	7,060.0	7,069.3	7,000.7	41.9	18.0	-89.32	-4,831.5	1,418.1	3,809.4	3,754.2	55.15	69.074				
9,000.0	7,059.8	7,069.4	7,000.7	42.6	18.0	-89.32	-4,831.5	1,418.1	3,775.5	3,719.6	55.91	67.534				
9,055.1	7,059.4	7,069.4	7,000.8	43.6	18.0	-89.32	-4,831.5	1,418.1	3,732.7	3,675.8	56.88	65.630				
9,100.0	7,059.1	7,069.5	7,000.8	44.3	18.0	-89.32	-4,831.5	1,418.1	3,698.1	3,640.4	57.67	64.129				
9,153.5	7,058.8	7,069.6	7,000.9	45.2	18.0	-89.33	-4,831.5	1,418.1	3,657.1	3,598.4	58.61	62.391				
9,200.0	7,058.5	7,069.6	7,001.0	46.0	18.0	-89.33	-4,831.5	1,418.1	3,621.7	3,562.3	59.44	60.932				
9,251.9	7,058.2	7,069.7	7,001.0	46.9	18.0	-89.33	-4,831.5	1,418.1	3,582.5	3,522.1	60.37	59.346				
9,300.0	7,057.9	7,069.7	7,001.1	47.7	18.0	-89.33	-4,831.5	1,418.1	3,546.5	3,485.3	61.22	57.927				
9,350.4	7,057.6	7,069.8	7,001.2	48.6	18.0	-89.33	-4,831.5	1,418.1	3,509.2	3,447.0	62.13	56.482				
9,400.0	7,057.2	7,069.9	7,001.2	49.4	18.0	-89.33	-4,831.5	1,418.1	3,472.6	3,409.6	63.02	55.104				
9,448.8	7,056.9	7,069.9	7,001.3	50.3	18.0	-89.33	-4,831.5	1,418.1	3,437.0	3,373.1	63.90	53.787				
9,500.0	7,056.6	7,070.0	7,001.3	51.1	18.0	-89.34	-4,831.5	1,418.1	3,400.1	3,335.2	64.83	52.449				

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,547.2	7,056.3	7,070.0	7,001.4	52.0	18.0	-89.34	-4,831.5	1,418.1	3,366.3	3,300.6	65.68	51.251	
9,600.0	7,056.0	7,070.1	7,001.5	52.9	18.0	-89.34	-4,831.5	1,418.1	3,328.9	3,262.3	66.64	49.954	
9,645.6	7,055.7	7,070.2	7,001.5	53.7	18.0	-89.34	-4,831.5	1,418.1	3,296.9	3,229.4	67.47	48.865	
9,700.0	7,055.4	7,070.2	7,001.6	54.6	18.0	-89.34	-4,831.5	1,418.1	3,259.3	3,190.8	68.46	47.608	
9,744.1	7,055.1	7,070.3	7,001.7	55.4	18.0	-89.34	-4,831.5	1,418.1	3,229.1	3,159.8	69.27	46.618	
9,800.0	7,054.7	7,070.4	7,001.7	56.4	18.0	-89.35	-4,831.5	1,418.1	3,191.2	3,120.9	70.29	45.402	
9,842.5	7,054.5	7,070.4	7,001.8	57.2	18.0	-89.35	-4,831.5	1,418.1	3,162.8	3,091.8	71.07	44.505	
9,900.0	7,054.1	7,070.5	7,001.9	58.2	18.0	-89.35	-4,831.5	1,418.1	3,124.9	3,052.8	72.12	43.328	
9,940.9	7,053.8	7,070.6	7,001.9	58.9	18.0	-89.35	-4,831.5	1,418.1	3,098.3	3,025.4	72.88	42.515	
10,000.0	7,053.5	7,070.6	7,002.0	60.0	18.0	-89.35	-4,831.5	1,418.1	3,060.4	2,986.5	73.96	41.379	
10,039.3	7,053.2	7,070.7	7,002.1	60.7	18.0	-89.35	-4,831.5	1,418.1	3,035.6	2,960.9	74.69	40.644	
10,100.0	7,052.8	7,070.8	7,002.1	61.8	18.0	-89.35	-4,831.5	1,418.1	2,997.9	2,922.1	75.81	39.547	
10,137.8	7,052.6	7,070.8	7,002.2	62.4	18.0	-89.36	-4,831.5	1,418.1	2,974.8	2,898.3	76.51	38.884	
10,200.0	7,052.2	7,070.9	7,002.3	63.6	18.0	-89.36	-4,831.5	1,418.1	2,937.5	2,859.8	77.66	37.827	
10,236.2	7,052.0	7,071.0	7,002.3	64.2	18.0	-89.36	-4,831.5	1,418.1	2,916.1	2,837.8	78.33	37.230	
10,300.0	7,051.6	7,071.1	7,002.4	65.4	18.0	-89.36	-4,831.5	1,418.1	2,879.2	2,799.7	79.51	36.212	
10,334.6	7,051.4	7,071.1	7,002.5	66.0	18.0	-89.36	-4,831.5	1,418.1	2,859.6	2,779.4	80.15	35.677	
10,400.0	7,051.0	7,071.2	7,002.6	67.2	18.0	-89.37	-4,831.5	1,418.1	2,823.3	2,742.0	81.37	34.699	
10,433.0	7,050.7	7,071.2	7,002.6	67.8	18.0	-89.37	-4,831.5	1,418.1	2,805.4	2,723.4	81.98	34.220	
10,500.0	7,050.3	7,071.3	7,002.7	69.0	18.0	-89.37	-4,831.5	1,418.1	2,769.9	2,686.7	83.23	33.281	
10,531.5	7,050.1	7,071.4	7,002.7	69.6	18.0	-89.37	-4,831.5	1,418.1	2,753.6	2,669.8	83.81	32.854	
10,600.0	7,049.7	7,071.5	7,002.8	70.8	18.0	-89.37	-4,831.5	1,418.1	2,719.1	2,634.0	85.09	31.955	
10,629.9	7,049.5	7,071.5	7,002.9	71.4	18.0	-89.37	-4,831.5	1,418.1	2,704.4	2,618.8	85.65	31.576	
10,700.0	7,049.1	7,071.6	7,003.0	72.7	18.0	-89.38	-4,831.5	1,418.1	2,671.1	2,584.1	86.96	30.717	
10,728.3	7,048.9	7,071.7	7,003.0	73.2	18.0	-89.38	-4,831.5	1,418.1	2,658.0	2,570.5	87.49	30.382	
10,800.0	7,048.4	7,071.8	7,003.1	74.5	18.0	-89.38	-4,831.5	1,418.1	2,626.0	2,537.2	88.83	29.563	
10,826.7	7,048.3	7,071.8	7,003.2	75.0	18.0	-89.38	-4,831.5	1,418.1	2,614.5	2,525.1	89.33	29.268	
10,900.0	7,047.8	7,071.9	7,003.3	76.3	18.0	-89.38	-4,831.5	1,418.1	2,584.0	2,493.3	90.70	28.490	
10,925.2	7,047.7	7,072.0	7,003.3	76.8	18.0	-89.38	-4,831.5	1,418.1	2,573.9	2,482.8	91.17	28.232	
11,000.0	7,047.2	7,072.1	7,003.4	78.2	18.0	-89.39	-4,831.5	1,418.1	2,545.3	2,452.7	92.57	27.494	
11,023.6	7,047.0	7,072.1	7,003.5	78.6	18.0	-89.39	-4,831.5	1,418.1	2,536.6	2,443.6	93.02	27.270	
11,100.0	7,046.6	7,072.2	7,003.6	80.0	18.0	-89.39	-4,831.5	1,418.1	2,509.9	2,415.4	94.45	26.573	
11,122.0	7,046.4	7,072.3	7,003.6	80.4	18.0	-89.39	-4,831.5	1,418.1	2,502.6	2,407.7	94.87	26.380	
11,200.0	7,045.9	7,072.4	7,003.8	81.9	18.0	-89.39	-4,831.5	1,418.1	2,478.0	2,381.7	96.33	25.724	
11,220.4	7,045.8	7,072.4	7,003.8	82.3	18.0	-89.39	-4,831.5	1,418.1	2,472.0	2,375.3	96.72	25.559	
11,300.0	7,045.3	7,072.6	7,003.9	83.7	18.0	-89.40	-4,831.5	1,418.1	2,449.9	2,351.7	98.21	24.945	
11,318.9	7,045.2	7,072.6	7,003.9	84.1	18.0	-89.40	-4,831.5	1,418.1	2,445.0	2,346.4	98.57	24.805	
11,400.0	7,044.7	7,072.7	7,004.1	85.6	18.0	-89.40	-4,831.5	1,418.1	2,425.5	2,325.4	100.09	24.232	
11,417.3	7,044.6	7,072.7	7,004.1	85.9	18.0	-89.40	-4,831.5	1,418.1	2,421.7	2,321.3	100.42	24.116	
11,500.0	7,044.0	7,072.9	7,004.2	87.5	18.0	-89.41	-4,831.5	1,418.1	2,405.1	2,303.1	101.98	23.584	
11,515.7	7,043.9	7,072.9	7,004.3	87.7	18.0	-89.41	-4,831.5	1,418.1	2,402.2	2,299.9	102.27	23.488	
11,600.0	7,043.4	7,073.0	7,004.4	89.3	18.0	-89.41	-4,831.5	1,418.1	2,388.6	2,284.8	103.86	22.998	
11,614.1	7,043.3	7,073.1	7,004.4	89.6	18.0	-89.41	-4,831.5	1,418.1	2,386.6	2,282.5	104.13	22.919	
11,700.0	7,042.8	7,073.2	7,004.6	91.2	18.0	-89.41	-4,831.5	1,418.1	2,376.3	2,270.5	105.75	22.471	
11,712.6	7,042.7	7,073.2	7,004.6	91.4	18.0	-89.41	-4,831.5	1,418.1	2,375.0	2,269.0	105.99	22.408	
11,800.0	7,042.2	7,073.4	7,004.7	93.0	18.0	-89.42	-4,831.5	1,418.1	2,368.1	2,260.5	107.64	22.000	
11,811.0	7,042.1	7,073.4	7,004.8	93.2	18.0	-89.42	-4,831.5	1,418.1	2,367.5	2,259.6	107.85	21.952	
11,900.0	7,041.5	7,073.6	7,004.9	94.9	18.0	-89.42	-4,831.5	1,418.2	2,364.1	2,254.6	109.53	21.584	
11,909.4	7,041.5	7,073.6	7,004.9	95.1	18.0	-89.42	-4,831.5	1,418.2	2,364.0	2,254.3	109.71	21.548	
11,944.0	7,041.2	7,073.6	7,005.0	95.7	18.0	-89.42	-4,831.5	1,418.2	2,363.7	2,253.4	110.36	21.418 CC	
12,000.0	7,040.9	7,073.7	7,005.1	96.8	18.0	-89.43	-4,831.5	1,418.2	2,364.4	2,253.0	111.42	21.220 ES	
12,007.8	7,040.8	7,073.7	7,005.1	96.9	18.0	-89.43	-4,831.5	1,418.2	2,364.6	2,253.0	111.57	21.194	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-21D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.0 usft
Survey Program: 128-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,100.0	7,040.3	7,073.9	7,005.3	98.7	18.0	-89.43	-4,831.5	1,418.2	2,368.9	2,255.5	113.31	20.906	
12,106.3	7,040.2	7,073.9	7,005.3	98.8	18.0	-89.43	-4,831.5	1,418.2	2,369.3	2,255.9	113.43	20.887	
12,200.0	7,039.6	7,074.1	7,005.4	100.5	18.0	-89.43	-4,831.5	1,418.2	2,377.5	2,262.3	115.21	20.637	
12,204.7	7,039.6	7,074.1	7,005.4	100.6	18.0	-89.44	-4,831.5	1,418.2	2,378.1	2,262.8	115.30	20.626	
12,300.0	7,039.0	7,074.3	7,005.6	102.4	18.0	-89.44	-4,831.5	1,418.2	2,390.4	2,273.3	117.10	20.413	
12,303.1	7,039.0	7,074.3	7,005.6	102.5	18.0	-89.44	-4,831.5	1,418.2	2,390.8	2,273.7	117.16	20.407	
12,400.0	7,038.4	7,074.4	7,005.8	104.3	18.0	-89.44	-4,831.5	1,418.2	2,407.3	2,288.3	119.00	20.230	
12,401.5	7,038.4	7,074.5	7,005.8	104.3	18.0	-89.44	-4,831.5	1,418.2	2,407.6	2,288.6	119.03	20.228	
12,500.0	7,037.8	7,074.6	7,006.0	106.2	18.0	-89.45	-4,831.5	1,418.2	2,428.2	2,307.3	120.89	20.086	
12,598.4	7,037.1	7,074.8	7,006.2	108.0	18.0	-89.45	-4,831.5	1,418.2	2,452.6	2,329.9	122.76	19.979	
12,600.0	7,037.1	7,074.8	7,006.2	108.0	18.0	-89.45	-4,831.5	1,418.2	2,453.1	2,330.3	122.79	19.978	
12,696.8	7,036.5	7,075.0	7,006.4	109.9	18.0	-89.46	-4,831.5	1,418.2	2,480.7	2,356.1	124.63	19.905	
12,700.0	7,036.5	7,075.0	7,006.4	109.9	18.0	-89.46	-4,831.5	1,418.2	2,481.7	2,357.0	124.69	19.903	
12,795.2	7,035.9	7,075.2	7,006.6	111.7	18.0	-89.46	-4,831.5	1,418.2	2,512.3	2,385.8	126.50	19.861	
12,800.0	7,035.9	7,075.2	7,006.6	111.8	18.0	-89.46	-4,831.5	1,418.2	2,513.9	2,387.4	126.59	19.860	
12,893.7	7,035.3	7,075.4	7,006.7	113.6	18.0	-89.47	-4,831.5	1,418.2	2,547.4	2,419.0	128.36	19.845	
12,900.0	7,035.2	7,075.4	7,006.8	113.7	18.0	-89.47	-4,831.5	1,418.2	2,549.7	2,421.2	128.48	19.845 SF	
12,992.1	7,034.7	7,075.6	7,006.9	115.4	18.0	-89.47	-4,831.5	1,418.2	2,585.7	2,455.4	130.23	19.854	
13,000.0	7,034.6	7,075.6	7,007.0	115.6	18.0	-89.47	-4,831.5	1,418.2	2,588.9	2,458.5	130.38	19.856	
13,090.5	7,034.0	7,075.8	7,007.1	117.3	18.0	-89.48	-4,831.5	1,418.2	2,627.1	2,495.0	132.11	19.887	
13,100.0	7,034.0	7,075.8	7,007.2	117.5	18.0	-89.48	-4,831.5	1,418.2	2,631.3	2,499.0	132.29	19.891	
13,188.9	7,033.4	7,076.0	7,007.3	119.1	18.0	-89.48	-4,831.5	1,418.2	2,671.5	2,537.6	133.98	19.940	
13,200.0	7,033.4	7,076.0	7,007.4	119.3	18.0	-89.48	-4,831.5	1,418.2	2,676.7	2,542.5	134.19	19.948	
13,287.4	7,032.8	7,076.2	7,007.6	121.0	18.0	-89.49	-4,831.5	1,418.2	2,718.8	2,583.0	135.85	20.013	
13,300.0	7,032.7	7,076.2	7,007.6	121.2	18.0	-89.49	-4,831.5	1,418.2	2,725.1	2,589.0	136.09	20.024	
13,385.8	7,032.2	7,076.4	7,007.8	122.9	18.0	-89.49	-4,831.5	1,418.2	2,768.8	2,631.0	137.72	20.104	
13,400.0	7,032.1	7,076.4	7,007.8	123.1	18.0	-89.49	-4,831.5	1,418.2	2,776.2	2,638.2	137.99	20.118	
13,484.2	7,031.6	7,076.6	7,008.0	124.7	18.0	-89.50	-4,831.5	1,418.2	2,821.3	2,681.7	139.59	20.210	
13,500.0	7,031.5	7,076.6	7,008.0	125.0	18.0	-89.50	-4,831.5	1,418.2	2,829.9	2,690.0	139.89	20.229	
13,582.6	7,030.9	7,076.8	7,008.2	126.6	18.0	-89.50	-4,831.5	1,418.2	2,876.2	2,734.7	141.47	20.331	
13,600.0	7,030.8	7,076.9	7,008.2	126.9	18.0	-89.50	-4,831.5	1,418.2	2,886.1	2,744.3	141.80	20.354	
13,681.1	7,030.3	7,077.0	7,008.4	128.4	18.0	-89.51	-4,831.5	1,418.2	2,933.4	2,790.0	143.34	20.464	
13,700.0	7,030.2	7,077.1	7,008.4	128.8	18.0	-89.51	-4,831.5	1,418.2	2,944.6	2,800.9	143.70	20.491	
13,779.5	7,029.7	7,077.3	7,008.6	130.3	18.0	-89.51	-4,831.5	1,418.2	2,992.7	2,847.5	145.22	20.609	
13,800.0	7,029.6	7,077.3	7,008.7	130.7	18.0	-89.51	-4,831.5	1,418.2	3,005.3	2,859.7	145.61	20.640	
13,877.9	7,029.1	7,077.5	7,008.8	132.2	18.0	-89.52	-4,831.5	1,418.2	3,054.1	2,907.0	147.09	20.763	
13,900.0	7,029.0	7,077.5	7,008.9	132.6	18.0	-89.52	-4,831.5	1,418.2	3,068.1	2,920.6	147.51	20.799	
13,976.3	7,028.5	7,077.7	7,009.1	134.0	18.0	-89.52	-4,831.5	1,418.2	3,117.3	2,968.4	148.97	20.926	
14,000.0	7,028.3	7,077.8	7,009.1	134.5	18.0	-89.52	-4,831.5	1,418.2	3,132.8	2,983.4	149.42	20.967	
14,074.8	7,027.9	7,078.0	7,009.3	135.9	18.0	-89.53	-4,831.5	1,418.2	3,182.4	3,031.5	150.84	21.097	
14,100.0	7,027.7	7,078.0	7,009.4	136.4	18.0	-89.53	-4,831.6	1,418.2	3,199.3	3,048.0	151.32	21.142	
14,173.2	7,027.2	7,078.2	7,009.5	137.8	18.0	-89.53	-4,831.6	1,418.2	3,249.1	3,096.4	152.72	21.275	
14,200.0	7,027.1	7,078.3	7,009.6	138.3	18.0	-89.54	-4,831.6	1,418.2	3,267.5	3,114.3	153.23	21.324	
14,210.5	7,027.0	7,078.3	7,009.6	138.5	18.0	-89.54	-4,831.6	1,418.2	3,274.8	3,121.4	153.43	21.344	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	169.74	-5,114.8	925.9	5,198.0				
98.4	98.4	134.0	134.0	0.1	0.1	169.75	-5,114.1	925.1	5,197.3	5,197.2	0.18	N/A	
100.0	100.0	134.0	134.0	0.1	0.1	169.75	-5,114.1	925.1	5,197.3	5,197.2	0.18	N/A	
196.8	196.8	189.3	189.3	0.3	0.2	169.75	-5,113.8	924.7	5,196.8	5,196.2	0.51	N/A	
200.0	200.0	190.9	190.8	0.3	0.2	169.75	-5,113.8	924.7	5,196.8	5,196.2	0.52	N/A	
206.4	206.4	193.9	193.9	0.3	0.2	169.75	-5,113.8	924.7	5,196.7	5,196.2	0.54	9,633.514	
295.3	295.3	244.5	244.5	0.5	0.3	169.75	-5,114.0	924.8	5,197.1	5,196.3	0.84	6,164.601	
300.0	300.0	248.3	248.3	0.5	0.3	169.75	-5,114.1	924.8	5,197.2	5,196.3	0.86	6,030.662	
393.7	393.7	316.0	316.0	0.8	0.5	169.75	-5,114.6	925.0	5,198.0	5,196.8	1.21	4,279.621	
400.0	400.0	316.0	316.0	0.8	0.5	169.75	-5,114.6	925.0	5,198.1	5,196.9	1.23	4,230.370	
492.1	492.1	397.1	397.0	1.0	0.6	169.74	-5,115.6	925.9	5,199.3	5,197.7	1.61	3,228.457	
500.0	500.0	402.9	402.9	1.0	0.6	169.74	-5,115.7	926.0	5,199.5	5,197.8	1.64	3,168.954	
590.5	590.5	444.0	444.0	1.2	0.7	169.73	-5,116.2	927.0	5,201.2	5,199.3	1.93	2,691.098	
600.0	600.0	471.5	471.4	1.2	0.8	169.72	-5,116.6	927.9	5,201.4	5,199.4	2.02	2,580.082	
689.0	689.0	526.3	526.1	1.4	0.9	169.70	-5,117.6	930.2	5,203.7	5,201.3	2.34	2,224.480	
700.0	700.0	533.0	532.9	1.4	0.9	169.69	-5,117.8	930.6	5,204.0	5,201.6	2.38	2,187.086	
787.4	787.4	572.0	571.8	1.6	1.0	169.67	-5,118.6	932.9	5,206.9	5,204.2	2.66	1,954.193	
800.0	800.0	594.2	593.9	1.7	1.1	169.66	-5,119.2	934.3	5,207.3	5,204.6	2.75	1,896.170	
885.8	885.8	661.0	660.5	1.9	1.2	169.61	-5,121.0	939.3	5,210.8	5,207.7	3.10	1,680.559	
900.0	900.0	661.0	660.5	1.9	1.2	169.61	-5,121.0	939.3	5,211.4	5,208.3	3.13	1,663.657	
984.2	984.2	725.0	724.2	2.1	1.4	169.55	-5,123.0	945.0	5,215.3	5,211.8	3.48	1,498.296	
1,000.0	1,000.0	725.0	724.2	2.1	1.4	169.55	-5,123.0	945.0	5,216.1	5,212.5	3.52	1,483.431	
1,082.7	1,082.7	791.8	790.5	2.3	1.6	169.47	-5,125.0	952.7	5,220.2	5,216.4	3.88	1,345.164	
1,100.0	1,100.0	803.1	801.7	2.3	1.6	169.45	-5,125.3	954.2	5,221.2	5,217.2	3.95	1,321.800	
1,181.1	1,181.1	1,048.6	1,042.7	2.5	2.5	-116.84	-5,126.9	1,000.5	5,225.6	5,220.6	4.98	1,049.716	
1,200.0	1,200.0	1,080.8	1,074.0	2.6	2.6	-116.92	-5,126.1	1,008.2	5,226.3	5,221.2	5.15	1,014.178	
1,279.5	1,279.4	1,239.0	1,225.9	2.7	3.4	-117.43	-5,119.0	1,051.7	5,228.7	5,222.6	6.11	855.125	
1,300.0	1,299.8	1,239.0	1,225.9	2.8	3.4	-117.41	-5,119.0	1,051.7	5,229.5	5,223.4	6.16	849.298	
1,377.9	1,377.5	1,298.4	1,282.3	2.9	3.8	-117.59	-5,115.6	1,070.0	5,233.2	5,226.6	6.67	784.638	
1,400.0	1,399.5	1,307.0	1,290.5	3.0	3.8	-117.60	-5,115.2	1,072.6	5,234.6	5,227.9	6.77	773.567	
1,476.4	1,475.3	1,367.0	1,347.4	3.2	4.2	-117.77	-5,112.8	1,091.3	5,240.8	5,233.5	7.29	719.186	
1,500.0	1,498.7	1,367.0	1,347.4	3.2	4.2	-117.73	-5,112.8	1,091.3	5,242.9	5,235.5	7.34	714.024	
1,574.8	1,572.6	1,383.0	1,362.6	3.4	4.3	-117.67	-5,112.2	1,096.4	5,250.7	5,243.1	7.64	687.129	
1,600.0	1,597.5	1,404.4	1,382.8	3.5	4.4	-117.73	-5,111.5	1,103.4	5,253.7	5,245.8	7.84	669.716	
1,673.2	1,669.4	1,464.8	1,439.4	3.7	4.8	-117.89	-5,109.1	1,124.1	5,263.1	5,254.6	8.44	623.356	
1,700.2	1,695.8	1,469.4	1,410.7	3.8	6.1	-118.91	-5,097.8	1,192.2	5,266.5	5,256.7	9.79	537.811	
1,771.6	1,765.7	1,697.5	1,655.3	4.1	6.4	-119.19	-5,094.2	1,209.8	5,275.0	5,264.6	10.35	509.869	
1,800.0	1,793.4	1,716.7	1,673.1	4.2	6.6	-119.30	-5,092.8	1,216.8	5,278.5	5,267.9	10.57	499.601	
1,870.1	1,862.0	1,771.7	1,724.3	4.4	6.9	-119.62	-5,088.9	1,236.6	5,287.4	5,276.2	11.18	472.978	
1,900.0	1,891.2	1,804.3	1,754.5	4.5	7.2	-119.81	-5,086.5	1,248.5	5,291.2	5,279.7	11.51	459.736	
1,968.5	1,958.3	1,878.3	1,823.1	4.8	7.7	-120.24	-5,080.9	1,275.7	5,300.1	5,287.8	12.27	431.931	
2,000.0	1,989.1	1,914.5	1,856.6	4.9	8.0	-120.45	-5,078.0	1,289.2	5,304.2	5,291.5	12.65	419.459	
2,066.9	2,054.5	1,992.0	1,928.3	5.2	8.5	-120.91	-5,071.5	1,318.0	5,312.9	5,299.4	13.45	394.907	
2,100.0	2,086.9	2,009.0	1,944.0	5.3	8.7	-121.01	-5,070.1	1,324.3	5,317.2	5,303.5	13.70	388.196	
2,165.3	2,150.8	2,047.2	1,979.3	5.6	9.0	-121.23	-5,066.9	1,338.4	5,326.1	5,311.9	14.21	374.727	
2,200.0	2,184.7	2,063.0	1,993.9	5.7	9.1	-121.32	-5,065.7	1,344.3	5,331.0	5,316.5	14.45	368.815	
2,263.8	2,247.1	2,091.9	2,020.7	6.0	9.3	-121.49	-5,063.5	1,355.1	5,340.4	5,325.5	14.90	358.365	
2,300.0	2,282.5	2,108.4	2,035.9	6.1	9.4	-121.59	-5,062.3	1,361.3	5,345.9	5,330.8	15.16	352.730	
2,362.2	2,343.3	2,138.0	2,063.3	6.4	9.6	-121.76	-5,060.3	1,372.4	5,355.8	5,340.2	15.60	343.212	
2,400.0	2,380.3	2,168.6	2,091.5	6.6	9.8	-121.94	-5,058.3	1,383.9	5,361.9	5,345.9	15.96	335.897	
2,460.6	2,439.6	2,222.5	2,141.4	6.8	10.2	-122.25	-5,054.7	1,404.0	5,371.9	5,355.3	16.57	324.139	
2,500.0	2,478.1	2,257.6	2,174.0	7.0	10.5	-122.45	-5,052.4	1,417.0	5,378.5	5,361.5	16.97	316.953	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,394.0	2,300.5	7.2	11.5	-123.23	-5,042.3	1,467.0	5,388.0	5,369.8	18.15	296.888	
2,600.0	2,575.9	2,431.0	2,334.8	7.4	11.8	-123.44	-5,039.3	1,480.4	5,394.4	5,375.8	18.56	290.707	
2,657.5	2,632.2	2,466.7	2,368.0	7.7	12.0	-123.64	-5,036.6	1,493.1	5,403.7	5,384.6	19.02	284.094	
2,700.0	2,673.8	2,493.3	2,392.9	7.8	12.2	-123.78	-5,034.6	1,502.4	5,410.7	5,391.3	19.37	279.398	
2,755.9	2,728.4	2,523.0	2,420.7	8.1	12.4	-123.94	-5,032.6	1,512.6	5,420.2	5,400.4	19.78	273.967	
2,800.0	2,771.6	2,556.0	2,451.7	8.3	12.6	-124.12	-5,030.4	1,524.0	5,427.8	5,407.7	20.17	269.043	
2,854.3	2,824.7	2,589.7	2,483.2	8.5	12.9	-124.30	-5,028.3	1,535.6	5,437.5	5,416.9	20.61	263.829	
