

# **PDC ENERGY**

**WELD COUNTY, COLORADO  
SE SW SEC. 21 T4N R67W 6th P.M.  
WALTERS 21P-234**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**26 March, 2016**



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	PROPOSAL #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	MD + Stations Interval 100.0usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 us	<b>Error Surface:</b>	Elliptical Conic
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	26/03/2016		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	11,688.2	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SE SW SEC. 21 T4N R67W 6th P.M.						
EXIST DD RYLAND 20XD - Wellbore #1 - Wellbore #1	9,811.2	7,357.8	549.2	435.7	4.837	CC, ES
EXIST DD RYLAND 20XD - Wellbore #1 - Wellbore #1	9,900.0	7,357.4	556.3	440.4	4.798	SF
EXIST DD RYLAND 20YD - Wellbore #1 - Wellbore #1	9,770.6	7,493.4	660.9	549.2	5.916	CC
EXIST DD RYLAND 20YD - Wellbore #1 - Wellbore #1	9,800.0	7,493.4	661.5	549.0	5.880	ES
EXIST DD RYLAND 20YD - Wellbore #1 - Wellbore #1	9,900.0	7,493.5	673.4	558.2	5.844	SF
EXIST DD RYLAND 33-20D - Wellbore #1 - Wellbore #1	11,612.8	7,120.0	1,255.7	1,113.0	8.798	CC, ES
EXIST DD RYLAND 33-20D - Wellbore #1 - Wellbore #1	11,688.2	7,120.1	1,258.0	1,113.2	8.686	SF
EXIST DD RYLAND 34-20D - Wellbore #1 - Wellbore #1	11,620.7	7,046.9	61.2	-80.8	0.431	Level 1, CC, ES, SF
EXIST DD RYLAND 43-20D - Wellbore #1 - Wellbore #1	10,347.1	7,262.7	1,257.5	1,138.9	10.598	CC
EXIST DD RYLAND 43-20D - Wellbore #1 - Wellbore #1	10,400.0	7,263.2	1,258.6	1,138.5	10.480	ES
EXIST DD RYLAND 43-20D - Wellbore #1 - Wellbore #1	10,700.0	7,266.2	1,306.1	1,177.7	10.176	SF
EXIST DD RYLAND 44-20D - Wellbore #1 - Wellbore #1	10,354.1	7,193.9	53.3	-65.3	0.450	Level 1, CC, ES, SF
EXIST DD WALTERS #21ODU - Wellbore #1 - Wellbore	631.7	641.1	770.5	768.6	394.357	CC, ES
EXIST DD WALTERS #21ODU - Wellbore #1 - Wellbore	10,300.0	7,277.2	3,604.4	3,490.5	31.660	SF
EXIST DD WALTERS 21LDU - Wellbore #1 - Wellbore #	8,380.3	7,282.6	690.1	632.8	12.043	CC
EXIST DD WALTERS 21LDU - Wellbore #1 - Wellbore #	8,400.0	7,282.7	690.4	632.6	11.948	ES
EXIST DD WALTERS 21LDU - Wellbore #1 - Wellbore #	8,600.0	7,282.8	724.2	661.4	11.531	SF
EXIST DD WALTERS 21QDU - Wellbore #1 - Wellbore #	2,658.8	2,851.7	484.5	463.4	22.915	CC
EXIST DD WALTERS 21QDU - Wellbore #1 - Wellbore #	2,700.0	2,886.5	484.9	463.2	22.364	ES
EXIST DD WALTERS 21QDU - Wellbore #1 - Wellbore #	4,500.0	4,643.2	640.6	596.4	14.490	SF
EXIST DD WALTERS 23-21DU - Wellbore #1 - Wellbore	0.0	0.0	757.1			
EXIST DD WALTERS 23-21DU - Wellbore #1 - Wellbore	300.0	298.7	757.7	756.8	883.790	ES
EXIST DD WALTERS 23-21DU - Wellbore #1 - Wellbore	8,900.0	7,156.2	1,839.7	1,769.5	26.214	SF
EXIST DD WALTERS 24-21DU - Wellbore #1 - Wellbore	7,722.6	7,183.9	126.1	84.0	2.992	CC, ES, SF
EXIST DD WEDCO #13-21DU - Wellbore #1 - Wellbore	0.0	1.5	765.0			
EXIST DD WEDCO #13-21DU - Wellbore #1 - Wellbore	600.0	600.0	765.6	763.7	414.853	ES
EXIST DD WEDCO #13-21DU - Wellbore #1 - Wellbore	9,600.0	7,245.4	1,291.7	1,196.1	13.506	SF
EXIST DD WEDCO 14-21DU - Wellbore #1 - Wellbore #	9,069.1	7,253.8	69.3	-11.5	0.858	Level 1, CC, ES, SF
EXIST VERT BUNYAN #1 - Wellbore #1 - Wellbore #1	100.0	85.2	887.3	887.2	5,843.502	CC
EXIST VERT BUNYAN #1 - Wellbore #1 - Wellbore #1	600.0	583.0	887.6	886.0	540.578	ES
EXIST VERT BUNYAN #1 - Wellbore #1 - Wellbore #1	8,800.0	7,065.5	1,172.9	1,120.2	22.241	SF
EXIST VERT EVANS-STROH 20-1 - Wellbore #1 - Desig	11,292.5	7,033.4	484.1	224.7	1.866	CC
EXIST VERT EVANS-STROH 20-1 - Wellbore #1 - Desig	11,300.0	7,033.4	484.1	224.5	1.865	ES, SF
WALTERS 21P-204 - ORIGINAL WELLBORE - PROPO	400.0	399.0	44.8	43.3	29.083	CC, ES
WALTERS 21P-204 - ORIGINAL WELLBORE - PROPO	11,688.2	11,683.2	645.2	386.6	2.495	SF
WALTERS 21P-304 - ORIGINAL WELLBORE - PROPO	500.0	499.0	29.9	27.9	15.010	CC
WALTERS 21P-304 - ORIGINAL WELLBORE - PROPO	600.0	598.8	30.2	27.8	12.429	ES

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

## Summary

Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SE SW SEC. 21 T4N R67W 6th P.M.						
WALTERS 21P-304 - ORIGINAL WELLBORE - PROPO	11,688.2	11,781.3	414.9	164.5	1.657 SF	
WALTERS 21P-314 - ORIGINAL WELLBORE - PROPO	300.0	298.0	59.7	58.7	54.866 CC, ES	
WALTERS 21P-314 - ORIGINAL WELLBORE - PROPO	11,688.2	11,796.9	922.1	665.9	3.600 SF	
WALTERS 21P-434 - ORIGINAL WELLBORE - PROPO	600.0	599.0	14.9	12.5	6.122 CC, ES	
WALTERS 21P-434 - ORIGINAL WELLBORE - PROPO	11,688.2	11,884.4	313.9	139.7	1.801 SF	
WALTERS 21Q-214 - ORIGINAL WELLBORE - PROPO	400.0	400.0	30.2	28.7	19.597 CC, ES	
WALTERS 21Q-214 - ORIGINAL WELLBORE - PROPO	11,688.2	11,711.5	400.0	141.2	1.546 SF	
WALTERS 21Q-304 - ORIGINAL WELLBORE - PROPO	300.0	300.0	45.2	44.1	41.305 CC, ES	
WALTERS 21Q-304 - ORIGINAL WELLBORE - PROPO	11,688.2	11,828.8	609.7	355.1	2.395 SF	
WALTERS 21Q-314 - ORIGINAL WELLBORE - PROPO	500.0	500.0	14.9	12.9	7.496 CC	
WALTERS 21Q-314 - ORIGINAL WELLBORE - PROPO	11,688.2	11,800.2	227.3	-2.7	0.988 Level 1, ES, SF	

Offset Design SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD RYLAND 20XD - Wellbore #1 - Wellbore #1													Offset Site Error:	0.0 usft
Survey Program: 152-MWD													Offset Well Error:	0.0 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	1.5	1.5	0.0	0.0	-49.16	490.0	-566.8	749.3					
100.0	100.0	101.0	101.0	0.1	0.1	-49.23	489.4	-567.4	749.3	749.1	0.18	4,173.677		
200.0	200.0	193.7	193.7	0.3	0.2	-49.40	487.8	-569.1	749.6	749.1	0.53	1,408.271		
300.0	300.0	275.2	275.1	0.5	0.4	-49.59	487.0	-572.1	751.7	750.8	0.94	802.986		
400.0	400.0	353.2	352.9	0.8	0.6	-49.78	487.7	-576.6	756.8	755.4	1.34	563.935		
500.0	500.0	435.1	434.6	1.0	0.8	-49.96	489.9	-582.9	764.4	762.6	1.78	430.582		
600.0	600.0	518.0	517.0	1.2	1.0	-50.18	493.0	-591.3	774.4	772.2	2.23	346.774		
700.0	700.0	607.8	606.1	1.4	1.3	-161.51	495.6	-602.8	787.8	785.2	2.66	295.850		
800.0	799.8	707.6	704.7	1.6	1.6	-162.16	496.4	-617.6	804.9	801.7	3.13	257.517		
900.0	899.5	811.2	807.1	1.9	2.0	-162.94	496.2	-633.3	824.9	821.3	3.60	229.073		
1,000.0	998.7	914.0	908.7	2.1	2.3	-163.86	493.5	-648.8	846.9	842.8	4.09	207.091		
1,100.0	1,097.5	984.0	977.6	2.4	2.6	-164.55	491.2	-661.2	874.1	869.6	4.51	193.604		
1,200.0	1,195.6	1,064.1	1,055.8	2.7	2.9	-165.47	488.0	-677.7	906.8	901.8	5.01	181.040		
1,200.1	1,195.8	1,064.2	1,055.9	2.7	2.9	-165.47	488.0	-677.7	906.9	901.9	5.01	181.024		
1,300.0	1,293.4	1,132.5	1,122.4	3.1	3.2	-166.45	485.1	-693.4	943.3	937.8	5.49	171.898		
1,400.0	1,391.3	1,196.7	1,184.4	3.5	3.6	-167.33	483.1	-709.6	982.5	976.5	5.96	164.811		
1,500.0	1,489.1	1,263.0	1,248.0	4.0	3.9	-168.24	481.2	-728.4	1,024.6	1,018.1	6.45	158.777		
1,600.0	1,586.9	1,326.7	1,308.6	4.4	4.3	-169.11	479.6	-748.0	1,069.0	1,062.1	6.95	153.827		
1,700.0	1,684.7	1,403.2	1,380.9	4.8	4.8	-170.14	477.4	-772.8	1,115.1	1,107.6	7.50	148.755		
1,800.0	1,782.5	1,477.5	1,450.9	5.3	5.3	-171.14	474.4	-797.8	1,162.1	1,154.0	8.04	144.573		
1,900.0	1,880.3	1,543.0	1,512.0	5.7	5.8	-172.01	471.6	-821.0	1,210.8	1,202.2	8.55	141.578		
2,000.0	1,978.1	1,597.8	1,562.7	6.1	6.2	-172.71	469.3	-841.5	1,261.5	1,252.5	9.04	139.520		
2,100.0	2,075.9	1,660.4	1,620.2	6.6	6.7	-173.51	466.8	-866.3	1,314.3	1,304.8	9.56	137.470		
2,200.0	2,173.8	1,745.4	1,697.9	7.0	7.4	-174.54	463.1	-900.5	1,367.9	1,357.8	10.16	134.613		
2,300.0	2,271.6	1,850.1	1,793.9	7.5	8.2	-175.74	457.5	-941.9	1,420.9	1,410.1	10.79	131.655		
2,400.0	2,369.4	1,967.2	1,902.2	8.0	9.0	-176.90	451.6	-986.2	1,473.0	1,461.5	11.44	128.783		
2,500.0	2,467.2	2,051.5	1,980.6	8.4	9.6	-177.71	446.0	-1,016.8	1,523.3	1,511.3	11.98	127.115		
2,600.0	2,565.0	2,110.8	2,035.5	8.9	10.0	-178.21	443.2	-1,038.8	1,575.2	1,562.7	12.45	126.499		
2,700.0	2,662.8	2,266.2	2,180.7	9.3	11.1	-179.31	437.9	-1,094.1	1,626.6	1,613.4	13.20	123.191		
2,800.0	2,760.6	2,342.1	2,252.2	9.8	11.6	-179.79	434.9	-1,119.1	1,675.4	1,661.7	13.70	122.304		
2,900.0	2,858.5	2,404.5	2,310.9	10.2	12.0	179.86	433.3	-1,140.4	1,725.7	1,711.6	14.16	121.844		
3,000.0	2,956.3	2,477.6	2,379.3	10.7	12.5	179.44	431.3	-1,166.0	1,776.9	1,762.3	14.67	121.110		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 152-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		
3,100.0	3,054.1	2,568.0	2,463.7	11.2	13.2	178.90	427.4	-1,198.2	1,828.3	1,813.0	15.25	119.911		
3,200.0	3,151.9	2,646.9	2,537.2	11.6	13.7	178.44	423.6	-1,226.5	1,879.8	1,864.0	15.78	119.151		
3,300.0	3,249.7	2,723.8	2,608.9	12.1	14.3	178.04	420.6	-1,254.1	1,931.7	1,915.4	16.29	118.583		
3,400.0	3,347.5	2,848.4	2,725.6	12.5	15.1	177.49	417.3	-1,297.9	1,983.4	1,966.5	16.94	117.103		
3,500.0	3,445.3	2,941.0	2,812.8	13.0	15.7	177.10	414.3	-1,328.8	2,033.4	2,015.9	17.48	116.329		
3,600.0	3,543.2	2,997.0	2,865.4	13.5	16.1	176.87	412.5	-1,347.7	2,084.0	2,066.1	17.92	116.277		
3,700.0	3,641.0	3,047.3	2,912.4	13.9	16.5	176.69	411.7	-1,365.6	2,136.3	2,118.0	18.35	116.416		
3,800.0	3,738.8	3,116.7	2,977.1	14.4	17.0	176.45	410.8	-1,390.9	2,189.6	2,170.7	18.84	116.200		
3,900.0	3,836.6	3,250.6	3,102.2	14.8	18.0	175.95	406.4	-1,438.6	2,241.4	2,221.9	19.54	114.719		
4,000.0	3,934.4	3,313.0	3,160.2	15.3	18.4	175.71	404.0	-1,461.2	2,293.9	2,273.9	20.01	114.634		
4,100.0	4,032.2	3,420.2	3,260.0	15.8	19.2	175.31	399.7	-1,500.0	2,346.6	2,326.0	20.63	113.759		
4,159.1	4,090.0	3,482.8	3,318.6	16.0	19.6	175.09	396.8	-1,522.1	2,377.2	2,356.2	20.98	113.283		
4,200.0	4,130.1	3,535.9	3,368.3	16.2	20.0	174.95	394.3	-1,540.5	2,397.8	2,376.5	21.32	112.480		
4,300.0	4,228.5	3,682.4	3,506.4	16.5	21.0	174.56	387.1	-1,588.9	2,444.8	2,422.7	22.15	110.375		
4,400.0	4,327.5	3,786.2	3,604.6	16.8	21.6	174.31	380.9	-1,621.9	2,487.4	2,464.6	22.83	108.974		
4,500.0	4,426.9	3,872.0	3,685.8	17.0	22.2	174.12	375.8	-1,649.1	2,526.7	2,503.2	23.42	107.906		
4,600.0	4,526.6	3,913.3	3,724.8	17.2	22.5	174.06	373.1	-1,662.6	2,563.8	2,540.0	23.84	107.549		
4,700.0	4,626.6	3,965.0	3,773.0	17.3	22.8	173.96	369.8	-1,680.8	2,599.8	2,575.5	24.26	107.152		
4,759.3	4,685.8	3,994.0	3,800.0	17.4	23.1	-75.12	367.9	-1,691.3	2,620.3	2,581.1	39.17	66.897		
4,800.0	4,726.5	4,035.6	3,838.6	17.5	23.4	-75.28	365.0	-1,706.4	2,634.1	2,594.6	39.52	66.655		
4,900.0	4,826.5	4,099.7	3,898.1	17.6	23.9	-75.52	360.2	-1,730.0	2,668.2	2,628.1	40.12	66.515		
5,000.0	4,926.5	4,258.8	4,045.5	17.7	25.0	-76.06	350.4	-1,788.9	2,703.7	2,662.3	41.39	65.315		
5,100.0	5,026.5	4,384.0	4,163.7	17.8	25.9	-76.36	346.5	-1,829.9	2,734.7	2,692.4	42.34	64.595		
5,200.0	5,126.5	4,431.0	4,208.0	18.0	26.2	-76.46	345.6	-1,845.7	2,767.1	2,724.3	42.77	64.692		
5,300.0	5,226.5	4,504.8	4,277.1	18.1	26.7	-76.64	343.4	-1,871.4	2,800.6	2,757.1	43.43	64.488		
5,400.0	5,326.5	4,641.2	4,404.8	18.2	27.7	-76.99	337.9	-1,919.1	2,834.0	2,789.4	44.51	63.672		
5,500.0	5,426.5	4,758.2	4,514.8	18.3	28.5	-77.25	334.3	-1,958.6	2,866.5	2,821.0	45.42	63.110		
5,600.0	5,526.5	4,842.6	4,594.5	18.5	29.0	-77.44	331.5	-1,986.4	2,898.1	2,852.0	46.12	62.841		
5,700.0	5,626.5	4,896.0	4,644.6	18.6	29.4	-77.55	329.9	-2,004.7	2,931.0	2,884.4	46.62	62.874		
5,800.0	5,726.5	4,989.0	4,731.8	18.8	30.0	-77.75	327.2	-2,037.0	2,964.5	2,917.1	47.40	62.537		
5,900.0	5,826.5	5,042.4	4,781.7	18.9	30.4	-77.87	325.5	-2,055.9	2,998.7	2,950.8	47.93	62.561		
6,000.0	5,926.5	5,969.1	5,682.1	19.0	34.6	-79.29	292.6	-2,256.6	3,010.4	2,958.3	52.17	57.703		
6,100.0	6,026.5	6,297.3	6,009.8	19.2	35.1	-79.42	288.4	-2,273.0	3,015.8	2,963.0	52.82	57.092		
6,200.0	6,126.5	6,397.7	6,110.2	19.3	35.1	-79.43	288.1	-2,273.7	3,016.4	2,963.4	53.06	56.852		