2,900.0	2,869.4	2,617.9	2,509.5	8.7	13.1	-124.46	-5,026.4	1,545.5	5,445.8	5,424.8	20.97	259.642	
2,952.7	2,921.0	2,651.0	2,540.4	8.9	13.3	-124.64	-5,024.4	1,557.2	5,455.6	5,434.2	21.40	254.943	
3,000.0	2,967.2	2,780.0	2,660.1	9.2	14.3	-125.36	-5,014.3	1,604.3	5,463.8	5,441.3	22.50	242.875	
3,051.2	3,017.3	2,824.7	2,701.4	9.4	14.6	-125.61	-5,010.2	1,621.0	5,472.8	5,449.8	23.02	237.711	
3,100.0	3,065.0	2,850.0	2,724.7	9.6	14.8	-125.75	-5,008.0	1,630.5	5,481.6	5,458.2	23.40	234.274	
3,149.6	3,113.5	2,875.7	2,748.4	9.8	15.0	-125.90	-5,005.8	1,640.2	5,490.8	5,467.0	23.78	230.906	
3,200.0	3,162.8	2,908.0	2,778.2	10.0	15.3	-126.08	-5,003.2	1,652.5	5,500.4	5,476.2	24.21	227.183	
3,248.0	3,209.8	2,938.1	2,805.9	10.3	15.5	-126.25	-5,000.7	1,663.9	5,509.8	5,485.2	24.61	223.855	
3,300.0	3,260.6	2,981.8	2,846.2	10.5	15.9	-126.50	-4,997.2	1,680.5	5,520.0	5,494.9	25.13	219.696	
3,346.4	3,306.1	3,020.9	2,882.2	10.7	16.2	-126.72	-4,994.1	1,695.4	5,529.3	5,503.7	25.58	216.127	
3,400.0	3,358.4	3,068.0	2,925.6	10.9	16.5	-126.98	-4,990.3	1,713.2	5,540.1	5,514.0	26.12	212.116	
3,444.9	3,402.3	3,108.3	2,962.9	11.1	16.8	-127.21	-4,987.0	1,728.4	5,549.2	5,522.7	26.57	208.852	
3,500.0	3,456.3	3,158.1	3,008.9	11.4	17.2	-127.48	-4,983.1	1,746.9	5,560.6	5,533.4	27.13	204.996	
3,543.3	3,498.6	3,189.9	3,038.3	11.6	17.4	-127.66	-4,980.6	1,758.7	5,569.6	5,542.1	27.51	202.463	
3,600.0	3,554.1	3,229.6	3,075.1	11.8	17.7	-127.87	-4,977.6	1,773.4	5,581.5	5,553.5	28.00	199.362	
3,641.7	3,594.9	3,258.9	3,102.3	12.0	17.9	-128.03	-4,975.4	1,784.1	5,590.5	5,562.1	28.36	197.153	
3,700.0	3,651.9	3,300.7	3,141.1	12.3	18.2	-128.25	-4,972.4	1,799.4	5,603.2	5,574.3	28.86	194.129	
3,740.1	3,691.2	3,332.1	3,170.2	12.5	18.5	-128.42	-4,970.2	1,810.9	5,612.0	5,582.8	29.23	191.986	
3,800.0	3,749.7	3,378.7	3,213.4	12.7	18.8	-128.67	-4,966.9	1,828.0	5,625.4	5,595.6	29.78	188.910	
3,838.6	3,787.4	3,408.7	3,241.2	12.9	19.1	-128.83	-4,964.7	1,839.1	5,634.1	5,603.9	30.13	186.998	
3,900.0	3,847.5	3,550.0	3,372.9	13.2	20.1	-129.57	-4,954.2	1,889.1	5,647.5	5,616.2	31.27	180.616	
3,937.0	3,883.7	3,550.0	3,372.9	13.3	20.1	-129.57	-4,954.2	1,889.1	5,655.6	5,624.1	31.41	180.043	
4,000.0	3,945.3	3,550.0	3,372.9	13.6	20.1	-129.57	-4,954.2	1,889.1	5,669.9	5,638.2	31.66	179.097	
4,035.4	3,980.0	3,601.2	3,421.0	13.8	20.4	-129.82	-4,950.7	1,906.3	5,677.6	5,645.5	32.10	176.872	
4,100.0	4,043.1	3,620.5	3,439.2	14.1	20.6	-129.92	-4,949.6	1,912.8	5,692.7	5,660.3	32.47	175.345	
4,133.8	4,076.3	3,630.7	3,448.7	14.2	20.6	-129.97	-4,949.0	1,916.3	5,700.9	5,668.2	32.66	174.565	
4,200.0	4,141.0	3,678.0	3,493.1	14.5	21.0	-130.20	-4,947.0	1,932.5	5,717.4	5,684.2	33.19	172.243	
4,232.3	4,172.5	3,678.0	3,493.1	14.7	21.0	-130.20	-4,947.0	1,932.5	5,725.4	5,692.1	33.32	171.833	
4,300.0	4,238.8	3,718.3	3,530.9	15.0	21.2	-130.40	-4,945.3	1,946.5	5,742.9	5,709.0	33.83	169.770	
4,330.7	4,268.8	3,832.3	3,637.4	15.1	22.1	-130.97	-4,939.0	1,986.4	5,750.5	5,715.9	34.63	166.067	
4,400.0	4,336.6	3,961.7	3,758.8	15.4	23.0	-131.60	-4,930.7	2,030.5	5,767.3	5,731.6	35.65	161.770	
4,429.1	4,365.1	4,051.2	3,843.2	15.6	23.5	-132.02	-4,924.4	2,059.6	5,774.1	5,737.8	36.26	159.239	
4,500.0	4,434.4	4,064.0	3,855.3	15.9	23.6	-132.08	-4,923.5	2,063.7	5,790.5	5,753.9	36.60	158.193	
4,527.5	4,461.3	4,064.0	3,855.3	16.0	23.6	-132.08	-4,923.5	2,063.7	5,797.2	5,760.5	36.71	157.916	
4,600.0	4,532.2	4,120.0	3,908.1	16.4	24.0	-132.35	-4,919.6	2,082.0	5,814.5	5,777.2	37.31	155.844	
4,626.0	4,557.6	4,128.6	3,916.2	16.5	24.1	-132.39	-4,919.0	2,084.9	5,820.9	5,783.5	37.46	155.396	
4,700.0	4,630.0	4,192.0	3,975.5	16.8	24.5	-132.69	-4,915.2	2,106.9	5,840.0	5,801.9	38.10	153.275	
4,724.4	4,653.9	4,192.0	3,975.5	16.9	24.5	-132.69	-4,915.2	2,106.9	5,846.2	5,808.0	38.20	153.061	
4,800.0	4,727.8	4,192.0	3,975.5	17.3	24.5	-132.69	-4,915.2	2,106.9	5,866.0	5,827.5	38.49	152.420	
4,822.8	4,750.2	4,192.0	3,975.5	17.4	24.5	-132.69	-4,915.2	2,106.9	5,872.2	5,833.6	38.57	152.232	
4,900.0	4,825.6	4,252.5	4,031.9	17.7	25.0	-132.99	-4,911.8	2,128.6	5,893.3	5,854.0	39.23	150.209	
4,921.2	4,846.4	4,268.5	4,046.8	17.8	25.1	-133.07	-4,910.8	2,134.4	5,899.1	5,859.7	39.41	149.682	
5,000.0	4,923.5	4,320.0	4,094.7	18.2	25.5	-133.32	-4,907.9	2,153.0	5,921.0	5,881.0	40.02	147.953	
5,019.7	4,942.7	4,320.0	4,094.7	18.3	25.5	-133.32	-4,907.9	2,153.0	5,926.6	5,886.5	40.09	147.814	
5,100.0	5,021.3	4,375.2	4,146.0	18.6	25.9	-133.59	-4,904.9	2,173.0	5,949.4	5,908.7	40.73	146.086	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	4,384.3	4,154.5	18.7	25.9	-133.63	-4,904.5	2,176.3	5,954.7	5,913.8	40.85	145.778	
5,200.0	5,119.1	4,449.0	4,214.8	19.1	26.4	-133.94	-4,901.7	2,199.7	5,978.8	5,937.3	41.54	143.936	
5,216.5	5,135.3	4,449.0	4,214.8	19.2	26.4	-133.94	-4,901.7	2,199.7	5,983.7	5,942.1	41.60	143.835	
5,300.0	5,216.9	4,481.8	4,245.4	19.6	26.7	-134.09	-4,900.5	2,211.5	6,008.8	5,966.7	42.11	142.689	
5,314.9	5,231.5	4,491.1	4,254.0	19.6	26.7	-134.14	-4,900.1	2,214.9	6,013.3	5,971.1	42.22	142.422	
5,400.0	5,314.7	4,543.3	4,302.5	20.0	27.1	-134.38	-4,898.1	2,234.1	6,039.5	5,996.7	42.85	140.949	
5,413.4	5,327.8	4,551.5	4,310.1	20.1	27.2	-134.42	-4,897.8	2,237.2	6,043.7	6,000.7	42.95	140.724	
5,500.0	5,412.5	4,608.2	4,362.6	20.5	27.6	-134.69	-4,895.6	2,258.4	6,070.9	6,027.3	43.60	139.238	
5,511.8	5,424.1	5,320.5	5,046.6	20.5	31.5	-137.37	-4,871.0	2,449.2	6,074.1	6,027.6	46.50	130.624	
5,600.0	5,510.3	5,766.7	5,490.3	20.9	32.5	-138.33	-4,863.0	2,489.9	6,092.3	6,044.8	47.49	128.297	
5,610.2	5,520.3	5,773.2	5,496.8	21.0	32.5	-138.34	-4,862.9	2,490.0	6,093.9	6,046.3	47.53	128.219	
5,700.0	5,608.2	5,830.6	5,554.2	21.4	32.5	-138.43	-4,862.4	2,491.2	6,108.4	6,060.5	47.89	127.541	
5,708.6	5,616.6	5,836.1	5,559.7	21.4	32.5	-138.44	-4,862.4	2,491.3	6,109.8	6,061.8	47.93	127.477	
5,729.2	5,636.7	5,861.0	5,584.6	21.5	32.6	-138.47	-4,862.4	2,491.6	6,113.2	6,065.2	48.02	127.305	
5,800.0	5,706.1	5,900.7	5,624.3	21.8	32.6	-138.68	-4,862.5	2,492.2	6,124.4	6,076.1	48.29	126.831	
5,807.1	5,713.1	5,906.1	5,629.7	21.8	32.6	-138.70	-4,862.5	2,492.3	6,125.4	6,077.1	48.31	126.794	
5,900.0	5,804.7	5,990.0	5,713.6	22.1	32.7	-138.96	-4,863.0	2,493.7	6,138.3	6,089.7	48.61	126.270	
5,905.5	5,810.2	5,990.0	5,713.6	22.1	32.7	-138.97	-4,863.0	2,493.7	6,139.0	6,090.4	48.63	126.250	
6,000.0	5,903.9	6,065.3	5,788.9	22.3	32.8	-139.18	-4,863.7	2,494.9	6,149.9	6,101.0	48.90	125.771	
6,003.9	5,907.8	6,068.9	5,792.5	22.4	32.8	-139.19	-4,863.7	2,494.9	6,150.3	6,101.4	48.91	125.752	
6,100.0	6,003.4	6,164.3	5,887.8	22.6	32.8	-139.36	-4,864.9	2,496.1	6,159.0	6,109.8	49.17	125.259	
6,102.3	6,005.7	6,166.8	5,890.4	22.6	32.9	-139.36	-4,864.9	2,496.1	6,159.2	6,110.0	49.18	125.248	
6,200.0	6,103.2	6,268.6	5,992.1	22.7	32.9	-139.49	-4,865.8	2,497.7	6,165.4	6,115.9	49.42	124.750	
6,200.8	6,104.0	6,269.4	5,992.9	22.7	32.9	-139.49	-4,865.8	2,497.7	6,165.4	6,116.0	49.42	124.746	
6,299.2	6,202.3	6,369.3	6,092.8	22.9	33.0	-139.56	-4,866.9	2,499.0	6,169.0	6,119.4	49.64	124.268	
6,300.0	6,203.1	6,370.1	6,093.7	22.9	33.0	-139.56	-4,866.9	2,499.0	6,169.1	6,119.4	49.64	124.263	
6,329.4	6,232.5	6,419.7	6,143.3	22.9	33.1	146.26	-4,867.5	2,499.4	6,169.6	6,119.9	49.66	124.242	
6,397.6	6,300.8	6,520.8	6,244.3	23.0	33.2	146.26	-4,868.0	2,500.3	6,170.2	6,120.3	49.85	123.784	
6,400.0	6,303.1	6,522.6	6,246.1	23.0	33.2	146.26	-4,868.0	2,500.3	6,170.2	6,120.3	49.85	123.771	
6,449.4	6,352.5	6,561.5	6,285.0	23.1	33.2	146.26	-4,868.1	2,500.7	6,170.6	6,120.6	49.96	123.501	
6,496.0	6,399.2	6,598.3	6,321.8	23.1	33.3	-34.00	-4,868.3	2,501.0	6,169.8	6,119.8	50.02	123.343	
6,500.0	6,403.1	6,601.4	6,324.9	23.1	33.3	-34.01	-4,868.4	2,501.0	6,169.6	6,119.6	50.01	123.364	
6,550.0	6,452.8	6,647.3	6,370.8	23.1	33.3	-34.20	-4,868.7	2,501.4	6,165.8	6,116.0	49.77	123.888	
6,594.5	6,496.6	6,708.7	6,432.2	23.2	33.4	-34.53	-4,869.2	2,501.7	6,159.9	6,110.6	49.38	124.737	
6,600.0	6,502.0	6,716.2	6,439.7	23.2	33.4	-34.58	-4,869.3	2,501.8	6,159.0	6,109.7	49.32	124.872	
6,650.0	6,550.5	6,779.0	6,502.5	23.2	33.4	-35.11	-4,869.7	2,501.9	6,149.3	6,100.6	48.66	126.361	
6,692.9	6,591.4	6,823.8	6,547.3	23.2	33.5	-35.69	-4,869.9	2,502.0	6,138.7	6,090.8	47.94	128.044	
6,700.0	6,598.0	6,831.2	6,554.6	23.2	33.5	-35.80	-4,869.9	2,502.0	6,136.7	6,088.9	47.81	128.361	
6,750.0	6,644.4	6,881.9	6,605.4	23.2	33.5	-36.68	-4,870.0	2,502.4	6,121.4	6,074.7	46.78	130.862	
6,791.3	6,681.6	6,927.9	6,651.4	23.2	33.6	-37.56	-4,869.9	2,502.8	6,106.8	6,061.0	45.82	133.282	
6,800.0	6,689.3	6,937.6	6,661.1	23.2	33.6	-37.76	-4,869.9	2,502.8	6,103.5	6,057.9	45.60	133.837	
6,850.0	6,732.6	6,992.0	6,715.5	23.2	33.6	-39.06	-4,869.7	2,503.3	6,082.9	6,038.6	44.31	137.274	
6,889.7	6,765.7	7,027.4	6,750.9	23.2	33.7	-40.24	-4,869.6	2,503.5	6,064.8	6,021.6	43.23	140.301	
6,900.0	6,774.0	7,034.0	6,757.5	23.2	33.7	-40.55	-4,869.6	2,503.6	6,059.9	6,017.0	42.94	141.131	
6,950.0	6,813.3	7,065.2	6,788.7	23.2	33.7	-42.24	-4,869.4	2,503.8	6,034.6	5,993.1	41.53	145.310	
6,988.2	6,841.9	7,087.9	6,811.4	23.2	33.7	-43.71	-4,869.3	2,504.1	6,013.9	5,973.5	40.47	148.607	
7,000.0	6,850.5	7,094.7	6,818.2	23.2	33.7	-44.19	-4,869.3	2,504.1	6,007.3	5,967.1	40.14	149.656	
7,050.0	6,885.2	7,122.3	6,845.8	23.2	33.8	-46.42	-4,869.2	2,504.5	5,978.0	5,939.2	38.83	153.947	
7,086.6	6,908.9	7,145.0	6,868.5	23.2	33.8	-48.26	-4,869.2	2,504.7	5,955.4	5,917.4	37.97	156.831	
7,100.0	6,917.3	7,148.8	6,872.3	23.2	33.8	-48.95	-4,869.1	2,504.8	5,946.9	5,909.2	37.67	157.885	
7,150.0	6,946.6	7,180.4	6,903.9	23.2	33.8	-51.88	-4,869.1	2,505.2	5,914.1	5,877.4	36.72	161.080	
7,185.0	6,965.5	7,200.8	6,924.3	23.3	33.8	-54.15	-4,869.0	2,505.4	5,890.3	5,854.1	36.19	162.768	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,200.0	6,973.1	7,209.0	6,932.5	23.3	33.8	-55.17	-4,869.0	2,505.5	5,879.9	5,843.9	36.03	163.209	
7,250.0	6,996.5	7,234.3	6,957.8	23.3	33.9	-58.83	-4,868.9	2,505.8	5,844.3	5,808.7	35.63	164.026	
7,283.4	7,010.4	7,249.3	6,972.8	23.4	33.9	-61.49	-4,868.9	2,506.0	5,819.8	5,784.3	35.53	163.791	
7,300.0	7,016.8	7,256.2	6,979.7	23.4	33.9	-62.87	-4,868.9	2,506.0	5,807.6	5,772.1	35.53	163.469	
7,350.0	7,033.8	7,274.0	6,997.5	23.5	33.9	-67.25	-4,868.9	2,506.2	5,769.9	5,734.2	35.68	161.714	
7,381.9	7,043.0	7,282.7	7,006.2	23.6	33.9	-70.20	-4,868.9	2,506.3	5,745.5	5,709.6	35.88	160.110	
7,400.0	7,047.6	7,286.9	7,010.3	23.6	33.9	-71.92	-4,868.9	2,506.3	5,731.5	5,695.5	36.02	159.115	
7,450.0	7,057.9	7,296.1	7,019.6	23.8	33.9	-76.83	-4,868.8	2,506.4	5,692.6	5,656.1	36.47	156.082	
7,480.3	7,062.5	7,300.2	7,023.6	23.9	33.9	-79.90	-4,868.8	2,506.4	5,668.9	5,632.1	36.77	154.175	
7,500.0	7,064.8	7,302.2	7,025.7	24.0	33.9	-81.91	-4,868.8	2,506.5	5,653.4	5,616.4	36.95	152.985	
7,550.0	7,068.3	7,305.2	7,028.7	24.2	33.9	-87.05	-4,868.8	2,506.5	5,614.0	5,576.6	37.41	150.071	
7,578.7	7,068.7	7,305.5	7,029.0	24.4	33.9	-89.99	-4,868.8	2,506.5	5,591.3	5,553.7	37.65	148.513	
7,578.9	7,068.7	7,305.5	7,029.0	24.4	33.9	-90.01	-4,868.8	2,506.5	5,591.2	5,553.6	37.65	148.506	
7,600.0	7,068.6	7,305.3	7,028.8	24.5	33.9	-90.00	-4,868.8	2,506.5	5,574.6	5,536.8	37.86	147.251	
7,677.1	7,068.1	7,304.7	7,028.2	25.1	33.9	-89.99	-4,868.8	2,506.5	5,514.3	5,475.7	38.60	142.863	
7,700.0	7,067.9	7,304.5	7,028.0	25.2	33.9	-89.99	-4,868.8	2,506.5	5,496.5	5,457.6	38.82	141.598	
7,775.6	7,067.4	7,304.0	7,027.4	25.9	33.9	-89.98	-4,868.8	2,506.5	5,437.9	5,398.2	39.63	137.207	
7,800.0	7,067.3	7,303.8	7,027.2	26.1	33.9	-89.98	-4,868.8	2,506.5	5,419.0	5,379.1	39.90	135.829	
7,874.0	7,066.8	7,303.2	7,026.7	26.8	33.9	-89.97	-4,868.8	2,506.5	5,362.2	5,321.3	40.84	131.298	
7,900.0	7,066.7	7,303.0	7,026.5	27.0	33.9	-89.97	-4,868.8	2,506.5	5,342.3	5,301.1	41.17	129.758	
7,972.4	7,066.2	7,302.4	7,025.9	27.8	33.9	-89.96	-4,868.8	2,506.5	5,287.2	5,245.1	42.16	125.418	
8,000.0	7,066.0	7,302.2	7,025.7	28.1	33.9	-89.95	-4,868.8	2,506.5	5,266.4	5,223.8	42.53	123.821	
8,070.8	7,065.6	7,301.7	7,025.2	28.9	33.9	-89.94	-4,868.8	2,506.5	5,213.1	5,169.5	43.55	119.710	
8,100.0	7,065.4	7,301.5	7,024.9	29.3	33.9	-89.94	-4,868.8	2,506.4	5,191.3	5,147.3	43.97	118.076	
8,169.3	7,065.0	7,300.9	7,024.4	30.2	33.9	-89.93	-4,868.8	2,506.4	5,139.7	5,094.7	45.00	114.216	
8,200.0	7,064.8	7,300.7	7,024.2	30.6	33.9	-89.93	-4,868.8	2,506.4	5,117.0	5,071.5	45.46	112.563	
8,267.7	7,064.4	7,300.2	7,023.7	31.5	33.9	-89.92	-4,868.8	2,506.4	5,067.2	5,020.7	46.50	108.962	
8,300.0	7,064.2	7,300.0	7,023.4	31.9	33.9	-89.92	-4,868.8	2,506.4	5,043.6	4,996.6	47.00	107.304	
8,366.1	7,063.7	7,299.5	7,022.9	32.8	33.9	-89.91	-4,868.8	2,506.4	4,995.6	4,947.6	48.05	103.960	
8,400.0	7,063.5	7,299.2	7,022.7	33.3	33.9	-89.90	-4,868.8	2,506.4	4,971.2	4,922.6	48.59	102.307	
8,464.5	7,063.1	7,298.7	7,022.2	34.2	33.9	-89.89	-4,868.8	2,506.4	4,925.0	4,875.3	49.64	99.214	
8,500.0	7,062.9	7,298.5	7,021.9	34.8	33.9	-89.89	-4,868.8	2,506.4	4,899.7	4,849.5	50.22	97.575	
8,563.0	7,062.5	7,298.0	7,021.5	35.7	33.9	-89.88	-4,868.8	2,506.4	4,855.2	4,804.0	51.26	94.722	
8,600.0	7,062.3	7,297.7	7,021.2	36.3	33.9	-89.88	-4,868.8	2,506.4	4,829.3	4,777.4	51.87	93.102	
8,661.4	7,061.9	7,297.3	7,020.8	37.2	33.9	-89.87	-4,868.8	2,506.4	4,786.5	4,733.6	52.90	90.476	
8,700.0	7,061.6	7,297.0	7,020.5	37.8	33.9	-89.87	-4,868.8	2,506.4	4,759.9	4,706.3	53.55	88.881	
8,759.8	7,061.3	7,296.6	7,020.0	38.8	33.9	-89.86	-4,868.8	2,506.4	4,718.9	4,664.3	54.57	86.468	
8,800.0	7,061.0	7,296.3	7,019.7	39.4	33.9	-89.85	-4,868.8	2,506.4	4,691.6	4,636.3	55.26	84.902	
8,858.2	7,060.6	7,295.8	7,019.3	40.3	33.9	-89.85	-4,868.8	2,506.4	4,652.3	4,596.1	56.26	82.688	
8,900.0	7,060.4	7,295.5	7,019.0	41.0	33.9	-89.84	-4,868.8	2,506.4	4,624.5	4,567.5	56.98	81.153	
8,956.7	7,060.0	7,295.1	7,018.6	41.9	33.9	-89.84	-4,868.8	2,506.4	4,586.9	4,529.0	57.97	79.123	
9,000.0	7,059.8	7,294.8	7,018.3	42.6	33.9	-89.83	-4,868.8	2,506.4	4,558.5	4,499.8	58.73	77.621	
9,055.1	7,059.4	7,294.4	7,017.9	43.6	33.9	-89.82	-4,868.8	2,506.4	4,522.7	4,463.0	59.70	75.762	
9,100.0	7,059.1	7,294.1	7,017.6	44.3	33.9	-89.82	-4,868.8	2,506.4	4,493.8	4,433.4	60.49	74.295	
9,153.5	7,058.8	7,293.7	7,017.2	45.2	33.9	-89.81	-4,868.8	2,506.4	4,459.8	4,398.3	61.43	72.594	
9,200.0	7,058.5	7,293.4	7,016.9	46.0	33.9	-89.81	-4,868.8	2,506.4	4,430.5	4,368.2	62.26	71.163	
9,251.9	7,058.2	7,293.0	7,016.5	46.9	33.9	-89.80	-4,868.8	2,506.4	4,398.1	4,334.9	63.18	69.607	
9,300.0	7,057.9	7,292.7	7,016.1	47.7	33.9	-89.79	-4,868.8	2,506.4	4,368.5	4,304.5	64.04	68.213	
9,350.4	7,057.6	7,292.3	7,015.8	48.6	33.9	-89.79	-4,868.8	2,506.4	4,337.8	4,272.9	64.95	66.791	
9,400.0	7,057.2	7,292.0	7,015.4	49.4	33.9	-89.78	-4,868.8	2,506.4	4,307.9	4,242.1	65.84	65.434	
9,448.8	7,056.9	7,291.6	7,015.1	50.3	33.9	-89.78	-4,868.8	2,506.3	4,278.9	4,212.2	66.72	64.136	
9,500.0	7,056.6	7,291.3	7,014.7	51.1	33.9	-89.77	-4,868.8	2,506.3	4,248.9	4,181.2	67.64	62.816	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,547.2	7,056.3	7,290.9	7,014.4	52.0	33.9	-89.77	-4,868.8	2,506.3	4,221.5	4,153.0	68.50	61.631	
9,600.0	7,056.0	7,290.6	7,014.0	52.9	33.9	-89.76	-4,868.8	2,506.3	4,191.3	4,121.9	69.45	60.348	
9,645.6	7,055.7	7,290.2	7,013.7	53.7	33.9	-89.75	-4,868.8	2,506.3	4,165.6	4,095.3	70.28	59.269	
9,700.0	7,055.4	7,289.9	7,013.3	54.6	33.9	-89.75	-4,868.8	2,506.3	4,135.4	4,064.2	71.27	58.023	
9,744.1	7,055.1	7,289.6	7,013.0	55.4	33.9	-89.74	-4,868.9	2,506.3	4,111.3	4,039.3	72.08	57.041	
9,800.0	7,054.7	7,289.2	7,012.7	56.4	33.9	-89.74	-4,868.9	2,506.3	4,081.2	4,008.1	73.10	55.832	
9,842.5	7,054.5	7,288.9	7,012.4	57.2	33.9	-89.73	-4,868.9	2,506.3	4,058.7	3,984.8	73.88	54.938	
9,900.0	7,054.1	7,288.5	7,012.0	58.2	33.9	-89.72	-4,868.9	2,506.3	4,028.8	3,953.8	74.93	53.766	
9,940.9	7,053.8	7,288.2	7,011.7	58.9	33.9	-89.72	-4,868.9	2,506.3	4,007.8	3,932.1	75.68	52.955	
10,000.0	7,053.5	7,287.8	7,011.3	60.0	33.9	-89.71	-4,868.9	2,506.3	3,978.1	3,901.4	76.77	51.819	
10,039.3	7,053.2	7,287.5	7,011.0	60.7	33.9	-89.71	-4,868.9	2,506.3	3,958.7	3,881.2	77.49	51.084	
10,100.0	7,052.8	7,287.1	7,010.6	61.8	33.9	-89.70	-4,868.9	2,506.3	3,929.4	3,850.8	78.61	49.984	
10,137.8	7,052.6	7,286.9	7,010.4	62.4	33.9	-89.70	-4,868.9	2,506.3	3,911.5	3,832.2	79.31	49.318	
10,200.0	7,052.2	7,286.5	7,009.9	63.6	33.9	-89.69	-4,868.9	2,506.3	3,882.6	3,802.1	80.46	48.255	
10,236.2	7,052.0	7,286.2	7,009.7	64.2	33.9	-89.69	-4,868.9	2,506.3	3,866.2	3,785.0	81.13	47.653	
10,300.0	7,051.6	7,285.8	7,009.3	65.4	33.9	-89.68	-4,868.9	2,506.3	3,837.9	3,755.5	82.31	46.625	
10,334.6	7,051.4	7,285.6	7,009.0	66.0	33.9	-89.68	-4,868.9	2,506.3	3,822.8	3,739.9	82.96	46.083	
10,400.0	7,051.0	7,285.1	7,008.6	67.2	33.9	-89.67	-4,868.9	2,506.3	3,795.2	3,711.0	84.17	45.091	
10,433.0	7,050.7	7,274.0	6,997.5	67.8	33.9	-89.48	-4,868.9	2,506.2	3,781.6	3,696.8	84.77	44.612	
10,500.0	7,050.3	7,274.0	6,997.5	69.0	33.9	-89.48	-4,868.9	2,506.2	3,754.8	3,668.8	86.01	43.654	
10,531.5	7,050.1	7,274.0	6,997.5	69.6	33.9	-89.48	-4,868.9	2,506.2	3,742.5	3,655.9	86.60	43.217	
10,600.0	7,049.7	7,274.0	6,997.5	70.8	33.9	-89.48	-4,868.9	2,506.2	3,716.6	3,628.7	87.88	42.294	
10,629.9	7,049.5	7,274.0	6,997.5	71.4	33.9	-89.48	-4,868.9	2,506.2	3,705.6	3,617.1	88.43	41.902	
10,700.0	7,049.1	7,274.0	6,997.5	72.7	33.9	-89.48	-4,868.9	2,506.2	3,680.7	3,590.9	89.74	41.014	
10,728.3	7,048.9	7,274.0	6,997.5	73.2	33.9	-89.48	-4,868.9	2,506.2	3,670.9	3,580.7	90.27	40.666	
10,800.0	7,048.4	7,274.0	6,997.5	74.5	33.9	-89.48	-4,868.9	2,506.2	3,647.2	3,555.6	91.61	39.811	
10,826.7	7,048.3	7,274.0	6,997.5	75.0	33.9	-89.48	-4,868.9	2,506.2	3,638.6	3,546.5	92.11	39.502	
10,900.0	7,047.8	7,274.0	6,997.5	76.3	33.9	-89.48	-4,868.9	2,506.2	3,616.1	3,522.6	93.48	38.682	
10,925.2	7,047.7	7,274.0	6,997.5	76.8	33.9	-89.48	-4,868.9	2,506.2	3,608.7	3,514.8	93.95	38.409	
11,000.0	7,047.2	7,274.0	6,997.5	78.2	33.9	-89.48	-4,868.9	2,506.2	3,587.6	3,492.2	95.36	37.623	
11,023.6	7,047.0	7,274.0	6,997.5	78.6	33.9	-89.48	-4,868.9	2,506.2	3,581.2	3,485.4	95.80	37.383	
11,100.0	7,046.6	7,274.0	6,997.5	80.0	33.9	-89.48	-4,868.9	2,506.2	3,561.7	3,464.4	97.23	36.630	
11,122.0	7,046.4	7,274.0	6,997.5	80.4	33.9	-89.48	-4,868.9	2,506.2	3,556.3	3,458.7	97.65	36.420	
11,200.0	7,045.9	7,274.0	6,997.5	81.9	33.9	-89.48	-4,868.9	2,506.2	3,538.4	3,439.2	99.11	35.701	
11,220.4	7,045.8	7,274.0	6,997.5	82.3	33.9	-89.48	-4,868.9	2,506.2	3,533.9	3,434.4	99.50	35.518	
11,300.0	7,045.3	7,274.0	6,997.5	83.7	33.9	-89.48	-4,868.9	2,506.2	3,517.7	3,416.7	100.99	34.832	
11,318.9	7,045.2	7,274.0	6,997.5	84.1	33.9	-89.48	-4,868.9	2,506.2	3,514.1	3,412.8	101.35	34.674	
11,400.0	7,044.7	7,274.0	6,997.5	85.6	33.9	-89.48	-4,868.9	2,506.2	3,499.9	3,397.0	102.87	34.021	
11,417.3	7,044.6	7,274.0	6,997.5	85.9	33.9	-89.48	-4,868.9	2,506.2	3,497.0	3,393.8	103.20	33.886	
11,500.0	7,044.0	7,274.0	6,997.5	87.5	33.9	-89.48	-4,868.9	2,506.2	3,484.8	3,380.0	104.76	33.265	
11,515.7	7,043.9	7,274.0	6,997.5	87.7	33.9	-89.48	-4,868.9	2,506.2	3,482.6	3,377.6	105.05	33.151	
11,600.0	7,043.4	7,274.0	6,997.5	89.3	33.9	-89.48	-4,868.9	2,506.2	3,472.5	3,365.8	106.64	32.562	
11,614.1	7,043.3	7,274.0	6,997.5	89.6	33.9	-89.48	-4,868.9	2,506.2	3,471.0	3,364.0	106.91	32.466	
11,700.0	7,042.8	7,274.0	6,997.5	91.2	33.9	-89.48	-4,868.9	2,506.2	3,463.0	3,354.5	108.53	31.908	
11,712.6	7,042.7	7,274.0	6,997.5	91.4	33.9	-89.48	-4,868.9	2,506.2	3,462.0	3,353.3	108.77	31.830	
11,800.0	7,042.2	7,274.0	6,997.5	93.0	33.9	-89.48	-4,868.9	2,506.2	3,456.5	3,346.0	110.42	31.303	
11,811.0	7,042.1	7,274.0	6,997.5	93.2	33.9	-89.48	-4,868.9	2,506.2	3,455.9	3,345.3	110.63	31.240	
11,900.0	7,041.5	7,274.0	6,997.5	94.9	33.9	-89.48	-4,868.9	2,506.2	3,452.8	3,340.5	112.31	30.744	
11,909.4	7,041.5	7,274.0	6,997.5	95.1	33.9	-89.48	-4,868.9	2,506.2	3,452.6	3,340.1	112.49	30.693	
11,977.4	7,041.0	7,274.0	6,997.5	96.4	33.9	-89.48	-4,868.9	2,506.2	3,451.9	3,338.1	113.77	30.341 CC	
12,000.0	7,040.9	7,274.0	6,997.5	96.8	33.9	-89.48	-4,868.9	2,506.2	3,452.0	3,337.8	114.20	30.228	
12,007.8	7,040.8	7,274.0	6,997.5	96.9	33.9	-89.48	-4,868.9	2,506.2	3,452.0	3,337.7	114.35	30.189 ES	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
12,100.0	7,040.3	7,274.0	6,997.5	98.7	33.9	-89.48	-4,868.9	2,506.2	3,454.1	3,338.0	116.09	29.754	
12,106.3	7,040.2	7,274.0	6,997.5	98.8	33.9	-89.48	-4,868.9	2,506.2	3,454.3	3,338.1	116.21	29.725	
12,200.0	7,039.6	7,273.6	6,997.0	100.5	33.9	-89.48	-4,868.9	2,506.2	3,459.1	3,341.1	117.98	29.319	
12,204.7	7,039.6	7,273.5	6,997.0	100.6	33.9	-89.48	-4,868.9	2,506.2	3,459.4	3,341.3	118.07	29.299	
12,300.0	7,039.0	7,272.7	6,996.1	102.4	33.9	-89.46	-4,868.9	2,506.2	3,466.9	3,347.1	119.87	28.922	
12,303.1	7,039.0	7,272.6	6,996.1	102.5	33.9	-89.46	-4,868.9	2,506.2	3,467.2	3,347.3	119.93	28.910	
12,400.0	7,038.4	7,271.8	6,995.2	104.3	33.9	-89.45	-4,868.9	2,506.2	3,477.7	3,355.9	121.77	28.560	
12,401.5	7,038.4	7,271.8	6,995.2	104.3	33.9	-89.45	-4,868.9	2,506.2	3,477.9	3,356.1	121.80	28.555	
12,500.0	7,037.8	7,270.9	6,994.3	106.2	33.9	-89.43	-4,868.9	2,506.2	3,491.2	3,367.6	123.66	28.232	
12,598.4	7,037.1	7,270.0	6,993.5	108.0	33.9	-89.42	-4,868.9	2,506.1	3,507.3	3,381.8	125.53	27.941	
12,600.0	7,037.1	7,270.0	6,993.4	108.0	33.9	-89.42	-4,868.9	2,506.1	3,507.6	3,382.0	125.56	27.936	
12,696.8	7,036.5	7,269.1	6,992.6	109.9	33.9	-89.40	-4,868.9	2,506.1	3,526.1	3,398.7	127.39	27.679	
12,700.0	7,036.5	7,269.1	6,992.5	109.9	33.9	-89.40	-4,868.9	2,506.1	3,526.7	3,399.3	127.45	27.671	
12,795.2	7,035.9	7,268.2	6,991.7	111.7	33.9	-89.39	-4,868.9	2,506.1	3,547.5	3,418.2	129.26	27.445	
12,800.0	7,035.9	7,268.2	6,991.6	111.8	33.9	-89.39	-4,868.9	2,506.1	3,548.6	3,419.2	129.35	27.434	
12,893.7	7,035.3	7,267.3	6,990.8	113.6	33.9	-89.37	-4,868.9	2,506.1	3,571.4	3,440.3	131.13	27.237	
12,900.0	7,035.2	7,267.3	6,990.7	113.7	33.9	-89.37	-4,868.9	2,506.1	3,573.1	3,441.8	131.25	27.224	
12,992.1	7,034.7	7,266.4	6,989.9	115.4	33.9	-89.36	-4,868.9	2,506.1	3,598.0	3,465.0	132.99	27.053	
13,000.0	7,034.6	7,266.3	6,989.8	115.6	33.9	-89.36	-4,868.9	2,506.1	3,600.2	3,467.0	133.14	27.040	
13,090.5	7,034.0	7,265.5	6,989.0	117.3	33.9	-89.34	-4,868.9	2,506.1	3,626.9	3,492.1	134.86	26.894	
13,100.0	7,034.0	7,265.4	6,988.9	117.5	33.9	-89.34	-4,868.9	2,506.1	3,629.9	3,494.8	135.04	26.879	
13,188.9	7,033.4	7,264.6	6,988.1	119.1	33.9	-89.33	-4,868.9	2,506.1	3,658.4	3,521.6	136.73	26.756	
13,200.0	7,033.4	7,264.5	6,988.0	119.3	33.9	-89.33	-4,868.9	2,506.1	3,662.0	3,525.1	136.94	26.741	
13,287.4	7,032.8	7,263.7	6,987.2	121.0	33.9	-89.31	-4,868.9	2,506.1	3,692.1	3,553.5	138.60	26.638	
13,300.0	7,032.7	7,263.6	6,987.1	121.2	33.9	-89.31	-4,868.9	2,506.1	3,696.6	3,557.8	138.84	26.625	
13,385.8	7,032.2	7,262.8	6,986.3	122.9	33.9	-89.30	-4,868.9	2,506.1	3,728.2	3,587.7	140.47	26.540	
13,400.0	7,032.1	7,262.7	6,986.2	123.1	33.9	-89.30	-4,868.9	2,506.1	3,733.6	3,592.8	140.74	26.528	
13,484.2	7,031.6	7,261.9	6,985.4	124.7	33.9	-89.28	-4,868.9	2,506.1	3,766.5	3,624.1	142.34	26.460	
13,500.0	7,031.5	7,261.8	6,985.2	125.0	33.9	-89.28	-4,868.9	2,506.1	3,772.8	3,630.2	142.64	26.449	
13,582.6	7,030.9	7,261.0	6,984.5	126.6	33.9	-89.27	-4,868.9	2,506.1	3,806.9	3,662.7	144.21	26.397	
13,600.0	7,030.8	7,260.8	6,984.3	126.9	33.9	-89.27	-4,868.9	2,506.1	3,814.3	3,669.7	144.54	26.388	
13,681.1	7,030.3	7,260.1	6,983.6	128.4	33.9	-89.25	-4,868.9	2,506.1	3,849.4	3,703.4	146.09	26.350	
13,700.0	7,030.2	7,259.9	6,983.4	128.8	33.9	-89.25	-4,868.9	2,506.1	3,857.9	3,711.4	146.45	26.343	
13,779.5	7,029.7	7,259.2	6,982.6	130.3	33.9	-89.24	-4,868.9	2,506.1	3,894.0	3,746.0	147.96	26.318	
13,800.0	7,029.6	7,259.0	6,982.4	130.7	33.9	-89.23	-4,868.9	2,506.0	3,903.5	3,755.2	148.35	26.313	
13,877.9	7,029.1	7,258.2	6,981.7	132.2	33.9	-89.22	-4,868.9	2,506.0	3,940.5	3,790.7	149.83	26.300	
13,900.0	7,029.0	7,258.0	6,981.5	132.6	33.9	-89.22	-4,868.9	2,506.0	3,951.2	3,801.0	150.25	26.297	
13,976.3	7,028.5	7,257.3	6,980.8	134.0	33.9	-89.21	-4,868.9	2,506.0	3,988.9	3,837.2	151.70	26.294 SF	
14,000.0	7,028.3	7,257.1	6,980.6	134.5	33.9	-89.20	-4,868.9	2,506.0	4,000.8	3,848.7	152.15	26.294	
14,074.8	7,027.9	7,256.4	6,979.9	135.9	33.9	-89.19	-4,868.9	2,506.0	4,039.1	3,885.6	153.58	26.300	
14,100.0	7,027.7	7,256.2	6,979.6	136.4	33.9	-89.19	-4,868.9	2,506.0	4,052.3	3,898.2	154.06	26.304	
14,173.2	7,027.2	7,255.5	6,978.9	137.8	33.9	-89.18	-4,868.9	2,506.0	4,091.1	3,935.7	155.45	26.318	
14,200.0	7,027.1	7,255.2	6,978.7	138.3	33.9	-89.17	-4,868.9	2,506.0	4,105.6	3,949.6	155.96	26.324	
14,210.5	7,027.0	7,255.1	6,978.6	138.5	33.9	-89.17	-4,868.9	2,506.0	4,111.3	3,955.1	156.16	26.327	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	170.47	-5,114.8	859.0	5,186.5				
98.4	98.4	81.9	81.9	0.1	0.1	170.47	-5,114.9	858.9	5,186.5	5,186.3	0.18	N/A	
100.0	100.0	83.4	83.4	0.1	0.1	170.47	-5,114.9	858.9	5,186.5	5,186.3	0.18	N/A	
196.8	196.8	175.6	175.6	0.3	0.2	170.47	-5,115.0	858.7	5,186.6	5,186.1	0.50	N/A	
200.0	200.0	178.6	178.6	0.3	0.2	170.47	-5,115.1	858.6	5,186.6	5,186.1	0.51	N/A	
295.3	295.3	269.4	269.4	0.5	0.3	170.48	-5,115.3	858.2	5,186.8	5,186.0	0.81	6,378.460	
300.0	300.0	273.9	273.9	0.5	0.3	170.48	-5,115.3	858.2	5,186.8	5,186.0	0.83	6,261.061	
393.7	393.7	363.2	363.2	0.8	0.4	170.48	-5,115.7	857.6	5,187.1	5,186.0	1.13	4,586.988	
400.0	400.0	369.2	369.2	0.8	0.4	170.48	-5,115.7	857.6	5,187.2	5,186.0	1.15	4,505.989	
492.1	492.1	456.9	456.9	1.0	0.5	170.49	-5,116.2	856.9	5,187.5	5,186.1	1.45	3,581.330	
500.0	500.0	464.4	464.4	1.0	0.5	170.49	-5,116.3	856.8	5,187.6	5,186.1	1.47	3,519.599	
590.5	590.5	550.7	550.7	1.2	0.6	170.50	-5,116.8	855.9	5,188.0	5,186.2	1.77	2,937.479	
600.0	600.0	559.7	559.7	1.2	0.6	170.51	-5,116.9	855.8	5,188.0	5,186.2	1.80	2,887.644	
689.0	689.0	644.4	644.4	1.4	0.7	170.52	-5,117.6	854.8	5,188.6	5,186.5	2.08	2,489.973	
700.0	700.0	654.9	654.9	1.4	0.7	170.52	-5,117.7	854.6	5,188.6	5,186.5	2.12	2,448.203	
787.4	787.4	726.0	726.0	1.6	0.8	170.53	-5,118.3	853.6	5,189.2	5,186.8	2.39	2,172.217	
800.0	800.0	726.0	726.0	1.7	0.8	170.53	-5,118.3	853.6	5,189.4	5,186.9	2.42	2,146.823	
885.8	885.8	796.8	796.7	1.9	0.9	170.54	-5,119.1	853.2	5,190.3	5,187.6	2.75	1,884.780	
900.0	900.0	805.8	805.8	1.9	0.9	170.54	-5,119.3	853.2	5,190.5	5,187.7	2.80	1,851.130	
984.2	984.2	854.0	853.9	2.1	1.0	170.53	-5,120.1	853.7	5,192.1	5,189.0	3.09	1,679.669	
1,000.0	1,000.0	854.0	853.9	2.1	1.0	170.53	-5,120.1	853.7	5,192.5	5,189.4	3.13	1,660.773	
1,082.7	1,082.7	904.5	904.4	2.3	1.1	170.52	-5,121.2	855.0	5,194.8	5,191.4	3.41	1,521.306	
1,100.0	1,100.0	912.6	912.5	2.3	1.1	170.52	-5,121.5	855.3	5,195.3	5,191.9	3.47	1,497.143	
1,181.1	1,181.1	983.0	982.8	2.5	1.3	-115.30	-5,123.8	859.0	5,199.1	5,195.3	3.78	1,374.093	
1,200.0	1,200.0	983.0	982.8	2.6	1.3	-115.28	-5,123.8	859.0	5,200.1	5,196.2	3.82	1,359.567	
1,279.5	1,279.4	983.0	982.8	2.7	1.3	-115.18	-5,123.8	859.0	5,205.5	5,201.5	4.00	1,302.987	
1,300.0	1,299.8	983.0	982.8	2.8	1.3	-115.15	-5,123.8	859.0	5,207.2	5,203.2	4.04	1,289.297	
1,377.9	1,377.5	1,037.9	1,037.5	2.9	1.4	-115.10	-5,126.2	863.0	5,214.4	5,210.1	4.34	1,202.564	
1,400.0	1,399.5	1,047.3	1,046.8	3.0	1.4	-115.07	-5,126.7	863.7	5,216.8	5,212.4	4.41	1,183.827	
1,476.4	1,475.3	1,111.0	1,110.2	3.2	1.6	-115.04	-5,130.5	869.3	5,226.1	5,221.4	4.73	1,104.081	
1,500.0	1,498.7	1,111.0	1,110.2	3.2	1.6	-114.99	-5,130.5	869.3	5,229.2	5,224.4	4.79	1,091.515	
1,574.8	1,572.6	1,111.0	1,110.2	3.4	1.6	-114.79	-5,130.5	869.3	5,239.9	5,234.9	4.99	1,049.797	
1,600.0	1,597.5	1,111.0	1,110.2	3.5	1.6	-114.71	-5,130.5	869.3	5,244.0	5,238.9	5.06	1,036.607	
1,673.2	1,669.4	1,111.0	1,110.2	3.7	1.6	-114.47	-5,130.5	869.3	5,256.9	5,251.6	5.28	995.611	
1,700.2	1,695.8	1,161.1	1,159.9	3.8	1.7	-114.53	-5,134.1	874.4	5,261.4	5,255.9	5.49	958.554	
1,771.6	1,765.7	1,184.7	1,183.2	4.1	1.8	-114.60	-5,136.1	877.0	5,275.2	5,269.4	5.78	911.907	
1,800.0	1,793.4	1,194.0	1,192.5	4.2	1.8	-114.63	-5,137.0	878.1	5,280.9	5,275.0	5.90	894.801	
1,870.1	1,862.0	1,240.0	1,237.9	4.4	1.9	-114.78	-5,141.5	883.7	5,295.4	5,289.1	6.26	845.757	
1,900.0	1,891.2	1,240.0	1,237.9	4.5	1.9	-114.78	-5,141.5	883.7	5,301.6	5,295.2	6.37	832.872	
1,968.5	1,958.3	1,240.0	1,237.9	4.8	1.9	-114.78	-5,141.5	883.7	5,316.5	5,309.8	6.61	803.819	
2,000.0	1,989.1	1,270.0	1,267.4	4.9	2.0	-114.88	-5,144.7	887.8	5,323.4	5,316.6	6.81	781.331	
2,066.9	2,054.5	1,303.6	1,300.5	5.2	2.2	-114.99	-5,148.3	892.7	5,338.6	5,331.4	7.16	745.778	
2,100.0	2,086.9	1,320.1	1,316.7	5.3	2.2	-115.05	-5,150.2	895.2	5,346.2	5,338.9	7.33	729.526	
2,165.3	2,150.8	1,368.0	1,363.6	5.6	2.4	-115.22	-5,155.6	903.1	5,361.6	5,353.9	7.71	695.258	
2,200.0	2,184.7	1,368.0	1,363.6	5.7	2.4	-115.22	-5,155.6	903.1	5,369.9	5,362.1	7.84	684.567	
2,263.8	2,247.1	1,368.0	1,363.6	6.0	2.4	-115.22	-5,155.6	903.1	5,385.7	5,377.6	8.09	665.483	
2,300.0	2,282.5	1,368.0	1,363.6	6.1	2.4	-115.22	-5,155.6	903.1	5,395.0	5,386.7	8.23	655.198	
2,362.2	2,343.3	1,428.0	1,422.2	6.4	2.6	-115.45	-5,163.0	913.9	5,410.6	5,401.9	8.67	623.708	
2,400.0	2,380.3	1,441.6	1,435.4	6.6	2.7	-115.50	-5,164.8	916.5	5,420.5	5,411.6	8.87	611.246	
2,460.6	2,439.6	1,496.0	1,488.2	6.8	2.9	-115.71	-5,172.3	927.3	5,437.0	5,427.7	9.28	585.605	
2,500.0	2,478.1	1,496.0	1,488.2	7.0	2.9	-115.71	-5,172.3	927.3	5,447.5	5,438.1	9.44	576.963	
2,559.0	2,535.9	1,496.0	1,488.2	7.2	2.9	-115.71	-5,172.3	927.3	5,463.9	5,454.2	9.68	564.436	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	1,496.0	1,488.2	7.4	2.9	-115.71	-5,172.3	927.3	5,475.6	5,465.8	9.85	556.142	
2,657.5	2,632.2	1,496.0	1,488.2	7.7	2.9	-115.71	-5,172.3	927.3	5,492.5	5,482.4	10.08	544.899	
2,700.0	2,673.8	1,546.8	1,537.2	7.8	3.2	-115.90	-5,180.0	938.0	5,504.7	5,494.3	10.44	527.249	
2,755.9	2,728.4	1,566.0	1,555.7	8.1	3.3	-115.98	-5,183.1	942.2	5,521.5	5,510.8	10.74	514.114	
2,800.0	2,771.6	1,581.1	1,570.2	8.3	3.3	-116.04	-5,185.5	945.4	5,535.0	5,524.1	10.98	504.304	
2,854.3	2,824.7	1,625.0	1,612.4	8.5	3.6	-116.21	-5,193.1	955.2	5,552.1	5,540.7	11.36	488.796	
2,900.0	2,869.4	1,625.0	1,612.4	8.7	3.6	-116.21	-5,193.1	955.2	5,566.4	5,554.9	11.55	482.077	
2,952.7	2,921.0	1,625.0	1,612.4	8.9	3.6	-116.21	-5,193.1	955.2	5,583.4	5,571.6	11.77	474.575	
3,000.0	2,967.2	1,625.0	1,612.4	9.2	3.6	-116.21	-5,193.1	955.2	5,599.0	5,587.0	11.96	468.119	
3,051.2	3,017.3	1,677.5	1,662.6	9.4	3.9	-116.42	-5,202.6	967.4	5,615.8	5,603.4	12.38	453.525	
3,100.0	3,065.0	1,698.4	1,682.5	9.6	4.0	-116.50	-5,206.4	972.3	5,632.2	5,619.5	12.67	444.601	
3,149.6	3,113.5	1,719.6	1,702.6	9.8	4.1	-116.59	-5,210.4	977.4	5,649.0	5,636.1	12.96	435.957	
3,200.0	3,162.8	1,753.0	1,734.4	10.0	4.3	-116.73	-5,216.8	985.7	5,666.5	5,653.2	13.30	426.089	
3,248.0	3,209.8	1,753.0	1,734.4	10.3	4.3	-116.73	-5,216.8	985.7	5,683.2	5,669.7	13.50	420.999	
3,300.0	3,260.6	1,753.0	1,734.4	10.5	4.3	-116.73	-5,216.8	985.7	5,701.7	5,688.0	13.72	415.688	
3,346.4	3,306.1	1,804.3	1,782.9	10.7	4.6	-116.94	-5,226.9	998.8	5,718.2	5,704.1	14.13	404.632	
3,400.0	3,358.4	1,827.3	1,804.7	10.9	4.8	-117.03	-5,231.5	1,004.9	5,737.6	5,723.1	14.46	396.903	
3,444.9	3,402.3	1,846.5	1,822.7	11.1	4.9	-117.11	-5,235.4	1,010.1	5,754.1	5,739.3	14.73	390.722	
3,500.0	3,456.3	1,882.0	1,856.0	11.4	5.2	-117.27	-5,242.6	1,020.0	5,774.5	5,759.4	15.11	382.206	
3,543.3	3,498.6	1,882.0	1,856.0	11.6	5.2	-117.27	-5,242.6	1,020.0	5,790.8	5,775.5	15.29	378.724	
3,600.0	3,554.1	1,882.0	1,856.0	11.8	5.2	-117.27	-5,242.6	1,020.0	5,812.4	5,796.9	15.53	374.315	
3,641.7	3,594.9	1,924.3	1,895.6	12.0	5.5	-117.45	-5,251.5	1,032.1	5,828.3	5,812.4	15.90	366.475	
3,700.0	3,651.9	1,945.9	1,915.7	12.3	5.6	-117.54	-5,256.2	1,038.4	5,851.0	5,834.7	16.25	360.057	
3,740.1	3,691.2	1,960.8	1,929.6	12.5	5.7	-117.61	-5,259.4	1,042.7	5,866.8	5,850.3	16.49	355.815	
3,800.0	3,749.7	2,010.0	1,975.2	12.7	6.1	-117.82	-5,270.4	1,057.4	5,890.8	5,873.8	16.97	347.177	
3,838.6	3,787.4	2,010.0	1,975.2	12.9	6.1	-117.82	-5,270.4	1,057.4	5,906.2	5,889.0	17.13	344.787	
3,900.0	3,847.5	2,010.0	1,975.2	13.2	6.1	-117.82	-5,270.4	1,057.4	5,931.2	5,913.8	17.39	341.098	
3,937.0	3,883.7	2,010.0	1,975.2	13.3	6.1	-117.82	-5,270.4	1,057.4	5,946.5	5,928.9	17.54	338.938	
4,000.0	3,945.3	2,063.3	2,024.5	13.6	6.5	-118.06	-5,282.6	1,073.9	5,972.5	5,954.4	18.08	330.334	
4,035.4	3,980.0	2,078.2	2,038.2	13.8	6.6	-118.12	-5,286.0	1,078.6	5,987.3	5,969.0	18.30	327.103	
4,100.0	4,043.1	2,105.1	2,062.8	14.1	6.8	-118.24	-5,292.3	1,087.3	6,014.6	5,995.9	18.71	321.462	
4,133.8	4,076.3	2,138.0	2,092.9	14.2	7.1	-118.39	-5,300.0	1,098.2	6,029.1	6,010.1	19.02	317.061	
4,200.0	4,141.0	2,138.0	2,092.9	14.5	7.1	-118.39	-5,300.0	1,098.2	6,057.6	6,038.3	19.29	313.956	
4,232.3	4,172.5	2,138.0	2,092.9	14.7	7.1	-118.39	-5,300.0	1,098.2	6,071.7	6,052.3	19.43	312.482	
4,300.0	4,238.8	2,138.0	2,092.9	15.0	7.1	-118.39	-5,300.0	1,098.2	6,101.7	6,082.0	19.72	309.479	
4,330.7	4,268.8	2,184.6	2,135.2	15.1	7.5	-118.61	-5,311.1	1,114.1	6,115.1	6,095.0	20.10	304.187	
4,400.0	4,336.6	2,205.7	2,154.3	15.4	7.7	-118.71	-5,316.3	1,121.5	6,146.2	6,125.7	20.51	299.659	
4,429.1	4,365.1	2,214.5	2,162.2	15.6	7.8	-118.75	-5,318.5	1,124.6	6,159.4	6,138.7	20.68	297.823	
4,500.0	4,434.4	2,267.0	2,209.4	15.9	8.2	-118.99	-5,331.7	1,143.6	6,192.0	6,170.8	21.26	291.197	