6,300.0	6,226.5	6,498.3	6,210.8	19.5	35.2	-79.44	287.9	-2,274.3	3,017.0	2,963.7	53.29	56.611		
6,400.0	6,326.5	6,600.0	6,312.5	19.6	35.3	-79.44	287.5	-2,275.0	3,017.6	2,964.0	53.53	56.368		
6,433.3	6,359.8	6,633.9	6,346.4	19.7	35.4	-79.45	287.4	-2,275.2	3,017.7	2,964.1	53.61	56.287		
6,450.0	6,376.5	6,650.9	6,363.4	19.7	35.4	10.55	287.4	-2,275.3	3,017.6	2,983.2	34.44	87.621		
6,500.0	6,426.5	6,702.7	6,415.2	19.7	35.4	10.60	287.1	-2,275.5	3,015.0	2,980.3	34.67	86.974		
6,550.0	6,476.0	6,754.7	6,467.2	19.7	35.5	10.71	286.9	-2,275.8	3,008.9	2,974.1	34.77	86.540		
6,600.0	6,525.0	6,806.1	6,518.5	19.7	35.5	10.88	286.7	-2,276.0	2,999.4	2,964.6	34.75	86.316		
6,650.0	6,573.3	6,856.4	6,568.9	19.7	35.5	11.13	286.5	-2,276.1	2,986.5	2,951.9	34.61	86.296		
6,700.0	6,620.4	6,902.8	6,615.3	19.6	35.6	11.46	286.3	-2,276.3	2,970.3	2,936.0	34.35	86.480		
6,750.0	6,666.3	6,948.0	6,660.4	19.6	35.6	11.87	286.1	-2,276.4	2,951.0	2,917.0	33.98	86.845		
6,800.0	6,710.7	6,991.7	6,704.2	19.5	35.7	12.38	285.9	-2,276.6	2,928.5	2,895.0	33.52	87.365		
6,850.0	6,753.4	7,033.7	6,746.2	19.4	35.7	13.00	285.8	-2,276.7	2,903.1	2,870.1	32.99	88.008		
6,900.0	6,794.2	7,074.9	6,787.4	19.3	35.7	13.77	285.6	-2,276.9	2,874.9	2,842.5	32.41	88.710		
6,950.0	6,832.9	7,114.2	6,826.7	19.3	35.8	14.69	285.4	-2,277.0	2,843.9	2,812.1	31.81	89.390		
7,000.0	6,869.2	7,151.1	6,863.6	19.2	35.8	15.82	285.3	-2,277.2	2,810.3	2,779.1	31.25	89.918		
7,050.0	6,903.1	7,185.6	6,898.0	19.2	35.8	17.21	285.1	-2,277.3	2,774.4	2,743.6	30.79	90.098		
7,100.0	6,934.3	7,217.3	6,929.8	19.2	35.9	18.92	284.9	-2,277.4	2,736.2	2,705.7	30.52	89.653		
7,150.0	6,962.8	7,247.5	6,960.0	19.3	35.9	21.06	284.7	-2,277.5	2,696.0	2,665.4	30.57	88.201		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 152-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	6,988.3	7,275.0	6,987.4	19.5	35.9	23.78	284.5	-2,277.6	2,653.9	2,622.8	31.10	85.340	
7,250.0	7,010.7	7,299.1	7,011.6	19.7	35.9	27.29	284.4	-2,277.6	2,610.2	2,577.9	32.33	80.739	
7,300.0	7,029.9	7,319.8	7,032.3	20.0	36.0	31.88	284.3	-2,277.6	2,565.2	2,530.6	34.53	74.297	
7,350.0	7,045.9	7,337.0	7,049.4	20.4	36.0	38.01	284.1	-2,277.6	2,518.9	2,480.9	37.97	66.339	
7,400.0	7,058.6	7,350.5	7,063.0	20.8	36.0	46.27	284.1	-2,277.7	2,471.7	2,428.9	42.85	57.689	
7,450.0	7,067.8	7,360.4	7,072.9	21.4	36.0	57.34	284.0	-2,277.7	2,423.8	2,374.9	48.90	49.566	
7,500.0	7,073.6	7,366.5	7,079.0	22.0	36.0	71.48	283.9	-2,277.7	2,375.5	2,320.7	54.85	43.310	
7,550.0	7,076.0	7,369.0	7,081.5	22.7	36.0	87.70	283.9	-2,277.7	2,326.9	2,268.6	58.34	39.886	
7,561.7	7,076.0	7,369.1	7,081.5	22.9	36.0	91.56	283.9	-2,277.7	2,315.5	2,257.0	58.59	39.521	
7,600.0	7,075.8	7,368.8	7,081.3	23.4	36.0	91.54	283.9	-2,277.7	2,278.4	2,219.2	59.18	38.499	
7,700.0	7,075.3	7,368.3	7,080.8	25.1	36.0	91.48	283.9	-2,277.7	2,181.5	2,120.6	60.88	35.835	
7,800.0	7,074.8	7,367.8	7,080.3	27.0	36.0	91.43	283.9	-2,277.7	2,084.8	2,022.1	62.76	33.221	
7,900.0	7,074.4	7,367.3	7,079.8	29.0	36.0	91.37	283.9	-2,277.7	1,988.6	1,923.8	64.79	30.694	
8,000.0	7,073.9	7,366.7	7,079.2	31.1	36.0	91.32	283.9	-2,277.7	1,892.6	1,825.7	66.94	28.274	
8,100.0	7,073.4	7,366.2	7,078.7	33.4	36.0	91.26	283.9	-2,277.7	1,797.2	1,728.0	69.19	25.975	
8,200.0	7,072.9	7,365.7	7,078.2	35.7	36.0	91.21	284.0	-2,277.7	1,702.2	1,630.7	71.52	23.802	
8,300.0	7,072.4	7,365.2	7,077.7	38.1	36.0	91.16	284.0	-2,277.7	1,607.9	1,534.0	73.91	21.755	
8,400.0	7,071.9	7,364.7	7,077.2	40.6	36.0	91.10	284.0	-2,277.7	1,514.3	1,438.0	76.36	19.832	
8,500.0	7,071.5	7,364.2	7,076.7	43.1	36.0	91.05	284.0	-2,277.7	1,421.6	1,342.7	78.85	18.029	
8,600.0	7,071.0	7,363.7	7,076.2	45.6	36.0	91.00	284.0	-2,277.7	1,329.9	1,248.5	81.38	16.343	
8,700.0	7,070.5	7,363.2	7,075.7	48.1	36.0	90.94	284.0	-2,277.7	1,239.5	1,155.6	83.94	14.768	
8,800.0	7,070.0	7,362.7	7,075.2	50.7	36.0	90.89	284.0	-2,277.7	1,150.7	1,064.2	86.52	13.300	
8,900.0	7,069.5	7,362.2	7,074.7	53.3	36.0	90.84	284.0	-2,277.7	1,063.9	974.8	89.13	11.937	
9,000.0	7,069.0	7,361.7	7,074.2	56.0	36.0	90.79	284.0	-2,277.7	979.6	887.9	91.76	10.677	
9,100.0	7,068.6	7,361.2	7,073.7	58.6	36.0	90.74	284.0	-2,277.7	898.6	804.2	94.40	9.519	
9,200.0	7,068.1	7,360.7	7,073.2	61.3	36.0	90.69	284.0	-2,277.7	821.7	724.7	97.06	8.466	
9,300.0	7,067.6	7,360.2	7,072.7	63.9	36.0	90.64	284.0	-2,277.7	750.3	650.6	99.73	7.524	
9,400.0	7,067.1	7,359.7	7,072.2	66.6	36.0	90.59	284.0	-2,277.7	686.1	583.7	102.41	6.699	
9,500.0	7,066.6	7,359.3	7,071.7	69.3	36.0	90.53	284.0	-2,277.7	631.3	526.2	105.11	6.006	
9,600.0	7,066.1	7,358.8	7,071.3	72.0	36.0	90.48	284.0	-2,277.7	588.4	480.6	107.81	5.458	
9,700.0	7,065.6	7,358.3	7,070.8	74.7	36.0	90.44	284.0	-2,277.7	560.4	449.9	110.52	5.070	
9,800.0	7,065.2	7,357.8	7,070.3	77.5	36.0	90.39	284.0	-2,277.7	549.3	436.1	113.23	4.851	
9,811.2	7,065.1	7,357.8	7,070.3	77.8	36.0	90.38	284.0	-2,277.7	549.2	435.7	113.54	4.837 CC, ES	
9,900.0	7,064.7	7,357.4	7,069.8	80.2	36.0	90.34	284.0	-2,277.7	556.3	440.4	115.95	4.798 SF	
10,000.0	7,064.2	7,356.9	7,069.4	82.9	36.0	90.29	284.0	-2,277.7	580.8	462.1	118.68	4.893	
10,100.0	7,063.7	7,356.4	7,068.9	85.6	36.0	90.24	284.0	-2,277.7	620.5	499.1	121.42	5.111	
10,200.0	7,063.2	7,356.0	7,068.4	88.4	36.0	90.19	284.0	-2,277.7	672.9	548.7	124.15	5.420	
10,300.0	7,062.7	7,355.5	7,068.0	91.1	36.0	90.14	284.0	-2,277.7	735.2	608.3	126.90	5.794	
10,400.0	7,062.3	7,355.0	7,067.5	93.9	36.0	90.09	284.0	-2,277.7	805.2	675.5	129.64	6.211	
10,500.0	7,061.8	7,354.6	7,067.1	96.6	36.0	90.05	284.0	-2,277.7	880.9	748.5	132.39	6.654	
10,600.0	7,061.3	7,354.1	7,066.6	99.4	36.0	90.00	284.0	-2,277.7	961.1	826.0	135.14	7.112	
10,700.0	7,060.8	7,353.7	7,066.1	102.1	36.0	89.95	284.0	-2,277.7	1,044.8	906.9	137.90	7.576	
10,800.0	7,060.3	7,353.2	7,065.7	104.9	36.0	89.90	284.0	-2,277.7	1,131.1	990.4	140.66	8.041	
10,900.0	7,059.8	7,352.8	7,065.2	107.6	36.0	89.86	284.0	-2,277.7	1,219.4	1,076.0	143.42	8.503	
11,000.0	7,059.4	7,352.3	7,064.8	110.4	36.0	89.81	284.0	-2,277.7	1,309.5	1,163.3	146.18	8.958	
11,100.0	7,058.9	7,351.9	7,064.4	113.2	36.0	89.76	284.0	-2,277.7	1,400.9	1,252.0	148.95	9.405	
11,200.0	7,058.4	7,351.4	7,063.9	115.9	36.0	89.72	284.0	-2,277.7	1,493.4	1,341.7	151.71	9.844	
11,300.0	7,057.9	7,351.0	7,063.5	118.7	36.0	89.67	284.0	-2,277.7	1,586.8	1,432.3	154.48	10.272	
11,400.0	7,057.4	7,350.6	7,063.0	121.5	36.0	89.63	284.1	-2,277.7	1,681.0	1,523.8	157.25	10.690	
11,500.0	7,056.9	7,350.1	7,062.6	124.3	36.0	89.58	284.1	-2,277.7	1,775.8	1,615.8	160.03	11.097	
11,600.0	7,056.5	7,349.7	7,062.2	127.0	36.0	89.54	284.1	-2,277.7	1,871.2	1,708.4	162.80	11.494	
11,688.2	7,056.0	7,349.3	7,061.8	129.5	36.0	89.50	284.1	-2,277.7	1,955.6	1,790.4	165.25	11.835	

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

## Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 156-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	1.5	1.5	0.0	0.0	-53.79	429.9	-587.2	727.7				
100.0	100.0	104.9	104.9	0.1	0.1	-53.80	429.7	-587.0	727.5	727.3	0.17	4,167.048	
195.2	195.2	196.7	196.7	0.3	0.2	-53.82	429.2	-586.8	727.1	726.6	0.51	1,421.626	
200.0	200.0	201.0	201.0	0.3	0.2	-53.82	429.2	-586.9	727.1	726.5	0.53	1,368.997	
300.0	300.0	285.7	285.7	0.5	0.4	-53.94	428.4	-588.4	728.0	727.1	0.94	777.746	
400.0	400.0	367.8	367.6	0.8	0.6	-54.21	427.4	-592.7	731.5	730.2	1.35	543.119	
500.0	500.0	455.6	455.1	1.0	0.8	-54.64	425.7	-600.0	737.1	735.3	1.79	411.530	
600.0	600.0	550.9	549.8	1.2	1.1	-55.38	421.6	-610.6	743.8	741.5	2.28	325.794	
700.0	700.0	653.1	650.8	1.4	1.4	-167.37	414.6	-623.9	752.5	749.7	2.81	267.661	
800.0	799.8	756.2	752.7	1.6	1.8	-168.54	405.5	-637.3	763.7	760.4	3.33	229.027	
900.0	899.5	831.9	826.8	1.9	2.1	-169.64	396.6	-649.7	780.2	776.4	3.81	204.513	
1,000.0	998.7	925.0	916.8	2.1	2.5	-171.32	382.2	-668.5	802.0	797.5	4.44	180.566	
1,100.0	1,097.5	1,014.0	1,002.0	2.4	3.0	-173.12	365.8	-688.4	828.4	823.4	5.09	162.763	
1,200.0	1,195.6	1,091.8	1,075.9	2.7	3.5	-174.76	350.2	-707.2	860.1	854.3	5.71	150.590	
1,200.1	1,195.8	1,091.9	1,076.0	2.7	3.5	-174.76	350.2	-707.2	860.1	854.4	5.71	150.576	
1,300.0	1,293.4	1,174.0	1,153.3	3.1	4.0	-176.58	332.7	-728.3	895.2	888.8	6.40	139.981	
1,400.0	1,391.3	1,259.7	1,233.4	3.5	4.6	-178.47	312.9	-751.4	931.9	924.8	7.12	130.925	
1,500.0	1,489.1	1,341.8	1,309.7	4.0	5.2	179.76	293.0	-774.2	969.7	961.9	7.84	123.656	
1,600.0	1,586.9	1,419.3	1,381.4	4.4	5.8	178.14	273.4	-796.5	1,009.3	1,000.8	8.53	118.379	
1,700.0	1,684.7	1,497.3	1,453.3	4.8	6.4	176.62	254.1	-819.6	1,050.5	1,041.3	9.20	114.203	
1,800.0	1,782.5	1,573.0	1,522.5	5.3	6.9	175.13	233.8	-842.8	1,093.0	1,083.2	9.87	110.777	
1,900.0	1,880.3	1,650.3	1,592.3	5.7	7.6	173.61	211.6	-867.3	1,137.0	1,126.4	10.61	107.182	
2,000.0	1,978.1	1,733.3	1,667.1	6.1	8.2	172.08	187.8	-894.3	1,182.5	1,171.1	11.34	104.312	
2,100.0	2,075.9	1,811.0	1,737.3	6.6	8.8	170.77	166.1	-919.5	1,228.7	1,216.7	12.02	102.259	
2,200.0	2,173.8	1,895.8	1,813.9	7.0	9.5	169.45	143.0	-947.4	1,276.0	1,263.3	12.72	100.307	
2,300.0	2,271.6	1,991.7	1,901.5	7.5	10.2	168.15	118.4	-978.2	1,323.1	1,309.7	13.46	98.320	
2,400.0	2,369.4	2,071.1	1,973.9	8.0	10.8	167.15	98.0	-1,003.3	1,370.4	1,356.3	14.12	97.076	
2,500.0	2,467.2	2,138.9	2,035.2	8.4	11.4	166.27	79.3	-1,025.6	1,419.0	1,404.2	14.75	96.218	
2,600.0	2,565.0	2,237.9	2,124.4	8.9	12.2	165.04	51.4	-1,058.2	1,468.0	1,452.5	15.54	94.454	
2,700.0	2,662.8	2,339.8	2,216.8	9.3	12.9	163.88	22.9	-1,090.3	1,516.1	1,499.8	16.31	92.951	
2,800.0	2,760.6	2,411.0	2,281.6	9.8	13.5	163.16	3.9	-1,112.9	1,564.8	1,547.8	16.93	92.401	
2,900.0	2,858.5	2,488.0	2,351.6	10.2	14.1	162.43	-16.2	-1,137.8	1,614.2	1,596.6	17.60	91.703	
3,000.0	2,956.3	2,592.6	2,446.7	10.7	14.9	161.48	-44.2	-1,171.3	1,663.7	1,645.3	18.41	90.392	
3,100.0	3,054.1	2,689.0	2,534.2	11.2	15.7	160.61	-71.3	-1,201.2	1,712.5	1,693.3	19.17	89.338	
3,200.0	3,151.9	2,767.1	2,605.0	11.6	16.3	159.92	-94.0	-1,225.3	1,761.4	1,741.6	19.85	88.719	
3,300.0	3,249.7	2,855.9	2,685.4	12.1	17.0	159.17	-119.8	-1,252.8	1,810.7	1,790.1	20.59	87.946	
3,400.0	3,347.5	2,960.7	2,780.5	12.5	17.9	158.33	-150.4	-1,284.6	1,859.7	1,838.3	21.40	86.916	
3,500.0	3,445.3	3,024.0	2,837.9	13.0	18.4	157.85	-168.9	-1,303.7	1,908.7	1,886.7	22.01	86.717	
3,600.0	3,543.2	3,083.7	2,891.8	13.5	18.8	157.41	-186.3	-1,322.5	1,959.1	1,936.4	22.61	86.661	
3,700.0	3,641.0	3,156.0	2,957.2	13.9	19.4	156.95	-206.0	-1,346.3	2,010.6	1,987.3	23.26	86.442	
3,800.0	3,738.8	3,310.2	3,097.8	14.4	20.6	156.06	-246.8	-1,394.5	2,060.7	2,036.5	24.25	84.977	
3,900.0	3,836.6	3,375.5	3,157.7	14.8	21.1	155.70	-264.1	-1,413.9	2,109.8	2,084.9	24.85	84.896	
4,000.0	3,934.4	3,435.0	3,212.0	15.3	21.6	155.40	-279.5	-1,432.9	2,160.5	2,135.0	25.43	84.957	
4,100.0	4,032.2	3,528.0	3,296.9	15.8	22.3	154.98	-302.8	-1,462.7	2,211.5	2,185.4	26.15	84.579	
4,159.1	4,090.0	3,574.3	3,339.4	16.0	22.7	154.78	-314.2	-1,477.2	2,241.4	2,214.9	26.54	84.469	
4,200.0	4,130.1	3,599.7	3,362.6	16.2	22.9	154.87	-320.6	-1,485.3	2,262.1	2,235.2	26.86	84.221	
4,300.0	4,228.5	3,683.7	3,439.3	16.5	23.5	154.96	-341.5	-1,512.5	2,311.1	2,283.4	27.68	83.495	
4,400.0	4,327.5	3,753.0	3,502.6	16.8	24.1	155.09	-358.2	-1,535.0	2,357.4	2,329.0	28.39	83.029	
4,500.0	4,426.9	3,823.2	3,566.4	17.0	24.6	155.17	-375.4	-1,558.7	2,402.2	2,373.1	29.07	82.646	
4,600.0	4,526.6	3,936.7	3,670.0	17.2	25.6	154.96	-403.8	-1,595.5	2,442.8	2,412.9	29.89	81.727	
4,700.0	4,626.6	3,993.0	3,720.9	17.3	26.0	155.00	-418.6	-1,614.3	2,482.1	2,451.7	30.42	81.599	