4,527.5	4,461.3	2,267.0	2,209.4	16.0	8.2	-118.99	-5,331.7	1,143.6	6,204.7	6,183.3	21.38	290.206	
4,600.0	4,532.2	2,267.0	2,209.4	16.4	8.2	-118.99	-5,331.7	1,143.6	6,238.4	6,216.7	21.69	287.673	
4,626.0	4,557.6	2,267.0	2,209.4	16.5	8.2	-118.99	-5,331.7	1,143.6	6,250.6	6,228.8	21.80	286.788	
4,700.0	4,630.0	2,267.0	2,209.4	16.8	8.2	-118.99	-5,331.7	1,143.6	6,286.0	6,263.8	22.11	284.336	
4,724.4	4,653.9	2,267.0	2,209.4	16.9	8.2	-118.99	-5,331.7	1,143.6	6,297.8	6,275.5	22.21	283.548	
4,800.0	4,727.8	2,317.5	2,254.4	17.3	8.7	-119.23	-5,345.1	1,162.2	6,334.1	6,311.3	22.82	277.598	
4,822.8	4,750.2	2,323.4	2,259.6	17.4	8.7	-119.26	-5,346.7	1,164.4	6,345.3	6,322.4	22.95	276.517	
4,900.0	4,825.6	2,343.1	2,277.1	17.7	8.9	-119.35	-5,352.1	1,171.7	6,383.4	6,360.0	23.38	272.976	
4,921.2	4,846.4	2,348.5	2,281.9	17.8	9.0	-119.37	-5,353.6	1,173.7	6,393.9	6,370.4	23.50	272.031	
5,000.0	4,923.5	2,395.0	2,322.9	18.2	9.4	-119.59	-5,367.0	1,191.1	6,433.6	6,409.5	24.10	266.993	
5,019.7	4,942.7	2,395.0	2,322.9	18.3	9.4	-119.59	-5,367.0	1,191.1	6,443.5	6,419.4	24.18	266.487	
5,100.0	5,021.3	2,395.0	2,322.9	18.6	9.4	-119.59	-5,367.0	1,191.1	6,484.4	6,459.9	24.52	264.474	
5,118.1	5,039.0	2,404.5	2,331.3	18.7	9.5	-119.63	-5,369.8	1,194.7	6,493.7	6,469.1	24.65	263.466	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	2,466.1	2,385.4	19.1	10.1	-119.92	-5,387.8	1,218.0	6,535.9	6,510.6	25.33	258.019	
5,216.5	5,135.3	2,478.5	2,396.2	19.2	10.2	-119.97	-5,391.4	1,222.8	6,544.5	6,519.0	25.47	256.965	
5,300.0	5,216.9	2,548.6	2,457.7	19.6	10.9	-120.29	-5,411.7	1,249.7	6,587.7	6,561.5	26.20	251.486	
5,314.9	5,231.5	2,564.8	2,471.9	19.6	11.0	-120.37	-5,416.4	1,255.9	6,595.4	6,569.1	26.34	250.370	
5,400.0	5,314.7	2,658.6	2,554.1	20.0	11.9	-120.80	-5,443.1	1,292.2	6,639.4	6,612.2	27.18	244.232	
5,413.4	5,327.8	2,677.3	2,570.5	20.1	12.1	-120.88	-5,448.3	1,299.5	6,646.3	6,619.0	27.34	243.127	
5,500.0	5,412.5	2,780.0	2,660.8	20.5	13.0	-121.34	-5,476.7	1,339.5	6,690.8	6,662.6	28.22	237.114	
5,511.8	5,424.1	2,780.0	2,660.8	20.5	13.0	-121.34	-5,476.7	1,339.5	6,696.9	6,668.6	28.27	236.915	
5,600.0	5,510.3	2,823.4	2,698.9	20.9	13.4	-121.54	-5,488.7	1,356.4	6,742.4	6,713.6	28.87	233.545	
5,610.2	5,520.3	2,827.3	2,702.3	21.0	13.4	-121.56	-5,489.8	1,357.9	6,747.8	6,718.8	28.93	233.215	
5,700.0	5,608.2	2,861.2	2,732.0	21.4	13.8	-121.71	-5,499.3	1,371.3	6,794.7	6,765.2	29.49	230.407	
5,708.6	5,616.6	2,864.5	2,734.8	21.4	13.8	-121.72	-5,500.2	1,372.6	6,799.3	6,769.7	29.54	230.144	
5,729.2	5,636.7	2,872.2	2,741.6	21.5	13.9	-121.76	-5,502.4	1,375.6	6,810.1	6,780.4	29.67	229.526	
5,800.0	5,706.1	2,909.0	2,773.7	21.8	14.2	-122.65	-5,513.0	1,390.2	6,847.2	6,817.3	29.95	228.653	
5,807.1	5,713.1	2,909.0	2,773.7	21.8	14.2	-122.72	-5,513.0	1,390.2	6,850.9	6,821.0	29.95	228.758	
5,900.0	5,804.7	2,961.2	2,819.1	22.1	14.8	-123.86	-5,527.9	1,411.1	6,898.7	6,868.5	30.27	227.880	
5,905.5	5,810.2	2,965.1	2,822.5	22.1	14.8	-123.93	-5,529.0	1,412.7	6,901.5	6,871.2	30.30	227.808	
6,000.0	5,903.9	3,037.0	2,884.8	22.3	15.5	-125.10	-5,549.4	1,442.2	6,948.9	6,918.2	30.69	226.393	
6,003.9	5,907.8	3,037.0	2,884.8	22.4	15.5	-125.14	-5,549.4	1,442.2	6,950.8	6,920.1	30.69	226.465	
6,100.0	6,003.4	3,085.7	2,926.9	22.6	16.1	-126.17	-5,563.1	1,462.6	6,997.6	6,966.6	30.94	226.132	
6,102.3	6,005.7	3,087.0	2,928.0	22.6	16.1	-126.20	-5,563.4	1,463.1	6,998.7	6,967.8	30.95	226.127	
6,200.0	6,103.2	3,138.4	2,972.3	22.7	16.6	-127.20	-5,578.0	1,484.7	7,045.0	7,013.8	31.19	225.897	
6,200.8	6,104.0	3,138.8	2,972.6	22.7	16.6	-127.21	-5,578.1	1,484.9	7,045.3	7,014.2	31.19	225.896	
6,299.2	6,202.3	3,337.7	3,144.7	22.9	18.6	-128.53	-5,634.6	1,567.1	7,090.1	7,057.9	32.16	220.436	
6,300.0	6,203.1	3,339.0	3,145.9	22.9	18.6	-128.54	-5,635.0	1,567.6	7,090.4	7,058.3	32.17	220.405	
6,329.4	6,232.5	3,654.1	3,424.5	22.9	21.4	-126.39	-5,719.7	1,687.7	7,102.1	7,068.6	33.56	211.639	
6,397.6	6,300.8	3,716.0	3,480.0	23.0	22.0	156.28	-5,736.1	1,709.5	7,129.0	7,095.1	33.93	210.112	
6,400.0	6,303.1	3,717.7	3,481.6	23.0	22.0	156.27	-5,736.6	1,710.1	7,129.9	7,096.0	33.94	210.069	
6,449.4	6,352.5	3,754.5	3,514.6	23.1	22.3	156.20	-5,746.2	1,723.4	7,149.4	7,115.2	34.18	209.156	
6,496.0	6,399.2	3,789.5	3,545.9	23.1	22.6	-23.49	-5,755.3	1,736.1	7,166.6	7,131.9	34.68	206.665	
6,500.0	6,403.1	3,792.5	3,548.6	23.1	22.7	-23.45	-5,756.1	1,737.2	7,167.9	7,133.2	34.70	206.540	
6,550.0	6,452.8	3,808.0	3,562.4	23.1	22.8	-22.97	-5,760.1	1,742.9	7,183.3	7,148.4	34.84	206.152	
6,594.5	6,496.6	3,848.3	3,598.3	23.2	23.2	-22.71	-5,770.6	1,757.9	7,194.4	7,159.5	34.94	205.881	
6,600.0	6,502.0	3,851.3	3,601.0	23.2	23.2	-22.68	-5,771.3	1,759.0	7,195.7	7,160.7	34.94	205.968	
6,650.0	6,550.5	3,878.6	3,625.3	23.2	23.5	-22.46	-5,778.5	1,769.2	7,205.1	7,170.3	34.75	207.314	
6,692.9	6,591.4	3,902.1	3,646.1	23.2	23.7	-22.35	-5,784.7	1,778.0	7,210.7	7,176.3	34.45	209.311	
6,700.0	6,598.0	3,905.9	3,649.6	23.2	23.7	-22.34	-5,785.7	1,779.5	7,211.5	7,177.1	34.39	209.724	
6,750.0	6,644.4	3,936.0	3,676.2	23.2	24.0	-22.33	-5,793.7	1,790.8	7,214.8	7,181.0	33.85	213.144	
6,791.3	6,681.6	3,969.9	3,706.3	23.2	24.4	-22.43	-5,802.7	1,803.7	7,215.2	7,181.9	33.31	216.586	
6,800.0	6,689.3	3,978.1	3,713.6	23.2	24.4	-22.46	-5,804.9	1,806.7	7,215.1	7,181.9	33.19	217.386	
6,850.0	6,732.6	4,025.0	3,755.2	23.2	24.9	-22.71	-5,817.6	1,824.1	7,212.1	7,179.7	32.39	222.664	
6,889.7	6,765.7	4,061.8	3,788.0	23.2	25.2	-22.98	-5,827.6	1,837.6	7,207.6	7,175.9	31.65	227.725	
6,900.0	6,774.0	4,064.0	3,789.9	23.2	25.2	-23.04	-5,828.2	1,838.4	7,206.1	7,174.6	31.41	229.386	
6,950.0	6,813.3	4,064.0	3,789.9	23.2	25.2	-23.33	-5,828.2	1,838.4	7,197.0	7,166.9	30.17	238.558	
6,988.2	6,841.9	4,064.0	3,789.9	23.2	25.2	-23.62	-5,828.2	1,838.4	7,188.3	7,159.1	29.17	246.455	
7,000.0	6,850.5	4,064.0	3,789.9	23.2	25.2	-23.72	-5,828.2	1,838.4	7,185.2	7,156.4	28.85	249.092	
7,050.0	6,885.2	4,115.6	3,835.7	23.2	25.7	-24.44	-5,842.5	1,857.4	7,170.2	7,142.5	27.67	259.149	
7,086.6	6,908.9	4,126.7	3,845.5	23.2	25.8	-24.94	-5,845.6	1,861.6	7,157.6	7,130.8	26.71	267.946	
7,100.0	6,917.3	4,130.7	3,849.0	23.2	25.9	-25.15	-5,846.8	1,863.1	7,152.6	7,126.2	26.36	271.366	
7,150.0	6,946.6	4,145.1	3,861.8	23.2	26.0	-25.99	-5,850.9	1,868.5	7,132.3	7,107.2	25.11	284.069	
7,185.0	6,965.5	4,193.0	3,903.8	23.3	26.5	-26.88	-5,864.6	1,886.8	7,116.7	7,092.3	24.43	291.267	
7,200.0	6,973.1	4,193.0	3,903.8	23.3	26.5	-27.18	-5,864.6	1,886.8	7,109.6	7,085.4	24.12	294.756	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design													SE SE SEC. 18 T4N R64W 6th P.M. - NEI C18-23D - Wellbore #1 - Wellbore #1		Offset Site Error:		0.0 usft
Survey Program: 726-MWD													Offset Well Error:		0.0 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
7,250.0	6,996.5	4,193.0	3,903.8	23.3	26.5	-28.29	-5,864.6	1,886.8	7,084.0	7,060.8	23.18	305.644					
7,283.4	7,010.4	4,193.0	3,903.8	23.4	26.5	-29.13	-5,864.6	1,886.8	7,065.6	7,042.9	22.71	311.130					
7,300.0	7,016.8	4,193.0	3,903.8	23.4	26.5	-29.59	-5,864.6	1,886.8	7,056.1	7,033.6	22.54	313.097					
7,350.0	7,033.8	4,193.0	3,903.8	23.5	26.5	-31.12	-5,864.6	1,886.8	7,025.9	7,003.7	22.27	315.427					
7,381.9	7,043.0	7,759.9	7,295.4	23.6	43.6	-68.84	-6,337.8	2,548.4	7,004.3	6,960.7	43.65	160.479					
7,400.0	7,047.6	7,765.5	7,301.0	23.6	43.6	-71.09	-6,337.6	2,548.4	6,989.0	6,944.5	44.50	157.046					
7,450.0	7,057.9	7,760.0	7,295.5	23.8	43.6	-77.29	-6,337.8	2,548.4	6,946.4	6,899.8	46.58	149.133					
7,480.3	7,062.5	7,760.0	7,295.5	23.9	43.6	-81.26	-6,337.8	2,548.4	6,920.4	6,872.7	47.61	145.343					
7,500.0	7,064.8	7,760.0	7,295.5	24.0	43.6	-83.89	-6,337.8	2,548.4	6,903.4	6,855.3	48.15	143.372					
7,550.0	7,068.3	7,760.0	7,295.5	24.2	43.6	-90.64	-6,337.8	2,548.4	6,860.4	6,811.4	48.99	140.046					
7,578.7	7,068.7	7,760.0	7,295.5	24.4	43.6	-94.49	-6,337.8	2,548.4	6,835.7	6,786.6	49.10	139.231					
7,578.9	7,068.7	7,760.0	7,295.5	24.4	43.6	-94.51	-6,337.8	2,548.4	6,835.6	6,786.5	49.10	139.229					
7,600.0	7,068.6	7,760.0	7,295.5	24.5	43.6	-94.51	-6,337.8	2,548.4	6,817.5	6,768.2	49.31	138.270					
7,677.1	7,068.1	7,760.0	7,295.5	25.1	43.6	-94.51	-6,337.8	2,548.4	6,751.4	6,701.4	50.05	134.891					
7,700.0	7,067.9	7,760.0	7,295.5	25.2	43.6	-94.51	-6,337.8	2,548.4	6,731.9	6,681.7	50.27	133.911					
7,775.6	7,067.4	7,760.0	7,295.5	25.9	43.6	-94.51	-6,337.8	2,548.4	6,667.6	6,616.5	51.09	130.507					
7,800.0	7,067.3	7,760.0	7,295.5	26.1	43.6	-94.51	-6,337.8	2,548.4	6,646.8	6,595.5	51.35	129.431					
7,874.0	7,066.8	7,768.4	7,303.9	26.8	43.6	-94.65	-6,337.5	2,548.3	6,584.1	6,531.8	52.29	125.906					
7,900.0	7,066.7	7,766.9	7,302.4	27.0	43.6	-94.63	-6,337.5	2,548.3	6,562.1	6,509.5	52.63	124.693					
7,972.4	7,066.2	7,762.7	7,298.2	27.8	43.6	-94.56	-6,337.7	2,548.4	6,501.0	6,447.4	53.61	121.258					
8,000.0	7,066.0	7,761.1	7,296.6	28.1	43.6	-94.53	-6,337.7	2,548.4	6,477.8	6,423.8	53.99	119.984					
8,070.8	7,065.6	7,757.0	7,292.5	28.9	43.6	-94.46	-6,337.9	2,548.5	6,418.4	6,363.4	55.01	116.687					
8,100.0	7,065.4	7,755.3	7,290.8	29.3	43.6	-94.44	-6,337.9	2,548.5	6,394.0	6,338.6	55.42	115.367					
8,169.3	7,065.0	7,751.3	7,286.8	30.2	43.6	-94.37	-6,338.1	2,548.6	6,336.2	6,279.8	56.46	112.228					
8,200.0	7,064.8	7,749.6	7,285.1	30.6	43.6	-94.34	-6,338.2	2,548.6	6,310.7	6,253.7	56.92	110.874					
8,267.7	7,064.4	7,745.7	7,281.2	31.5	43.6	-94.28	-6,338.3	2,548.6	6,254.5	6,196.6	57.96	107.905					
8,300.0	7,064.2	7,743.9	7,279.4	31.9	43.6	-94.25	-6,338.4	2,548.6	6,227.8	6,169.3	58.46	106.527					
8,366.1	7,063.7	7,740.1	7,275.6	32.8	43.6	-94.19	-6,338.5	2,548.7	6,173.3	6,113.8	59.51	103.732					
8,400.0	7,063.5	7,738.2	7,273.7	33.3	43.6	-94.16	-6,338.6	2,548.7	6,145.4	6,085.4	60.05	102.340					
8,464.5	7,063.1	7,734.6	7,270.1	34.2	43.6	-94.10	-6,338.7	2,548.8	6,092.6	6,031.5	61.10	99.718					
8,500.0	7,062.9	7,732.6	7,268.1	34.8	43.6	-94.07	-6,338.8	2,548.8	6,063.6	6,001.9	61.67	98.318					
8,563.0	7,062.5	7,729.1	7,264.6	35.7	43.6	-94.01	-6,338.9	2,548.8	6,012.4	5,949.6	62.72	95.867					
8,600.0	7,062.3	7,727.0	7,262.5	36.3	43.6	-93.98	-6,339.0	2,548.9	5,982.3	5,919.0	63.33	94.464					
8,661.4	7,061.9	7,723.6	7,259.1	37.2	43.6	-93.92	-6,339.1	2,548.9	5,932.7	5,868.3	64.36	92.177					
8,700.0	7,061.6	7,721.4	7,257.0	37.8	43.6	-93.89	-6,339.1	2,548.9	5,901.6	5,836.6	65.01	90.779					
8,759.8	7,061.3	7,718.1	7,253.7	38.8	43.6	-93.83	-6,339.3	2,549.0	5,853.6	5,787.6	66.03	88.649					
8,800.0	7,061.0	7,715.9	7,251.5	39.4	43.6	-93.80	-6,339.3	2,549.0	5,821.5	5,754.8	66.72	87.257					
8,858.2	7,060.6	7,712.7	7,248.3	40.3	43.6	-93.74	-6,339.5	2,549.0	5,775.1	5,707.4	67.72	85.277					
8,900.0	7,060.4	7,710.0	7,245.5	41.0	43.6	-93.70	-6,339.6	2,549.0	5,742.0	5,673.6	68.44	83.895					
8,956.7	7,060.0	7,705.9	7,241.4	41.9	43.6	-93.63	-6,339.7	2,549.1	5,697.2	5,627.8	69.43	82.056					
9,000.0	7,059.8	7,702.8	7,238.4	42.6	43.6	-93.58	-6,339.8	2,549.1	5,663.2	5,593.0	70.19	80.686					
9,055.1	7,059.4	7,698.9	7,234.5	43.6	43.6	-93.52	-6,339.9	2,549.2	5,620.0	5,548.8	71.16	78.980					
9,100.0	7,059.1	7,695.8	7,231.4	44.3	43.6	-93.47	-6,340.0	2,549.2	5,585.0	5,513.0	71.95	77.626					
9,153.5	7,058.8	7,692.1	7,227.7	45.2	43.6	-93.41	-6,340.2	2,549.2	5,543.4	5,470.5	72.90	76.045					
9,200.0	7,058.5	7,688.9	7,224.5	46.0	43.6	-93.35	-6,340.3	2,549.3	5,507.5	5,433.8	73.72	74.708					
9,251.9	7,058.2	7,685.4	7,221.0	46.9	43.6	-93.30	-6,340.4	2,549.3	5,467.5	5,392.9	74.65	73.244					
9,300.0	7,057.9	7,682.2	7,217.7	47.7	43.6	-93.24	-6,340.5	2,549.3	5,430.8	5,355.3	75.51	71.925					
9,350.4	7,057.6	7,678.8	7,214.4	48.6	43.6	-93.19	-6,340.6	2,549.4	5,392.4	5,316.0	76.41	70.571					
9,400.0	7,057.2	7,675.5	7,211.1	49.4	43.6	-93.14	-6,340.7	2,549.4	5,354.8	5,277.5	77.30	69.271					
9,448.8	7,056.9	7,672.3	7,207.9	50.3	43.6	-93.08	-6,340.8	2,549.4	5,318.0	5,239.8	78.18	68.019					
9,500.0	7,056.6	7,669.0	7,204.6	51.1	43.6	-93.03	-6,340.9	2,549.5	5,279.6	5,200.5	79.11	66.739					
9,547.2	7,056.3	7,666.0	7,201.6	52.0	43.6	-92.98	-6,341.0	2,549.5	5,244.4	5,164.4	79.96	65.584					

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.0	7,662.6	7,198.2	52.9	43.6	-92.93	-6,341.1	2,549.5	5,205.2	5,124.3	80.92	64.324	
9,645.6	7,055.7	7,659.8	7,195.4	53.7	43.6	-92.88	-6,341.2	2,549.5	5,171.6	5,089.8	81.75	63.258	
9,700.0	7,055.4	7,657.7	7,193.3	54.6	43.6	-92.85	-6,341.3	2,549.6	5,131.7	5,049.0	82.74	62.020	
9,744.1	7,055.1	7,655.9	7,191.5	55.4	43.6	-92.82	-6,341.3	2,549.6	5,099.6	5,016.1	83.55	61.038	
9,800.0	7,054.7	7,653.7	7,189.3	56.4	43.6	-92.78	-6,341.4	2,549.6	5,059.2	4,974.6	84.57	59.822	
9,842.5	7,054.5	7,652.0	7,187.5	57.2	43.6	-92.75	-6,341.5	2,549.6	5,028.6	4,943.2	85.35	58.918	
9,900.0	7,054.1	7,649.6	7,185.2	58.2	43.6	-92.71	-6,341.6	2,549.6	4,987.5	4,901.1	86.40	57.723	
9,940.9	7,053.8	7,648.0	7,183.6	58.9	43.6	-92.69	-6,341.6	2,549.6	4,958.5	4,871.3	87.16	56.892	
10,000.0	7,053.5	7,645.6	7,181.2	60.0	43.5	-92.65	-6,341.7	2,549.7	4,916.9	4,828.6	88.24	55.720	
10,039.3	7,053.2	7,644.0	7,179.6	60.7	43.5	-92.62	-6,341.7	2,549.7	4,889.3	4,800.4	88.97	54.956	
10,100.0	7,052.8	7,641.6	7,177.1	61.8	43.5	-92.58	-6,341.8	2,549.7	4,847.2	4,757.2	90.09	53.806	
10,137.8	7,052.6	7,640.0	7,175.6	62.4	43.5	-92.56	-6,341.9	2,549.7	4,821.2	4,730.4	90.79	53.105	
10,200.0	7,052.2	7,637.5	7,173.1	63.6	43.5	-92.52	-6,341.9	2,549.7	4,778.7	4,686.8	91.94	51.978	
10,236.2	7,052.0	7,636.0	7,171.6	64.2	43.5	-92.49	-6,342.0	2,549.7	4,754.2	4,661.6	92.61	51.337	
10,300.0	7,051.6	7,633.4	7,169.0	65.4	43.5	-92.45	-6,342.1	2,549.8	4,711.3	4,617.5	93.79	50.232	
10,334.6	7,051.4	7,632.0	7,167.6	66.0	43.5	-92.43	-6,342.1	2,549.8	4,688.2	4,593.8	94.43	49.646	
10,400.0	7,051.0	7,629.3	7,164.9	67.2	43.5	-92.38	-6,342.2	2,549.8	4,645.0	4,549.4	95.65	48.564	
10,433.0	7,050.7	7,627.9	7,163.5	67.8	43.5	-92.36	-6,342.3	2,549.8	4,623.4	4,527.1	96.26	48.029	
10,500.0	7,050.3	7,625.2	7,160.8	69.0	43.5	-92.31	-6,342.3	2,549.8	4,580.0	4,482.5	97.51	46.970	
10,531.5	7,050.1	7,623.9	7,159.5	69.6	43.5	-92.29	-6,342.4	2,549.8	4,559.8	4,461.7	98.09	46.483	
10,600.0	7,049.7	7,621.0	7,156.6	70.8	43.5	-92.25	-6,342.5	2,549.9	4,516.2	4,416.9	99.37	45.448	
10,629.9	7,049.5	7,619.8	7,155.4	71.4	43.5	-92.23	-6,342.5	2,549.9	4,497.4	4,397.5	99.93	45.005	
10,700.0	7,049.1	7,616.9	7,152.5	72.7	43.5	-92.18	-6,342.6	2,549.9	4,453.8	4,352.6	101.24	43.993	
10,728.3	7,048.9	7,615.7	7,151.3	73.2	43.5	-92.16	-6,342.7	2,549.9	4,436.4	4,334.6	101.77	43.592	
10,800.0	7,048.4	7,612.7	7,148.3	74.5	43.5	-92.11	-6,342.8	2,549.9	4,392.8	4,289.7	103.11	42.603	
10,826.7	7,048.3	7,611.6	7,147.2	75.0	43.5	-92.09	-6,342.8	2,549.9	4,376.7	4,273.1	103.61	42.241	
10,900.0	7,047.8	7,608.5	7,144.1	76.3	43.5	-92.04	-6,342.9	2,549.9	4,333.2	4,228.2	104.98	41.275	
10,925.2	7,047.7	7,607.4	7,143.0	76.8	43.5	-92.02	-6,342.9	2,549.9	4,318.4	4,212.9	105.45	40.950	
11,000.0	7,047.2	7,604.3	7,139.9	78.2	43.5	-91.97	-6,343.0	2,550.0	4,275.1	4,168.2	106.86	40.007	
11,023.6	7,047.0	7,603.3	7,138.9	78.6	43.5	-91.96	-6,343.1	2,550.0	4,261.6	4,154.3	107.30	39.716	
11,100.0	7,046.6	7,600.0	7,135.6	80.0	43.5	-91.90	-6,343.2	2,550.0	4,218.5	4,109.8	108.74	38.797	
11,122.0	7,046.4	7,599.1	7,134.7	80.4	43.5	-91.89	-6,343.2	2,550.0	4,206.3	4,097.2	109.15	38.537	
11,200.0	7,045.9	7,595.8	7,131.4	81.9	43.5	-91.83	-6,343.3	2,550.0	4,163.7	4,053.0	110.61	37.641	
11,220.4	7,045.8	7,594.9	7,130.5	82.3	43.5	-91.82	-6,343.3	2,550.0	4,152.6	4,041.6	111.00	37.411	
11,300.0	7,045.3	7,591.5	7,127.1	83.7	43.5	-91.76	-6,343.5	2,550.1	4,110.5	3,998.0	112.50	36.539	
11,318.9	7,045.2	7,590.7	7,126.3	84.1	43.5	-91.75	-6,343.5	2,550.1	4,100.6	3,987.8	112.85	36.336	
11,400.0	7,044.7	7,587.2	7,122.8	85.6	43.5	-91.69	-6,343.6	2,550.1	4,059.0	3,944.6	114.38	35.487	
11,417.3	7,044.6	7,586.5	7,122.1	85.9	43.5	-91.68	-6,343.6	2,550.1	4,050.3	3,935.6	114.71	35.310	
11,500.0	7,044.0	7,582.9	7,118.5	87.5	43.5	-91.62	-6,343.7	2,550.1	4,009.4	3,893.1	116.26	34.485	
11,515.7	7,043.9	7,582.2	7,117.9	87.7	43.5	-91.61	-6,343.8	2,550.1	4,001.8	3,885.2	116.56	34.332	
11,600.0	7,043.4	7,578.6	7,114.2	89.3	43.5	-91.55	-6,343.9	2,550.1	3,961.7	3,843.6	118.15	33.531	
11,614.1	7,043.3	7,578.0	7,113.6	89.6	43.5	-91.54	-6,343.9	2,550.1	3,955.1	3,836.7	118.42	33.400	
11,700.0	7,042.8	7,574.2	7,109.9	91.2	43.5	-91.48	-6,344.0	2,550.2	3,916.0	3,795.9	120.04	32.623	
11,712.6	7,042.7	7,573.7	7,109.3	91.4	43.5	-91.47	-6,344.1	2,550.2	3,910.4	3,790.1	120.28	32.512	
11,800.0	7,042.2	7,569.9	7,105.5	93.0	43.5	-91.41	-6,344.2	2,550.2	3,872.3	3,750.3	121.93	31.759	
11,811.0	7,042.1	7,569.4	7,105.0	93.2	43.5	-91.40	-6,344.2	2,550.2	3,867.6	3,745.5	122.14	31.666	
11,900.0	7,041.5	7,565.5	7,101.1	94.9	43.5	-91.34	-6,344.3	2,550.2	3,830.7	3,706.9	123.82	30.938	
11,909.4	7,041.5	7,565.1	7,100.7	95.1	43.5	-91.33	-6,344.3	2,550.2	3,826.9	3,702.9	124.00	30.863	
12,000.0	7,040.9	7,561.1	7,096.7	96.8	43.5	-91.27	-6,344.5	2,550.2	3,791.3	3,665.6	125.71	30.159	
12,007.8	7,040.8	7,560.7	7,096.4	96.9	43.5	-91.26	-6,344.5	2,550.2	3,788.3	3,662.4	125.86	30.099	
12,100.0	7,040.3	7,556.6	7,092.3	98.7	43.5	-91.19	-6,344.6	2,550.3	3,754.1	3,626.5	127.60	29.420	
12,106.3	7,040.2	7,556.4	7,092.0	98.8	43.5	-91.19	-6,344.6	2,550.3	3,751.8	3,624.1	127.72	29.375	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,039.6	7,552.2	7,087.8	100.5	43.5	-91.12	-6,344.8	2,550.3	3,719.2	3,589.7	129.50	28.721	
12,204.7	7,039.6	7,552.0	7,087.6	100.6	43.5	-91.12	-6,344.8	2,550.3	3,717.7	3,588.1	129.59	28.689	
12,300.0	7,039.0	7,547.7	7,083.4	102.4	43.5	-91.05	-6,344.9	2,550.3	3,686.8	3,555.4	131.39	28.060	
12,303.1	7,039.0	7,547.6	7,083.2	102.5	43.5	-91.05	-6,344.9	2,550.3	3,685.8	3,554.3	131.45	28.039	
12,400.0	7,038.4	7,543.2	7,078.9	104.3	43.5	-90.98	-6,345.1	2,550.3	3,656.7	3,523.4	133.29	27.435	
12,401.5	7,038.4	7,543.2	7,078.8	104.3	43.5	-90.97	-6,345.1	2,550.3	3,656.3	3,523.0	133.32	27.426	
12,500.0	7,037.8	7,538.7	7,074.4	106.2	43.5	-90.90	-6,345.3	2,550.3	3,629.2	3,494.0	135.18	26.847	
12,598.4	7,037.1	7,534.3	7,069.9	108.0	43.5	-90.83	-6,345.4	2,550.4	3,604.6	3,467.6	137.05	26.302	
12,600.0	7,037.1	7,534.2	7,069.9	108.0	43.5	-90.83	-6,345.4	2,550.4	3,604.2	3,467.1	137.08	26.293	
12,696.8	7,036.5	7,529.6	7,065.3	109.9	43.5	-90.75	-6,345.6	2,550.4	3,582.5	3,443.6	138.92	25.789	
12,700.0	7,036.5	7,529.5	7,065.1	109.9	43.5	-90.75	-6,345.6	2,550.4	3,581.9	3,442.9	138.98	25.773	
12,795.2	7,035.9	7,524.4	7,060.1	111.7	43.5	-90.67	-6,345.7	2,550.4	3,563.1	3,422.3	140.79	25.308	
12,800.0	7,035.9	7,524.2	7,059.9	111.8	43.5	-90.66	-6,345.8	2,550.4	3,562.2	3,421.3	140.88	25.286	
12,893.7	7,035.3	7,519.3	7,055.0	113.6	43.5	-90.58	-6,345.9	2,550.4	3,546.2	3,403.5	142.66	24.858	
12,900.0	7,035.2	7,519.0	7,054.6	113.7	43.5	-90.58	-6,345.9	2,550.4	3,545.2	3,402.4	142.78	24.831	
12,992.1	7,034.7	7,514.2	7,049.8	115.4	43.5	-90.50	-6,346.1	2,550.4	3,532.0	3,387.4	144.52	24.439	
13,000.0	7,034.6	7,513.8	7,049.4	115.6	43.5	-90.49	-6,346.1	2,550.4	3,530.9	3,386.3	144.67	24.406	
13,090.5	7,034.0	7,509.1	7,044.8	117.3	43.5	-90.42	-6,346.3	2,550.5	3,520.4	3,374.1	146.39	24.048	
13,100.0	7,034.0	7,508.6	7,044.3	117.5	43.5	-90.41	-6,346.3	2,550.5	3,519.5	3,372.9	146.57	24.012	
13,188.9	7,033.4	7,504.0	7,039.7	119.1	43.5	-90.33	-6,346.4	2,550.5	3,511.6	3,363.4	148.27	23.685	
13,200.0	7,033.4	7,503.5	7,039.2	119.3	43.5	-90.33	-6,346.5	2,550.5	3,510.8	3,362.3	148.48	23.646	
13,287.4	7,032.8	7,499.0	7,034.7	121.0	43.5	-90.25	-6,346.6	2,550.5	3,505.6	3,355.4	150.14	23.349	
13,300.0	7,032.7	7,498.4	7,034.1	121.2	43.5	-90.24	-6,346.6	2,550.5	3,505.0	3,354.6	150.38	23.308	
13,385.8	7,032.2	7,494.0	7,029.7	122.9	43.5	-90.17	-6,346.8	2,550.5	3,502.3	3,350.2	152.01	23.040	
13,400.0	7,032.1	7,493.3	7,029.0	123.1	43.5	-90.16	-6,346.8	2,550.5	3,502.0	3,349.7	152.28	22.998	
13,455.0	7,031.8	7,490.6	7,026.3	124.2	43.5	-90.11	-6,346.9	2,550.5	3,501.6	3,348.2	153.32	22.838 CC	
13,484.2	7,031.6	7,489.1	7,024.8	124.7	43.5	-90.09	-6,346.9	2,550.5	3,501.7	3,347.8	153.88	22.756	
13,500.0	7,031.5	7,488.3	7,024.0	125.0	43.5	-90.08	-6,347.0	2,550.5	3,501.9	3,347.7	154.18	22.713 ES	
13,582.6	7,030.9	7,484.2	7,019.9	126.6	43.5	-90.01	-6,347.1	2,550.5	3,503.9	3,348.1	155.75	22.497	
13,600.0	7,030.8	7,483.3	7,019.0	126.9	43.5	-90.00	-6,347.1	2,550.5	3,504.6	3,348.5	156.08	22.454	
13,681.1	7,030.3	7,479.3	7,015.0	128.4	43.5	-89.93	-6,347.3	2,550.5	3,508.9	3,351.2	157.62	22.261	
13,700.0	7,030.2	7,478.4	7,014.1	128.8	43.5	-89.92	-6,347.3	2,550.5	3,510.1	3,352.1	157.98	22.218	
13,779.5	7,029.7	7,474.4	7,010.1	130.3	43.5	-89.85	-6,347.4	2,550.5	3,516.6	3,357.1	159.49	22.048	
13,800.0	7,029.6	7,473.4	7,009.1	130.7	43.5	-89.83	-6,347.5	2,550.5	3,518.5	3,358.6	159.88	22.007	
13,877.9	7,029.1	7,469.6	7,005.3	132.2	43.5	-89.77	-6,347.6	2,550.5	3,527.0	3,365.6	161.37	21.857	
13,900.0	7,029.0	7,468.5	7,004.2	132.6	43.5	-89.75	-6,347.6	2,550.5	3,529.7	3,367.9	161.79	21.817	
13,976.3	7,028.5	7,464.8	7,000.5	134.0	43.5	-89.69	-6,347.8	2,550.5	3,540.1	3,376.9	163.24	21.687	
14,000.0	7,028.3	7,463.7	6,999.4	134.5	43.5	-89.68	-6,347.8	2,550.5	3,543.7	3,380.0	163.69	21.649	
14,074.8	7,027.9	7,460.1	6,995.8	135.9	43.5	-89.62	-6,347.9	2,550.5	3,555.9	3,390.8	165.11	21.536	
14,100.0	7,027.7	7,458.9	6,994.6	136.4	43.5	-89.60	-6,347.9	2,550.5	3,560.4	3,394.8	165.59	21.501	
14,173.2	7,027.2	7,455.3	6,991.0	137.8	43.5	-89.54	-6,348.1	2,550.5	3,574.3	3,407.4	166.98	21.405	
14,200.0	7,027.1	7,454.1	6,989.8	138.3	43.5	-89.52	-6,348.1	2,550.5	3,579.8	3,412.3	167.49	21.373	
14,210.5	7,027.0	7,453.6	6,989.3	138.5	43.5	-89.51	-6,348.1	2,550.5	3,582.0	3,414.3	167.69	21.360 SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	170.96	-5,118.5	814.3	5,182.9				
98.4	98.4	80.9	80.9	0.1	0.1	170.96	-5,118.5	814.3	5,182.9	5,182.7	0.18	N/A	
100.0	100.0	82.4	82.4	0.1	0.1	170.96	-5,118.5	814.3	5,182.9	5,182.7	0.18	N/A	
196.8	196.8	174.7	174.7	0.3	0.2	170.96	-5,118.6	814.4	5,183.0	5,182.5	0.49	N/A	
200.0	200.0	177.7	177.7	0.3	0.2	170.96	-5,118.6	814.4	5,183.0	5,182.5	0.51	N/A	
295.3	295.3	268.5	268.5	0.5	0.3	170.96	-5,118.8	814.4	5,183.2	5,182.4	0.81	6,377.063	
300.0	300.0	273.0	273.0	0.5	0.3	170.96	-5,118.8	814.4	5,183.2	5,182.4	0.83	6,259.560	
393.7	393.7	362.3	362.3	0.8	0.4	170.96	-5,119.1	814.4	5,183.5	5,182.4	1.13	4,584.515	
400.0	400.0	368.3	368.3	0.8	0.4	170.96	-5,119.1	814.4	5,183.5	5,182.4	1.15	4,503.494	
492.1	492.1	456.1	456.1	1.0	0.5	170.96	-5,119.5	814.4	5,183.9	5,182.5	1.45	3,578.748	
500.0	500.0	463.6	463.6	1.0	0.5	170.96	-5,119.5	814.4	5,183.9	5,182.5	1.47	3,517.021	
590.5	590.5	549.9	549.9	1.2	0.6	170.96	-5,119.9	814.4	5,184.4	5,182.6	1.77	2,935.012	
600.0	600.0	558.9	558.9	1.2	0.6	170.96	-5,120.0	814.4	5,184.4	5,182.6	1.80	2,885.191	
689.0	689.0	643.7	643.7	1.4	0.7	170.96	-5,120.5	814.5	5,184.9	5,182.8	2.08	2,487.669	
700.0	700.0	654.2	654.2	1.4	0.7	170.96	-5,120.5	814.5	5,185.0	5,182.9	2.12	2,445.918	
787.4	787.4	731.0	731.0	1.6	0.8	170.96	-5,121.0	814.5	5,185.6	5,183.2	2.40	2,164.811	
800.0	800.0	731.0	731.0	1.7	0.8	170.96	-5,121.0	814.5	5,185.7	5,183.3	2.42	2,139.566	
885.8	885.8	783.9	783.9	1.9	0.9	170.96	-5,121.7	814.6	5,186.8	5,184.1	2.74	1,895.103	
900.0	900.0	791.0	791.0	1.9	0.9	170.96	-5,121.8	814.6	5,187.0	5,184.3	2.79	1,862.489	
984.2	984.2	859.0	859.0	2.1	1.0	170.96	-5,123.5	814.9	5,189.1	5,185.9	3.13	1,658.336	
1,000.0	1,000.0	859.0	859.0	2.1	1.0	170.96	-5,123.5	814.9	5,189.4	5,186.3	3.16	1,639.899	
1,082.7	1,082.7	859.0	859.0	2.3	1.0	170.96	-5,123.5	814.9	5,192.1	5,188.8	3.35	1,549.744	
1,100.0	1,100.0	859.0	859.0	2.3	1.0	170.96	-5,123.5	814.9	5,192.8	5,189.5	3.39	1,532.154	
1,181.1	1,181.1	915.9	915.8	2.5	1.2	-114.80	-5,125.7	815.4	5,196.7	5,193.0	3.69	1,407.390	
1,200.0	1,200.0	923.3	923.2	2.6	1.2	-114.78	-5,126.0	815.4	5,197.9	5,194.2	3.75	1,385.879	
1,279.5	1,279.4	987.0	986.8	2.7	1.3	-114.71	-5,129.8	816.1	5,204.2	5,200.1	4.07	1,279.090	
1,300.0	1,299.8	987.0	986.8	2.8	1.3	-114.68	-5,129.8	816.1	5,205.9	5,201.8	4.11	1,265.854	
1,377.9	1,377.5	987.0	986.8	2.9	1.3	-114.54	-5,129.8	816.1	5,213.7	5,209.4	4.29	1,215.664	
1,400.0	1,399.5	987.0	986.8	3.0	1.3	-114.49	-5,129.8	816.1	5,216.2	5,211.9	4.34	1,202.331	
1,476.4	1,475.3	1,030.7	1,030.4	3.2	1.5	-114.36	-5,133.1	816.7	5,225.9	5,221.3	4.63	1,129.290	
1,500.0	1,498.7	1,039.9	1,039.5	3.2	1.5	-114.31	-5,133.8	816.9	5,229.2	5,224.5	4.71	1,111.041	
1,574.8	1,572.6	1,068.7	1,068.2	3.4	1.6	-114.15	-5,136.4	817.5	5,240.7	5,235.7	4.98	1,053.231	
1,600.0	1,597.5	1,116.0	1,115.3	3.5	1.7	-114.16	-5,141.0	818.7	5,245.2	5,240.0	5.15	1,017.524	
1,673.2	1,669.4	1,116.0	1,115.3	3.7	1.7	-113.92	-5,141.0	818.7	5,257.9	5,252.6	5.38	977.877	
1,700.2	1,695.8	1,116.0	1,115.3	3.8	1.7	-113.83	-5,141.0	818.7	5,263.1	5,257.6	5.46	964.190	
1,771.6	1,765.7	1,161.9	1,160.8	4.1	1.8	-113.93	-5,145.9	819.9	5,277.1	5,271.3	5.80	909.728	
1,800.0	1,793.4	1,179.8	1,178.6	4.2	1.9	-113.97	-5,147.9	820.4	5,282.8	5,276.9	5.94	890.028	
1,870.1	1,862.0	1,244.0	1,242.4	4.4	2.0	-114.11	-5,155.2	821.9	5,297.1	5,290.8	6.33	837.138	
1,900.0	1,891.2	1,244.0	1,242.4	4.5	2.0	-114.11	-5,155.2	821.9	5,303.2	5,296.8	6.43	824.471	
1,968.5	1,958.3	1,283.8	1,281.9	4.8	2.2	-114.19	-5,160.0	823.0	5,317.6	5,310.8	6.77	785.463	
2,000.0	1,989.1	1,302.5	1,300.5	4.9	2.2	-114.23	-5,162.3	823.5	5,324.3	5,317.4	6.93	768.717	
2,066.9	2,054.5	1,342.2	1,339.9	5.2	2.3	-114.32	-5,167.2	824.8	5,338.9	5,331.6	7.27	734.829	
2,100.0	2,086.9	1,373.0	1,370.4	5.3	2.4	-114.39	-5,171.2	826.0	5,346.2	5,338.8	7.46	716.856	
2,165.3	2,150.8	1,373.0	1,370.4	5.6	2.4	-114.39	-5,171.2	826.0	5,361.0	5,353.3	7.71	695.432	
2,200.0	2,184.7	1,373.0	1,370.4	5.7	2.4	-114.39	-5,171.2	826.0	5,369.1	5,361.3	7.84	684.669	
2,263.8	2,247.1	1,429.1	1,425.9	6.0	2.6	-114.52	-5,178.8	828.5	5,383.9	5,375.7	8.22	654.903	
2,300.0	2,282.5	1,443.0	1,439.6	6.1	2.7	-114.55	-5,180.9	829.2	5,392.6	5,384.2	8.39	642.384	
2,362.2	2,343.3	1,501.0	1,496.9	6.4	2.8	-114.69	-5,189.8	832.5	5,408.2	5,399.4	8.77	616.323	
2,400.0	2,380.3	1,501.0	1,496.9	6.6	2.8	-114.69	-5,189.8	832.5	5,417.6	5,408.6	8.92	607.011	
2,460.6	2,439.6	1,501.0	1,496.9	6.8	2.8	-114.69	-5,189.8	832.5	5,433.0	5,423.9	9.17	592.570	
2,500.0	2,478.1	1,501.0	1,496.9	7.0	2.8	-114.69	-5,189.8	832.5	5,443.4	5,434.1	9.33	583.634	
2,559.0	2,535.9	1,550.2	1,545.3	7.2	3.0	-114.81	-5,197.8	836.0	5,459.1	5,449.4	9.68	563.786	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	2,575.9	1,568.8	1,563.6	7.4	3.1	-114.86	-5,200.9	837.6	5,470.1	5,460.3	9.89	552.946	
2,657.5	2,632.2	1,594.8	1,589.0	7.7	3.2	-114.93	-5,205.3	840.0	5,486.0	5,475.8	10.19	538.441	
2,700.0	2,673.8	1,629.0	1,622.5	7.8	3.3	-115.03	-5,211.2	843.7	5,497.9	5,487.5	10.44	526.500	
2,755.9	2,728.4	1,629.0	1,622.5	8.1	3.3	-115.03	-5,211.2	843.7	5,513.8	5,503.1	10.67	516.635	
2,800.0	2,771.6	1,629.0	1,622.5	8.3	3.3	-115.03	-5,211.2	843.7	5,526.7	5,515.8	10.85	509.182	
2,854.3	2,824.7	1,684.3	1,676.6	8.5	3.5	-115.19	-5,221.1	849.9	5,542.5	5,531.2	11.22	494.189	
2,900.0	2,869.4	1,705.2	1,697.0	8.7	3.6	-115.25	-5,225.0	852.3	5,556.1	5,544.6	11.46	485.010	
2,952.7	2,921.0	1,758.0	1,748.4	8.9	3.8	-115.39	-5,235.2	858.3	5,572.1	5,560.3	11.80	472.065	
3,000.0	2,967.2	1,758.0	1,748.4	9.2	3.8	-115.39	-5,235.2	858.3	5,586.5	5,574.5	12.00	465.536	
3,051.2	3,017.3	1,758.0	1,748.4	9.4	3.8	-115.39	-5,235.2	858.3	5,602.4	5,590.2	12.21	458.699	
3,100.0	3,065.0	1,758.0	1,748.4	9.6	3.8	-115.39	-5,235.2	858.3	5,618.0	5,605.6	12.42	452.427	
3,149.6	3,113.5	1,806.3	1,795.4	9.8	4.1	-115.53	-5,245.0	864.0	5,633.7	5,621.0	12.75	441.783	
3,200.0	3,162.8	1,824.4	1,812.9	10.0	4.2	-115.58	-5,248.9	866.2	5,650.2	5,637.2	13.01	434.256	
3,248.0	3,209.8	1,841.5	1,829.5	10.3	4.2	-115.63	-5,252.6	868.3	5,666.1	5,652.8	13.26	427.356	
3,300.0	3,260.6	1,886.0	1,872.5	10.5	4.4	-115.76	-5,262.5	874.1	5,683.7	5,670.1	13.59	418.129	
3,346.4	3,306.1	1,886.0	1,872.5	10.7	4.4	-115.76	-5,262.5	874.1	5,699.4	5,685.6	13.79	413.339	
3,400.0	3,358.4	1,886.0	1,872.5	10.9	4.4	-115.76	-5,262.5	874.1	5,717.9	5,703.9	14.01	408.011	
3,444.9	3,402.3	1,922.5	1,907.7	11.1	4.6	-115.86	-5,270.9	879.0	5,733.5	5,719.2	14.30	400.841	
3,500.0	3,456.3	1,950.7	1,934.8	11.4	4.8	-115.94	-5,277.5	882.8	5,753.0	5,738.4	14.61	393.691	
3,543.3	3,498.6	1,972.8	1,956.0	11.6	4.9	-116.01	-5,282.7	885.9	5,768.4	5,753.6	14.86	388.303	
3,600.0	3,554.1	2,015.0	1,996.6	11.8	5.1	-116.13	-5,292.8	892.0	5,788.9	5,773.7	15.21	380.656	
3,641.7	3,594.9	2,032.2	2,013.1	12.0	5.2	-116.18	-5,297.0	894.5	5,804.0	5,788.6	15.43	376.178	
3,700.0	3,651.9	2,098.2	2,076.4	12.3	5.5	-116.37	-5,312.8	904.3	5,825.2	5,809.3	15.84	367.650	
3,740.1	3,691.2	2,143.0	2,119.4	12.5	5.8	-116.51	-5,323.4	911.1	5,839.7	5,823.5	16.13	362.099	
3,800.0	3,749.7	2,188.3	2,162.9	12.7	6.0	-116.64	-5,334.1	917.9	5,861.4	5,844.9	16.49	355.344	
3,838.6	3,787.4	2,217.3	2,190.8	12.9	6.1	-116.72	-5,341.1	922.2	5,875.4	5,858.7	16.73	351.167	
3,900.0	3,847.5	2,271.0	2,242.3	13.2	6.4	-116.87	-5,354.0	929.8	5,897.8	5,880.7	17.12	344.405	
3,937.0	3,883.7	2,299.9	2,270.0	13.3	6.5	-116.95	-5,361.0	933.9	5,911.4	5,894.1	17.35	340.644	
4,000.0	3,945.3	2,366.8	2,334.2	13.6	6.8	-117.14	-5,377.2	943.2	5,934.5	5,916.7	17.79	333.651	
4,035.4	3,980.0	2,406.5	2,372.4	13.8	7.0	-117.24	-5,386.7	948.7	5,947.4	5,929.4	18.03	329.788	
4,100.0	4,043.1	2,506.7	2,468.8	14.1	7.5	-117.51	-5,410.5	962.2	5,970.8	5,952.2	18.55	321.920	
4,133.8	4,076.3	2,544.2	2,505.0	14.2	7.6	-117.61	-5,419.3	967.1	5,982.9	5,964.1	18.78	318.558	
4,200.0	4,141.0	2,597.5	2,556.3	14.5	7.9	-117.74	-5,431.9	973.6	6,006.6	5,987.4	19.19	312.985	
4,232.3	4,172.5	2,623.6	2,581.4	14.7	8.0	-117.81	-5,438.2	976.6	6,018.3	5,998.9	19.39	310.351	
4,300.0	4,238.8	2,657.0	2,613.6	15.0	8.2	-117.88	-5,446.2	980.3	6,042.8	6,023.0	19.76	305.810	
4,330.7	4,268.8	2,657.0	2,613.6	15.1	8.2	-117.88	-5,446.2	980.3	6,054.0	6,034.2	19.89	304.379	
4,400.0	4,336.6	2,702.0	2,656.9	15.4	8.4	-117.99	-5,457.3	985.4	6,079.6	6,059.3	20.30	299.456	
4,429.1	4,365.1	2,712.2	2,666.8	15.6	8.5	-118.02	-5,459.9	986.7	6,090.5	6,070.0	20.45	297.787	
4,500.0	4,434.4	2,737.1	2,690.6	15.9	8.6	-118.08	-5,466.2	989.8	6,117.3	6,096.5	20.82	293.852	
4,527.5	4,461.3	2,785.0	2,736.4	16.0	8.9	-118.20	-5,478.8	996.3	6,128.2	6,107.1	21.06	290.995	
4,600.0	4,532.2	2,785.0	2,736.4	16.4	8.9	-118.20	-5,478.8	996.3	6,155.9	6,134.6	21.37	288.119	
4,626.0	4,557.6	2,785.0	2,736.4	16.5	8.9	-118.20	-5,478.8	996.3	6,166.1	6,144.6	21.48	287.114	
4,700.0	4,630.0	2,785.0	2,736.4	16.8	8.9	-118.20	-5,478.8	996.3	6,195.5	6,173.7	21.79	284.331	
4,724.4	4,653.9	2,820.2	2,769.9	16.9	9.1	-118.29	-5,488.2	1,001.2	6,205.1	6,183.1	21.99	282.159	
4,800.0	4,727.8	2,851.0	2,799.2	17.3	9.3	-118.36	-5,496.7	1,005.6	6,235.6	6,213.2	22.40	278.404	
4,822.8	4,750.2	2,860.2	2,808.0	17.4	9.3	-118.39	-5,499.3	1,006.9	6,244.9	6,222.4	22.52	277.302	
4,900.0	4,825.6	2,913.0	2,858.0	17.7	9.7	-118.52	-5,514.3	1,014.3	6,276.7	6,253.7	22.99	272.975	
4,921.2	4,846.4	2,913.0	2,858.0	17.8	9.7	-118.52	-5,514.3	1,014.3	6,285.5	6,262.4	23.08	272.289	
5,000.0	4,923.5	2,913.0	2,858.0	18.2	9.7	-118.52	-5,514.3	1,014.3	6,318.5	6,295.0	23.42	269.817	
5,019.7	4,942.7	2,913.0	2,858.0	18.3	9.7	-118.52	-5,514.3	1,014.3	6,326.8	6,303.3	23.50	269.215	
5,100.0	5,021.3	2,969.3	2,911.2	18.6	10.0	-118.65	-5,530.8	1,022.6	6,360.9	6,336.9	24.00	265.010	
5,118.1	5,039.0	2,976.2	2,917.7	18.7	10.1	-118.67	-5,532.9	1,023.7	6,368.7	6,344.6	24.10	264.274	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,200.0	5,119.1	3,253.0	3,179.5	19.1	11.7	-119.37	-5,611.7	1,066.9	6,403.7	6,378.5	25.18	254.326	
5,216.5	5,135.3	3,266.1	3,191.9	19.2	11.8	-119.40	-5,615.1	1,068.9	6,410.4	6,385.1	25.28	253.556	
5,300.0	5,216.9	3,602.6	3,514.4	19.6	13.6	-120.20	-5,698.8	1,116.0	6,441.9	6,415.4	26.47	243.400	
5,314.9	5,231.5	3,613.6	3,525.0	19.6	13.6	-120.22	-5,701.3	1,117.5	6,447.4	6,420.8	26.56	242.778	
5,400.0	5,314.7	3,684.0	3,592.8	20.0	14.0	-120.38	-5,717.7	1,127.0	6,478.8	6,451.7	27.09	239.163	
5,413.4	5,327.8	3,684.0	3,592.8	20.1	14.0	-120.38	-5,717.7	1,127.0	6,483.7	6,456.6	27.15	238.850	
5,500.0	5,412.5	3,722.6	3,629.9	20.5	14.2	-120.47	-5,726.9	1,132.3	6,516.2	6,488.5	27.61	235.996	
5,511.8	5,424.1	3,727.7	3,634.8	20.5	14.2	-120.48	-5,728.1	1,133.0	6,520.6	6,492.9	27.67	235.620	
5,600.0	5,510.3	3,765.4	3,671.0	20.9	14.5	-120.57	-5,737.3	1,138.2	6,554.3	6,526.1	28.14	232.885	
5,610.2	5,520.3	3,769.8	3,675.2	21.0	14.5	-120.58	-5,738.4	1,138.8	6,558.2	6,530.0	28.20	232.575	
5,700.0	5,608.2	3,812.0	3,715.6	21.4	14.7	-120.68	-5,749.0	1,144.7	6,593.1	6,564.4	28.69	229.840	
5,708.6	5,616.6	3,812.0	3,715.6	21.4	14.7	-120.68	-5,749.0	1,144.7	6,596.5	6,567.7	28.72	229.667	
5,729.2	5,636.7	3,812.0	3,715.6	21.5	14.7	-120.68	-5,749.0	1,144.7	6,604.5	6,575.7	28.81	229.260	
5,800.0	5,706.1	3,874.0	3,775.0	21.8	15.1	-121.32	-5,764.9	1,153.4	6,632.0	6,602.9	29.16	227.449	
5,807.1	5,713.1	3,878.9	3,779.6	21.8	15.1	-121.38	-5,766.1	1,154.1	6,634.8	6,605.6	29.18	227.340	
5,900.0	5,804.7	3,941.0	3,839.0	22.1	15.5	-122.14	-5,782.2	1,162.8	6,669.8	6,640.2	29.52	225.930	