4,759.3	4,685.8	4,024.5	3,749.2	17.4	26.3	-94.00	-427.2	-1,625.2	2,504.6	2,465.8	38.81	64.544	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 156-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.0	4,726.5	4,057.9	3,779.2	17.5	26.6	-94.21	-436.5	-1,636.7	2,519.9	2,480.8	39.13	64.398		
4,900.0	4,826.5	4,117.7	3,832.6	17.6	27.1	-94.58	-453.5	-1,657.4	2,558.1	2,518.3	39.76	64.333		
5,000.0	4,926.5	4,179.0	3,886.9	17.7	27.7	-94.97	-471.3	-1,679.7	2,597.9	2,557.5	40.42	64.270		
5,100.0	5,026.5	4,266.9	3,964.6	17.8	28.5	-95.49	-496.3	-1,712.2	2,638.5	2,597.2	41.31	63.864		
5,200.0	5,126.5	4,446.2	4,125.8	18.0	30.0	-96.46	-544.5	-1,774.2	2,676.2	2,633.3	42.89	62.395		
5,300.0	5,226.5	4,504.1	4,178.0	18.1	30.5	-96.76	-559.8	-1,793.9	2,714.2	2,670.7	43.50	62.392		
5,400.0	5,326.5	4,652.7	4,311.5	18.2	31.7	-97.52	-600.3	-1,845.3	2,753.3	2,708.5	44.87	61.362		
5,500.0	5,426.5	4,731.2	4,382.5	18.3	32.4	-97.92	-621.9	-1,871.0	2,790.5	2,744.9	45.64	61.145		
5,600.0	5,526.5	4,807.6	4,451.2	18.5	33.0	-98.32	-643.7	-1,896.2	2,828.3	2,781.9	46.41	60.945		
5,700.0	5,626.5	4,958.9	4,588.3	18.6	34.3	-99.06	-685.5	-1,944.7	2,864.8	2,817.1	47.75	59.994		
5,800.0	5,726.5	5,018.0	4,641.9	18.8	34.7	-99.32	-701.0	-1,963.9	2,901.9	2,853.5	48.36	60.003		
5,900.0	5,826.5	5,308.5	4,907.6	18.9	37.0	-100.62	-779.4	-2,051.3	2,938.5	2,887.8	50.69	57.968		
6,000.0	5,926.5	5,548.9	5,135.0	19.0	38.4	-101.35	-828.0	-2,112.0	2,967.3	2,915.0	52.31	56.722		
6,100.0	6,026.5	6,251.4	5,823.6	19.2	41.1	-102.46	-907.4	-2,214.7	2,983.3	2,928.2	55.11	54.134		
6,200.0	6,126.5	6,447.4	6,019.3	19.3	41.4	-102.55	-914.0	-2,223.3	2,988.2	2,932.6	55.58	53.767		
6,300.0	6,226.5	6,577.8	6,149.6	19.5	41.5	-102.59	-917.0	-2,226.7	2,991.1	2,935.2	55.90	53.512		
6,400.0	6,326.5	6,690.5	6,262.3	19.6	41.6	-102.62	-918.9	-2,229.1	2,993.5	2,937.4	56.18	53.281		
6,433.3	6,359.8	6,733.2	6,305.0	19.7	41.7	-102.62	-919.4	-2,229.8	2,994.2	2,937.9	56.28	53.201		
6,450.0	6,376.5	6,755.3	6,327.1	19.7	41.7	-12.62	-919.6	-2,230.2	2,994.3	2,952.6	41.76	71.698		
6,500.0	6,426.5	6,814.2	6,386.0	19.7	41.8	-12.68	-920.2	-2,231.0	2,992.2	2,950.3	41.95	71.328		
6,550.0	6,476.0	6,865.1	6,436.9	19.7	41.8	-12.82	-920.8	-2,231.6	2,986.7	2,944.8	41.92	71.256		
6,600.0	6,525.0	6,915.4	6,487.2	19.7	41.9	-13.03	-921.5	-2,232.1	2,977.8	2,936.1	41.67	71.460		
6,650.0	6,573.3	6,965.0	6,536.8	19.7	41.9	-13.33	-922.1	-2,232.6	2,965.5	2,924.3	41.22	71.936		
6,700.0	6,620.4	7,016.8	6,588.6	19.6	42.0	-13.73	-922.7	-2,233.1	2,949.9	2,909.3	40.59	72.677		
6,750.0	6,666.3	7,068.3	6,640.1	19.6	42.0	-14.24	-923.2	-2,233.6	2,931.1	2,891.3	39.78	73.685		
6,800.0	6,710.7	7,109.0	6,680.7	19.5	42.0	-14.84	-923.6	-2,233.9	2,909.2	2,870.4	38.80	74.971		
6,850.0	6,753.4	7,147.9	6,719.6	19.4	42.1	-15.56	-924.0	-2,234.3	2,884.4	2,846.7	37.70	76.507		
6,900.0	6,794.2	7,191.7	6,763.5	19.3	42.1	-16.47	-924.3	-2,234.7	2,856.7	2,820.2	36.51	78.247		
6,950.0	6,832.9	7,237.4	6,809.2	19.3	42.1	-17.59	-924.6	-2,235.1	2,826.3	2,791.0	35.28	80.113		
7,000.0	6,869.2	7,274.8	6,846.6	19.2	42.2	-18.92	-924.8	-2,235.4	2,793.2	2,759.2	34.07	81.977		
7,050.0	6,903.1	7,305.8	6,877.6	19.2	42.2	-20.50	-925.0	-2,235.6	2,757.8	2,724.9	32.99	83.594		
7,100.0	6,934.3	7,334.5	6,906.3	19.2	42.2	-22.43	-925.2	-2,235.9	2,720.3	2,688.1	32.17	84.558		
7,150.0	6,962.8	7,364.1	6,935.9	19.3	42.3	-24.84	-925.4	-2,236.2	2,680.7	2,648.9	31.81	84.270		
7,200.0	6,988.3	7,395.0	6,966.8	19.5	42.3	-27.93	-925.6	-2,236.5	2,639.3	2,607.1	32.17	82.034		
7,250.0	7,010.7	7,422.1	6,993.8	19.7	42.3	-31.83	-925.8	-2,236.6	2,596.3	2,562.8	33.52	77.462		
7,300.0	7,029.9	7,444.8	7,016.6	20.0	42.3	-36.79	-925.9	-2,236.8	2,551.8	2,515.7	36.08	70.736		
7,350.0	7,045.9	7,460.6	7,032.4	20.4	42.3	-43.04	-926.0	-2,236.8	2,506.2	2,466.3	39.90	62.811		
7,400.0	7,058.6	7,473.2	7,045.0	20.8	42.4	-51.06	-926.0	-2,236.9	2,459.6	2,414.8	44.89	54.791		
7,450.0	7,067.8	7,482.5	7,054.3	21.4	42.4	-61.13	-926.1	-2,236.9	2,412.4	2,362.0	50.43	47.834		
7,500.0	7,073.6	7,488.5	7,060.2	22.0	42.4	-73.21	-926.1	-2,237.0	2,364.7	2,309.5	55.25	42.798		
7,550.0	7,076.0	7,491.0	7,062.8	22.7	42.4	-86.51	-926.1	-2,237.0	2,316.9	2,259.1	57.74	40.123		
7,561.7	7,076.0	7,491.1	7,062.9	22.9	42.4	-89.66	-926.1	-2,237.0	2,305.6	2,247.7	57.87	39.843		
7,600.0	7,075.8	7,491.2	7,062.9	23.4	42.4	-89.66	-926.1	-2,237.0	2,269.0	2,210.5	58.46	38.814		
7,700.0	7,075.3	7,491.3	7,063.0	25.1	42.4	-89.67	-926.1	-2,237.0	2,173.5	2,113.4	60.15	36.134		
7,800.0	7,074.8	7,491.4	7,063.1	27.0	42.4	-89.68	-926.1	-2,237.0	2,078.5	2,016.4	62.03	33.506		
7,900.0	7,074.4	7,491.5	7,063.2	29.0	42.4	-89.69	-926.1	-2,237.0	1,983.9	1,919.8	64.06	30.968		
8,000.0	7,073.9	7,491.6	7,063.3	31.1	42.4	-89.70	-926.1	-2,237.0	1,889.9	1,823.7	66.22	28.541		
8,100.0	7,073.4	7,491.7	7,063.4	33.4	42.4	-89.71	-926.1	-2,237.0	1,796.6	1,728.1	68.47	26.240		
8,200.0	7,072.9	7,491.8	7,063.5	35.7	42.4	-89.71	-926.1	-2,237.0	1,704.0	1,633.2	70.80	24.069		
8,300.0	7,072.4	7,491.9	7,063.6	38.1	42.4	-89.72	-926.1	-2,237.0	1,612.3	1,539.1	73.19	22.029		
8,400.0	7,071.9	7,492.0	7,063.7	40.6	42.4	-89.73	-926.1	-2,237.0	1,521.6	1,446.0	75.64	20.118		
8,500.0	7,071.5	7,492.1	7,063.8	43.1	42.4	-89.74	-926.1	-2,237.0	1,432.2	1,354.1	78.13	18.332		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD RYLAND 20YD - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 156-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.0	7,071.0	7,492.2	7,063.9	45.6	42.4	-89.75	-926.1	-2,237.0	1,344.3	1,263.6	80.66	16.667	
8,700.0	7,070.5	7,492.3	7,064.0	48.1	42.4	-89.76	-926.1	-2,237.0	1,258.2	1,174.9	83.21	15.119	
8,800.0	7,070.0	7,492.4	7,064.1	50.7	42.4	-89.77	-926.1	-2,237.0	1,174.2	1,088.4	85.80	13.686	
8,900.0	7,069.5	7,492.5	7,064.2	53.3	42.4	-89.78	-926.1	-2,237.0	1,093.0	1,004.6	88.41	12.364	
9,000.0	7,069.0	7,492.6	7,064.3	56.0	42.4	-89.79	-926.1	-2,237.0	1,015.2	924.1	91.03	11.152	
9,100.0	7,068.6	7,492.7	7,064.4	58.6	42.4	-89.79	-926.1	-2,237.0	941.5	847.9	93.68	10.051	
9,200.0	7,068.1	7,492.8	7,064.5	61.3	42.4	-89.80	-926.1	-2,237.0	873.1	776.8	96.34	9.063	
9,300.0	7,067.6	7,492.9	7,064.7	63.9	42.4	-89.81	-926.1	-2,237.0	811.3	712.3	99.01	8.194	
9,400.0	7,067.1	7,493.0	7,064.8	66.6	42.4	-89.82	-926.1	-2,237.0	757.7	656.0	101.69	7.451	
9,500.0	7,066.6	7,493.1	7,064.9	69.3	42.4	-89.83	-926.1	-2,237.0	714.1	609.8	104.38	6.841	
9,600.0	7,066.1	7,493.2	7,065.0	72.0	42.4	-89.84	-926.1	-2,237.0	682.6	575.5	107.09	6.374	
9,700.0	7,065.6	7,493.3	7,065.1	74.7	42.4	-89.85	-926.1	-2,237.0	664.6	554.9	109.80	6.054	
9,770.6	7,065.3	7,493.4	7,065.2	76.7	42.4	-89.86	-926.1	-2,237.0	660.9	549.2	111.71	5.916 CC	
9,800.0	7,065.2	7,493.4	7,065.2	77.5	42.4	-89.86	-926.1	-2,237.0	661.5	549.0	112.51	5.880 ES	
9,900.0	7,064.7	7,493.5	7,065.3	80.2	42.4	-89.87	-926.1	-2,237.0	673.4	558.2	115.23	5.844 SF	
10,000.0	7,064.2	7,493.7	7,065.4	82.9	42.4	-89.88	-926.1	-2,237.0	699.6	581.6	117.96	5.930	
10,100.0	7,063.7	7,493.8	7,065.5	85.6	42.4	-89.89	-926.1	-2,237.0	738.4	617.7	120.70	6.118	
10,200.0	7,063.2	7,493.9	7,065.6	88.4	42.4	-89.90	-926.1	-2,237.0	788.1	664.7	123.43	6.385	
10,300.0	7,062.7	7,494.0	7,065.7	91.1	42.4	-89.91	-926.1	-2,237.0	846.8	720.6	126.18	6.711	
10,400.0	7,062.3	7,494.1	7,065.9	93.9	42.4	-89.92	-926.1	-2,237.0	912.6	783.7	128.92	7.079	
10,500.0	7,061.8	7,494.2	7,066.0	96.6	42.4	-89.93	-926.1	-2,237.0	984.3	852.6	131.67	7.475	
10,600.0	7,061.3	7,494.3	7,066.1	99.4	42.4	-89.94	-926.1	-2,237.0	1,060.5	926.1	134.43	7.889	
10,700.0	7,060.8	7,494.4	7,066.2	102.1	42.4	-89.95	-926.1	-2,237.0	1,140.4	1,003.2	137.18	8.313	
10,800.0	7,060.3	7,494.6	7,066.3	104.9	42.4	-89.96	-926.1	-2,237.0	1,223.3	1,083.3	139.94	8.741	
10,900.0	7,059.8	7,494.7	7,066.4	107.6	42.4	-89.97	-926.1	-2,237.0	1,308.6	1,165.9	142.70	9.170	
11,000.0	7,059.4	7,494.8	7,066.5	110.4	42.4	-89.98	-926.1	-2,237.0	1,395.8	1,250.3	145.47	9.595	
11,100.0	7,058.9	7,494.9	7,066.7	113.2	42.4	-89.99	-926.1	-2,237.0	1,484.6	1,336.4	148.23	10.015	
11,200.0	7,058.4	7,495.0	7,066.8	115.9	42.4	-90.00	-926.1	-2,237.0	1,574.8	1,423.8	151.00	10.429	
11,300.0	7,057.9	7,495.1	7,066.9	118.7	42.4	-90.01	-926.1	-2,237.0	1,666.1	1,512.3	153.77	10.835	
11,400.0	7,057.4	7,495.3	7,067.0	121.5	42.4	-90.02	-926.1	-2,237.0	1,758.3	1,601.8	156.54	11.232	
11,500.0	7,056.9	7,495.4	7,067.1	124.3	42.4	-90.03	-926.1	-2,237.0	1,851.4	1,692.1	159.32	11.621	
11,600.0	7,056.5	7,495.5	7,067.3	127.0	42.4	-90.04	-926.1	-2,237.0	1,945.1	1,783.0	162.09	12.000	
11,688.2	7,056.0	7,495.6	7,067.3	129.5	42.4	-90.05	-926.1	-2,237.0	2,028.3	1,863.7	164.54	12.327	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 568-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	-88.37	113.6	-3,981.3	3,983.1				
100.0	100.0	55.6	55.6	0.1	0.1	-88.37	113.6	-3,981.3	3,982.9	3,982.7	0.16	N/A	
200.0	200.0	152.3	152.3	0.3	0.2	-88.37	113.6	-3,981.4	3,983.0	3,982.5	0.49	8,122.439	
300.0	300.0	248.9	248.9	0.5	0.3	-88.37	113.5	-3,981.5	3,983.2	3,982.3	0.82	4,845.405	
400.0	400.0	345.6	345.6	0.8	0.4	-88.37	113.4	-3,981.8	3,983.4	3,982.3	1.15	3,452.645	
500.0	500.0	442.3	442.3	1.0	0.5	-88.37	113.3	-3,982.1	3,983.8	3,982.3	1.49	2,681.927	
600.0	600.0	539.0	538.9	1.2	0.6	-88.37	113.2	-3,982.5	3,984.2	3,982.4	1.82	2,192.620	
700.0	700.0	639.7	639.7	1.4	0.8	160.64	113.2	-3,983.0	3,986.3	3,984.1	2.21	1,806.377	
800.0	799.8	751.6	751.6	1.6	1.0	160.64	113.4	-3,983.4	3,991.6	3,988.9	2.63	1,520.493	
900.0	899.5	833.4	833.4	1.9	1.2	160.61	113.4	-3,983.6	4,000.1	3,997.1	3.01	1,330.820	
1,000.0	998.7	929.0	929.0	2.1	1.4	160.59	113.4	-3,984.3	4,012.3	4,008.9	3.43	1,170.902	
1,100.0	1,097.5	1,034.5	1,034.5	2.4	1.6	160.56	113.4	-3,984.9	4,027.7	4,023.8	3.87	1,041.296	
1,200.0	1,195.6	1,119.4	1,119.4	2.7	1.8	160.51	113.4	-3,985.5	4,046.4	4,042.1	4.28	944.341	
1,200.1	1,195.8	1,119.5	1,119.5	2.7	1.8	160.51	113.4	-3,985.5	4,046.4	4,042.1	4.29	944.220	
1,300.0	1,293.4	1,208.4	1,208.4	3.1	1.9	160.60	113.6	-3,986.3	4,067.0	4,062.2	4.72	861.020	
1,400.0	1,391.3	1,313.0	1,313.0	3.5	2.2	160.71	114.0	-3,987.3	4,087.6	4,082.4	5.20	786.712	
1,500.0	1,489.1	1,421.0	1,421.0	4.0	2.4	160.82	114.3	-3,988.1	4,108.0	4,102.3	5.68	723.737	
1,600.0	1,586.9	1,508.0	1,507.9	4.4	2.6	160.91	114.7	-3,988.8	4,128.4	4,122.3	6.13	673.943	
1,700.0	1,684.7	1,604.7	1,604.7	4.8	2.8	161.02	115.4	-3,989.6	4,149.0	4,142.4	6.60	628.398	
1,800.0	1,782.5	1,690.0	1,690.0	5.3	3.0	161.10	115.8	-3,990.5	4,169.7	4,162.7	7.06	590.901	
1,900.0	1,880.3	1,929.1	1,929.0	5.7	3.5	161.39	120.8	-3,989.5	4,189.4	4,181.6	7.81	536.271	
2,000.0	1,978.1	2,016.5	2,016.1	6.1	3.6	161.57	127.5	-3,987.2	4,207.0	4,198.7	8.28	508.192	
2,100.0	2,075.9	2,065.0	2,064.3	6.6	3.8	161.68	132.6	-3,986.2	4,225.3	4,216.7	8.67	487.442	
2,200.0	2,173.8	2,112.6	2,111.5	7.0	3.9	161.80	138.3	-3,985.6	4,244.8	4,235.7	9.07	468.207	
2,300.0	2,271.6	2,158.0	2,156.5	7.5	4.0	161.93	144.3	-3,985.9	4,265.8	4,256.4	9.46	451.019	
2,400.0	2,369.4	2,218.3	2,216.1	8.0	4.1	162.10	153.1	-3,986.8	4,287.9	4,278.0	9.89	433.366	
2,500.0	2,467.2	2,345.0	2,340.9	8.4	4.5	162.51	175.4	-3,988.1	4,309.9	4,299.4	10.51	410.255	
2,600.0	2,565.0	2,400.9	2,395.6	8.9	4.6	162.71	187.1	-3,988.5	4,332.0	4,321.0	10.96	395.354	
2,700.0	2,662.8	2,439.0	2,432.6	9.3	4.8	162.86	195.7	-3,989.1	4,355.4	4,344.0	11.36	383.517	
2,800.0	2,760.6	2,485.8	2,478.0	9.8	4.9	163.05	207.2	-3,990.4	4,380.0	4,368.2	11.80	371.066	
2,900.0	2,858.5	2,532.0	2,522.4	10.2	5.1	163.25	219.7	-3,992.1	4,406.0	4,393.7	12.25	359.705	
3,000.0	2,956.3	2,593.7	2,581.4	10.7	5.4	163.54	237.8	-3,994.9	4,432.9	4,420.1	12.77	347.003	
3,100.0	3,054.1	2,663.6	2,647.8	11.2	5.7	163.87	259.1	-3,998.1	4,460.5	4,447.2	13.33	334.561	
3,200.0	3,151.9	2,747.9	2,728.1	11.6	6.0	164.26	284.5	-4,002.5	4,488.8	4,474.8	13.94	321.982	
3,300.0	3,249.7	2,957.9	2,929.5	12.1	6.9	165.17	343.5	-4,011.0	4,516.1	4,501.1	15.02	300.635	
3,400.0	3,347.5	3,113.5	3,079.7	12.5	7.6	165.79	383.9	-4,014.4	4,541.6	4,525.7	15.91	285.409	
3,500.0	3,445.3	3,199.1	3,162.4	13.0	8.0	166.13	405.7	-4,015.8	4,566.7	4,550.2	16.54	276.108	
3,600.0	3,543.2	3,281.0	3,241.7	13.5	8.3	166.44	426.3	-4,017.4	4,592.3	4,575.2	17.15	267.715	
3,700.0	3,641.0	3,374.3	3,332.2	13.9	8.7	166.78	449.2	-4,019.5	4,618.2	4,600.4	17.80	259.389	
3,800.0	3,738.8	3,526.8	3,479.9	14.4	9.4	167.34	486.7	-4,021.4	4,643.3	4,624.6	18.70	248.254	
3,900.0	3,836.6	3,601.4	3,552.1	14.8	9.8	167.62	505.7	-4,021.9	4,668.3	4,649.0	19.30	241.933	
4,000.0	3,934.4	3,656.0	3,604.8	15.3	10.0	167.82	519.7	-4,022.7	4,694.1	4,674.3	19.81	237.006	
4,100.0	4,032.2	3,719.4	3,666.0	15.8	10.3	168.06	536.3	-4,023.9	4,720.7	4,700.4	20.36	231.856	
4,159.1	4,090.0	3,749.0	3,694.5	16.0	10.5	168.18	544.4	-4,024.6	4,736.8	4,716.2	20.65	229.346	
4,200.0	4,130.1	3,780.8	3,725.0	16.2	10.6	168.34	553.1	-4,025.4	4,747.9	4,727.0	20.93	226.895	
4,300.0	4,228.5	3,843.0	3,784.7	16.5	10.9	168.68	570.5	-4,027.3	4,773.0	4,751.6	21.47	222.261	
4,400.0	4,327.5	3,915.3	3,854.1	16.8	11.3	169.04	590.9	-4,029.8	4,795.5	4,773.5	22.05	217.493	
4,500.0	4,426.9	4,001.6	3,936.8	17.0	11.8	169.42	615.3	-4,033.0	4,815.2	4,792.6	22.65	212.552	
4,600.0	4,526.6	4,252.9	4,178.2	17.2	13.0	170.31	684.7	-4,039.0	4,830.3	4,806.3	23.98	201.437	
4,700.0	4,626.6	4,310.0	4,232.9	17.3	13.3	170.54	701.1	-4,039.5	4,840.9	4,816.5	24.40	198.403	
4,759.3	4,685.8	4,404.0	4,322.8	17.4	13.8	-78.14	728.6	-4,040.2	4,845.6	4,818.4	27.19	178.235	
4,800.0	4,726.5	4,404.0	4,322.8	17.5	13.8	-78.14	728.6	-4,040.2	4,848.5	4,821.2	27.23	178.026	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 568-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,474.6	4,390.0	17.6	14.2	-77.89	750.2	-4,040.7	4,856.0	4,828.4	27.59	176.010	
5,000.0	4,926.5	4,541.2	4,453.1	17.7	14.6	-77.65	771.4	-4,041.7	4,864.5	4,836.6	27.94	174.133	
5,100.0	5,026.5	4,617.4	4,525.5	17.8	15.0	-77.38	795.1	-4,043.2	4,873.6	4,845.3	28.32	172.099	
5,200.0	5,126.5	4,687.0	4,591.6	18.0	15.4	-77.13	817.0	-4,044.9	4,883.4	4,854.7	28.68	170.245	
5,300.0	5,226.5	4,764.6	4,665.3	18.1	15.9	-76.86	841.1	-4,047.3	4,893.8	4,864.7	29.08	168.266	
5,400.0	5,326.5	4,841.4	4,738.5	18.2	16.3	-76.60	864.0	-4,050.1	4,904.6	4,875.1	29.48	166.379	
5,500.0	5,426.5	5,165.4	5,053.8	18.3	17.7	-75.81	936.6	-4,060.6	4,912.8	4,882.2	30.60	160.536	
5,600.0	5,526.5	5,529.3	5,415.2	18.5	18.7	-75.36	977.0	-4,065.2	4,916.7	4,885.1	31.61	155.564	
5,700.0	5,626.5	5,626.7	5,512.4	18.6	18.9	-75.29	983.6	-4,064.9	4,918.1	4,886.2	31.94	153.961	
5,800.0	5,726.5	5,719.5	5,605.1	18.8	19.1	-75.23	988.8	-4,065.0	4,919.7	4,887.4	32.27	152.445	
5,900.0	5,826.5	5,809.0	5,694.5	18.9	19.3	-75.19	992.3	-4,065.5	4,921.3	4,888.7	32.59	151.013	
6,000.0	5,926.5	5,902.0	5,787.5	19.0	19.4	-75.17	994.4	-4,066.8	4,923.1	4,890.2	32.91	149.596	
6,100.0	6,026.5	6,087.0	5,972.5	19.2	19.7	-75.18	994.1	-4,068.1	4,923.4	4,890.1	33.38	147.510	
6,200.0	6,126.5	6,181.0	6,066.5	19.3	19.8	-75.19	993.6	-4,068.5	4,923.6	4,889.9	33.68	146.178	
6,300.0	6,226.5	6,275.0	6,160.5	19.5	19.9	-75.19	993.3	-4,068.9	4,924.0	4,890.0	33.99	144.855	
6,400.0	6,326.5	6,341.6	6,227.1	19.6	20.0	-75.20	993.0	-4,069.6	4,924.9	4,890.6	34.26	143.747	
6,433.3	6,359.8	6,368.0	6,253.4	19.7	20.0	-75.20	992.8	-4,070.0	4,925.3	4,890.9	34.36	143.353	
6,450.0	6,376.5	6,379.1	6,264.5	19.7	20.0	14.80	992.7	-4,070.2	4,925.3	4,891.5	33.79	145.780	
6,500.0	6,426.5	6,420.5	6,306.0	19.7	20.1	14.84	992.5	-4,070.9	4,923.3	4,889.5	33.73	145.961	
6,550.0	6,476.0	6,462.0	6,347.4	19.7	20.1	14.97	992.3	-4,071.6	4,917.9	4,884.4	33.53	146.687	
6,600.0	6,525.0	6,546.5	6,431.9	19.7	20.2	15.20	992.0	-4,072.9	4,909.1	4,875.9	33.23	147.716	
6,650.0	6,573.3	6,593.4	6,478.8	19.7	20.3	15.50	991.8	-4,073.5	4,896.8	4,864.0	32.76	149.483	
6,700.0	6,620.4	6,635.3	6,520.7	19.6	20.3	15.90	991.8	-4,074.0	4,881.3	4,849.2	32.15	151.832	
6,750.0	6,666.3	6,674.4	6,559.8	19.6	20.4	16.39	991.8	-4,074.5	4,862.8	4,831.3	31.42	154.757	
6,800.0	6,710.7	6,711.4	6,596.8	19.5	20.4	17.00	991.7	-4,075.0	4,841.2	4,810.6	30.59	158.248	
6,850.0	6,753.4	6,751.4	6,636.8	19.4	20.5	17.75	991.5	-4,075.7	4,816.8	4,787.1	29.69	162.245	
6,900.0	6,794.2	6,821.0	6,706.4	19.3	20.6	18.75	991.2	-4,076.7	4,789.4	4,760.6	28.77	166.461	
6,950.0	6,832.9	6,865.1	6,750.5	19.3	20.6	19.89	991.0	-4,077.1	4,759.1	4,731.3	27.81	171.131	
7,000.0	6,869.2	6,900.6	6,786.0	19.2	20.7	21.24	990.8	-4,077.5	4,726.3	4,699.5	26.87	175.897	
7,050.0	6,903.1	6,935.1	6,820.5	19.2	20.7	22.88	990.6	-4,077.9	4,691.2	4,665.2	26.02	180.263	
7,100.0	6,934.3	6,976.9	6,862.3	19.2	20.8	24.95	990.4	-4,078.2	4,653.8	4,628.5	25.37	183.423	
7,150.0	6,962.8	7,014.7	6,900.1	19.3	20.8	27.49	990.3	-4,078.5	4,614.4	4,589.4	25.00	184.600	
7,200.0	6,988.3	7,038.3	6,923.6	19.5	20.9	30.53	990.2	-4,078.6	4,573.2	4,548.2	24.98	183.070	
7,250.0	7,010.7	7,056.1	6,941.5	19.7	20.9	34.30	990.2	-4,078.7	4,530.3	4,504.9	25.46	177.940	
7,300.0	7,029.9	7,071.5	6,956.9	20.0	20.9	39.04	990.3	-4,078.8	4,486.2	4,459.6	26.56	168.898	
7,350.0	7,045.9	7,084.4	6,969.7	20.4	20.9	45.04	990.3	-4,078.9	4,440.8	4,412.5	28.36	156.601	
7,400.0	7,058.6	7,094.6	6,980.0	20.8	21.0	52.65	990.4	-4,079.0	4,394.6	4,363.8	30.81	142.637	
7,450.0	7,067.8	7,102.2	6,987.6	21.4	21.0	62.12	990.4	-4,079.0	4,347.6	4,313.9	33.65	129.190	
7,500.0	7,073.6	7,107.1	6,992.5	22.0	21.0	73.47	990.4	-4,079.0	4,300.1	4,263.8	36.30	118.464	
7,550.0	7,076.0	7,117.0	7,002.4	22.7	21.0	86.45	990.5	-4,079.1	4,252.4	4,214.4	37.97	111.984	
7,561.7	7,076.0	7,117.0	7,002.4	22.9	21.0	89.47	990.5	-4,079.1	4,241.2	4,203.1	38.14	111.201	
7,600.0	7,075.8	7,117.0	7,002.4	23.4	21.0	89.47	990.5	-4,079.1	4,204.7	4,165.9	38.73	108.563	
7,700.0	7,075.3	7,117.0	7,002.4	25.1	21.0	89.47	990.5	-4,079.1	4,109.4	4,068.9	40.42	101.655	
7,800.0	7,074.8	7,117.0	7,002.4	27.0	21.0	89.47	990.5	-4,079.1	4,014.3	3,971.9	42.31	94.886	
7,900.0	7,074.4	7,117.0	7,002.4	29.0	21.0	89.47	990.5	-4,079.1	3,919.4	3,875.1	44.34	88.399	
8,000.0	7,073.9	7,117.0	7,002.4	31.1	21.0	89.47	990.5	-4,079.1	3,824.8	3,778.3	46.49	82.271	
8,100.0	7,073.4	7,117.0	7,002.4	33.4	21.0	89.47	990.5	-4,079.1	3,730.5	3,681.7	48.74	76.538	
8,200.0	7,072.9	7,117.0	7,002.4	35.7	21.0	89.47	990.5	-4,079.1	3,636.5	3,585.4	51.07	71.206	
8,300.0	7,072.4	7,117.0	7,002.4	38.1	21.0	89.47	990.5	-4,079.1	3,542.8	3,489.3	53.46	66.265	
8,400.0	7,071.9	7,117.0	7,002.4	40.6	21.0	89.47	990.5	-4,079.1	3,449.5	3,393.6	55.91	61.696	
8,500.0	7,071.5	7,117.0	7,002.4	43.1	21.0	89.47	990.5	-4,079.1	3,356.5	3,298.1	58.40	57.472	
8,600.0	7,071.0	7,117.0	7,002.4	45.6	21.0	89.47	990.5	-4,079.1	3,264.0	3,203.1	60.93	53.569	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD RYLAND 33-20D - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 568-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.0	7,070.5	7,117.0	7,002.4	48.1	21.0	89.47	990.5	-4,079.1	3,171.9	3,108.4	63.49	49.960	
8,800.0	7,070.0	7,117.0	7,002.4	50.7	21.0	89.47	990.5	-4,079.1	3,080.4	3,014.3	66.08	46.619	
8,900.0	7,069.5	7,117.0	7,002.4	53.3	21.0	89.47	990.5	-4,079.1	2,989.3	2,920.6	68.68	43.523	
9,000.0	7,069.0	7,117.0	7,002.4	56.0	21.0	89.47	990.5	-4,079.1	2,898.9	2,827.6	71.31	40.651	
9,100.0	7,068.6	7,117.0	7,002.4	58.6	21.0	89.47	990.5	-4,079.1	2,809.1	2,735.1	73.96	37.983	
9,200.0	7,068.1	7,117.0	7,002.4	61.3	21.0	89.47	990.5	-4,079.1	2,720.0	2,643.4	76.62	35.502	
9,300.0	7,067.6	7,117.0	7,002.4	63.9	21.0	89.47	990.5	-4,079.1	2,631.7	2,552.4	79.29	33.192	
9,400.0	7,067.1	7,117.0	7,002.4	66.6	21.0	89.47	990.5	-4,079.1	2,544.3	2,462.3	81.97	31.039	
9,500.0	7,066.6	7,117.0	7,002.4	69.3	21.0	89.47	990.5	-4,079.1	2,457.8	2,373.1	84.66	29.030	
9,600.0	7,066.1	7,117.0	7,002.4	72.0	21.0	89.47	990.5	-4,079.1	2,372.4	2,285.0	87.37	27.155	
9,700.0	7,065.6	7,117.0	7,002.4	74.7	21.0	89.47	990.5	-4,079.1	2,288.1	2,198.1	90.07	25.403	
9,800.0	7,065.2	7,117.0	7,002.4	77.5	21.0	89.47	990.5	-4,079.1	2,205.2	2,112.4	92.79	23.766	
9,900.0	7,064.7	7,117.0	7,002.4	80.2	21.0	89.47	990.5	-4,079.1	2,123.8	2,028.3	95.51	22.235	
10,000.0	7,064.2	7,117.0	7,002.4	82.9	21.0	89.47	990.5	-4,079.1	2,044.0	1,945.8	98.24	20.806	
10,100.0	7,063.7	7,117.0	7,002.4	85.6	21.0	89.47	990.5	-4,079.1	1,966.1	1,865.1	100.98	19.470	
10,200.0	7,063.2	7,117.0	7,002.4	88.4	21.0	89.47	990.5	-4,079.1	1,890.2	1,786.5	103.72	18.225	
10,300.0	7,062.7	7,117.0	7,002.4	91.1	21.0	89.47	990.5	-4,079.1	1,816.7	1,710.2	106.46	17.065	
10,400.0	7,062.3	7,117.0	7,002.4	93.9	21.0	89.47	990.5	-4,079.1	1,745.8	1,636.6	109.21	15.986	
10,500.0	7,061.8	7,117.0	7,002.4	96.6	21.0	89.47	990.5	-4,079.1	1,677.8	1,565.9	111.96	14.987	
10,600.0	7,061.3	7,117.0	7,002.4	99.4	21.0	89.47	990.5	-4,079.1	1,613.3	1,498.5	114.71	14.064	
10,700.0	7,060.8	7,117.1	7,002.5	102.1	21.0	89.48	990.5	-4,079.1	1,552.4	1,435.0	117.47	13.216	
10,800.0	7,060.3	7,117.5	7,002.8	104.9	21.0	89.50	990.5	-4,079.1	1,495.8	1,375.6	120.23	12.442	
10,900.0	7,059.8	7,117.8	7,003.2	107.6	21.0	89.51	990.5	-4,079.1	1,443.9	1,320.9	122.99	11.740	
11,000.0	7,059.4	7,118.1	7,003.5	110.4	21.0	89.52	990.5	-4,079.1	1,397.3	1,271.5	125.75	11.111	
11,100.0	7,058.9	7,118.4	7,003.8	113.2	21.0	89.54	990.5	-4,079.1	1,356.4	1,227.9	128.52	10.554	
11,200.0	7,058.4	7,118.7	7,004.1	115.9	21.0	89.55	990.5	-4,079.1	1,321.8	1,190.5	131.29	10.068	
11,300.0	7,057.9	7,119.0	7,004.4	118.7	21.0	89.57	990.5	-4,079.1	1,294.1	1,160.0	134.06	9.653	
11,400.0	7,057.4	7,119.3	7,004.7	121.5	21.0	89.58	990.5	-4,079.1	1,273.6	1,136.8	136.83	9.308	
11,500.0	7,056.9	7,119.6	7,005.0	124.3	21.0	89.59	990.5	-4,079.1	1,260.8	1,121.2	139.61	9.031	
11,600.0	7,056.5	7,119.9	7,005.3	127.0	21.0	89.61	990.5	-4,079.1	1,255.8	1,113.4	142.38	8.820	
11,612.8	7,056.4	7,120.0	7,005.3	127.4	21.0	89.61	990.5	-4,079.1	1,255.7	1,113.0	142.74	8.798 CC, ES	
11,688.2	7,056.0	7,120.1	7,005.5	129.5	21.0	89.62	990.5	-4,079.1	1,258.0	1,113.2	144.83	8.686 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 561-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
0.0	0.0	0.0	0.0	0.0	0.0	-89.30	48.4	-3,977.1	3,977.6				
100.0	100.0	57.5	57.5	0.1	0.1	-89.30	48.4	-3,977.1	3,977.4	3,977.2	0.16	N/A	
200.0	200.0	157.5	157.5	0.3	0.2	-89.30	48.4	-3,977.1	3,977.4	3,976.9	0.50	8,021.750	
300.0	300.0	257.5	257.5	0.5	0.3	-89.30	48.4	-3,977.1	3,977.4	3,976.6	0.83	4,786.433	
400.0	400.0	357.5	357.5	0.8	0.4	-89.30	48.4	-3,977.1	3,977.4	3,976.2	1.17	3,410.797	
500.0	500.0	457.5	457.5	1.0	0.5	-89.30	48.4	-3,977.1	3,977.4	3,975.9	1.50	2,649.362	
600.0	600.0	557.5	557.5	1.2	0.6	-89.30	48.4	-3,977.1	3,977.4	3,975.6	1.84	2,165.852	
700.0	700.0	655.0	655.0	1.4	0.8	159.71	48.4	-3,977.1	3,979.0	3,976.8	2.25	1,771.760	
800.0	799.8	749.3	749.3	1.6	1.0	159.70	48.3	-3,977.2	3,984.1	3,981.4	2.64	1,509.363	
900.0	899.5	852.4	852.4	1.9	1.2	159.69	48.6	-3,977.4	3,992.5	3,989.4	3.07	1,301.396	
1,000.0	998.7	953.2	953.2	2.1	1.4	159.67	48.7	-3,977.5	4,004.0	4,000.5	3.49	1,147.338	
1,100.0	1,097.5	1,054.5	1,054.5	2.4	1.6	159.64	48.3	-3,977.6	4,018.7	4,014.8	3.92	1,026.248	
1,200.0	1,195.6	1,150.0	1,150.0	2.7	1.8	159.60	48.1	-3,977.6	4,036.7	4,032.3	4.35	928.817	
1,200.1	1,195.8	1,150.1	1,150.1	2.7	1.8	159.60	48.1	-3,977.6	4,036.7	4,032.4	4.35	928.696	