5,905.5	5,810.2	3,941.0	3,839.0	22.1	15.5	-122.17	-5,782.2	1,162.8	6,671.8	6,642.3	29.53	225.935	
6,000.0	5,903.9	3,941.0	3,839.0	22.3	15.5	-122.80	-5,782.2	1,162.8	6,706.6	6,676.9	29.67	226.013	
6,003.9	5,907.8	3,941.0	3,839.0	22.4	15.5	-122.83	-5,782.2	1,162.8	6,708.0	6,678.4	29.68	226.026	
6,100.0	6,003.4	4,001.9	3,897.0	22.6	15.8	-123.52	-5,798.6	1,171.5	6,742.1	6,712.2	29.97	224.971	
6,102.3	6,005.7	4,002.6	3,897.6	22.6	15.9	-123.54	-5,798.8	1,171.6	6,743.0	6,713.0	29.97	224.968	
6,200.0	6,103.2	4,069.0	3,960.5	22.7	16.3	-124.20	-5,817.8	1,181.7	6,777.3	6,747.0	30.26	224.001	
6,200.8	6,104.0	4,069.0	3,960.5	22.7	16.3	-124.20	-5,817.8	1,181.7	6,777.5	6,747.3	30.26	224.006	
6,299.2	6,202.3	4,069.0	3,960.5	22.9	16.3	-124.78	-5,817.8	1,181.7	6,810.6	6,780.2	30.32	224.644	
6,300.0	6,203.1	4,069.0	3,960.5	22.9	16.3	-124.79	-5,817.8	1,181.7	6,810.8	6,780.5	30.32	224.649	
6,329.4	6,232.5	4,075.5	3,966.6	22.9	16.3	-160.87	-5,819.7	1,182.7	6,820.6	6,790.3	30.32	224.982	
6,397.6	6,300.8	6,410.1	6,247.2	23.0	24.8	160.11	-6,158.1	1,396.8	6,828.5	6,792.7	35.81	190.673	
6,400.0	6,303.1	6,411.8	6,248.8	23.0	24.8	160.11	-6,158.1	1,396.9	6,828.5	6,792.7	35.82	190.641	
6,449.4	6,352.5	6,445.9	6,283.0	23.1	24.8	160.10	-6,158.1	1,397.6	6,828.9	6,792.9	35.95	189.960	
6,496.0	6,399.2	6,478.2	6,315.2	23.1	24.8	-20.15	-6,158.1	1,398.3	6,827.9	6,791.7	36.15	188.888	
6,500.0	6,403.1	6,480.9	6,318.0	23.1	24.8	-20.15	-6,158.1	1,398.4	6,827.7	6,791.5	36.15	188.847	
6,550.0	6,452.8	6,518.7	6,355.8	23.1	24.9	-20.29	-6,158.3	1,399.2	6,823.3	6,787.1	36.16	188.705	
6,594.5	6,496.6	6,565.7	6,402.7	23.2	25.0	-20.51	-6,158.6	1,400.2	6,816.7	6,780.6	36.05	189.071	
6,600.0	6,502.0	6,571.5	6,408.5	23.2	25.0	-20.54	-6,158.6	1,400.3	6,815.7	6,779.7	36.03	189.160	
6,650.0	6,550.5	6,623.5	6,460.5	23.2	25.0	-20.90	-6,158.9	1,401.1	6,804.8	6,769.1	35.75	190.342	
6,692.9	6,591.4	6,660.8	6,497.8	23.2	25.1	-21.29	-6,159.2	1,401.7	6,793.0	6,757.6	35.38	191.976	
6,700.0	6,598.0	6,666.4	6,503.4	23.2	25.1	-21.37	-6,159.2	1,401.8	6,790.9	6,755.5	35.31	192.305	
6,750.0	6,644.4	6,705.4	6,542.5	23.2	25.1	-21.95	-6,159.5	1,402.4	6,773.8	6,739.1	34.74	194.990	
6,791.3	6,681.6	6,736.8	6,573.8	23.2	25.2	-22.54	-6,159.8	1,402.9	6,757.5	6,723.4	34.18	197.708	
6,800.0	6,689.3	6,743.3	6,580.3	23.2	25.2	-22.68	-6,159.9	1,403.0	6,753.9	6,719.8	34.05	198.341	
6,850.0	6,732.6	6,781.8	6,618.8	23.2	25.2	-23.56	-6,160.2	1,403.6	6,731.0	6,697.8	33.28	202.278	
6,889.7	6,765.7	6,813.4	6,650.4	23.2	25.3	-24.39	-6,160.5	1,404.1	6,710.9	6,678.3	32.62	205.733	
6,900.0	6,774.0	6,821.4	6,658.4	23.2	25.3	-24.63	-6,160.6	1,404.2	6,705.5	6,673.0	32.44	206.678	
6,950.0	6,813.3	6,859.1	6,696.1	23.2	25.3	-25.91	-6,161.0	1,404.8	6,677.2	6,645.6	31.59	211.375	
6,988.2	6,841.9	6,886.5	6,723.5	23.2	25.4	-27.04	-6,161.3	1,405.3	6,654.0	6,623.0	30.96	214.951	
7,000.0	6,850.5	6,895.1	6,732.0	23.2	25.4	-27.43	-6,161.4	1,405.4	6,646.5	6,615.7	30.76	216.051	
7,050.0	6,885.2	6,944.4	6,781.4	23.2	25.5	-29.31	-6,161.9	1,406.2	6,613.4	6,583.3	30.06	220.008	
7,086.6	6,908.9	6,980.8	6,817.8	23.2	25.5	-30.93	-6,162.2	1,406.7	6,587.7	6,558.0	29.67	222.063	
7,100.0	6,917.3	6,993.6	6,830.5	23.2	25.5	-31.58	-6,162.3	1,406.9	6,578.0	6,548.4	29.54	222.666	
7,150.0	6,946.6	7,022.0	6,859.0	23.2	25.6	-34.20	-6,162.5	1,407.2	6,540.5	6,511.3	29.26	223.516	
7,185.0	6,965.5	7,043.6	6,880.5	23.3	25.6	-36.37	-6,162.6	1,407.5	6,513.2	6,483.9	29.28	222.451	
7,200.0	6,973.1	7,049.1	6,886.1	23.3	25.6	-37.36	-6,162.6	1,407.6	6,501.2	6,471.9	29.37	221.377	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,250.0	6,996.5	7,066.4	6,903.3	23.3	25.6	-41.10	-6,162.8	1,407.8	6,460.4	6,430.5	29.93	215.835	
7,283.4	7,010.4	7,076.7	6,913.6	23.4	25.6	-44.01	-6,162.8	1,408.0	6,432.3	6,401.7	30.62	210.056	
7,300.0	7,016.8	7,081.4	6,918.3	23.4	25.6	-45.60	-6,162.9	1,408.0	6,418.1	6,387.1	31.06	206.629	
7,350.0	7,033.8	7,094.1	6,931.1	23.5	25.6	-51.00	-6,163.0	1,408.2	6,374.7	6,341.9	32.78	194.453	
7,381.9	7,043.0	7,101.0	6,938.0	23.6	25.7	-54.98	-6,163.1	1,408.3	6,346.5	6,312.3	34.17	185.759	
7,400.0	7,047.6	7,104.5	6,941.4	23.6	25.7	-57.44	-6,163.1	1,408.3	6,330.3	6,295.3	35.02	180.738	
7,450.0	7,057.9	7,112.4	6,949.4	23.8	25.7	-65.00	-6,163.2	1,408.4	6,285.1	6,247.5	37.57	167.285	
7,480.3	7,062.5	7,116.0	6,953.0	23.9	25.7	-70.09	-6,163.2	1,408.5	6,257.4	6,218.3	39.12	159.970	
7,500.0	7,064.8	7,117.9	6,954.8	24.0	25.7	-73.59	-6,163.2	1,408.5	6,239.3	6,199.3	40.05	155.774	
7,550.0	7,068.3	7,120.8	6,957.8	24.2	25.7	-82.95	-6,163.3	1,408.6	6,193.2	6,151.2	42.02	147.384	
7,578.7	7,068.7	7,121.3	6,958.3	24.4	25.7	-88.49	-6,163.3	1,408.6	6,166.7	6,123.9	42.77	144.192	
7,578.9	7,068.7	7,121.3	6,958.3	24.4	25.7	-88.52	-6,163.3	1,408.6	6,166.6	6,123.8	42.77	144.179	
7,600.0	7,068.6	7,121.4	6,958.4	24.5	25.7	-88.52	-6,163.3	1,408.6	6,147.1	6,104.1	42.98	143.027	
7,677.1	7,068.1	7,121.7	6,958.7	25.1	25.7	-88.53	-6,163.3	1,408.6	6,075.9	6,032.2	43.72	138.980	
7,700.0	7,067.9	7,121.8	6,958.8	25.2	25.7	-88.53	-6,163.3	1,408.6	6,054.8	6,010.9	43.94	137.808	
7,775.6	7,067.4	7,122.1	6,959.0	25.9	25.7	-88.53	-6,163.3	1,408.6	5,985.3	5,940.6	44.75	133.745	
7,800.0	7,067.3	7,122.2	6,959.1	26.1	25.7	-88.54	-6,163.3	1,408.6	5,962.9	5,917.9	45.02	132.464	
7,874.0	7,066.8	7,122.4	6,959.4	26.8	25.7	-88.54	-6,163.3	1,408.6	5,895.0	5,849.0	45.96	128.264	
7,900.0	7,066.7	7,122.5	6,959.5	27.0	25.7	-88.55	-6,163.3	1,408.6	5,871.2	5,824.9	46.29	126.830	
7,972.4	7,066.2	7,122.8	6,959.8	27.8	25.7	-88.55	-6,163.3	1,408.6	5,804.9	5,757.6	47.28	122.782	
8,000.0	7,066.0	7,122.9	6,959.9	28.1	25.7	-88.55	-6,163.3	1,408.6	5,779.7	5,732.1	47.65	121.285	
8,070.8	7,065.6	7,123.2	6,960.2	28.9	25.7	-88.56	-6,163.3	1,408.6	5,715.1	5,666.5	48.67	117.424	
8,100.0	7,065.4	7,123.3	6,960.3	29.3	25.7	-88.56	-6,163.3	1,408.6	5,688.6	5,639.5	49.09	115.883	
8,169.3	7,065.0	7,123.6	6,960.5	30.2	25.7	-88.57	-6,163.3	1,408.6	5,625.6	5,575.5	50.12	112.232	
8,200.0	7,064.8	7,123.7	6,960.7	30.6	25.7	-88.57	-6,163.3	1,408.6	5,597.8	5,547.2	50.58	110.662	
8,267.7	7,064.4	7,124.0	6,960.9	31.5	25.7	-88.58	-6,163.3	1,408.6	5,536.4	5,484.8	51.63	107.230	
8,300.0	7,064.2	7,124.1	6,961.0	31.9	25.7	-88.58	-6,163.3	1,408.6	5,507.2	5,455.1	52.13	105.642	
8,366.1	7,063.7	7,124.3	6,961.3	32.8	25.7	-88.59	-6,163.3	1,408.6	5,447.6	5,394.4	53.18	102.432	
8,400.0	7,063.5	7,124.5	6,961.4	33.3	25.7	-88.59	-6,163.3	1,408.6	5,417.1	5,363.3	53.72	100.837	
8,464.5	7,063.1	7,124.7	6,961.7	34.2	25.7	-88.60	-6,163.3	1,408.6	5,359.0	5,304.3	54.77	97.845	
8,500.0	7,062.9	7,124.9	6,961.8	34.8	25.7	-88.60	-6,163.3	1,408.6	5,327.2	5,271.9	55.35	96.251	
8,563.0	7,062.5	7,125.1	6,962.1	35.7	25.7	-88.61	-6,163.3	1,408.6	5,270.8	5,214.4	56.39	93.469	
8,600.0	7,062.3	7,125.3	6,962.2	36.3	25.7	-88.61	-6,163.3	1,408.6	5,237.8	5,180.7	57.00	91.882	
8,661.4	7,061.9	7,125.5	6,962.5	37.2	25.7	-88.62	-6,163.3	1,408.6	5,183.0	5,125.0	58.04	89.302	
8,700.0	7,061.6	7,125.7	6,962.6	37.8	25.7	-88.62	-6,163.3	1,408.6	5,148.7	5,090.0	58.69	87.727	
8,759.8	7,061.3	7,125.9	6,962.9	38.8	25.7	-88.63	-6,163.3	1,408.6	5,095.6	5,035.9	59.71	85.337	
8,800.0	7,061.0	7,126.1	6,963.0	39.4	25.7	-88.63	-6,163.3	1,408.6	5,060.0	4,999.6	60.40	83.778	
8,858.2	7,060.6	7,126.3	6,963.3	40.3	25.7	-88.64	-6,163.3	1,408.6	5,008.5	4,947.1	61.40	81.567	
8,900.0	7,060.4	7,126.5	6,963.5	41.0	25.7	-88.64	-6,163.3	1,408.6	4,971.8	4,909.6	62.13	80.028	
8,956.7	7,060.0	7,126.7	6,963.7	41.9	25.7	-88.65	-6,163.3	1,408.6	4,921.9	4,858.8	63.11	77.984	
9,000.0	7,059.8	7,126.9	6,963.9	42.6	25.7	-88.65	-6,163.4	1,408.6	4,884.0	4,820.1	63.87	76.466	
9,055.1	7,059.4	7,127.1	6,964.1	43.6	25.7	-88.66	-6,163.4	1,408.6	4,835.8	4,771.0	64.84	74.579	
9,100.0	7,059.1	7,127.3	6,964.3	44.3	25.7	-88.66	-6,163.4	1,408.6	4,796.7	4,731.0	65.63	73.085	
9,153.5	7,058.8	7,127.6	6,964.5	45.2	25.7	-88.67	-6,163.4	1,408.6	4,750.1	4,683.5	66.58	71.343	
9,200.0	7,058.5	7,127.8	6,964.7	46.0	25.7	-88.67	-6,163.4	1,408.6	4,709.8	4,642.4	67.41	69.873	
9,251.9	7,058.2	7,128.0	6,964.9	46.9	25.7	-88.68	-6,163.4	1,408.7	4,665.0	4,596.6	68.33	68.268	
9,300.0	7,057.9	7,128.2	6,965.1	47.7	25.7	-88.68	-6,163.4	1,408.7	4,623.6	4,554.4	69.19	66.823	
9,350.4	7,057.6	7,128.4	6,965.4	48.6	25.7	-88.69	-6,163.4	1,408.7	4,580.3	4,510.2	70.10	65.343	
9,400.0	7,057.2	7,128.6	6,965.6	49.4	25.7	-88.69	-6,163.4	1,408.7	4,537.9	4,466.9	70.99	63.924	
9,448.8	7,056.9	7,128.8	6,965.8	50.3	25.7	-88.70	-6,163.4	1,408.7	4,496.3	4,424.4	71.87	62.561	
9,500.0	7,056.6	7,129.1	6,966.0	51.1	25.7	-88.70	-6,163.4	1,408.7	4,452.7	4,380.0	72.79	61.169	
9,547.2	7,056.3	7,129.3	6,966.2	52.0	25.7	-88.71	-6,163.4	1,408.7	4,412.8	4,339.1	73.65	59.914	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
9,600.0	7,056.0	7,129.5	6,966.5	52.9	25.7	-88.71	-6,163.4	1,408.7	4,368.3	4,293.7	74.61	58.549	
9,645.6	7,055.7	7,129.7	6,966.7	53.7	25.7	-88.72	-6,163.4	1,408.7	4,329.9	4,254.5	75.44	57.395	
9,700.0	7,055.4	7,129.9	6,966.9	54.6	25.7	-88.73	-6,163.4	1,408.7	4,284.5	4,208.0	76.43	56.057	
9,744.1	7,055.1	7,130.1	6,967.1	55.4	25.7	-88.73	-6,163.4	1,408.7	4,247.7	4,170.5	77.24	54.996	
9,800.0	7,054.7	7,130.4	6,967.3	56.4	25.7	-88.74	-6,163.4	1,408.7	4,201.3	4,123.1	78.26	53.685	
9,842.5	7,054.5	7,130.6	6,967.5	57.2	25.7	-88.74	-6,163.4	1,408.7	4,166.2	4,087.2	79.04	52.711	
9,900.0	7,054.1	7,130.8	6,967.8	58.2	25.7	-88.75	-6,163.4	1,408.7	4,119.0	4,038.9	80.09	51.427	
9,940.9	7,053.8	7,131.0	6,968.0	58.9	25.7	-88.75	-6,163.4	1,408.7	4,085.5	4,004.7	80.85	50.534	
10,000.0	7,053.5	7,131.3	6,968.3	60.0	25.7	-88.76	-6,163.4	1,408.7	4,037.4	3,955.5	81.93	49.276	
10,039.3	7,053.2	7,131.5	6,968.4	60.7	25.7	-88.76	-6,163.4	1,408.7	4,005.6	3,922.9	82.66	48.458	
10,100.0	7,052.8	7,131.8	6,968.7	61.8	25.7	-88.77	-6,163.4	1,408.7	3,956.7	3,872.9	83.78	47.227	
10,137.8	7,052.6	7,131.9	6,968.9	62.4	25.7	-88.77	-6,163.4	1,408.7	3,926.5	3,842.0	84.48	46.479	
10,200.0	7,052.2	7,132.2	6,969.2	63.6	25.7	-88.78	-6,163.4	1,408.7	3,876.9	3,791.3	85.63	45.275	
10,236.2	7,052.0	7,132.4	6,969.4	64.2	25.7	-88.79	-6,163.4	1,408.7	3,848.2	3,761.9	86.30	44.591	
10,300.0	7,051.6	7,132.7	6,969.7	65.4	25.7	-88.79	-6,163.4	1,408.7	3,798.0	3,710.6	87.48	43.414	
10,334.6	7,051.4	7,132.9	6,969.8	66.0	25.7	-88.80	-6,163.4	1,408.7	3,771.0	3,682.8	88.13	42.790	
10,400.0	7,051.0	7,133.2	6,970.1	67.2	25.7	-88.80	-6,163.4	1,408.7	3,720.2	3,630.9	89.34	41.640	
10,433.0	7,050.7	7,133.3	6,970.3	67.8	25.7	-88.81	-6,163.4	1,408.7	3,694.7	3,604.8	89.96	41.072	
10,500.0	7,050.3	7,133.7	6,970.6	69.0	25.7	-88.82	-6,163.4	1,408.7	3,643.4	3,552.2	91.20	39.948	
10,531.5	7,050.1	7,133.8	6,970.8	69.6	25.7	-88.82	-6,163.4	1,408.7	3,619.5	3,527.7	91.79	39.432	
10,600.0	7,049.7	7,134.1	6,971.1	70.8	25.7	-88.83	-6,163.4	1,408.7	3,567.8	3,474.8	93.07	38.335	
10,629.9	7,049.5	7,134.3	6,971.2	71.4	25.7	-88.83	-6,163.4	1,408.7	3,545.5	3,451.8	93.63	37.868	
10,700.0	7,049.1	7,134.6	6,971.6	72.7	25.7	-88.84	-6,163.4	1,408.7	3,493.5	3,398.5	94.94	36.798	
10,728.3	7,048.9	7,134.8	6,971.7	73.2	25.7	-88.84	-6,163.4	1,408.7	3,472.6	3,377.2	95.47	36.375	
10,800.0	7,048.4	7,135.1	6,972.1	74.5	25.7	-88.85	-6,163.4	1,408.8	3,420.4	3,323.6	96.81	35.332	
10,826.7	7,048.3	7,135.3	6,972.2	75.0	25.7	-88.85	-6,163.5	1,408.8	3,401.1	3,303.8	97.31	34.951	
10,900.0	7,047.8	7,135.6	6,972.6	76.3	25.7	-88.86	-6,163.5	1,408.8	3,348.7	3,250.0	98.68	33.935	
10,925.2	7,047.7	7,135.8	6,972.7	76.8	25.7	-88.87	-6,163.5	1,408.8	3,330.9	3,231.7	99.15	33.594	
11,000.0	7,047.2	7,136.1	6,973.1	78.2	25.7	-88.88	-6,163.5	1,408.8	3,278.5	3,177.9	100.56	32.604	
11,023.6	7,047.0	7,136.3	6,973.2	78.6	25.7	-88.88	-6,163.5	1,408.8	3,262.2	3,161.2	101.00	32.299	
11,100.0	7,046.6	7,136.6	6,973.6	80.0	25.7	-88.89	-6,163.5	1,408.8	3,209.9	3,107.4	102.43	31.336	
11,122.0	7,046.4	7,136.8	6,973.7	80.4	25.7	-88.89	-6,163.5	1,408.8	3,195.0	3,092.1	102.85	31.065	
11,200.0	7,045.9	7,137.2	6,974.1	81.9	25.7	-88.90	-6,163.5	1,408.8	3,142.9	3,038.6	104.31	30.130	
11,220.4	7,045.8	7,137.3	6,974.2	82.3	25.7	-88.90	-6,163.5	1,408.8	3,129.5	3,024.8	104.70	29.890	
11,300.0	7,045.3	7,137.7	6,974.6	83.7	25.7	-88.91	-6,163.5	1,408.8	3,077.8	2,971.6	106.19	28.983	
11,318.9	7,045.2	7,137.8	6,974.7	84.1	25.7	-88.92	-6,163.5	1,408.8	3,065.7	2,959.2	106.55	28.772	
11,400.0	7,044.7	7,138.2	6,975.2	85.6	25.7	-88.93	-6,163.5	1,408.8	3,014.6	2,906.5	108.08	27.892	
11,417.3	7,044.6	7,138.3	6,975.3	85.9	25.7	-88.93	-6,163.5	1,408.8	3,003.8	2,895.4	108.40	27.709	
11,500.0	7,044.0	7,138.7	6,975.7	87.5	25.7	-88.94	-6,163.5	1,408.8	2,953.4	2,843.4	109.96	26.858	
11,515.7	7,043.9	7,138.8	6,975.8	87.7	25.7	-88.94	-6,163.5	1,408.8	2,943.9	2,833.7	110.26	26.700	
11,600.0	7,043.4	7,139.3	6,976.2	89.3	25.7	-88.95	-6,163.5	1,408.8	2,894.3	2,782.5	111.85	25.877	
11,614.1	7,043.3	7,139.4	6,976.3	89.6	25.7	-88.95	-6,163.5	1,408.8	2,886.2	2,774.0	112.12	25.742	
11,700.0	7,042.8	7,139.8	6,976.8	91.2	25.7	-88.97	-6,163.5	1,408.8	2,837.6	2,723.9	113.74	24.948	
11,712.6	7,042.7	7,139.9	6,976.8	91.4	25.7	-88.97	-6,163.5	1,408.8	2,830.6	2,716.6	113.98	24.835	
11,800.0	7,042.2	7,140.4	6,977.3	93.0	25.7	-88.98	-6,163.5	1,408.8	2,783.3	2,667.7	115.63	24.071	
11,811.0	7,042.1	7,140.4	6,977.4	93.2	25.7	-88.98	-6,163.5	1,408.8	2,777.5	2,661.6	115.84	23.978	
11,900.0	7,041.5	7,140.9	6,977.9	94.9	25.7	-88.99	-6,163.5	1,408.8	2,731.6	2,614.0	117.52	23.244	
11,909.4	7,041.5	7,141.0	6,977.9	95.1	25.7	-88.99	-6,163.5	1,408.8	2,726.8	2,609.1	117.70	23.168	
12,000.0	7,040.9	7,141.5	6,978.4	96.8	25.7	-89.01	-6,163.5	1,408.8	2,682.6	2,563.2	119.41	22.465	
12,007.8	7,040.8	7,141.5	6,978.5	96.9	25.7	-89.01	-6,163.5	1,408.8	2,678.9	2,559.3	119.56	22.406	
12,100.0	7,040.3	7,142.1	6,979.0	98.7	25.7	-89.02	-6,163.5	1,408.8	2,636.5	2,515.2	121.30	21.734	
12,106.3	7,040.2	7,142.1	6,979.0	98.8	25.7	-89.02	-6,163.5	1,408.8	2,633.7	2,512.3	121.42	21.690	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
12,200.0	7,039.6	7,142.6	6,979.6	100.5	25.7	-89.03	-6,163.5	1,408.9	2,593.4	2,470.2	123.20	21.051	
12,204.7	7,039.6	7,142.7	6,979.6	100.6	25.7	-89.03	-6,163.5	1,408.9	2,591.5	2,468.2	123.29	21.020	
12,300.0	7,039.0	7,143.2	6,980.2	102.4	25.7	-89.05	-6,163.5	1,408.9	2,553.5	2,428.4	125.09	20.413	
12,303.1	7,039.0	7,143.2	6,980.2	102.5	25.7	-89.05	-6,163.6	1,408.9	2,552.3	2,427.2	125.15	20.394	
12,400.0	7,038.4	7,143.8	6,980.7	104.3	25.7	-89.06	-6,163.6	1,408.9	2,517.0	2,390.0	126.99	19.820	
12,401.5	7,038.4	7,143.8	6,980.8	104.3	25.7	-89.06	-6,163.6	1,408.9	2,516.5	2,389.4	127.02	19.812	
12,500.0	7,037.8	7,144.4	6,981.3	106.2	25.7	-89.08	-6,163.6	1,408.9	2,484.0	2,355.1	128.89	19.272	
12,598.4	7,037.1	7,145.0	6,981.9	108.0	25.7	-89.09	-6,163.6	1,408.9	2,455.0	2,324.2	130.75	18.776	
12,600.0	7,037.1	7,145.0	6,981.9	108.0	25.7	-89.09	-6,163.6	1,408.9	2,454.5	2,323.8	130.79	18.768	
12,696.8	7,036.5	7,145.6	6,982.5	109.9	25.7	-89.11	-6,163.6	1,408.9	2,429.7	2,297.0	132.62	18.320	
12,700.0	7,036.5	7,145.6	6,982.5	109.9	25.7	-89.11	-6,163.6	1,408.9	2,428.9	2,296.2	132.68	18.306	
12,795.2	7,035.9	7,146.2	6,983.1	111.7	25.7	-89.12	-6,163.6	1,408.9	2,408.1	2,273.6	134.49	17.905	
12,800.0	7,035.9	7,146.2	6,983.2	111.8	25.7	-89.12	-6,163.6	1,408.9	2,407.1	2,272.6	134.58	17.886	
12,893.7	7,035.3	7,146.8	6,983.7	113.6	25.7	-89.13	-6,163.6	1,408.9	2,390.4	2,254.0	136.36	17.529	
12,900.0	7,035.2	7,146.8	6,983.8	113.7	25.7	-89.14	-6,163.6	1,408.9	2,389.4	2,252.9	136.48	17.507	
12,992.1	7,034.7	7,147.4	6,984.4	115.4	25.7	-89.15	-6,163.6	1,408.9	2,376.6	2,238.4	138.24	17.193	
13,000.0	7,034.6	7,147.4	6,984.4	115.6	25.7	-89.15	-6,163.6	1,408.9	2,375.7	2,237.3	138.39	17.167	
13,090.5	7,034.0	7,148.0	6,985.0	117.3	25.7	-89.16	-6,163.6	1,408.9	2,366.9	2,226.8	140.11	16.893	
13,100.0	7,034.0	7,148.1	6,985.0	117.5	25.7	-89.17	-6,163.6	1,408.9	2,366.1	2,225.9	140.29	16.866	
13,188.9	7,033.4	7,148.7	6,985.6	119.1	25.7	-89.18	-6,163.6	1,408.9	2,361.2	2,219.2	141.98	16.630	
13,200.0	7,033.4	7,148.7	6,985.7	119.3	25.7	-89.18	-6,163.6	1,408.9	2,360.8	2,218.6	142.19	16.603	
13,276.2	7,032.9	7,149.2	6,986.2	120.8	25.7	-89.19	-6,163.6	1,408.9	2,359.6	2,215.9	143.64	16.427 CC	
13,287.4	7,032.8	7,149.3	6,986.2	121.0	25.7	-89.20	-6,163.6	1,408.9	2,359.6	2,215.7	143.85	16.403	
13,300.0	7,032.7	7,149.4	6,986.3	121.2	25.7	-89.20	-6,163.6	1,408.9	2,359.7	2,215.6	144.09	16.376 ES	
13,385.8	7,032.2	7,149.9	6,986.9	122.9	25.7	-89.21	-6,163.6	1,409.0	2,362.1	2,216.4	145.73	16.209	