1,300.0	1,293.4	1,254.0	1,254.0	3.1	2.0	159.71	47.6	-3,977.6	4,056.2	4,051.4	4.81	843.197	
1,400.0	1,391.3	1,338.2	1,338.2	3.5	2.2	159.79	47.5	-3,977.7	4,075.8	4,070.6	5.25	776.433	
1,500.0	1,489.1	1,431.6	1,431.6	4.0	2.4	159.88	47.2	-3,978.0	4,095.7	4,090.0	5.71	717.189	
1,600.0	1,586.9	1,509.7	1,509.7	4.4	2.6	159.96	46.8	-3,978.4	4,115.9	4,109.7	6.15	669.518	
1,700.0	1,684.7	1,587.5	1,587.5	4.8	2.7	160.03	46.7	-3,979.3	4,136.5	4,130.0	6.59	627.624	
1,800.0	1,782.5	1,703.0	1,703.0	5.3	3.0	160.15	47.0	-3,980.8	4,157.5	4,150.3	7.11	584.680	
1,900.0	1,880.3	1,791.8	1,791.8	5.7	3.2	160.25	47.5	-3,981.5	4,178.0	4,170.4	7.58	551.527	
2,000.0	1,978.1	1,890.3	1,890.3	6.1	3.4	160.35	48.0	-3,982.7	4,198.7	4,190.7	8.06	520.849	
2,100.0	2,075.9	2,002.0	2,002.0	6.6	3.6	160.46	47.9	-3,983.7	4,219.2	4,210.7	8.57	492.433	
2,200.0	2,173.8	2,079.1	2,079.0	7.0	3.8	160.53	47.9	-3,984.4	4,239.8	4,230.8	9.01	470.383	
2,300.0	2,271.6	2,165.2	2,165.2	7.5	4.0	160.61	48.0	-3,985.6	4,260.8	4,251.4	9.48	449.450	
2,400.0	2,369.4	2,282.0	2,281.9	8.0	4.2	160.72	47.9	-3,987.2	4,281.8	4,271.8	10.00	427.984	
2,500.0	2,467.2	2,364.9	2,364.9	8.4	4.4	160.80	47.7	-3,988.2	4,302.7	4,292.3	10.46	411.244	
2,600.0	2,565.0	2,442.0	2,441.9	8.9	4.5	160.85	46.8	-3,989.5	4,324.0	4,313.1	10.91	396.250	
2,700.0	2,662.8	2,685.5	2,685.1	9.3	5.0	160.92	35.3	-3,990.4	4,343.9	4,332.2	11.70	371.271	
2,800.0	2,760.6	2,751.0	2,750.3	9.8	5.2	160.91	29.5	-3,989.8	4,362.4	4,350.3	12.13	359.506	
2,900.0	2,858.5	2,844.0	2,842.7	10.2	5.4	160.85	18.8	-3,989.7	4,381.5	4,368.9	12.64	346.545	
3,000.0	2,956.3	2,897.7	2,895.9	10.7	5.5	160.79	11.2	-3,990.0	4,401.2	4,388.1	13.07	336.684	
3,100.0	3,054.1	2,962.6	2,960.0	11.2	5.7	160.71	0.8	-3,990.9	4,421.6	4,408.1	13.53	326.696	
3,200.0	3,151.9	3,032.0	3,028.3	11.6	5.9	160.62	-11.0	-3,992.3	4,442.7	4,428.7	14.02	316.955	
3,300.0	3,249.7	3,103.2	3,098.3	12.1	6.1	160.52	-23.7	-3,994.2	4,464.4	4,449.9	14.52	307.499	
3,400.0	3,347.5	3,208.6	3,201.8	12.5	6.4	160.35	-43.3	-3,997.5	4,486.5	4,471.4	15.11	296.875	
3,500.0	3,445.3	3,282.3	3,274.4	13.0	6.6	160.26	-55.9	-3,999.7	4,508.6	4,493.0	15.61	288.838	
3,600.0	3,543.2	3,375.6	3,366.4	13.5	6.8	160.14	-71.2	-4,002.9	4,531.2	4,515.1	16.17	280.306	
3,700.0	3,641.0	3,500.0	3,489.0	13.9	7.2	159.98	-91.9	-4,006.8	4,553.4	4,536.6	16.83	270.630	
3,800.0	3,738.8	3,577.4	3,565.2	14.4	7.4	159.88	-105.3	-4,009.1	4,575.6	4,558.2	17.37	263.432	
3,900.0	3,836.6	3,687.0	3,673.0	14.8	7.8	159.73	-125.0	-4,012.4	4,597.7	4,579.7	18.02	255.118	
4,000.0	3,934.4	3,759.2	3,743.8	15.3	8.0	159.62	-138.8	-4,014.6	4,620.0	4,601.4	18.57	248.792	
4,100.0	4,032.2	3,859.9	3,842.2	15.8	8.4	159.44	-159.7	-4,018.2	4,642.8	4,623.6	19.23	241.373	
4,159.1	4,090.0	3,924.2	3,905.1	16.0	8.6	159.33	-173.3	-4,020.4	4,656.1	4,636.5	19.64	237.061	
4,200.0	4,130.1	3,967.5	3,947.4	16.2	8.8	159.32	-182.2	-4,021.8	4,665.1	4,645.1	19.92	234.212	
4,300.0	4,228.5	4,028.7	4,007.3	16.5	9.0	159.35	-194.6	-4,024.0	4,685.0	4,664.6	20.38	229.877	
4,400.0	4,327.5	4,095.7	4,072.9	16.8	9.2	159.36	-207.6	-4,026.9	4,702.5	4,681.6	20.84	225.681	
4,500.0	4,426.9	4,171.9	4,147.7	17.0	9.5	159.32	-222.2	-4,030.7	4,717.3	4,696.0	21.30	221.446	
4,600.0	4,526.6	4,261.7	4,235.6	17.2	9.8	159.22	-239.8	-4,035.3	4,729.3	4,707.5	21.80	216.934	
4,700.0	4,626.6	4,363.9	4,335.7	17.3	10.2	159.05	-259.8	-4,040.6	4,738.1	4,715.8	22.31	212.335	
4,759.3	4,685.8	4,419.1	4,389.7	17.4	10.4	-90.06	-270.5	-4,043.5	4,741.8	4,716.1	25.65	184.889	
4,800.0	4,726.5	4,478.7	4,448.2	17.5	10.6	-90.20	-281.8	-4,046.5	4,743.9	4,718.1	25.83	183.656	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 561-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,826.5	4,589.6	4,557.5	17.6	10.9	-90.42	-299.7	-4,051.6	4,748.6	4,722.4	26.20	181.217		
5,000.0	4,926.5	4,684.4	4,651.5	17.7	11.2	-90.55	-310.9	-4,056.1	4,753.5	4,726.9	26.54	179.101		
5,100.0	5,026.5	4,943.9	4,910.5	17.8	11.8	-90.66	-320.2	-4,064.7	4,757.1	4,729.9	27.22	174.793		
5,200.0	5,126.5	5,057.5	5,024.2	18.0	12.0	-90.65	-319.5	-4,066.1	4,758.3	4,730.7	27.58	172.548		
5,300.0	5,226.5	5,166.3	5,132.9	18.1	12.2	-90.65	-318.9	-4,067.5	4,759.6	4,731.6	27.93	170.404		
5,400.0	5,326.5	5,259.6	5,226.2	18.2	12.3	-90.64	-318.5	-4,068.5	4,760.7	4,732.4	28.26	168.481		
5,500.0	5,426.5	5,379.7	5,346.3	18.3	12.5	-90.63	-317.8	-4,069.8	4,761.7	4,733.1	28.64	166.278		
5,600.0	5,526.5	5,487.4	5,454.0	18.5	12.7	-90.62	-317.1	-4,070.5	4,762.4	4,733.4	28.99	164.261		
5,700.0	5,626.5	5,577.9	5,544.5	18.6	12.9	-90.62	-316.8	-4,071.2	4,763.2	4,733.8	29.32	162.469		
5,800.0	5,726.5	5,679.8	5,646.4	18.8	13.1	-90.62	-316.7	-4,072.0	4,763.9	4,734.3	29.67	160.575		
5,900.0	5,826.5	5,770.7	5,737.3	18.9	13.2	-90.62	-316.8	-4,072.8	4,764.9	4,734.9	30.00	158.840		
6,000.0	5,926.5	5,877.7	5,844.3	19.0	13.4	-90.62	-316.7	-4,073.8	4,765.7	4,735.4	30.36	156.958		
6,100.0	6,026.5	5,978.9	5,945.5	19.2	13.6	-90.63	-317.4	-4,074.6	4,766.6	4,735.8	30.72	155.169		
6,200.0	6,126.5	6,072.2	6,038.8	19.3	13.8	-90.64	-318.5	-4,075.4	4,767.4	4,736.3	31.06	153.487		
6,300.0	6,226.5	6,161.0	6,127.6	19.5	14.0	-90.65	-319.5	-4,076.3	4,768.5	4,737.1	31.40	151.883		
6,400.0	6,326.5	6,254.8	6,221.4	19.6	14.1	-90.67	-320.6	-4,077.5	4,769.7	4,738.0	31.74	150.258		
6,433.3	6,359.8	6,285.9	6,252.5	19.7	14.2	-90.67	-321.0	-4,077.9	4,770.2	4,738.3	31.86	149.726		
6,450.0	6,376.5	6,301.6	6,268.1	19.7	14.2	-0.67	-321.1	-4,078.1	4,770.2	4,740.9	29.36	162.498		
6,500.0	6,426.5	6,369.2	6,335.7	19.7	14.4	-0.68	-321.9	-4,078.9	4,767.9	4,738.5	29.38	162.277		
6,550.0	6,476.0	6,421.5	6,388.1	19.7	14.5	-0.70	-322.6	-4,079.4	4,762.0	4,732.7	29.26	162.773		
6,600.0	6,525.0	6,459.9	6,426.4	19.7	14.6	-0.72	-323.1	-4,079.8	4,752.7	4,723.7	28.98	163.986		
6,650.0	6,573.3	6,499.4	6,465.9	19.7	14.6	-0.74	-323.5	-4,080.3	4,740.1	4,711.5	28.59	165.766		
6,700.0	6,620.4	6,550.4	6,516.9	19.6	14.7	-0.76	-324.0	-4,081.0	4,724.1	4,696.0	28.12	168.016		
6,750.0	6,666.3	6,598.6	6,565.1	19.6	14.8	-0.79	-324.4	-4,081.6	4,704.9	4,677.4	27.53	170.909		
6,800.0	6,710.7	6,641.4	6,607.9	19.5	14.9	-0.83	-324.7	-4,082.1	4,682.5	4,655.7	26.83	174.503		
6,850.0	6,753.4	6,682.7	6,649.2	19.4	15.0	-0.87	-325.0	-4,082.7	4,657.1	4,631.0	26.05	178.787		
6,900.0	6,794.2	6,722.7	6,689.2	19.3	15.1	-0.93	-325.3	-4,083.2	4,628.7	4,603.5	25.19	183.785		
6,950.0	6,832.9	6,760.6	6,727.1	19.3	15.1	-0.99	-325.5	-4,083.7	4,597.6	4,573.3	24.26	189.524		
7,000.0	6,869.2	6,799.5	6,766.0	19.2	15.2	-1.06	-325.5	-4,084.2	4,563.8	4,540.5	23.29	195.958		
7,050.0	6,903.1	6,837.5	6,804.0	19.2	15.3	-1.16	-325.6	-4,084.7	4,527.4	4,505.1	22.30	203.062		
7,100.0	6,934.3	6,873.0	6,839.5	19.2	15.4	-1.27	-325.7	-4,085.2	4,488.8	4,467.5	21.30	210.749		
7,150.0	6,962.8	6,907.5	6,874.0	19.3	15.4	-1.42	-325.8	-4,085.5	4,448.0	4,427.7	20.33	218.783		
7,200.0	6,988.3	6,938.5	6,905.0	19.5	15.5	-1.62	-325.9	-4,085.8	4,405.2	4,385.8	19.42	226.874		
7,250.0	7,010.7	6,961.0	6,927.5	19.7	15.5	-1.88	-326.0	-4,086.0	4,360.8	4,342.2	18.59	234.622		
7,300.0	7,029.9	6,977.8	6,944.3	20.0	15.6	-2.23	-326.0	-4,086.2	4,314.8	4,296.9	17.88	241.284		
7,350.0	7,045.9	6,989.6	6,956.0	20.4	15.6	-2.75	-326.1	-4,086.3	4,267.6	4,250.3	17.35	245.981		
7,400.0	7,058.6	6,999.0	6,965.5	20.8	15.6	-3.58	-326.1	-4,086.4	4,219.4	4,202.4	17.04	247.582		
7,450.0	7,067.8	7,006.1	6,972.5	21.4	15.6	-5.12	-326.2	-4,086.5	4,170.4	4,153.4	17.05	244.566		
7,500.0	7,073.6	7,010.7	6,977.2	22.0	15.6	-8.92	-326.2	-4,086.6	4,120.9	4,103.1	17.74	232.263		
7,550.0	7,076.0	7,012.8	6,979.3	22.7	15.6	-31.10	-326.2	-4,086.6	4,071.0	4,046.2	24.79	164.222		
7,561.7	7,076.0	7,013.0	6,979.5	22.9	15.6	-60.58	-326.2	-4,086.6	4,059.2	4,025.2	34.00	119.402		
7,600.0	7,075.8	7,013.2	6,979.7	23.4	15.6	-60.75	-326.2	-4,086.6	4,021.0	3,986.4	34.56	116.357		
7,700.0	7,075.3	7,013.8	6,980.3	25.1	15.6	-61.19	-326.2	-4,086.6	3,921.0	3,884.8	36.16	108.430		
7,800.0	7,074.8	7,014.5	6,980.9	27.0	15.6	-61.64	-326.2	-4,086.6	3,821.0	3,783.1	37.94	100.712		
7,900.0	7,074.4	7,015.1	6,981.6	29.0	15.6	-62.11	-326.2	-4,086.6	3,721.0	3,681.2	39.86	93.343		
8,000.0	7,073.9	7,015.7	6,982.2	31.1	15.6	-62.58	-326.2	-4,086.6	3,621.0	3,579.1	41.91	86.400		
8,100.0	7,073.4	7,016.4	6,982.9	33.4	15.6	-63.06	-326.2	-4,086.6	3,521.1	3,477.0	44.06	79.915		
8,200.0	7,072.9	7,017.0	6,983.5	35.7	15.6	-63.56	-326.2	-4,086.6	3,421.1	3,374.8	46.30	73.893		
8,300.0	7,072.4	7,017.7	6,984.2	38.1	15.6	-64.06	-326.2	-4,086.7	3,321.1	3,272.5	48.61	68.318		
8,400.0	7,071.9	7,018.4	6,984.9	40.6	15.6	-64.58	-326.2	-4,086.7	3,221.1	3,170.1	50.99	63.168		
8,500.0	7,071.5	7,019.1	6,985.5	43.1	15.6	-65.11	-326.2	-4,086.7	3,121.1	3,067.7	53.43	58.412		
8,600.0	7,071.0	7,019.8	6,986.2	45.6	15.6	-65.65	-326.2	-4,086.7	3,021.2	2,965.2	55.93	54.020		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD RYLAND 34-20D - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 561-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.0	7,070.5	7,020.5	6,986.9	48.1	15.6	-66.21	-326.2	-4,086.7	2,921.2	2,862.7	58.47	49.963	
8,800.0	7,070.0	7,021.2	6,987.7	50.7	15.6	-66.78	-326.2	-4,086.7	2,821.2	2,760.2	61.05	46.210	
8,900.0	7,069.5	7,021.9	6,988.4	53.3	15.6	-67.36	-326.2	-4,086.7	2,721.3	2,657.6	63.68	42.735	
9,000.0	7,069.0	7,022.7	6,989.1	56.0	15.6	-67.95	-326.3	-4,086.7	2,621.3	2,554.9	66.34	39.513	
9,100.0	7,068.6	7,023.4	6,989.9	58.6	15.6	-68.56	-326.3	-4,086.7	2,521.3	2,452.3	69.04	36.521	
9,200.0	7,068.1	7,024.2	6,990.6	61.3	15.6	-69.18	-326.3	-4,086.7	2,421.3	2,349.6	71.77	33.739	
9,300.0	7,067.6	7,024.9	6,991.4	63.9	15.6	-69.82	-326.3	-4,086.8	2,321.4	2,246.9	74.53	31.149	
9,400.0	7,067.1	7,025.7	6,992.2	66.6	15.6	-70.47	-326.3	-4,086.8	2,221.4	2,144.1	77.31	28.733	
9,500.0	7,066.6	7,026.5	6,993.0	69.3	15.6	-71.14	-326.3	-4,086.8	2,121.5	2,041.3	80.13	26.476	
9,600.0	7,066.1	7,027.3	6,993.8	72.0	15.6	-71.82	-326.3	-4,086.8	2,021.5	1,938.6	82.97	24.366	
9,700.0	7,065.6	7,028.1	6,994.6	74.7	15.6	-72.52	-326.3	-4,086.8	1,921.6	1,835.7	85.83	22.389	
9,800.0	7,065.2	7,029.0	6,995.5	77.5	15.7	-73.24	-326.3	-4,086.8	1,821.6	1,732.9	88.71	20.535	
9,900.0	7,064.7	7,029.8	6,996.3	80.2	15.7	-73.97	-326.3	-4,086.8	1,721.7	1,630.1	91.61	18.793	
10,000.0	7,064.2	7,030.7	6,997.2	82.9	15.7	-74.72	-326.3	-4,086.8	1,621.8	1,527.2	94.53	17.156	
10,100.0	7,063.7	7,031.6	6,998.0	85.6	15.7	-75.49	-326.3	-4,086.9	1,521.8	1,424.4	97.47	15.614	
10,200.0	7,063.2	7,032.5	6,998.9	88.4	15.7	-76.28	-326.3	-4,086.9	1,421.9	1,321.5	100.41	14.161	
10,300.0	7,062.7	7,033.4	6,999.8	91.1	15.7	-77.08	-326.3	-4,086.9	1,322.0	1,218.7	103.37	12.789	
10,400.0	7,062.3	7,034.3	7,000.8	93.9	15.7	-77.90	-326.3	-4,086.9	1,222.2	1,115.8	106.34	11.493	
10,500.0	7,061.8	7,035.2	7,001.7	96.6	15.7	-78.74	-326.3	-4,086.9	1,122.3	1,013.0	109.31	10.267	
10,600.0	7,061.3	7,036.2	7,002.6	99.4	15.7	-79.60	-326.3	-4,086.9	1,022.5	910.2	112.29	9.106	
10,700.0	7,060.8	7,037.1	7,003.6	102.1	15.7	-80.48	-326.4	-4,086.9	922.7	807.4	115.26	8.005	
10,800.0	7,060.3	7,038.1	7,004.6	104.9	15.7	-81.38	-326.4	-4,087.0	822.9	704.7	118.23	6.960	
10,900.0	7,059.8	7,039.1	7,005.6	107.6	15.7	-82.30	-326.4	-4,087.0	723.3	602.1	121.20	5.967	
11,000.0	7,059.4	7,040.1	7,006.6	110.4	15.7	-83.24	-326.4	-4,087.0	623.7	499.5	124.16	5.023	
11,100.0	7,058.9	7,041.2	7,007.6	113.2	15.7	-84.20	-326.4	-4,087.0	524.3	397.2	127.10	4.125	
11,200.0	7,058.4	7,042.2	7,008.7	115.9	15.7	-85.18	-326.4	-4,087.0	425.1	295.1	130.03	3.269	
11,300.0	7,057.9	7,043.3	7,009.8	118.7	15.7	-86.18	-326.4	-4,087.0	326.5	193.5	132.93	2.456	
11,400.0	7,057.4	7,044.4	7,010.9	121.5	15.7	-87.20	-326.4	-4,087.1	229.0	93.2	135.81	1.686	
11,500.0	7,056.9	7,045.5	7,012.0	124.3	15.7	-88.24	-326.4	-4,087.1	135.3	-3.3	138.65	0.976 Level 1	
11,600.0	7,056.5	7,046.6	7,013.1	127.0	15.7	-89.30	-326.4	-4,087.1	64.6	-76.8	141.46	0.457 Level 1	
11,620.7	7,056.4	7,046.9	7,013.3	127.6	15.7	-89.52	-326.4	-4,087.1	61.2	-80.8	142.04	0.431 Level 1, CC, ES, SF	
11,688.2	7,056.0	7,047.6	7,014.1	129.5	15.7	-90.25	-326.4	-4,087.1	91.1	-52.8	143.91	0.633 Level 1	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 599-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	-88.68	91.8	-3,979.0	3,980.3				
100.0	100.0	58.0	58.0	0.1	0.1	-88.68	91.8	-3,979.0	3,980.1	3,979.9	0.16	N/A	
200.0	200.0	158.8	158.8	0.3	0.2	-88.68	91.8	-3,979.0	3,980.1	3,979.6	0.50	8,001.839	
300.0	300.0	259.6	259.6	0.5	0.3	-88.68	91.8	-3,979.0	3,980.0	3,979.2	0.83	4,774.871	
400.0	400.0	360.4	360.4	0.8	0.4	-88.68	91.9	-3,978.9	3,980.0	3,978.8	1.17	3,402.617	
500.0	500.0	461.2	461.2	1.0	0.5	-88.68	92.0	-3,978.8	3,979.9	3,978.4	1.51	2,643.002	
600.0	600.0	562.0	562.0	1.2	0.6	-88.67	92.1	-3,978.7	3,979.8	3,977.9	1.84	2,160.622	
700.0	700.0	1,305.3	1,300.9	1.4	2.5	160.84	117.4	-3,921.9	3,977.7	3,974.0	3.74	1,064.544	
800.0	799.8	1,756.1	1,735.9	1.6	4.6	162.09	184.8	-3,826.5	3,960.4	3,954.9	5.47	724.567	
900.0	899.5	1,852.6	1,827.3	1.9	5.2	162.53	203.9	-3,802.1	3,943.7	3,937.7	6.08	648.855	
1,000.0	998.7	1,947.5	1,917.1	2.1	5.8	162.96	223.3	-3,778.4	3,930.8	3,924.1	6.70	586.662	
1,100.0	1,097.5	2,034.2	1,999.0	2.4	6.3	163.36	241.5	-3,756.4	3,921.1	3,913.8	7.30	536.973	
1,200.0	1,195.6	2,096.0	2,057.5	2.7	6.6	163.64	254.5	-3,741.4	3,915.8	3,908.0	7.79	502.414	
1,200.1	1,195.8	2,096.0	2,057.5	2.7	6.6	163.64	254.5	-3,741.4	3,915.8	3,908.0	7.79	502.395	
1,300.0	1,293.4	2,164.4	2,122.6	3.1	7.0	163.92	268.5	-3,725.3	3,913.2	3,904.8	8.33	469.497	
1,400.0	1,391.3	2,376.0	2,323.4	3.5	8.2	164.75	308.5	-3,672.4	3,908.9	3,899.4	9.53	410.009	
1,500.0	1,489.1	2,449.0	2,392.4	4.0	8.6	165.04	322.9	-3,653.4	3,904.3	3,894.1	10.14	384.896	
1,600.0	1,586.9	2,602.0	2,536.7	4.4	9.6	165.68	354.0	-3,613.0	3,899.5	3,888.3	11.17	349.044	
1,700.0	1,684.7	2,683.1	2,612.8	4.8	10.2	166.03	371.2	-3,591.0	3,894.2	3,882.3	11.87	328.120	
1,800.0	1,782.5	2,751.0	2,676.7	5.3	10.6	166.32	385.9	-3,573.2	3,889.9	3,877.4	12.49	311.346	
1,900.0	1,880.3	2,785.0	2,708.8	5.7	10.8	166.47	393.2	-3,564.7	3,886.9	3,874.0	12.93	300.561	
2,000.0	1,978.1	2,844.0	2,764.8	6.1	11.1	166.71	405.4	-3,550.8	3,885.5	3,872.0	13.49	287.929	
2,100.0	2,075.9	2,959.6	2,874.5	6.6	11.8	167.20	429.6	-3,523.5	3,884.5	3,870.1	14.36	270.601	
2,200.0	2,173.8	3,031.0	2,942.1	7.0	12.2	167.50	444.8	-3,506.3	3,883.4	3,868.4	15.00	258.900	
2,285.6	2,257.5	3,096.4	3,004.2	7.4	12.6	167.78	458.5	-3,491.0	3,883.0	3,867.4	15.56	249.541	
2,300.0	2,271.6	3,105.7	3,013.0	7.5	12.7	167.82	460.5	-3,488.8	3,883.0	3,867.4	15.65	248.170	
2,400.0	2,369.4	3,181.8	3,085.5	8.0	13.1	168.13	476.2	-3,471.6	3,883.5	3,867.2	16.30	238.270	
2,500.0	2,467.2	3,319.2	3,216.6	8.4	13.9	168.68	502.9	-3,440.5	3,884.2	3,867.0	17.24	225.285	
2,600.0	2,565.0	3,417.0	3,310.2	8.9	14.4	169.05	520.3	-3,417.9	3,884.3	3,866.3	17.98	216.039	
2,700.0	2,662.8	3,517.3	3,405.9	9.3	15.0	169.44	539.1	-3,394.6	3,884.6	3,865.8	18.75	207.145	
2,800.0	2,760.6	3,640.9	3,523.4	9.8	15.7	169.93	563.0	-3,364.8	3,884.2	3,864.5	19.67	197.501	
2,900.0	2,858.5	3,741.4	3,619.1	10.2	16.3	170.33	582.2	-3,340.7	3,884.2	3,863.7	20.45	189.891	
3,000.0	2,956.3	3,874.0	3,745.1	10.7	17.1	170.85	607.1	-3,307.9	3,883.5	3,862.1	21.42	181.343	
3,100.0	3,054.1	3,950.7	3,817.9	11.2	17.6	171.15	621.7	-3,288.8	3,882.9	3,860.8	22.10	175.732	
3,124.4	3,077.9	3,967.0	3,833.4	11.3	17.7	171.22	624.8	-3,284.7	3,882.9	3,860.6	22.25	174.519	
3,200.0	3,151.9	4,016.5	3,880.5	11.6	18.0	171.42	634.4	-3,272.7	3,883.1	3,860.4	22.72	170.942	
3,300.0	3,249.7	4,094.9	3,955.1	12.1	18.4	171.73	649.5	-3,254.3	3,884.3	3,860.9	23.40	166.020	
3,400.0	3,347.5	4,214.5	4,069.4	12.5	19.1	172.18	671.1	-3,226.2	3,885.5	3,861.2	24.28	160.009	
3,500.0	3,445.3	4,381.3	4,227.6	13.0	20.1	172.85	703.0	-3,184.0	3,885.0	3,859.6	25.46	152.574	
3,554.5	3,498.7	4,413.4	4,258.0	13.2	20.3	172.97	709.1	-3,175.8	3,884.9	3,859.1	25.79	150.650	
3,600.0	3,543.2	4,446.1	4,289.1	13.5	20.5	173.10	715.1	-3,167.7	3,885.0	3,858.9	26.09	148.902	
3,700.0	3,641.0	4,566.2	4,402.8	13.9	21.3	173.59	738.8	-3,137.1	3,885.1	3,858.1	27.04	143.694	
3,770.6	3,710.1	4,638.3	4,470.9	14.2	21.7	173.89	753.3	-3,118.4	3,885.0	3,857.4	27.65	140.533	
3,800.0	3,738.8	4,660.9	4,492.3	14.4	21.9	173.99	757.8	-3,112.5	3,885.1	3,857.2	27.85	139.484	
3,900.0	3,836.6	4,744.4	4,571.4	14.8	22.4	174.33	774.3	-3,091.3	3,885.6	3,857.0	28.60	135.861	
4,000.0	3,934.4	4,833.0	4,655.2	15.3	23.0	174.69	791.9	-3,068.7	3,886.4	3,857.0	29.38	132.280	
4,100.0	4,032.2	4,905.0	4,723.4	15.8	23.4	174.99	806.5	-3,050.8	3,888.0	3,857.9	30.07	129.298	
4,159.1	4,090.0	4,933.3	4,750.2	16.0	23.6	175.11	812.3	-3,044.0	3,889.4	3,859.0	30.39	127.979	
4,200.0	4,130.1	4,959.2	4,774.8	16.2	23.7	175.22	817.6	-3,037.8	3,890.3	3,859.6	30.68	126.788	
4,300.0	4,228.5	5,034.2	4,846.2	16.5	24.2	175.52	832.6	-3,020.5	3,890.7	3,859.3	31.41	123.878	
4,400.0	4,327.5	5,142.1	4,949.2	16.8	24.8	175.92	853.3	-2,995.8	3,887.9	3,855.7	32.26	120.527	
4,500.0	4,426.9	5,277.7	5,078.8	17.0	25.6	176.41	877.7	-2,964.2	3,881.2	3,847.9	33.21	116.854	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 599-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,600.0	4,526.6	5,373.0	5,169.5	17.2	26.1	176.77	895.9	-2,941.3	3,870.6	3,836.6	33.93	114.064	
4,700.0	4,626.6	5,423.0	5,217.2	17.3	26.4	176.94	905.3	-2,929.6	3,857.3	3,823.0	34.33	112.367	
4,759.3	4,685.8	5,466.0	5,258.4	17.4	26.7	-71.93	912.9	-2,920.2	3,848.4	3,812.1	36.29	106.060	
4,800.0	4,726.5	5,466.0	5,258.4	17.5	26.7	-71.93	912.9	-2,920.2	3,842.1	3,805.8	36.33	105.748	
4,900.0	4,826.5	5,527.2	5,317.5	17.6	27.0	-71.73	922.9	-2,907.7	3,827.6	3,790.9	36.62	104.510	
5,000.0	4,926.5	5,560.0	5,349.3	17.7	27.1	-71.63	927.9	-2,901.4	3,814.3	3,777.5	36.84	103.540	
5,100.0	5,026.5	5,653.0	5,440.0	17.8	27.5	-71.37	940.9	-2,885.5	3,802.3	3,765.1	37.20	102.214	
5,200.0	5,126.5	5,713.2	5,499.1	18.0	27.8	-71.22	947.9	-2,876.2	3,791.1	3,753.6	37.47	101.177	
5,300.0	5,226.5	5,787.9	5,572.6	18.1	28.0	-71.06	955.2	-2,865.3	3,780.4	3,742.6	37.78	100.072	
5,400.0	5,326.5	5,840.0	5,624.0	18.2	28.2	-70.96	960.1	-2,858.3	3,770.6	3,732.6	38.03	99.150	
5,500.0	5,426.5	5,910.2	5,693.4	18.3	28.5	-70.82	966.5	-2,849.6	3,761.9	3,723.6	38.31	98.188	
5,600.0	5,526.5	5,977.9	5,760.4	18.5	28.7	-70.70	972.5	-2,841.9	3,754.1	3,715.5	38.59	97.290	
5,700.0	5,626.5	6,046.5	5,828.3	18.6	28.9	-70.57	978.8	-2,834.7	3,747.2	3,708.3	38.86	96.436	
5,800.0	5,726.5	6,119.0	5,900.2	18.8	29.1	-70.45	984.7	-2,828.0	3,741.2	3,702.0	39.13	95.610	
5,900.0	5,826.5	6,179.5	5,960.4	18.9	29.2	-70.36	989.0	-2,823.3	3,736.0	3,696.7	39.37	94.891	
6,000.0	5,926.5	6,248.9	6,029.5	19.0	29.4	-70.28	993.1	-2,818.7	3,731.7	3,692.1	39.63	94.171	
6,100.0	6,026.5	6,318.0	6,098.4	19.2	29.5	-70.22	996.0	-2,815.1	3,728.3	3,688.4	39.88	93.487	
6,200.0	6,126.5	6,399.0	6,179.4	19.3	29.6	-70.18	997.6	-2,812.1	3,725.5	3,685.3	40.15	92.795	
6,300.0	6,226.5	6,470.9	6,251.2	19.5	29.7	-70.16	998.0	-2,810.3	3,723.3	3,682.9	40.40	92.168	
6,400.0	6,326.5	6,552.0	6,332.3	19.6	29.8	-70.15	998.3	-2,808.9	3,721.8	3,681.1	40.66	91.540	
6,433.3	6,359.8	6,586.0	6,366.3	19.7	29.9	-70.15	998.4	-2,808.4	3,721.4	3,680.6	40.75	91.314	
6,450.0	6,376.5	6,586.0	6,366.3	19.7	29.9	19.86	998.4	-2,808.4	3,721.0	3,680.0	40.96	90.847	
6,500.0	6,426.5	6,632.8	6,413.1	19.7	29.9	19.96	998.3	-2,808.0	3,717.8	3,677.0	40.81	91.103	
6,550.0	6,476.0	6,680.0	6,460.3	19.7	29.9	20.17	998.0	-2,807.8	3,711.5	3,670.9	40.54	91.559	
6,600.0	6,525.0	6,713.9	6,494.3	19.7	30.0	20.47	997.7	-2,807.8	3,702.0	3,661.9	40.13	92.247	
6,650.0	6,573.3	6,756.6	6,536.9	19.7	30.0	20.89	997.4	-2,807.8	3,689.5	3,649.9	39.63	93.090	
6,700.0	6,620.4	6,799.0	6,579.3	19.6	30.0	21.45	997.1	-2,807.8	3,673.9	3,634.8	39.05	94.086	
6,750.0	6,666.3	6,840.6	6,620.9	19.6	30.1	22.14	996.8	-2,807.9	3,655.3	3,616.9	38.40	95.203	
6,800.0	6,710.7	6,882.3	6,662.6	19.5	30.1	22.99	996.6	-2,808.1	3,633.8	3,596.1	37.70	96.386	
6,850.0	6,753.4	6,924.9	6,705.2	19.4	30.2	24.04	996.2	-2,808.3	3,609.5	3,572.5	37.00	97.558	
6,900.0	6,794.2	6,961.0	6,741.3	19.3	30.2	25.26	995.8	-2,808.5	3,582.5	3,546.2	36.32	98.648	
6,950.0	6,832.9	6,991.7	6,772.0	19.3	30.2	26.70	995.5	-2,808.7	3,553.0	3,517.3	35.70	99.526	
7,000.0	6,869.2	7,017.6	6,798.0	19.2	30.2	28.40	995.2	-2,809.0	3,521.2	3,486.0	35.20	100.023	
7,050.0	6,903.1	7,054.0	6,834.3	19.2	30.2	30.51	994.9	-2,809.5	3,487.2	3,452.3	34.95	99.779	
7,100.0	6,934.3	7,066.7	6,847.0	19.2	30.3	32.81	994.8	-2,809.8	3,451.2	3,416.3	34.88	98.948	
7,150.0	6,962.8	7,091.6	6,871.9	19.3	30.3	35.71	994.6	-2,810.2	3,413.4	3,378.2	35.21	96.940	
7,200.0	6,988.3	7,114.2	6,894.5	19.5	30.3	39.17	994.4	-2,810.6	3,373.8	3,337.9	35.96	93.829	
7,250.0	7,010.7	7,134.3	6,914.6	19.7	30.3	43.31	994.2	-2,811.1	3,332.8	3,295.6	37.16	89.687	
7,300.0	7,029.9	7,154.3	6,934.6	20.0	30.3	48.30	993.9	-2,811.5	3,290.4	3,251.6	38.85	84.701	
7,350.0	7,045.9	7,178.5	6,958.8	20.4	30.3	54.41	993.6	-2,812.1	3,247.0	3,206.0	41.01	79.175	
7,400.0	7,058.6	7,197.8	6,978.1	20.8	30.3	61.53	993.3	-2,812.4	3,202.6	3,159.2	43.39	73.804	
7,450.0	7,067.8	7,212.1	6,992.4	21.4	30.3	69.57	993.1	-2,812.7	3,157.6	3,111.9	45.71	69.073	
7,500.0	7,073.6	7,221.6	7,001.8	22.0	30.3	78.30	992.9	-2,812.9	3,112.2	3,064.5	47.63	65.341	
7,550.0	7,076.0	7,226.1	7,006.3	22.7	30.4	87.30	992.8	-2,813.0	3,066.6	3,017.7	48.87	62.749	
7,561.7	7,076.0	7,226.4	7,006.7	22.9	30.4	89.39	992.8	-2,813.0	3,055.9	3,006.8	49.05	62.301	
7,600.0	7,075.8	7,227.1	7,007.4	23.4	30.4	89.42	992.8	-2,813.0	3,021.1	2,971.4	49.64	60.858	
7,700.0	7,075.3	7,228.9	7,009.2	25.1	30.4	89.51	992.8	-2,813.0	2,930.4	2,879.1	51.34	57.083	
7,800.0	7,074.8	7,230.7	7,011.0	27.0	30.4	89.59	992.7	-2,813.1	2,840.4	2,787.2	53.22	53.374	
7,900.0	7,074.4	7,232.4	7,012.7	29.0	30.4	89.67	992.7	-2,813.1	2,751.1	2,695.9	55.25	49.794	
8,000.0	7,073.9	7,234.2	7,014.4	31.1	30.4	89.75	992.7	-2,813.1	2,662.6	2,605.2	57.40	46.384	
8,100.0	7,073.4	7,235.8	7,016.1	33.4	30.4	89.82	992.6	-2,813.2	2,574.9	2,515.2	59.65	43.164	
8,200.0	7,072.9	7,237.5	7,017.8	35.7	30.4	89.90	992.6	-2,813.2	2,488.1	2,426.1	61.98	40.141	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD RYLAND 43-20D - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 599-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,300.0	7,072.4	7,239.1	7,019.4	38.1	30.4	89.97	992.6	-2,813.2	2,402.4	2,338.0	64.38	37.316	
8,400.0	7,071.9	7,240.7	7,021.0	40.6	30.4	90.04	992.5	-2,813.2	2,317.8	2,250.9	66.83	34.684	
8,500.0	7,071.5	7,242.0	7,022.3	43.1	30.4	90.10	992.5	-2,813.3	2,234.4	2,165.1	69.32	32.235	
8,600.0	7,071.0	7,243.3	7,023.5	45.6	30.4	90.16	992.5	-2,813.3	2,152.5	2,080.7	71.85	29.960	
8,700.0	7,070.5	7,244.5	7,024.7	48.1	30.4	90.21	992.5	-2,813.3	2,072.2	1,997.8	74.41	27.850	
8,800.0	7,070.0	7,245.7	7,025.9	50.7	30.4	90.27	992.4	-2,813.3	1,993.6	1,916.6	76.99	25.894	
8,900.0	7,069.5	7,246.9	7,027.1	53.3	30.4	90.32	992.4	-2,813.3	1,917.1	1,837.5	79.60	24.084	
9,000.0	7,069.0	7,248.0	7,028.3	56.0	30.4	90.38	992.4	-2,813.4	1,842.8	1,760.5	82.23	22.411	
9,100.0	7,068.6	7,249.2	7,029.5	58.6	30.4	90.43	992.4	-2,813.4	1,771.0	1,686.1	84.87	20.867	