13,400.0	7,032.1	7,150.0	6,987.0	123.1	25.7	-89.21	-6,163.6	1,409.0	2,362.8	2,216.8	146.00	16.184	
13,484.2	7,031.6	7,151.0	6,988.0	124.7	25.7	-89.24	-6,163.7	1,409.0	2,368.7	2,221.1	147.60	16.048	
13,500.0	7,031.5	7,151.0	6,988.0	125.0	25.7	-89.24	-6,163.7	1,409.0	2,370.2	2,222.3	147.90	16.025	
13,582.6	7,030.9	7,151.3	6,988.2	126.6	25.7	-89.24	-6,163.7	1,409.0	2,379.4	2,229.9	149.48	15.918	
13,600.0	7,030.8	7,151.4	6,988.4	126.9	25.7	-89.25	-6,163.7	1,409.0	2,381.7	2,231.9	149.81	15.899	
13,681.1	7,030.3	7,152.0	6,988.9	128.4	25.7	-89.26	-6,163.7	1,409.0	2,394.1	2,242.7	151.35	15.818	
13,700.0	7,030.2	7,152.1	6,989.1	128.8	25.7	-89.26	-6,163.7	1,409.0	2,397.3	2,245.6	151.71	15.802	
13,779.5	7,029.7	7,152.7	6,989.7	130.3	25.7	-89.28	-6,163.7	1,409.0	2,412.7	2,259.4	153.23	15.746	
13,800.0	7,029.6	7,152.9	6,989.8	130.7	25.7	-89.28	-6,163.7	1,409.0	2,417.0	2,263.4	153.62	15.734	
13,877.9	7,029.1	7,153.4	6,990.4	132.2	25.7	-89.30	-6,163.7	1,409.0	2,435.1	2,280.0	155.10	15.700	
13,900.0	7,029.0	7,153.6	6,990.5	132.6	25.7	-89.30	-6,163.7	1,409.0	2,440.6	2,285.1	155.52	15.693	
13,976.3	7,028.5	7,154.1	6,991.1	134.0	25.7	-89.31	-6,163.7	1,409.0	2,461.3	2,304.3	156.98	15.679	
14,000.0	7,028.3	7,154.3	6,991.3	134.5	25.7	-89.32	-6,163.7	1,409.0	2,468.1	2,310.7	157.43	15.677 SF	
14,074.8	7,027.9	7,154.8	6,991.8	135.9	25.7	-89.33	-6,163.7	1,409.0	2,491.1	2,332.2	158.86	15.681	
14,100.0	7,027.7	7,155.0	6,992.0	136.4	25.7	-89.33	-6,163.7	1,409.0	2,499.3	2,339.9	159.34	15.685	
14,173.2	7,027.2	7,155.5	6,992.5	137.8	25.7	-89.35	-6,163.7	1,409.0	2,524.3	2,363.6	160.73	15.705	
14,200.0	7,027.1	7,155.7	6,992.7	138.3	25.7	-89.35	-6,163.7	1,409.0	2,534.0	2,372.7	161.25	15.715	
14,210.5	7,027.0	7,155.8	6,992.7	138.5	25.7	-89.35	-6,163.7	1,409.0	2,537.8	2,376.4	161.45	15.719	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	170.71	-5,114.8	836.7	5,182.8				
98.4	98.4	104.5	104.5	0.1	0.1	170.71	-5,114.7	836.5	5,182.7	5,182.5	0.18	N/A	
100.0	100.0	106.4	106.4	0.1	0.1	170.71	-5,114.7	836.5	5,182.7	5,182.5	0.19	N/A	
196.8	196.8	225.6	225.6	0.3	0.2	170.72	-5,114.1	835.7	5,182.1	5,181.6	0.51	N/A	
200.0	200.0	229.5	229.5	0.3	0.2	170.72	-5,114.0	835.7	5,182.0	5,181.5	0.52	N/A	
295.3	295.3	297.0	297.0	0.5	0.3	170.72	-5,113.6	835.2	5,181.4	5,180.6	0.83	6,218.124	
300.0	300.0	299.5	299.5	0.5	0.3	170.72	-5,113.6	835.2	5,181.4	5,180.5	0.85	6,103.534	
327.4	327.4	313.9	313.9	0.6	0.3	170.73	-5,113.6	835.1	5,181.3	5,180.4	0.94	5,514.018	
393.7	393.7	351.0	351.0	0.8	0.4	170.73	-5,113.7	835.0	5,181.5	5,180.4	1.16	4,453.573	
400.0	400.0	351.0	351.0	0.8	0.4	170.73	-5,113.7	835.0	5,181.6	5,180.4	1.18	4,400.055	
492.1	492.1	401.6	401.6	1.0	0.5	170.73	-5,114.3	835.0	5,182.6	5,181.1	1.49	3,481.961	
500.0	500.0	405.8	405.8	1.0	0.5	170.73	-5,114.4	835.0	5,182.7	5,181.2	1.51	3,421.449	
590.5	590.5	479.0	479.0	1.2	0.7	170.73	-5,115.9	835.4	5,184.6	5,182.7	1.87	2,775.715	
600.0	600.0	479.0	479.0	1.2	0.7	170.73	-5,115.9	835.4	5,184.8	5,182.9	1.89	2,744.605	
689.0	689.0	479.0	479.0	1.4	0.7	170.73	-5,115.9	835.4	5,187.4	5,185.3	2.09	2,483.113	
700.0	700.0	479.0	479.0	1.4	0.7	170.73	-5,115.9	835.4	5,187.8	5,185.7	2.11	2,454.206	
787.4	787.4	541.8	541.8	1.6	0.8	170.72	-5,118.0	836.4	5,191.1	5,188.7	2.45	2,117.944	
800.0	800.0	547.1	547.0	1.7	0.8	170.72	-5,118.3	836.5	5,191.7	5,189.2	2.49	2,084.129	
885.8	885.8	607.0	606.8	1.9	1.0	170.70	-5,121.2	838.5	5,196.2	5,193.4	2.82	1,843.789	
900.0	900.0	607.0	606.8	1.9	1.0	170.70	-5,121.2	838.5	5,196.9	5,194.1	2.85	1,823.439	
984.2	984.2	607.0	606.8	2.1	1.0	170.70	-5,121.2	838.5	5,202.2	5,199.1	3.04	1,711.549	
1,000.0	1,000.0	607.0	606.8	2.1	1.0	170.70	-5,121.2	838.5	5,203.3	5,200.2	3.07	1,692.210	
1,082.7	1,082.7	666.0	665.6	2.3	1.1	170.68	-5,125.2	841.3	5,209.4	5,206.0	3.41	1,529.691	
1,100.0	1,100.0	666.0	665.6	2.3	1.1	170.68	-5,125.2	841.3	5,210.8	5,207.3	3.44	1,512.796	
1,181.1	1,181.1	704.3	703.7	2.5	1.2	-115.04	-5,128.2	843.4	5,218.2	5,214.5	3.71	1,407.911	
1,200.0	1,200.0	726.0	725.3	2.6	1.3	-115.03	-5,129.9	844.7	5,220.2	5,216.4	3.80	1,374.399	
1,279.5	1,279.4	726.0	725.3	2.7	1.3	-114.86	-5,129.9	844.7	5,229.4	5,225.5	3.97	1,316.971	
1,300.0	1,299.8	726.0	725.3	2.8	1.3	-114.81	-5,129.9	844.7	5,232.2	5,228.2	4.02	1,303.092	
1,377.9	1,377.5	779.9	778.8	2.9	1.4	-114.68	-5,134.9	848.4	5,243.0	5,238.7	4.32	1,212.433	
1,400.0	1,399.5	787.1	786.0	3.0	1.4	-114.63	-5,135.6	848.9	5,246.4	5,242.0	4.39	1,194.551	
1,476.4	1,475.3	854.0	852.3	3.2	1.6	-114.52	-5,143.3	854.2	5,259.8	5,255.0	4.74	1,109.608	
1,500.0	1,498.7	854.0	852.3	3.2	1.6	-114.44	-5,143.3	854.2	5,263.9	5,259.1	4.80	1,097.100	
1,574.8	1,572.6	854.0	852.3	3.4	1.6	-114.18	-5,143.3	854.2	5,278.2	5,273.2	5.00	1,055.526	
1,600.0	1,597.5	854.0	852.3	3.5	1.6	-114.08	-5,143.3	854.2	5,283.4	5,278.3	5.07	1,042.380	
1,673.2	1,669.4	854.0	852.3	3.7	1.6	-113.77	-5,143.3	854.2	5,299.7	5,294.4	5.29	1,001.463	
1,700.2	1,695.8	854.0	852.3	3.8	1.6	-113.65	-5,143.3	854.2	5,306.1	5,300.8	5.37	987.348	
1,771.6	1,765.7	904.7	902.3	4.1	1.8	-113.80	-5,150.2	858.9	5,323.2	5,317.4	5.75	925.762	
1,800.0	1,793.4	913.4	910.8	4.2	1.8	-113.82	-5,151.4	859.8	5,330.2	5,324.4	5.87	908.447	
1,870.1	1,862.0	934.7	931.7	4.4	1.9	-113.89	-5,154.6	862.1	5,348.0	5,341.9	6.17	866.730	
1,900.0	1,891.2	983.0	979.1	4.5	2.1	-114.04	-5,162.4	867.9	5,356.3	5,349.9	6.41	836.153	
1,968.5	1,958.3	983.0	979.1	4.8	2.1	-114.04	-5,162.4	867.9	5,374.2	5,367.5	6.66	807.511	
2,000.0	1,989.1	983.0	979.1	4.9	2.1	-114.04	-5,162.4	867.9	5,382.7	5,375.9	6.77	795.090	
2,066.9	2,054.5	983.0	979.1	5.2	2.1	-114.04	-5,162.4	867.9	5,401.3	5,394.3	7.02	769.286	
2,100.0	2,086.9	983.0	979.1	5.3	2.1	-114.04	-5,162.4	867.9	5,410.8	5,403.6	7.15	757.241	
2,165.3	2,150.8	983.0	979.1	5.6	2.1	-114.04	-5,162.4	867.9	5,430.1	5,422.7	7.40	734.113	
2,200.0	2,184.7	983.0	979.1	5.7	2.1	-114.04	-5,162.4	867.9	5,440.6	5,433.1	7.53	722.517	
2,263.8	2,247.1	1,042.5	1,037.0	6.0	2.4	-114.22	-5,173.2	875.8	5,459.3	5,451.3	7.96	685.882	
2,300.0	2,282.5	1,051.6	1,045.9	6.1	2.4	-114.25	-5,175.0	877.1	5,470.5	5,462.4	8.13	672.976	
2,362.2	2,343.3	1,111.0	1,103.3	6.4	2.7	-114.44	-5,187.6	885.7	5,490.8	5,482.2	8.55	641.968	
2,400.0	2,380.3	1,111.0	1,103.3	6.6	2.7	-114.44	-5,187.6	885.7	5,502.7	5,494.0	8.70	632.259	
2,460.6	2,439.6	1,111.0	1,103.3	6.8	2.7	-114.44	-5,187.6	885.7	5,522.2	5,513.3	8.95	617.213	
2,500.0	2,478.1	1,111.0	1,103.3	7.0	2.7	-114.44	-5,187.6	885.7	5,535.3	5,526.2	9.11	607.909	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	1,111.0	1,103.3	7.2	2.7	-114.44	-5,187.6	885.7	5,555.3	5,546.0	9.35	594.439	
2,600.0	2,575.9	1,111.0	1,103.3	7.4	2.7	-114.44	-5,187.6	885.7	5,569.5	5,560.0	9.51	585.533	
2,657.5	2,632.2	1,159.9	1,150.3	7.7	2.9	-114.60	-5,198.7	893.3	5,589.4	5,579.5	9.90	564.420	
2,700.0	2,673.8	1,177.2	1,166.9	7.8	3.0	-114.66	-5,202.8	896.1	5,604.5	5,594.3	10.13	553.150	
2,755.9	2,728.4	1,199.9	1,188.6	8.1	3.2	-114.73	-5,208.2	899.8	5,624.5	5,614.0	10.43	539.067	
2,800.0	2,771.6	1,240.0	1,226.9	8.3	3.4	-114.87	-5,217.9	906.6	5,640.6	5,629.8	10.74	525.142	
2,854.3	2,824.7	1,240.0	1,226.9	8.5	3.4	-114.87	-5,217.9	906.6	5,660.4	5,649.4	10.97	516.168	
2,900.0	2,869.4	1,240.0	1,226.9	8.7	3.4	-114.87	-5,217.9	906.6	5,677.4	5,666.3	11.16	508.935	
2,952.7	2,921.0	1,240.0	1,226.9	8.9	3.4	-114.87	-5,217.9	906.6	5,697.5	5,686.1	11.38	500.864	
3,000.0	2,967.2	1,291.1	1,275.6	9.2	3.7	-115.04	-5,230.9	915.4	5,715.2	5,703.5	11.74	486.994	
3,051.2	3,017.3	1,309.1	1,292.7	9.4	3.8	-115.10	-5,235.6	918.5	5,735.0	5,723.0	12.01	477.629	
3,100.0	3,065.0	1,326.3	1,308.9	9.6	3.9	-115.15	-5,240.2	921.4	5,754.0	5,741.8	12.27	469.114	
3,149.6	3,113.5	1,368.0	1,348.4	9.8	4.2	-115.29	-5,251.6	928.5	5,773.7	5,761.1	12.61	458.015	
3,200.0	3,162.8	1,368.0	1,348.4	10.0	4.2	-115.29	-5,251.6	928.5	5,793.8	5,781.0	12.82	452.027	
3,248.0	3,209.8	1,368.0	1,348.4	10.3	4.2	-115.29	-5,251.6	928.5	5,813.2	5,800.2	13.02	446.504	
3,300.0	3,260.6	1,368.0	1,348.4	10.5	4.2	-115.29	-5,251.6	928.5	5,834.6	5,821.4	13.24	440.746	
3,346.4	3,306.1	1,415.3	1,393.0	10.7	4.5	-115.44	-5,265.1	936.7	5,853.6	5,840.0	13.59	430.755	
3,400.0	3,358.4	1,435.0	1,411.5	10.9	4.6	-115.50	-5,270.8	940.3	5,875.9	5,862.0	13.88	423.323	
3,444.9	3,402.3	1,451.4	1,426.9	11.1	4.7	-115.56	-5,275.6	943.4	5,894.8	5,880.7	14.12	417.334	
3,500.0	3,456.3	1,496.0	1,468.6	11.4	5.0	-115.70	-5,288.8	952.2	5,918.4	5,903.9	14.51	407.977	
3,543.3	3,498.6	1,496.0	1,468.6	11.6	5.0	-115.70	-5,288.8	952.2	5,936.9	5,922.2	14.69	404.149	
3,600.0	3,554.1	1,496.0	1,468.6	11.8	5.0	-115.70	-5,288.8	952.2	5,961.6	5,946.6	14.93	399.305	
3,641.7	3,594.9	1,496.0	1,468.6	12.0	5.0	-115.70	-5,288.8	952.2	5,980.0	5,964.9	15.11	395.847	
3,700.0	3,651.9	1,540.2	1,509.7	12.3	5.3	-115.86	-5,302.2	961.3	6,005.6	5,990.1	15.52	387.071	
3,740.1	3,691.2	1,553.6	1,522.1	12.5	5.4	-115.90	-5,306.4	964.1	6,023.6	6,007.9	15.73	382.836	
3,800.0	3,749.7	1,573.4	1,540.4	12.7	5.6	-115.97	-5,312.6	968.3	6,050.6	6,034.6	16.06	376.778	
3,838.6	3,787.4	1,625.0	1,588.0	12.9	6.0	-116.14	-5,329.2	979.4	6,068.5	6,052.1	16.40	369.944	
3,900.0	3,847.5	1,625.0	1,588.0	13.2	6.0	-116.14	-5,329.2	979.4	6,096.5	6,079.8	16.66	365.835	
3,937.0	3,883.7	1,625.0	1,588.0	13.3	6.0	-116.14	-5,329.2	979.4	6,113.6	6,096.8	16.82	363.430	
4,000.0	3,945.3	1,657.7	1,618.0	13.6	6.2	-116.26	-5,339.8	986.7	6,143.0	6,125.8	17.21	356.958	
4,035.4	3,980.0	1,685.1	1,643.2	13.8	6.4	-116.35	-5,348.7	993.0	6,159.6	6,142.2	17.46	352.797	
4,100.0	4,043.1	1,734.7	1,688.7	14.1	6.8	-116.53	-5,364.7	1,004.6	6,190.0	6,172.1	17.91	345.582	
4,133.8	4,076.3	1,753.0	1,705.5	14.2	6.9	-116.59	-5,370.6	1,009.0	6,205.9	6,187.8	18.12	342.479	
4,200.0	4,141.0	1,753.0	1,705.5	14.5	6.9	-116.59	-5,370.6	1,009.0	6,237.4	6,219.0	18.40	338.955	
4,232.3	4,172.5	1,753.0	1,705.5	14.7	6.9	-116.59	-5,370.6	1,009.0	6,253.0	6,234.5	18.54	337.283	
4,300.0	4,238.8	1,805.1	1,753.0	15.0	7.4	-116.78	-5,387.6	1,021.9	6,285.5	6,266.4	19.03	330.268	
4,330.7	4,268.8	1,814.0	1,761.1	15.1	7.4	-116.81	-5,390.6	1,024.2	6,300.4	6,281.2	19.20	328.200	
4,400.0	4,336.6	1,834.1	1,779.3	15.4	7.6	-116.89	-5,397.3	1,029.4	6,334.5	6,314.9	19.57	323.693	
4,429.1	4,365.1	1,882.0	1,822.5	15.6	8.0	-117.06	-5,413.7	1,042.1	6,349.3	6,329.4	19.88	319.439	
4,500.0	4,434.4	1,882.0	1,822.5	15.9	8.0	-117.06	-5,413.7	1,042.1	6,384.4	6,364.2	20.18	316.405	
4,527.5	4,461.3	1,882.0	1,822.5	16.0	8.0	-117.06	-5,413.7	1,042.1	6,398.2	6,377.9	20.30	315.256	
4,600.0	4,532.2	1,882.0	1,822.5	16.4	8.0	-117.06	-5,413.7	1,042.1	6,435.0	6,414.4	20.60	312.319	
4,626.0	4,557.6	1,882.0	1,822.5	16.5	8.0	-117.06	-5,413.7	1,042.1	6,448.3	6,427.6	20.71	311.293	
4,700.0	4,630.0	1,923.6	1,859.8	16.8	8.4	-117.22	-5,428.3	1,053.5	6,486.3	6,465.1	21.21	305.859	
4,724.4	4,653.9	1,931.3	1,866.6	16.9	8.4	-117.25	-5,431.0	1,055.5	6,499.0	6,477.7	21.34	304.500	
4,800.0	4,727.8	1,954.8	1,887.5	17.3	8.6	-117.33	-5,439.5	1,062.0	6,538.5	6,516.7	21.76	300.424	
4,822.8	4,750.2	1,961.8	1,893.8	17.4	8.7	-117.36	-5,442.0	1,064.0	6,550.5	6,528.6	21.89	299.232	
4,900.0	4,825.6	2,010.0	1,936.6	17.7	9.2	-117.53	-5,459.7	1,077.4	6,591.5	6,569.0	22.42	294.001	
4,921.2	4,846.4	2,010.0	1,936.6	17.8	9.2	-117.53	-5,459.7	1,077.4	6,602.7	6,580.2	22.51	293.319	
5,000.0	4,923.5	2,010.0	1,936.6	18.2	9.2	-117.53	-5,459.7	1,077.4	6,645.0	6,622.1	22.85	290.859	
5,019.7	4,942.7	2,010.0	1,936.6	18.3	9.2	-117.53	-5,459.7	1,077.4	6,655.6	6,632.7	22.93	290.259	
5,100.0	5,021.3	2,010.0	1,936.6	18.6	9.2	-117.53	-5,459.7	1,077.4	6,699.5	6,676.2	23.27	287.875	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
5,118.1	5,039.0	2,051.7	1,973.3	18.7	9.6	-117.68	-5,475.4	1,089.2	6,709.1	6,685.6	23.53	285.163	
5,200.0	5,119.1	2,076.1	1,994.7	19.1	9.8	-117.77	-5,484.8	1,096.1	6,754.2	6,730.3	23.98	281.665	
5,216.5	5,135.3	2,081.0	1,999.0	19.2	9.8	-117.79	-5,486.7	1,097.5	6,763.4	6,739.3	24.07	280.979	
5,300.0	5,216.9	2,138.0	2,048.9	19.6	10.4	-117.99	-5,509.1	1,113.9	6,810.1	6,785.5	24.67	276.103	
5,314.9	5,231.5	2,138.0	2,048.9	19.6	10.4	-117.99	-5,509.1	1,113.9	6,818.5	6,793.7	24.73	275.729	
5,400.0	5,314.7	2,138.0	2,048.9	20.0	10.4	-117.99	-5,509.1	1,113.9	6,866.3	6,841.2	25.09	273.654	
5,413.4	5,327.8	2,140.4	2,050.9	20.1	10.4	-118.00	-5,510.0	1,114.6	6,873.9	6,848.7	25.16	273.230	
5,500.0	5,412.5	2,230.0	2,128.9	20.5	11.3	-118.32	-5,545.4	1,141.0	6,923.0	6,897.1	25.89	267.408	
5,511.8	5,424.1	2,242.1	2,139.5	20.5	11.4	-118.37	-5,550.1	1,144.6	6,929.6	6,903.7	25.99	266.649	
5,600.0	5,510.3	2,340.2	2,224.9	20.9	12.2	-118.72	-5,588.2	1,174.1	6,979.5	6,952.7	26.74	261.047	
5,610.2	5,520.3	2,351.9	2,235.2	21.0	12.3	-118.76	-5,592.7	1,177.6	6,985.2	6,958.4	26.82	260.412	
5,700.0	5,608.2	2,524.0	2,386.2	21.4	13.8	-119.34	-5,658.9	1,226.8	7,035.3	7,007.5	27.82	252.857	
5,708.6	5,616.6	2,541.0	2,401.2	21.4	13.9	-119.40	-5,665.3	1,231.5	7,040.1	7,012.2	27.92	252.120	
5,729.2	5,636.7	2,553.6	2,412.3	21.5	14.1	-119.44	-5,670.1	1,235.0	7,051.4	7,023.4	28.06	251.321	
5,800.0	5,706.1	2,597.4	2,451.0	21.8	14.4	-120.38	-5,686.8	1,247.2	7,090.3	7,062.0	28.31	250.492	
5,807.1	5,713.1	2,601.9	2,454.9	21.8	14.5	-120.47	-5,688.5	1,248.4	7,094.1	7,065.8	28.32	250.460	
5,900.0	5,804.7	2,652.0	2,499.1	22.1	14.9	-121.63	-5,707.7	1,262.3	7,144.1	7,115.6	28.55	250.260	
5,905.5	5,810.2	2,664.8	2,510.3	22.1	15.1	-121.72	-5,712.6	1,265.9	7,147.0	7,118.5	28.60	249.920	
6,000.0	5,903.9	2,730.2	2,567.9	22.3	15.7	-122.86	-5,737.8	1,284.2	7,196.6	7,167.8	28.87	249.320	
6,003.9	5,907.8	2,732.9	2,570.3	22.4	15.7	-122.91	-5,738.8	1,284.9	7,198.7	7,169.8	28.88	249.304	
6,100.0	6,003.4	2,800.3	2,629.5	22.6	16.4	-124.00	-5,764.8	1,303.8	7,247.8	7,218.6	29.12	248.861	
6,102.3	6,005.7	2,802.0	2,631.0	22.6	16.4	-124.02	-5,765.5	1,304.3	7,248.9	7,219.8	29.13	248.856	
6,200.0	6,103.2	2,871.2	2,691.8	22.7	17.1	-125.06	-5,792.4	1,323.5	7,297.4	7,268.0	29.36	248.559	
6,200.8	6,104.0	2,871.7	2,692.2	22.7	17.1	-125.06	-5,792.6	1,323.6	7,297.8	7,268.4	29.36	248.558	
6,299.2	6,202.3	2,909.0	2,725.0	22.9	17.4	-126.00	-5,807.2	1,333.9	7,345.2	7,315.8	29.45	249.406	
6,300.0	6,203.1	2,909.0	2,725.0	22.9	17.4	-126.00	-5,807.2	1,333.9	7,345.6	7,316.1	29.45	249.422	
6,329.4	6,232.5	2,941.8	2,753.8	22.9	17.7	159.54	-5,820.1	1,343.0	7,359.4	7,329.9	29.51	249.389	
6,397.6	6,300.8	2,971.1	2,779.3	23.0	18.0	159.50	-5,831.6	1,351.3	7,391.7	7,362.0	29.71	248.775	
6,400.0	6,303.1	2,972.1	2,780.2	23.0	18.0	159.50	-5,832.0	1,351.6	7,392.8	7,363.1	29.72	248.754	
6,449.4	6,352.5	2,993.2	2,798.6	23.1	18.2	159.48	-5,840.3	1,357.7	7,416.3	7,386.4	29.87	248.274	
6,496.0	6,399.2	3,037.0	2,836.6	23.1	18.6	-20.13	-5,857.7	1,370.7	7,437.5	7,407.1	30.35	245.074	
6,500.0	6,403.1	3,037.0	2,836.6	23.1	18.6	-20.08	-5,857.7	1,370.7	7,439.1	7,408.8	30.36	245.008	
6,550.0	6,452.8	3,037.0	2,836.6	23.1	18.6	-19.50	-5,857.7	1,370.7	7,458.7	7,428.2	30.46	244.843	
6,594.5	6,496.6	3,077.2	2,871.5	23.2	19.0	-19.15	-5,873.8	1,382.7	7,473.6	7,443.1	30.59	244.354	
6,600.0	6,502.0	3,082.2	2,875.9	23.2	19.1	-19.11	-5,875.8	1,384.2	7,475.3	7,444.7	30.59	244.359	
6,650.0	6,550.5	3,128.2	2,915.7	23.2	19.5	-18.83	-5,894.2	1,397.8	7,488.8	7,458.3	30.57	244.985	
6,692.9	6,591.4	3,315.4	3,079.1	23.2	21.2	-18.95	-5,968.2	1,451.7	7,497.6	7,466.6	31.01	241.773	
6,700.0	6,598.0	3,320.8	3,083.8	23.2	21.3	-18.93	-5,970.3	1,453.2	7,498.8	7,467.8	30.97	242.124	
6,750.0	6,644.4	3,358.9	3,117.2	23.2	21.6	-18.84	-5,984.9	1,464.1	7,505.0	7,474.4	30.61	245.209	
6,791.3	6,681.6	3,390.3	3,144.6	23.2	21.9	-18.84	-5,997.0	1,473.3	7,507.7	7,477.5	30.20	248.621	
6,800.0	6,689.3	3,396.8	3,150.4	23.2	22.0	-18.85	-5,999.5	1,475.3	7,508.0	7,477.9	30.10	249.448	
6,850.0	6,732.6	3,589.0	3,319.3	23.2	23.7	-19.33	-6,072.4	1,530.8	7,507.5	7,477.5	30.04	249.918	
6,889.7	6,765.7	3,679.0	3,399.3	23.2	24.5	-19.63	-6,106.4	1,554.2	7,504.1	7,474.4	29.65	253.107	
6,900.0	6,774.0	3,679.0	3,399.3	23.2	24.5	-19.66	-6,106.4	1,554.2	7,502.9	7,473.4	29.45	254.757	
6,950.0	6,813.3	3,727.1	3,442.2	23.2	24.9	-20.00	-6,124.6	1,566.3	7,494.9	7,466.3	28.62	261.921	
6,988.2	6,841.9	3,751.8	3,464.1	23.2	25.1	-20.30	-6,133.8	1,572.8	7,486.7	7,458.8	27.89	268.466	
7,000.0	6,850.5	3,759.3	3,470.7	23.2	25.2	-20.40	-6,136.6	1,574.8	7,483.8	7,456.2	27.65	270.645	
7,050.0	6,885.2	3,808.0	3,513.9	23.2	25.6	-20.97	-6,154.8	1,588.1	7,469.8	7,443.0	26.71	279.650	
7,086.6	6,908.9	3,808.0	3,513.9	23.2	25.6	-21.35	-6,154.8	1,588.1	7,457.5	7,431.6	25.91	287.878	
7,100.0	6,917.3	3,822.6	3,526.8	23.2	25.8	-21.55	-6,160.2	1,592.2	7,452.7	7,427.0	25.66	290.447	