9,200.0	7,068.1	7,250.3	7,030.6	61.3	30.4	90.48	992.3	-2,813.4	1,702.1	1,614.5	87.53	19.446	
9,300.0	7,067.6	7,251.5	7,031.7	63.9	30.4	90.53	992.3	-2,813.4	1,636.3	1,546.1	90.20	18.141	
9,400.0	7,067.1	7,252.6	7,032.9	66.6	30.4	90.58	992.3	-2,813.4	1,574.2	1,481.4	92.88	16.949	
9,500.0	7,066.6	7,253.7	7,034.0	69.3	30.4	90.64	992.3	-2,813.5	1,516.2	1,420.6	95.57	15.864	
9,600.0	7,066.1	7,254.8	7,035.1	72.0	30.4	90.69	992.3	-2,813.5	1,462.7	1,364.4	98.28	14.883	
9,700.0	7,065.6	7,255.9	7,036.2	74.7	30.4	90.74	992.2	-2,813.5	1,414.2	1,313.2	100.98	14.004	
9,800.0	7,065.2	7,257.0	7,037.2	77.5	30.4	90.78	992.2	-2,813.5	1,371.4	1,267.7	103.70	13.224	
9,900.0	7,064.7	7,258.0	7,038.3	80.2	30.4	90.83	992.2	-2,813.5	1,334.6	1,228.2	106.42	12.541	
10,000.0	7,064.2	7,259.1	7,039.3	82.9	30.4	90.88	992.2	-2,813.5	1,304.5	1,195.4	109.15	11.952	
10,100.0	7,063.7	7,260.1	7,040.4	85.6	30.4	90.93	992.2	-2,813.6	1,281.6	1,169.7	111.88	11.455	
10,200.0	7,063.2	7,261.2	7,041.4	88.4	30.4	90.98	992.1	-2,813.6	1,266.1	1,151.5	114.62	11.046	
10,300.0	7,062.7	7,262.2	7,042.4	91.1	30.4	91.02	992.1	-2,813.6	1,258.4	1,141.0	117.36	10.723	
10,347.1	7,062.5	7,262.7	7,042.9	92.4	30.4	91.04	992.1	-2,813.6	1,257.5	1,138.9	118.65	10.598 CC	
10,400.0	7,062.3	7,263.2	7,043.4	93.9	30.4	91.07	992.1	-2,813.6	1,258.6	1,138.5	120.10	10.480 ES	
10,500.0	7,061.8	7,264.2	7,044.4	96.6	30.4	91.11	992.1	-2,813.6	1,266.8	1,143.9	122.85	10.312	
10,600.0	7,061.3	7,265.2	7,045.4	99.4	30.4	91.16	992.1	-2,813.6	1,282.7	1,157.1	125.60	10.212	
10,700.0	7,060.8	7,266.2	7,046.4	102.1	30.4	91.20	992.0	-2,813.7	1,306.1	1,177.7	128.36	10.176 SF	
10,800.0	7,060.3	7,267.1	7,047.4	104.9	30.4	91.25	992.0	-2,813.7	1,336.6	1,205.5	131.11	10.194	
10,900.0	7,059.8	7,268.1	7,048.3	107.6	30.4	91.29	992.0	-2,813.7	1,373.7	1,239.8	133.87	10.261	
11,000.0	7,059.4	7,269.0	7,049.3	110.4	30.4	91.33	992.0	-2,813.7	1,416.9	1,280.3	136.63	10.370	
11,100.0	7,058.9	7,270.0	7,050.2	113.2	30.4	91.38	992.0	-2,813.7	1,465.7	1,326.3	139.40	10.514	
11,200.0	7,058.4	7,270.9	7,051.2	115.9	30.4	91.42	992.0	-2,813.7	1,519.5	1,377.3	142.16	10.688	
11,300.0	7,057.9	7,271.8	7,052.1	118.7	30.4	91.46	991.9	-2,813.7	1,577.8	1,432.8	144.93	10.886	
11,400.0	7,057.4	7,272.8	7,053.0	121.5	30.4	91.50	991.9	-2,813.8	1,640.1	1,492.4	147.70	11.104	
11,500.0	7,056.9	7,273.7	7,053.9	124.3	30.4	91.54	991.9	-2,813.8	1,706.0	1,555.5	150.47	11.338	
11,600.0	7,056.5	7,274.6	7,054.8	127.0	30.4	91.59	991.9	-2,813.8	1,775.1	1,621.9	153.24	11.584	
11,688.2	7,056.0	7,275.3	7,055.6	129.5	30.4	91.62	991.9	-2,813.8	1,838.4	1,682.7	155.68	11.809	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 599-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	-88.98	70.6	-3,976.5	3,977.4				
100.0	100.0	48.9	48.9	0.1	0.1	-88.98	70.7	-3,976.6	3,977.2	3,977.1	0.15	N/A	
200.0	200.0	134.0	134.0	0.3	0.2	-88.98	71.0	-3,976.9	3,977.6	3,977.2	0.47	8,403.368	
300.0	300.0	219.1	219.1	0.5	0.3	-88.97	71.6	-3,977.6	3,978.4	3,977.6	0.79	5,009.340	
400.0	400.0	304.2	304.2	0.8	0.3	-88.96	72.4	-3,978.5	3,979.6	3,978.4	1.12	3,568.960	
500.0	500.0	389.3	389.3	1.0	0.4	-88.94	73.6	-3,979.8	3,981.1	3,979.6	1.44	2,772.573	
600.0	600.0	474.4	474.3	1.2	0.5	-88.92	75.0	-3,981.4	3,983.0	3,981.2	1.76	2,267.317	
700.0	700.0	599.0	598.9	1.4	0.7	160.12	77.6	-3,984.3	3,987.1	3,985.0	2.11	1,887.895	
800.0	799.8	764.9	764.7	1.6	1.0	160.16	80.0	-3,985.2	3,992.6	3,990.0	2.63	1,517.617	
900.0	899.5	2,035.4	2,013.0	1.9	5.1	159.93	20.6	-3,798.3	3,984.4	3,978.6	5.82	684.268	
1,000.0	998.7	2,107.2	2,081.6	2.1	5.5	160.01	14.1	-3,777.8	3,966.9	3,960.7	6.24	636.050	
1,100.0	1,097.5	2,189.0	2,159.8	2.4	5.9	160.08	7.6	-3,754.9	3,953.1	3,946.5	6.68	592.063	
1,200.0	1,195.6	2,301.1	2,267.1	2.7	6.5	160.13	-1.5	-3,723.5	3,942.7	3,935.5	7.23	545.093	
1,200.1	1,195.8	2,301.3	2,267.2	2.7	6.5	160.13	-1.5	-3,723.5	3,942.7	3,935.4	7.23	545.035	
1,300.0	1,293.4	2,456.0	2,414.7	3.1	7.4	160.06	-17.5	-3,679.6	3,933.6	3,925.6	7.99	492.531	
1,400.0	1,391.3	2,578.3	2,530.5	3.5	8.2	159.99	-31.8	-3,643.2	3,922.8	3,914.1	8.67	452.244	
1,500.0	1,489.1	2,657.0	2,605.1	4.0	8.7	159.94	-41.2	-3,619.8	3,912.0	3,902.7	9.21	424.680	
1,600.0	1,586.9	2,723.6	2,668.3	4.4	9.0	159.90	-49.1	-3,600.3	3,901.8	3,892.1	9.70	402.114	
1,700.0	1,684.7	2,792.7	2,734.2	4.8	9.4	159.85	-57.0	-3,580.9	3,892.7	3,882.5	10.21	381.384	
1,800.0	1,782.5	2,908.4	2,844.6	5.3	10.1	159.80	-69.2	-3,548.7	3,884.0	3,873.2	10.86	357.505	
1,900.0	1,880.3	2,993.9	2,926.2	5.7	10.5	159.78	-77.1	-3,524.4	3,874.8	3,863.4	11.43	339.115	
2,000.0	1,978.1	3,066.5	2,995.6	6.1	11.0	159.76	-83.8	-3,504.4	3,866.3	3,854.4	11.95	323.658	
2,100.0	2,075.9	3,197.6	3,121.2	6.6	11.7	159.72	-96.1	-3,468.5	3,858.3	3,845.6	12.66	304.754	
2,200.0	2,173.8	3,269.0	3,189.3	7.0	12.1	159.69	-103.5	-3,448.6	3,849.5	3,836.3	13.19	291.816	
2,300.0	2,271.6	3,312.0	3,230.5	7.5	12.4	159.67	-107.9	-3,437.0	3,841.9	3,828.2	13.63	281.875	
2,400.0	2,369.4	3,406.0	3,320.9	8.0	12.9	159.65	-116.2	-3,412.6	3,835.2	3,820.9	14.22	269.746	
2,500.0	2,467.2	3,569.8	3,478.2	8.4	13.8	159.62	-130.9	-3,369.5	3,828.2	3,813.1	15.04	254.460	
2,600.0	2,565.0	3,679.0	3,582.7	8.9	14.4	159.59	-140.6	-3,339.2	3,819.6	3,803.9	15.70	243.303	
2,700.0	2,662.8	3,895.7	3,788.7	9.3	15.7	159.50	-162.9	-3,275.9	3,809.4	3,792.6	16.76	227.331	
2,800.0	2,760.6	3,967.0	3,856.1	9.8	16.2	159.45	-171.1	-3,254.3	3,798.0	3,780.7	17.32	219.334	
2,900.0	2,858.5	4,027.4	3,913.4	10.2	16.6	159.42	-177.9	-3,236.4	3,787.5	3,769.7	17.83	212.461	
3,000.0	2,956.3	4,129.2	4,010.4	10.7	17.2	159.37	-188.9	-3,207.3	3,778.1	3,759.6	18.49	204.374	
3,100.0	3,054.1	4,240.1	4,115.8	11.2	17.9	159.32	-200.4	-3,175.0	3,767.9	3,748.8	19.18	196.471	
3,200.0	3,151.9	4,341.0	4,211.7	11.6	18.5	159.27	-210.7	-3,145.1	3,757.5	3,737.6	19.84	189.426	
3,300.0	3,249.7	4,413.3	4,280.4	12.1	19.0	159.24	-218.3	-3,124.0	3,747.4	3,727.0	20.39	183.769	
3,400.0	3,347.5	4,567.2	4,426.7	12.5	19.9	159.17	-234.0	-3,078.9	3,737.2	3,715.9	21.24	175.952	
3,500.0	3,445.3	4,685.1	4,538.5	13.0	20.7	159.12	-245.6	-3,043.6	3,726.3	3,704.3	21.96	169.672	
3,600.0	3,543.2	4,770.8	4,619.8	13.5	21.2	159.09	-253.9	-3,017.4	3,714.8	3,692.2	22.57	164.614	
3,700.0	3,641.0	4,862.1	4,706.5	13.9	21.8	159.07	-262.3	-2,990.2	3,704.1	3,680.9	23.19	159.739	
3,800.0	3,738.8	4,934.8	4,775.5	14.4	22.2	159.04	-269.2	-2,968.4	3,693.3	3,669.6	23.74	155.549	
3,900.0	3,836.6	4,999.0	4,836.8	14.8	22.6	159.02	-275.2	-2,950.4	3,684.1	3,659.8	24.27	151.807	
4,000.0	3,934.4	4,999.0	4,836.8	15.3	22.6	159.02	-275.2	-2,950.4	3,676.3	3,651.7	24.57	149.619	
4,100.0	4,032.2	5,059.6	4,895.1	15.8	22.9	159.01	-280.5	-2,934.7	3,669.9	3,644.9	25.07	146.407	
4,159.1	4,090.0	5,092.0	4,926.5	16.0	23.1	159.00	-283.2	-2,926.9	3,667.0	3,641.7	25.35	144.668	
4,200.0	4,130.1	5,092.0	4,926.5	16.2	23.1	158.99	-283.2	-2,926.9	3,665.1	3,639.6	25.45	143.986	
4,300.0	4,228.5	5,135.8	4,969.0	16.5	23.3	158.94	-286.5	-2,917.1	3,659.2	3,633.4	25.79	141.902	
4,400.0	4,327.5	5,186.0	5,018.1	16.8	23.5	158.87	-289.8	-2,906.9	3,651.9	3,625.8	26.11	139.882	
4,500.0	4,426.9	5,249.9	5,080.7	17.0	23.8	158.78	-293.8	-2,894.7	3,642.6	3,616.1	26.43	137.825	
4,600.0	4,526.6	5,310.6	5,140.1	17.2	24.0	158.66	-297.5	-2,883.3	3,630.5	3,603.8	26.71	135.921	
4,700.0	4,626.6	5,373.0	5,201.5	17.3	24.3	158.51	-301.2	-2,872.6	3,616.8	3,589.9	26.97	134.121	
4,759.3	4,685.8	5,373.0	5,201.5	17.4	24.3	-90.58	-301.2	-2,872.6	3,607.7	3,567.8	39.94	90.322	
4,800.0	4,726.5	5,373.0	5,201.5	17.5	24.3	-90.58	-301.2	-2,872.6	3,601.7	3,561.7	39.99	90.058	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 599-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	5,437.1	5,264.9	17.6	24.5	-90.64	-304.7	-2,863.2	3,587.3	3,546.9	40.31	88.987	
5,000.0	4,926.5	5,466.0	5,293.4	17.7	24.6	-90.66	-306.2	-2,859.5	3,574.7	3,534.2	40.53	88.204	
5,100.0	5,026.5	5,524.0	5,351.0	17.8	24.7	-90.70	-308.8	-2,852.9	3,563.6	3,522.8	40.80	87.338	
5,200.0	5,126.5	5,560.0	5,386.8	18.0	24.8	-90.73	-310.1	-2,849.4	3,554.1	3,513.1	41.02	86.633	
5,300.0	5,226.5	5,616.0	5,442.6	18.1	25.0	-90.76	-311.9	-2,844.8	3,546.0	3,504.8	41.27	85.916	
5,400.0	5,326.5	5,668.0	5,494.5	18.2	25.1	-90.78	-313.2	-2,841.4	3,539.5	3,498.0	41.51	85.266	
5,500.0	5,426.5	5,746.0	5,572.3	18.3	25.2	-90.81	-315.0	-2,837.0	3,533.9	3,492.1	41.79	84.573	
5,600.0	5,526.5	5,814.1	5,640.4	18.5	25.3	-90.83	-316.3	-2,833.8	3,529.1	3,487.1	42.04	83.954	
5,700.0	5,626.5	5,885.2	5,711.4	18.6	25.4	-90.84	-317.1	-2,830.9	3,525.1	3,482.8	42.29	83.360	
5,800.0	5,726.5	5,953.7	5,779.8	18.8	25.5	-90.85	-317.7	-2,828.7	3,521.9	3,479.4	42.53	82.810	
5,900.0	5,826.5	6,025.0	5,851.1	18.9	25.6	-90.86	-318.1	-2,827.1	3,519.7	3,476.9	42.77	82.294	
6,000.0	5,926.5	6,114.0	5,940.1	19.0	25.7	-90.87	-318.7	-2,825.7	3,518.0	3,475.0	43.02	81.767	
6,100.0	6,026.5	6,212.0	6,038.1	19.2	25.9	-90.88	-319.0	-2,823.9	3,516.3	3,473.0	43.30	81.216	
6,200.0	6,126.5	6,306.0	6,132.1	19.3	26.0	-90.88	-319.0	-2,822.6	3,514.9	3,471.3	43.56	80.690	
6,300.0	6,226.5	6,383.0	6,209.1	19.5	26.1	-90.87	-318.8	-2,822.1	3,514.0	3,470.2	43.80	80.229	
6,400.0	6,326.5	6,471.1	6,297.2	19.6	26.2	-90.87	-318.6	-2,821.6	3,513.5	3,469.4	44.05	79.756	
6,433.3	6,359.8	6,500.7	6,326.8	19.7	26.2	-90.87	-318.5	-2,821.5	3,513.4	3,469.2	44.14	79.601	
6,450.0	6,376.5	6,516.6	6,342.7	19.7	26.2	-0.87	-318.4	-2,821.4	3,513.1	3,481.2	31.94	109.994	
6,500.0	6,426.5	6,564.0	6,390.1	19.7	26.2	-0.87	-318.2	-2,821.3	3,510.1	3,478.4	31.71	110.696	
6,550.0	6,476.0	6,618.5	6,444.5	19.7	26.3	-0.88	-318.1	-2,821.2	3,503.6	3,472.3	31.36	111.724	
6,600.0	6,525.0	6,678.5	6,504.6	19.7	26.4	-0.89	-317.9	-2,820.9	3,493.6	3,462.7	30.89	113.090	
6,650.0	6,573.3	6,717.9	6,543.9	19.7	26.4	-0.91	-317.8	-2,820.7	3,480.1	3,449.8	30.27	114.964	
6,700.0	6,620.4	6,755.9	6,582.0	19.6	26.5	-0.93	-317.7	-2,820.7	3,463.4	3,433.9	29.53	117.267	
6,750.0	6,666.3	6,796.4	6,622.4	19.6	26.5	-0.97	-317.7	-2,820.6	3,443.6	3,414.9	28.70	119.997	
6,800.0	6,710.7	6,838.3	6,664.3	19.5	26.5	-1.01	-317.8	-2,820.7	3,420.7	3,392.9	27.77	123.181	
6,850.0	6,753.4	6,880.6	6,706.7	19.4	26.6	-1.07	-318.0	-2,820.7	3,394.8	3,368.0	26.76	126.848	
6,900.0	6,794.2	6,925.7	6,751.8	19.3	26.6	-1.13	-318.2	-2,820.8	3,365.9	3,340.2	25.70	130.992	
6,950.0	6,832.9	6,967.5	6,793.6	19.3	26.7	-1.22	-318.3	-2,820.7	3,334.2	3,309.6	24.58	135.668	
7,000.0	6,869.2	7,002.5	6,828.6	19.2	26.7	-1.31	-318.3	-2,820.7	3,299.9	3,276.4	23.42	140.891	
7,050.0	6,903.1	7,035.2	6,861.3	19.2	26.7	-1.43	-318.3	-2,820.7	3,263.1	3,240.8	22.26	146.559	
7,100.0	6,934.3	7,066.5	6,892.6	19.2	26.8	-1.58	-318.3	-2,820.7	3,224.0	3,202.9	21.14	152.514	
7,150.0	6,962.8	7,096.7	6,922.8	19.3	26.8	-1.78	-318.4	-2,820.7	3,182.9	3,162.8	20.08	158.486	
7,200.0	6,988.3	7,123.8	6,949.9	19.5	26.8	-2.03	-318.4	-2,820.6	3,139.9	3,120.8	19.14	164.090	
7,250.0	7,010.7	7,147.5	6,973.6	19.7	26.9	-2.37	-318.5	-2,820.6	3,095.2	3,076.9	18.34	168.730	
7,300.0	7,029.9	7,167.6	6,993.7	20.0	26.9	-2.85	-318.5	-2,820.6	3,049.0	3,031.3	17.76	171.640	
7,350.0	7,045.9	7,184.2	7,010.3	20.4	26.9	-3.57	-318.5	-2,820.5	3,001.6	2,984.2	17.46	171.914	
7,400.0	7,058.6	7,197.4	7,023.4	20.8	26.9	-4.76	-318.5	-2,820.5	2,953.3	2,935.7	17.53	168.496	
7,450.0	7,067.8	7,206.9	7,033.0	21.4	26.9	-7.07	-318.5	-2,820.5	2,904.1	2,885.9	18.21	159.508	
7,500.0	7,073.6	7,212.8	7,038.9	22.0	26.9	-13.37	-318.5	-2,820.5	2,854.5	2,833.6	20.81	137.146	
7,550.0	7,076.0	7,215.1	7,041.2	22.7	26.9	-65.16	-318.5	-2,820.5	2,804.5	2,759.3	45.26	61.964	