7,150.0	6,946.6	3,856.8	3,557.1	23.2	26.1	-22.33	-6,172.9	1,601.8	7,432.7	7,407.9	24.74	300.468	
7,185.0	6,965.5	3,879.9	3,577.5	23.3	26.3	-22.97	-6,181.5	1,608.2	7,417.0	7,392.8	24.14	307.216	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	
7,200.0	6,973.1	3,889.5	3,586.1	23.3	26.4	-23.26	-6,185.1	1,610.9	7,409.9	7,385.9	23.93	309.637	
7,250.0	6,996.5	3,920.5	3,613.5	23.3	26.7	-24.36	-6,196.7	1,619.7	7,384.3	7,361.0	23.31	316.764	
7,283.4	7,010.4	4,064.0	3,740.8	23.4	28.0	-25.84	-6,249.2	1,659.9	7,365.6	7,342.0	23.62	311.808	
7,300.0	7,016.8	4,064.0	3,740.8	23.4	28.0	-26.27	-6,249.2	1,659.9	7,355.9	7,332.4	23.51	312.820	
7,350.0	7,033.8	4,064.0	3,740.8	23.5	28.0	-27.70	-6,249.2	1,659.9	7,324.9	7,301.5	23.42	312.808	
7,381.9	7,043.0	4,064.0	3,740.8	23.6	28.0	-28.75	-6,249.2	1,659.9	7,304.0	7,280.4	23.55	310.089	
7,400.0	7,047.6	4,103.0	3,775.6	23.6	28.3	-29.67	-6,263.2	1,670.8	7,291.5	7,267.5	23.96	304.356	
7,450.0	7,057.9	4,115.0	3,786.2	23.8	28.4	-31.80	-6,267.6	1,674.1	7,256.1	7,231.3	24.80	292.581	
7,480.3	7,062.5	4,121.7	3,792.1	23.9	28.5	-33.28	-6,270.0	1,676.0	7,233.7	7,208.2	25.54	283.194	
7,500.0	7,064.8	4,125.8	3,795.7	24.0	28.5	-34.33	-6,271.5	1,677.2	7,218.8	7,192.7	26.12	276.411	
7,550.0	7,068.3	4,135.3	3,804.2	24.2	28.6	-37.35	-6,275.0	1,679.8	7,179.8	7,151.9	27.91	257.292	
7,578.7	7,068.7	4,140.2	3,808.5	24.4	28.7	-39.34	-6,276.8	1,681.2	7,156.6	7,127.5	29.14	245.603	
7,578.9	7,068.7	4,140.2	3,808.5	24.4	28.7	-39.35	-6,276.8	1,681.2	7,156.5	7,127.4	29.15	245.545	
7,600.0	7,068.6	4,143.6	3,811.6	24.5	28.7	-39.38	-6,278.1	1,682.2	7,139.3	7,110.0	29.32	243.534	
7,677.1	7,068.1	4,156.2	3,822.7	25.1	28.8	-39.52	-6,282.7	1,685.7	7,076.6	7,046.7	29.93	236.406	
7,700.0	7,067.9	4,193.0	3,855.2	25.2	29.1	-39.92	-6,296.5	1,696.1	7,058.3	7,027.8	30.46	231.688	
7,775.6	7,067.4	4,193.0	3,855.2	25.9	29.1	-39.92	-6,296.5	1,696.1	6,997.1	6,966.1	31.02	225.560	
7,800.0	7,067.3	4,193.0	3,855.2	26.1	29.1	-39.92	-6,296.5	1,696.1	6,977.4	6,946.2	31.20	223.629	
7,874.0	7,066.8	4,193.0	3,855.2	26.8	29.1	-39.92	-6,296.5	1,696.1	6,917.8	6,886.0	31.86	217.157	
7,900.0	7,066.7	4,193.0	3,855.2	27.0	29.1	-39.92	-6,296.5	1,696.1	6,897.0	6,864.9	32.09	214.951	
7,972.4	7,066.2	4,193.0	3,855.2	27.8	29.1	-39.92	-6,296.5	1,696.1	6,839.1	6,806.3	32.78	208.650	
8,000.0	7,066.0	4,193.0	3,855.2	28.1	29.1	-39.92	-6,296.5	1,696.1	6,817.1	6,784.1	33.04	206.326	
8,070.8	7,065.6	4,193.0	3,855.2	28.9	29.1	-39.92	-6,296.5	1,696.1	6,760.8	6,727.1	33.76	200.279	
8,100.0	7,065.4	4,193.0	3,855.2	29.3	29.1	-39.92	-6,296.5	1,696.1	6,737.8	6,703.7	34.05	197.871	
8,169.3	7,065.0	4,193.0	3,855.2	30.2	29.1	-39.92	-6,296.5	1,696.1	6,683.1	6,648.3	34.78	192.130	
8,200.0	7,064.8	4,193.0	3,855.2	30.6	29.1	-39.92	-6,296.5	1,696.1	6,659.0	6,623.9	35.11	189.666	
8,267.7	7,064.4	4,193.0	3,855.2	31.5	29.1	-39.92	-6,296.5	1,696.1	6,605.9	6,570.1	35.85	184.259	
8,300.0	7,064.2	4,193.0	3,855.2	31.9	29.1	-39.92	-6,296.5	1,696.1	6,580.7	6,544.5	36.21	181.763	
8,366.1	7,063.7	4,245.1	3,900.9	32.8	29.7	-40.50	-6,316.3	1,711.4	6,528.7	6,491.1	37.59	173.676	
8,400.0	7,063.5	4,248.9	3,904.3	33.3	29.7	-40.54	-6,317.7	1,712.6	6,502.3	6,464.3	38.02	171.006	
8,464.5	7,063.1	4,256.3	3,910.7	34.2	29.8	-40.62	-6,320.6	1,714.8	6,452.3	6,413.5	38.87	165.998	
8,500.0	7,062.9	4,260.4	3,914.2	34.8	29.8	-40.67	-6,322.1	1,716.1	6,425.0	6,385.6	39.34	163.339	
8,563.0	7,062.5	4,267.6	3,920.5	35.7	29.9	-40.75	-6,324.9	1,718.3	6,376.5	6,336.3	40.18	158.704	
8,600.0	7,062.3	4,271.9	3,924.2	36.3	29.9	-40.80	-6,326.6	1,719.7	6,348.2	6,307.5	40.68	156.069	
8,661.4	7,061.9	4,321.0	3,966.6	37.2	30.4	-41.36	-6,345.8	1,735.5	6,301.7	6,259.7	42.07	149.800	
8,700.0	7,061.6	4,321.0	3,966.6	37.8	30.4	-41.36	-6,345.8	1,735.5	6,272.3	6,229.8	42.54	147.447	
8,759.8	7,061.3	4,321.0	3,966.6	38.8	30.4	-41.36	-6,345.8	1,735.5	6,226.9	6,183.6	43.28	143.869	
8,800.0	7,061.0	4,321.0	3,966.6	39.4	30.4	-41.36	-6,345.8	1,735.5	6,196.5	6,152.7	43.78	141.540	
8,858.2	7,060.6	4,321.0	3,966.6	40.3	30.4	-41.36	-6,345.8	1,735.5	6,152.6	6,108.1	44.51	138.230	
8,900.0	7,060.4	4,321.0	3,966.6	41.0	30.4	-41.36	-6,345.8	1,735.5	6,121.4	6,076.3	45.03	135.930	
8,956.7	7,060.0	4,321.0	3,966.6	41.9	30.4	-41.36	-6,345.8	1,735.5	6,079.1	6,033.4	45.75	132.873	
9,000.0	7,059.8	4,321.0	3,966.6	42.6	30.4	-41.36	-6,345.8	1,735.5	6,047.0	6,000.7	46.30	130.604	
9,055.1	7,059.4	4,321.0	3,966.6	43.6	30.4	-41.36	-6,345.8	1,735.5	6,006.3	5,959.3	47.00	127.783	
9,100.0	7,059.1	4,347.1	3,988.9	44.3	30.7	-41.66	-6,356.1	1,744.1	5,973.3	5,925.3	47.96	124.557	
9,153.5	7,058.8	4,363.8	4,003.3	45.2	30.9	-41.85	-6,362.7	1,749.7	5,934.0	5,885.1	48.90	121.363	
9,200.0	7,058.5	4,378.5	4,015.8	46.0	31.0	-42.02	-6,368.5	1,754.5	5,900.1	5,850.4	49.71	118.681	
9,251.9	7,058.2	4,394.8	4,029.8	46.9	31.2	-42.22	-6,375.0	1,760.0	5,862.4	5,811.7	50.64	115.766	
9,300.0	7,057.9	4,410.0	4,042.8	47.7	31.4	-42.39	-6,381.0	1,765.0	5,827.6	5,776.1	51.50	113.158	
9,350.4	7,057.6	4,425.9	4,056.4	48.6	31.6	-42.58	-6,387.3	1,770.3	5,791.2	5,738.8	52.41	110.500	
9,400.0	7,057.2	4,450.0	4,077.0	49.4	31.8	-42.87	-6,396.9	1,778.4	5,755.6	5,702.2	53.44	107.703	
9,448.8	7,056.9	4,580.3	4,189.1	50.3	33.1	-44.42	-6,448.5	1,820.2	5,720.6	5,664.5	56.11	101.949	
9,500.0	7,056.6	4,601.3	4,207.3	51.1	33.3	-44.67	-6,456.8	1,826.6	5,683.7	5,626.6	57.14	99.476	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

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	7,056.3	4,620.8	4,224.2	52.0	33.5	-44.90	-6,464.5	1,832.6	5,649.9	5,591.8	58.09	97.259	
9,600.0	7,056.0	4,642.7	4,243.1	52.9	33.7	-45.17	-6,473.2	1,839.2	5,612.1	5,553.0	59.16	94.859	
9,645.6	7,055.7	4,661.6	4,259.5	53.7	33.9	-45.40	-6,480.7	1,845.0	5,579.7	5,519.6	60.10	92.841	
9,700.0	7,055.4	4,684.3	4,279.2	54.6	34.1	-45.67	-6,489.7	1,851.8	5,541.1	5,479.9	61.22	90.511	
9,744.1	7,055.1	4,702.7	4,295.2	55.4	34.3	-45.90	-6,497.0	1,857.4	5,510.0	5,447.9	62.14	88.674	
9,800.0	7,054.7	4,706.0	4,298.0	56.4	34.3	-45.94	-6,498.3	1,858.3	5,470.8	5,407.8	62.98	86.867	
9,842.5	7,054.5	4,730.9	4,319.6	57.2	34.6	-46.24	-6,508.3	1,865.8	5,441.1	5,377.1	63.99	85.024	
9,900.0	7,054.1	4,747.0	4,333.5	58.2	34.7	-46.44	-6,514.8	1,870.5	5,401.1	5,336.0	65.08	82.991	
9,940.9	7,053.8	4,758.6	4,343.5	58.9	34.8	-46.58	-6,519.5	1,874.0	5,372.8	5,306.9	65.86	81.578	
10,000.0	7,053.5	4,775.6	4,358.2	60.0	35.0	-46.79	-6,526.4	1,878.9	5,332.2	5,265.2	66.99	79.593	
10,039.3	7,053.2	4,787.0	4,368.1	60.7	35.1	-46.93	-6,531.1	1,882.2	5,305.3	5,237.5	67.75	78.301	
10,100.0	7,052.8	4,804.8	4,383.5	61.8	35.3	-47.15	-6,538.5	1,887.4	5,264.1	5,195.1	68.94	76.362	
10,137.8	7,052.6	4,816.1	4,393.2	62.4	35.4	-47.29	-6,543.2	1,890.6	5,238.5	5,168.8	69.68	75.183	
10,200.0	7,052.2	4,835.0	4,409.5	63.6	35.6	-47.52	-6,551.1	1,896.0	5,196.7	5,125.8	70.91	73.287	
10,236.2	7,052.0	4,857.9	4,429.2	64.2	35.8	-47.81	-6,560.7	1,902.5	5,172.5	5,100.7	71.84	72.001	
10,300.0	7,051.6	4,898.3	4,464.1	65.4	36.2	-48.31	-6,577.7	1,913.9	5,130.1	5,056.6	73.49	69.803	
10,334.6	7,051.4	4,920.1	4,482.9	66.0	36.4	-48.58	-6,586.8	1,920.0	5,107.1	5,032.7	74.40	68.648	
10,400.0	7,051.0	4,960.9	4,518.3	67.2	36.8	-49.09	-6,603.7	1,931.5	5,064.0	4,987.9	76.10	66.540	
10,433.0	7,050.7	4,974.0	4,529.6	67.8	36.9	-49.26	-6,609.1	1,935.2	5,042.3	4,965.5	76.83	65.626	
10,500.0	7,050.3	4,998.7	4,551.0	69.0	37.2	-49.57	-6,619.4	1,942.1	4,998.7	4,920.4	78.29	63.850	
10,531.5	7,050.1	5,010.3	4,561.0	69.6	37.3	-49.72	-6,624.2	1,945.4	4,978.3	4,899.3	78.97	63.037	
10,600.0	7,049.7	5,035.5	4,582.8	70.8	37.5	-50.04	-6,634.6	1,952.5	4,934.2	4,853.7	80.47	61.315	
10,629.9	7,049.5	5,046.5	4,592.3	71.4	37.6	-50.18	-6,639.1	1,955.6	4,915.1	4,833.9	81.13	60.583	
10,700.0	7,049.1	5,072.1	4,614.5	72.7	37.9	-50.51	-6,649.6	1,962.9	4,870.6	4,787.9	82.68	58.912	
10,728.3	7,048.9	5,082.4	4,623.4	73.2	38.0	-50.65	-6,653.9	1,965.9	4,852.7	4,769.4	83.30	58.254	
10,800.0	7,048.4	5,122.0	4,657.7	74.5	38.3	-51.16	-6,670.1	1,977.3	4,807.9	4,722.7	85.16	56.460	
10,826.7	7,048.3	5,139.6	4,673.0	75.0	38.5	-51.39	-6,677.3	1,982.3	4,791.3	4,705.4	85.91	55.774	
10,900.0	7,047.8	5,187.3	4,714.4	76.3	39.0	-52.02	-6,696.7	1,995.9	4,746.0	4,658.0	87.96	53.955	
10,925.2	7,047.7	5,203.6	4,728.5	76.8	39.1	-52.24	-6,703.3	2,000.5	4,730.5	4,641.8	88.67	53.350	
11,000.0	7,047.2	5,380.0	4,883.4	78.2	40.7	-54.61	-6,772.5	2,048.8	4,684.1	4,590.8	93.29	50.213	
11,023.6	7,047.0	5,390.1	4,892.3	78.6	40.8	-54.75	-6,776.4	2,051.5	4,669.5	4,575.7	93.86	49.752	
11,100.0	7,046.6	5,423.1	4,921.5	80.0	41.1	-55.20	-6,789.2	2,060.0	4,622.8	4,527.1	95.72	48.293	
11,122.0	7,046.4	5,432.7	4,930.0	80.4	41.2	-55.33	-6,793.0	2,062.5	4,609.4	4,513.1	96.27	47.882	
11,200.0	7,045.9	5,467.3	4,960.6	81.9	41.5	-55.80	-6,806.6	2,071.2	4,562.4	4,464.2	98.20	46.461	
11,220.4	7,045.8	5,476.4	4,968.7	82.3	41.6	-55.93	-6,810.2	2,073.5	4,550.2	4,451.5	98.71	46.096	
11,300.0	7,045.3	5,477.0	4,969.2	83.7	41.6	-55.94	-6,810.4	2,073.6	4,503.3	4,403.3	100.01	45.030	
11,318.9	7,045.2	5,477.0	4,969.2	84.1	41.6	-55.94	-6,810.4	2,073.6	4,492.2	4,391.9	100.31	44.783	
11,400.0	7,044.7	5,477.0	4,969.2	85.6	41.6	-55.94	-6,810.4	2,073.6	4,445.5	4,343.9	101.62	43.746	
11,417.3	7,044.6	5,477.0	4,969.2	85.9	41.6	-55.94	-6,810.4	2,073.6	4,435.7	4,333.8	101.90	43.530	
11,500.0	7,044.0	5,524.9	5,011.4	87.5	42.0	-56.60	-6,829.5	2,085.8	4,388.7	4,284.5	104.23	42.105	
11,515.7	7,043.9	5,527.6	5,013.8	87.7	42.1	-56.64	-6,830.6	2,086.5	4,379.9	4,275.4	104.54	41.896	
11,600.0	7,043.4	5,542.3	5,026.6	89.3	42.2	-56.84	-6,836.5	2,090.4	4,333.6	4,227.3	106.22	40.796	
11,614.1	7,043.3	5,544.8	5,028.8	89.6	42.2	-56.87	-6,837.5	2,091.1	4,325.9	4,219.4	106.51	40.616	
11,700.0	7,042.8	5,559.8	5,042.0	91.2	42.4	-57.08	-6,843.5	2,095.1	4,279.9	4,171.6	108.23	39.545	
11,712.6	7,042.7	5,562.0	5,043.9	91.4	42.4	-57.11	-6,844.4	2,095.7	4,273.2	4,164.7	108.48	39.392	
11,800.0	7,042.2	5,605.0	5,081.4	93.0	42.8	-57.72	-6,861.8	2,107.7	4,227.9	4,117.1	110.83	38.147	
11,811.0	7,042.1	5,605.0	5,081.4	93.2	42.8	-57.72	-6,861.8	2,107.7	4,222.2	4,111.2	111.01	38.034	
11,900.0	7,041.5	5,605.0	5,081.4	94.9	42.8	-57.72	-6,861.8	2,107.7	4,177.1	4,064.6	112.48	37.137	
11,909.4	7,041.5	5,605.0	5,081.4	95.1	42.8	-57.72	-6,861.8	2,107.7	4,172.4	4,059.8	112.63	37.044	
12,000.0	7,040.9	5,639.1	5,111.0	96.8	43.1	-58.20	-6,875.6	2,117.3	4,128.1	4,013.2	114.87	35.938	
12,007.8	7,040.8	5,645.0	5,116.1	96.9	43.2	-58.28	-6,878.0	2,119.0	4,124.3	4,009.2	115.13	35.824	
12,100.0	7,040.3	5,713.3	5,175.7	98.7	43.8	-59.25	-6,905.2	2,138.1	4,080.3	3,962.1	118.15	34.535	

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 260-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
12,106.3	7,040.2	5,717.8	5,179.7	98.8	43.9	-59.32	-6,907.0	2,139.3	4,077.3	3,959.0	118.35	34.450	
12,200.0	7,039.6	5,797.4	5,249.6	100.5	44.6	-60.46	-6,938.2	2,161.2	4,033.6	3,912.0	121.64	33.159	
12,204.7	7,039.6	5,801.5	5,253.2	100.6	44.6	-60.52	-6,939.8	2,162.3	4,031.5	3,909.7	121.81	33.096	
12,300.0	7,039.0	5,886.5	5,328.4	102.4	45.4	-61.76	-6,972.3	2,185.1	3,988.1	3,862.9	125.25	31.842	
12,303.1	7,039.0	5,889.6	5,331.1	102.5	45.4	-61.80	-6,973.5	2,185.9	3,986.7	3,861.4	125.36	31.801	
12,400.0	7,038.4	5,979.2	5,411.1	104.3	46.2	-63.13	-7,006.1	2,209.7	3,943.8	3,814.8	128.91	30.592	
12,401.5	7,038.4	5,980.6	5,412.3	104.3	46.2	-63.15	-7,006.6	2,210.1	3,943.1	3,814.1	128.97	30.574	
12,500.0	7,037.8	6,027.3	5,454.3	106.2	46.6	-63.84	-7,023.0	2,222.4	3,900.8	3,769.2	131.64	29.631	
12,598.4	7,037.1	6,069.3	5,492.0	108.0	47.0	-64.47	-7,037.8	2,233.4	3,860.2	3,726.0	134.23	28.759	
12,600.0	7,037.1	6,070.0	5,492.6	108.0	47.0	-64.49	-7,038.1	2,233.6	3,859.6	3,725.3	134.27	28.745	
12,696.8	7,036.5	6,111.5	5,530.0	109.9	47.3	-65.11	-7,052.7	2,244.3	3,821.4	3,684.5	136.82	27.930	
12,700.0	7,036.5	6,112.8	5,531.2	109.9	47.3	-65.13	-7,053.2	2,244.6	3,820.1	3,683.2	136.91	27.904	
12,795.2	7,035.9	6,154.8	5,569.0	111.7	47.7	-65.76	-7,068.1	2,255.4	3,784.3	3,644.8	139.45	27.138	
12,800.0	7,035.9	6,157.0	5,570.9	111.8	47.7	-65.80	-7,068.8	2,255.9	3,782.5	3,643.0	139.58	27.100	
12,893.7	7,035.3	6,199.1	5,608.8	113.6	48.0	-66.43	-7,083.9	2,266.5	3,749.0	3,606.9	142.10	26.383	
12,900.0	7,035.2	6,202.0	5,611.4	113.7	48.1	-66.48	-7,084.9	2,267.2	3,746.8	3,604.5	142.27	26.336	
12,992.1	7,034.7	6,244.2	5,649.4	115.4	48.4	-67.11	-7,100.2	2,277.6	3,715.6	3,570.8	144.77	25.666	
13,000.0	7,034.6	6,248.4	5,653.2	115.6	48.5	-67.18	-7,101.7	2,278.6	3,713.0	3,568.0	144.99	25.608	
13,090.5	7,034.0	6,317.7	5,715.6	117.3	49.0	-68.23	-7,126.9	2,295.1	3,684.0	3,535.9	148.02	24.889	
13,100.0	7,034.0	6,325.0	5,722.2	117.5	49.1	-68.34	-7,129.6	2,296.8	3,681.0	3,532.7	148.33	24.816	
13,188.9	7,033.4	6,384.5	5,775.8	119.1	49.6	-69.24	-7,151.5	2,310.2	3,654.0	3,502.9	151.12	24.180	
13,200.0	7,033.4	6,388.4	5,779.3	119.3	49.6	-69.30	-7,152.9	2,311.1	3,650.7	3,499.3	151.39	24.114	
13,287.4	7,032.8	6,419.1	5,807.1	121.0	49.9	-69.77	-7,164.1	2,318.0	3,626.0	3,472.4	153.57	23.611	
13,300.0	7,032.7	6,423.5	5,811.0	121.2	49.9	-69.83	-7,165.7	2,318.9	3,622.5	3,468.6	153.88	23.541	
13,385.8	7,032.2	6,452.9	5,837.7	122.9	50.1	-70.28	-7,176.3	2,325.6	3,600.1	3,444.1	156.01	23.076	
13,400.0	7,032.1	6,457.7	5,842.0	123.1	50.2	-70.36	-7,178.1	2,326.7	3,596.5	3,440.2	156.36	23.002	
13,484.2	7,031.6	6,485.9	5,867.6	124.7	50.4	-70.79	-7,188.1	2,333.1	3,576.4	3,418.0	158.43	22.573	
13,500.0	7,031.5	6,491.2	5,872.3	125.0	50.4	-70.87	-7,190.0	2,334.3	3,572.8	3,414.0	158.82	22.496	
13,582.6	7,030.9	6,504.0	5,884.0	126.6	50.6	-71.07	-7,194.5	2,337.2	3,555.0	3,394.4	160.57	22.140	
13,600.0	7,030.8	6,504.0	5,884.0	126.9	50.6	-71.07	-7,194.5	2,337.2	3,551.5	3,390.6	160.89	22.074	
13,681.1	7,030.3	6,504.0	5,884.0	128.4	50.6	-71.07	-7,194.5	2,337.2	3,536.1	3,373.8	162.36	21.780	
13,700.0	7,030.2	6,504.0	5,884.0	128.8	50.6	-71.07	-7,194.5	2,337.2	3,532.8	3,370.1	162.70	21.713	
13,779.5	7,029.7	6,547.6	5,923.5	130.3	50.9	-71.74	-7,209.9	2,347.5	3,519.4	3,354.4	165.00	21.330	
13,800.0	7,029.6	6,551.3	5,926.8	130.7	50.9	-71.80	-7,211.2	2,348.4	3,516.3	3,350.9	165.44	21.254	
13,877.9	7,029.1	6,565.4	5,939.5	132.2	51.1	-72.02	-7,216.1	2,351.8	3,505.4	3,338.3	167.14	20.974	
13,900.0	7,029.0	6,569.3	5,943.1	132.6	51.1	-72.08	-7,217.5	2,352.8	3,502.6	3,335.0	167.62	20.897	
13,976.3	7,028.5	6,583.0	5,955.5	134.0	51.2	-72.29	-7,222.4	2,356.2	3,494.0	3,324.7	169.27	20.641	
14,000.0	7,028.3	6,587.3	5,959.3	134.5	51.2	-72.35	-7,223.8	2,357.2	3,491.6	3,321.8	169.79	20.564	
14,074.8	7,027.9	6,600.7	5,971.4	135.9	51.3	-72.56	-7,228.5	2,360.6	3,485.1	3,313.7	171.42	20.331	
14,100.0	7,027.7	6,632.0	5,999.6	136.4	51.6	-73.05	-7,239.5	2,368.7	3,483.4	3,310.9	172.48	20.197	
14,173.2	7,027.2	7,061.6	6,396.3	137.8	54.7	-79.76	-7,380.6	2,451.2	3,476.0	3,295.2	180.84	19.222	
14,200.0	7,027.1	7,066.5	6,401.0	138.3	54.7	-79.84	-7,381.8	2,451.9	3,473.6	3,292.2	181.40	19.149	
14,210.5	7,027.0	7,068.4	6,402.8	138.5	54.7	-79.87	-7,382.3	2,452.2	3,472.8	3,291.1	181.62	19.121 CC, ES, SF	

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

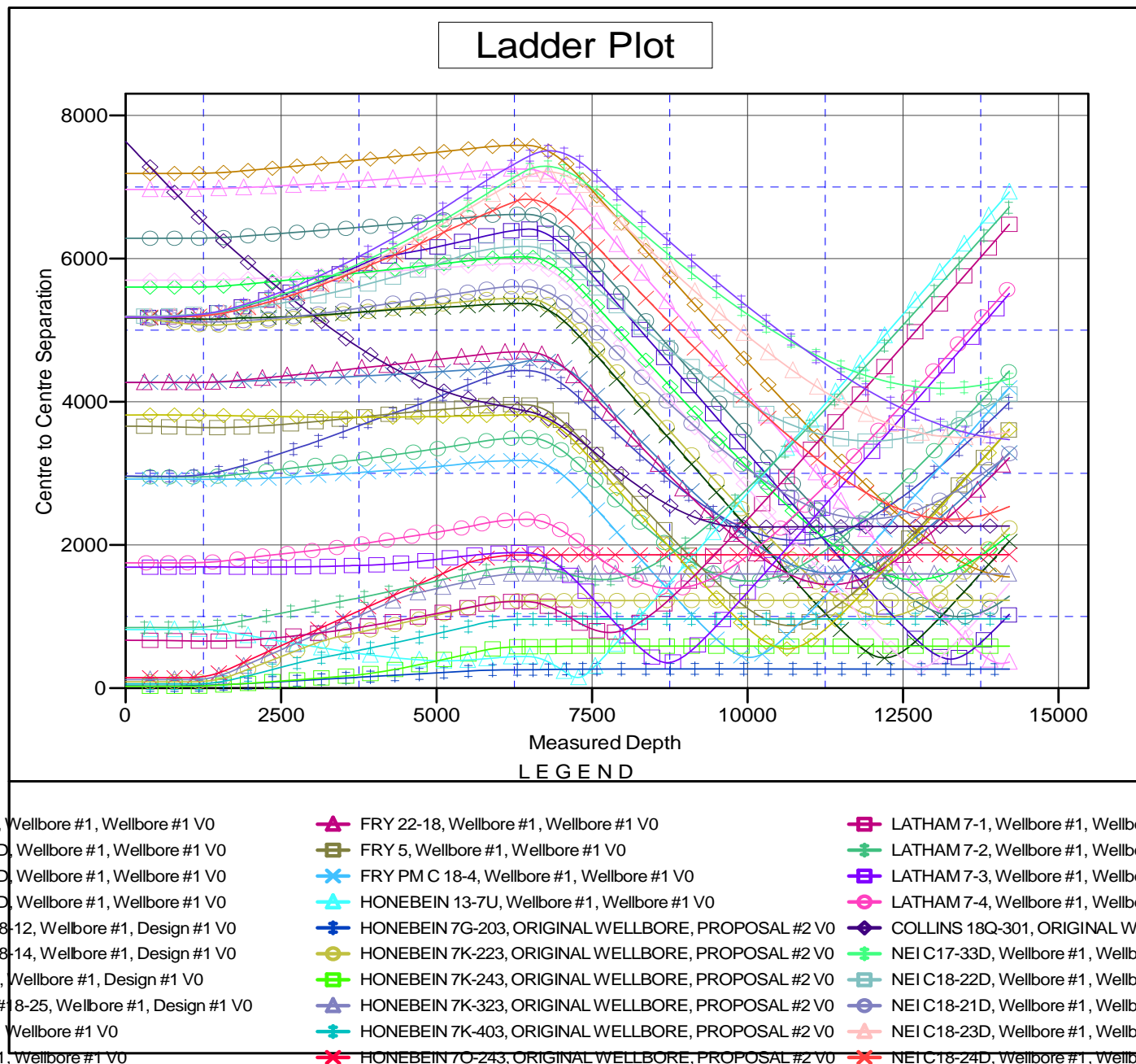
Reference Depths are relative to KB-EST @ 4860.5usft (Original Well ECoordinates are relative to: HONEBEIN 7G-323

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



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well HONEBEIN 7G-323
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Reference Site:	NE SW SEC. 7 T4N R64W 6th P.M.	MD Reference:	KB-EST @ 4860.5usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	HONEBEIN 7G-323	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB-EST @ 4860.5usft (Original Well ECoordinates are relative to: HONEBEIN 7G-323

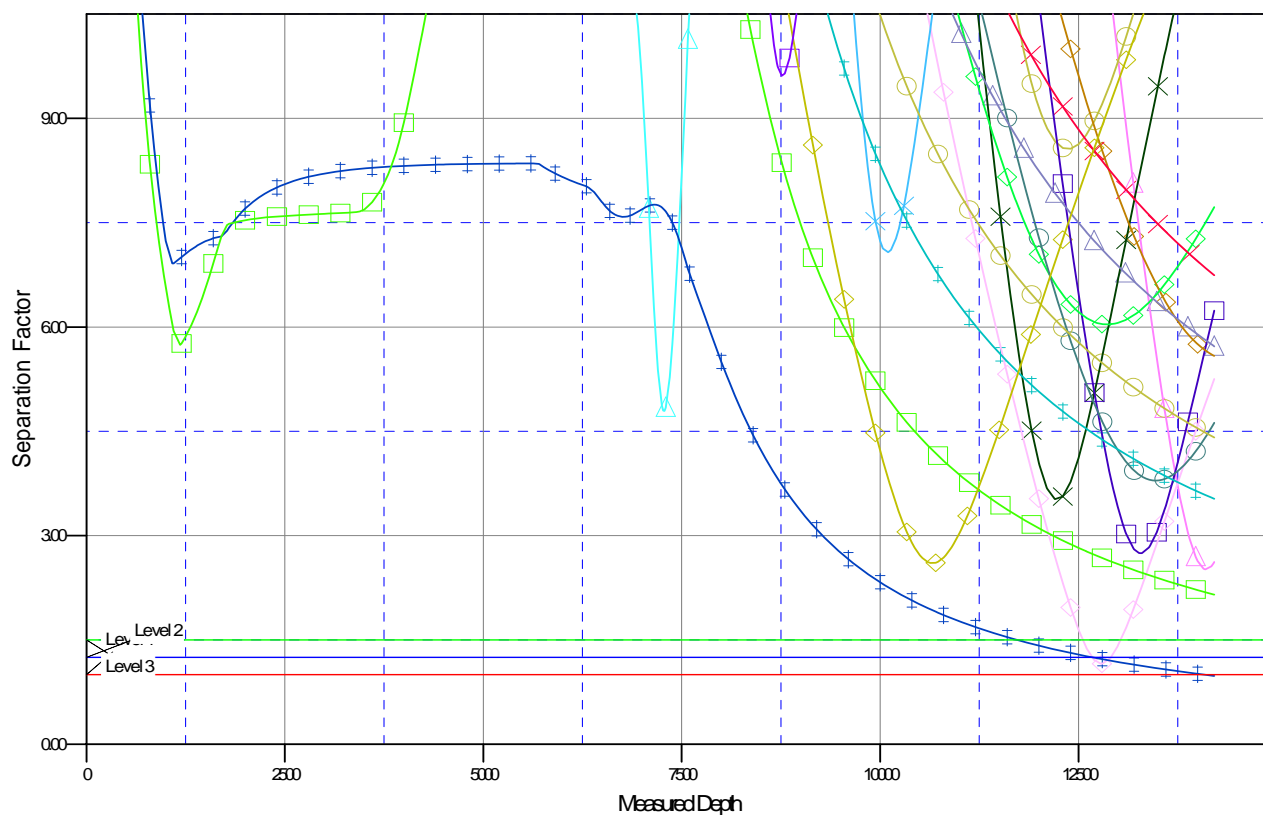
Offset Depths are relative to Offset Datum

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	COLLINS 18Q-301, ORIGINAL WEL
2, Wellbore #1, Design #1 V0	HONEBEIN 7K-223, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C17-33D, Wellbore #1, Wellbore
# 8-25, Wellbore #1, Design #1 V0	HONEBEIN 7K-243, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-22D, Wellbore #1, Wellbore
1, Wellbore #1 V0	HONEBEIN 7K-323, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-21D, Wellbore #1, Wellbore
#1, Wellbore #1 V0	HONEBEIN 7K-403, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-23D, Wellbore #1, Wellbore
	HONEBEIN 7G-243, ORIGINAL WELLBORE, PROPOSAL #2 V0	NEI C18-24D, Wellbore #1, Wellbore