7,561.7	7,076.0	7,215.1	7,041.2	22.9	26.9	-111.68	-318.5	-2,820.5	2,792.8	2,747.3	45.45	61.444	
7,600.0	7,075.8	7,214.8	7,040.9	23.4	26.9	-111.40	-318.5	-2,820.5	2,754.5	2,708.5	46.08	59.775	
7,700.0	7,075.3	7,214.0	7,040.1	25.1	26.9	-110.66	-318.5	-2,820.5	2,654.6	2,606.7	47.88	55.445	
7,800.0	7,074.8	7,213.2	7,039.3	27.0	26.9	-109.92	-318.5	-2,820.5	2,554.6	2,504.7	49.86	51.234	
7,900.0	7,074.4	7,212.5	7,038.5	29.0	26.9	-109.18	-318.5	-2,820.5	2,454.6	2,402.6	52.00	47.206	
8,000.0	7,073.9	7,211.7	7,037.7	31.1	26.9	-108.43	-318.5	-2,820.5	2,354.6	2,300.4	54.26	43.394	
8,100.0	7,073.4	7,210.9	7,037.0	33.4	26.9	-107.67	-318.5	-2,820.5	2,254.7	2,198.0	56.63	39.815	
8,200.0	7,072.9	7,210.1	7,036.2	35.7	26.9	-106.91	-318.5	-2,820.5	2,154.7	2,095.6	59.08	36.469	
8,300.0	7,072.4	7,209.4	7,035.4	38.1	26.9	-106.15	-318.5	-2,820.5	2,054.7	1,993.1	61.61	33.352	
8,400.0	7,071.9	7,208.6	7,034.7	40.6	26.9	-105.38	-318.5	-2,820.5	1,954.8	1,890.6	64.19	30.451	
8,500.0	7,071.5	7,207.8	7,033.9	43.1	26.9	-104.61	-318.5	-2,820.5	1,854.8	1,788.0	66.83	27.755	
8,600.0	7,071.0	7,207.0	7,033.1	45.6	26.9	-103.84	-318.5	-2,820.5	1,754.9	1,685.4	69.51	25.248	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD RYLAND 44-20D - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 599-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.0	7,070.5	7,206.3	7,032.4	48.1	26.9	-103.06	-318.5	-2,820.5	1,654.9	1,582.7	72.22	22.915	
8,800.0	7,070.0	7,205.5	7,031.6	50.7	26.9	-102.28	-318.5	-2,820.5	1,555.0	1,480.0	74.96	20.744	
8,900.0	7,069.5	7,204.8	7,030.8	53.3	26.9	-101.50	-318.5	-2,820.5	1,455.0	1,377.3	77.73	18.720	
9,000.0	7,069.0	7,204.0	7,030.1	56.0	26.9	-100.72	-318.5	-2,820.5	1,355.1	1,274.6	80.51	16.831	
9,100.0	7,068.6	7,203.3	7,029.3	58.6	26.9	-99.93	-318.5	-2,820.5	1,255.2	1,171.9	83.32	15.066	
9,200.0	7,068.1	7,202.5	7,028.6	61.3	26.9	-99.14	-318.5	-2,820.5	1,155.3	1,069.2	86.13	13.413	
9,300.0	7,067.6	7,201.7	7,027.8	63.9	26.9	-98.35	-318.5	-2,820.5	1,055.4	966.5	88.95	11.865	
9,400.0	7,067.1	7,201.0	7,027.1	66.6	26.9	-97.56	-318.5	-2,820.5	955.6	863.8	91.78	10.411	
9,500.0	7,066.6	7,200.2	7,026.3	69.3	26.9	-96.77	-318.5	-2,820.5	855.7	761.1	94.62	9.044	
9,600.0	7,066.1	7,199.5	7,025.6	72.0	26.9	-95.98	-318.5	-2,820.5	756.0	658.5	97.45	7.757	
9,700.0	7,065.6	7,198.8	7,024.8	74.7	26.9	-95.19	-318.5	-2,820.5	656.3	556.0	100.28	6.544	
9,800.0	7,065.2	7,198.0	7,024.1	77.5	26.9	-94.40	-318.5	-2,820.5	556.6	453.5	103.11	5.399	
9,900.0	7,064.7	7,197.3	7,023.3	80.2	26.9	-93.61	-318.5	-2,820.5	457.2	351.3	105.93	4.316	
10,000.0	7,064.2	7,196.5	7,022.6	82.9	26.9	-92.82	-318.5	-2,820.5	358.1	249.3	108.74	3.293	
10,100.0	7,063.7	7,195.8	7,021.9	85.6	26.9	-92.03	-318.5	-2,820.5	259.6	148.1	111.54	2.328	
10,200.0	7,063.2	7,195.1	7,021.1	88.4	26.9	-91.24	-318.5	-2,820.5	163.1	48.7	114.33	1.426	Level 3
10,300.0	7,062.7	7,194.3	7,020.4	91.1	26.9	-90.46	-318.5	-2,820.5	76.0	-41.1	117.11	0.649	Level 1
10,354.1	7,062.5	7,193.9	7,020.0	92.6	26.9	-90.03	-318.5	-2,820.5	53.3	-65.3	118.60	0.450	Level 1, CC, ES, SF
10,400.0	7,062.3	7,193.6	7,019.7	93.9	26.9	-89.67	-318.5	-2,820.5	70.4	-49.5	119.87	0.587	Level 1
10,500.0	7,061.8	7,192.9	7,019.0	96.6	26.9	-88.89	-318.5	-2,820.5	155.3	32.7	122.61	1.267	Level 3
10,600.0	7,061.3	7,192.2	7,018.2	99.4	26.9	-88.11	-318.5	-2,820.5	251.6	126.3	125.33	2.008	
10,700.0	7,060.8	7,191.4	7,017.5	102.1	26.9	-87.34	-318.5	-2,820.5	350.0	221.9	128.04	2.733	
10,800.0	7,060.3	7,190.7	7,016.8	104.9	26.9	-86.56	-318.5	-2,820.5	449.1	318.3	130.72	3.435	
10,900.0	7,059.8	7,190.0	7,016.1	107.6	26.9	-85.79	-318.5	-2,820.5	548.5	415.1	133.38	4.112	
11,000.0	7,059.4	7,189.3	7,015.3	110.4	26.9	-85.03	-318.5	-2,820.5	648.1	512.1	136.01	4.765	
11,100.0	7,058.9	7,188.6	7,014.6	113.2	26.9	-84.27	-318.5	-2,820.5	747.8	609.2	138.62	5.395	
11,200.0	7,058.4	7,187.8	7,013.9	115.9	26.9	-83.51	-318.5	-2,820.5	847.6	706.4	141.20	6.002	
11,300.0	7,057.9	7,187.1	7,013.2	118.7	26.9	-82.75	-318.5	-2,820.5	947.4	803.6	143.76	6.590	
11,400.0	7,057.4	7,186.4	7,012.5	121.5	26.9	-82.00	-318.5	-2,820.5	1,047.2	900.9	146.28	7.159	
11,500.0	7,056.9	7,185.7	7,011.8	124.3	26.9	-81.26	-318.5	-2,820.5	1,147.1	998.3	148.78	7.710	
11,600.0	7,056.5	7,185.0	7,011.1	127.0	26.9	-80.52	-318.5	-2,820.5	1,247.0	1,095.8	151.25	8.245	
11,688.2	7,056.0	7,184.4	7,010.4	129.5	26.9	-79.87	-318.5	-2,820.5	1,335.1	1,181.7	153.39	8.704	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 703-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	1.5	1.5	0.0	0.0	-44.83	548.6	-545.4	773.6				
100.0	100.0	102.8	102.8	0.1	0.1	-44.83	548.6	-545.3	773.5	773.3	0.20	3,787.009	
200.0	200.0	204.0	204.0	0.3	0.2	-44.84	548.3	-545.2	773.3	772.7	0.53	1,446.763	
300.0	300.0	305.2	305.2	0.5	0.3	-44.85	547.9	-545.1	772.9	772.0	0.86	893.789	
400.0	400.0	406.5	406.5	0.8	0.4	-44.87	547.3	-544.9	772.3	771.1	1.19	646.317	
500.0	500.0	507.7	507.7	1.0	0.5	-44.90	546.5	-544.6	771.6	770.0	1.53	505.905	
600.0	600.0	608.9	608.9	1.2	0.6	-44.93	545.6	-544.2	770.7	768.8	1.86	415.390	
631.7	631.7	641.1	641.0	1.3	0.7	-155.93	545.3	-544.1	770.5	768.6	1.95	394.357	CC, ES
700.0	700.0	709.8	709.8	1.4	0.7	-155.99	544.5	-543.8	771.2	769.1	2.17	354.622	
800.0	799.8	807.4	807.4	1.6	1.0	-156.01	545.0	-542.2	775.2	772.6	2.57	301.075	
900.0	899.5	913.7	913.5	1.9	1.2	-155.82	548.1	-537.4	781.9	778.9	3.00	260.517	
1,000.0	998.7	1,013.7	1,013.1	2.1	1.4	-155.41	553.4	-529.3	791.1	787.7	3.45	229.234	
1,100.0	1,097.5	1,099.4	1,098.0	2.4	1.6	-154.93	560.4	-521.2	804.6	800.7	3.90	206.202	
1,200.0	1,195.6	1,185.4	1,182.9	2.7	1.9	-154.25	570.9	-511.5	822.9	818.4	4.41	186.638	
1,200.1	1,195.8	1,185.6	1,183.0	2.7	1.9	-154.25	570.9	-511.5	822.9	818.5	4.41	186.613	
1,300.0	1,293.4	1,276.1	1,271.9	3.1	2.2	-153.62	584.2	-500.5	843.9	838.9	4.98	169.441	
1,400.0	1,391.3	1,375.4	1,369.1	3.5	2.6	-152.87	599.7	-487.5	865.1	859.5	5.62	153.853	
1,500.0	1,489.1	1,464.4	1,455.9	4.0	2.9	-152.14	614.9	-475.2	887.0	880.7	6.27	141.512	
1,600.0	1,586.9	1,560.0	1,548.6	4.4	3.4	-151.23	633.2	-460.3	909.4	902.5	7.00	129.998	
1,700.0	1,684.7	1,661.5	1,645.9	4.8	3.9	-150.05	655.1	-441.4	932.1	924.3	7.82	119.192	
1,800.0	1,782.5	1,764.8	1,744.1	5.3	4.5	-148.74	678.0	-419.4	954.0	945.3	8.71	109.565	
1,900.0	1,880.3	1,856.5	1,831.0	5.7	5.0	-147.56	699.3	-399.0	976.5	966.9	9.55	102.240	
2,000.0	1,978.1	1,954.3	1,923.9	6.1	5.5	-146.39	721.5	-377.8	999.3	988.9	10.42	95.918	
2,100.0	2,075.9	2,052.8	2,017.2	6.6	6.1	-145.25	743.9	-356.0	1,022.3	1,011.0	11.31	90.363	
2,200.0	2,173.8	2,151.5	2,110.8	7.0	6.7	-144.16	766.0	-333.9	1,045.4	1,033.1	12.21	85.607	
2,300.0	2,271.6	2,242.5	2,197.6	7.5	7.2	-143.26	785.7	-314.7	1,068.7	1,055.6	13.04	81.961	
2,400.0	2,369.4	2,342.8	2,293.2	8.0	7.7	-142.32	807.7	-293.7	1,092.7	1,078.8	13.94	78.406	
2,500.0	2,467.2	2,449.0	2,394.2	8.4	8.3	-141.33	830.4	-270.2	1,115.9	1,101.0	14.88	74.989	
2,600.0	2,565.0	2,535.4	2,476.8	8.9	8.8	-140.61	848.3	-252.1	1,139.2	1,123.5	15.71	72.520	
2,700.0	2,662.8	2,617.9	2,555.3	9.3	9.3	-139.90	866.6	-234.4	1,163.9	1,147.3	16.53	70.405	
2,800.0	2,760.6	2,703.4	2,636.6	9.8	9.8	-139.20	886.3	-216.7	1,189.7	1,172.4	17.37	68.497	
2,900.0	2,858.5	2,788.9	2,717.9	10.2	10.3	-138.56	906.3	-199.7	1,216.5	1,198.3	18.19	66.890	
3,000.0	2,956.3	2,877.4	2,802.6	10.7	10.8	-138.00	926.8	-184.2	1,244.2	1,225.2	19.00	65.474	
3,100.0	3,054.1	3,004.9	2,924.3	11.2	11.5	-137.18	956.2	-160.1	1,271.6	1,251.6	20.04	63.440	
3,200.0	3,151.9	3,100.7	3,015.6	11.6	12.0	-136.53	977.0	-139.9	1,296.9	1,275.9	20.94	61.924	
3,300.0	3,249.7	3,187.1	3,097.7	12.1	12.6	-135.94	996.6	-121.6	1,323.1	1,301.3	21.80	60.703	
3,400.0	3,347.5	3,292.3	3,197.7	12.5	13.2	-135.25	1,020.6	-99.3	1,349.6	1,326.9	22.76	59.302	
3,500.0	3,445.3	3,399.7	3,299.5	13.0	13.8	-134.53	1,044.6	-75.0	1,375.3	1,351.5	23.75	57.908	
3,600.0	3,543.2	3,481.1	3,376.6	13.5	14.3	-133.98	1,062.9	-56.2	1,401.2	1,376.6	24.61	56.947	
3,700.0	3,641.0	3,586.5	3,476.1	13.9	15.0	-133.26	1,087.4	-31.4	1,427.6	1,402.0	25.62	55.731	
3,800.0	3,738.8	3,694.7	3,578.0	14.4	15.7	-132.50	1,111.8	-4.3	1,453.1	1,426.4	26.66	54.505	
3,900.0	3,836.6	3,778.0	3,656.3	14.8	16.2	-131.93	1,130.9	16.5	1,479.2	1,451.6	27.55	53.696	
4,000.0	3,934.4	3,838.6	3,713.0	15.3	16.7	-131.51	1,145.8	31.7	1,506.8	1,478.5	28.32	53.210	
4,100.0	4,032.2	3,908.2	3,777.4	15.8	17.2	-130.97	1,164.6	50.3	1,536.3	1,507.2	29.15	52.700	
4,159.1	4,090.0	3,951.2	3,817.2	16.0	17.5	-130.65	1,176.5	61.3	1,554.5	1,524.9	29.66	52.412	
4,200.0	4,130.1	3,980.9	3,844.8	16.2	17.7	-130.65	1,184.9	68.7	1,567.2	1,537.2	30.02	52.207	
4,300.0	4,228.5	4,058.0	3,916.1	16.5	18.2	-130.54	1,207.3	87.4	1,597.8	1,566.9	30.85	51.788	
4,400.0	4,327.5	4,236.1	4,082.6	16.8	19.4	-129.61	1,254.8	129.2	1,624.7	1,592.5	32.20	50.465	
4,500.0	4,426.9	4,351.4	4,191.2	17.0	20.1	-129.02	1,281.5	157.1	1,646.1	1,613.0	33.13	49.686	
4,600.0	4,526.6	4,439.6	4,273.9	17.2	20.7	-128.51	1,302.2	179.8	1,665.5	1,631.6	33.89	49.142	
4,700.0	4,626.6	4,525.0	4,354.4	17.3	21.3	-128.00	1,321.8	200.6	1,683.2	1,648.6	34.56	48.706	
4,759.3	4,685.8	4,576.4	4,403.0	17.4	21.6	-16.69	1,333.5	212.2	1,693.1	1,664.7	28.36	59.703	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 703-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.0	4,726.5	4,603.1	4,428.3	17.5	21.7	-16.43	1,339.9	218.1	1,700.1	1,671.5	28.54	59.569	
4,900.0	4,826.5	4,750.7	4,568.7	17.6	22.6	-15.14	1,373.4	248.3	1,717.2	1,687.8	29.35	58.510	
5,000.0	4,926.5	4,828.8	4,740.6	17.7	23.5	-13.74	1,404.6	283.2	1,729.2	1,699.0	30.21	57.239	
5,100.0	5,026.5	5,022.5	4,831.3	17.8	23.9	-13.05	1,419.5	301.0	1,740.5	1,709.8	30.72	56.654	
5,200.0	5,126.5	5,152.1	4,957.7	18.0	24.5	-12.20	1,438.3	323.3	1,751.1	1,719.8	31.35	55.858	
5,300.0	5,226.5	5,278.3	5,081.8	18.1	25.0	-11.54	1,453.4	340.6	1,760.1	1,728.2	31.91	55.150	
5,400.0	5,326.5	5,404.1	5,206.2	18.2	25.4	-11.03	1,465.7	354.1	1,767.7	1,735.3	32.43	54.504	
5,500.0	5,426.5	5,534.0	5,335.2	18.3	25.7	-10.61	1,475.9	365.3	1,773.8	1,740.9	32.92	53.875	
5,600.0	5,526.5	5,665.5	5,466.3	18.5	26.0	-10.31	1,483.1	373.6	1,778.0	1,744.6	33.37	53.279	
5,700.0	5,626.5	5,766.6	5,567.1	18.6	26.2	-10.13	1,487.4	378.4	1,781.4	1,747.7	33.73	52.808	
5,800.0	5,726.5	5,860.9	5,661.3	18.8	26.4	-10.01	1,491.4	381.6	1,785.0	1,750.9	34.08	52.379	
5,900.0	5,826.5	5,968.6	5,768.8	18.9	26.5	-9.94	1,495.8	382.9	1,788.8	1,754.3	34.44	51.946	
6,000.0	5,926.5	6,088.5	5,888.7	19.0	26.7	-9.92	1,498.9	382.8	1,791.4	1,756.6	34.79	51.487	
6,100.0	6,026.5	6,211.3	6,011.5	19.2	26.8	-9.93	1,500.8	382.4	1,792.9	1,757.8	35.14	51.027	
6,200.0	6,126.5	6,314.7	6,114.9	19.3	26.9	-9.94	1,501.6	381.8	1,793.7	1,758.3	35.45	50.606	
6,300.0	6,226.5	6,418.5	6,218.7	19.5	27.0	-9.95	1,502.2	381.3	1,794.4	1,758.6	35.76	50.185	
6,400.0	6,326.5	6,521.1	6,321.3	19.6	27.1	-9.96	1,502.5	381.1	1,794.8	1,758.7	36.07	49.765	
6,433.3	6,359.8	6,553.4	6,353.6	19.7	27.1	-9.96	1,502.6	381.0	1,794.9	1,758.7	36.17	49.631	
6,450.0	6,376.5	6,569.7	6,369.9	19.7	27.1	80.04	1,502.7	380.9	1,795.0	1,752.8	42.18	42.551	
6,500.0	6,426.5	6,622.5	6,422.7	19.7	27.2	80.15	1,502.9	380.7	1,794.6	1,752.4	42.27	42.454	
6,550.0	6,476.0	6,675.1	6,475.3	19.7	27.2	80.43	1,502.9	380.4	1,793.7	1,751.4	42.31	42.397	
6,600.0	6,525.0	6,726.1	6,526.3	19.7	27.3	80.86	1,502.9	380.0	1,792.1	1,749.8	42.29	42.377	
6,650.0	6,573.3	6,776.5	6,576.7	19.7	27.3	81.44	1,502.8	379.7	1,789.9	1,747.7	42.23	42.388	
6,700.0	6,620.4	6,826.3	6,626.5	19.6	27.4	82.16	1,502.7	379.3	1,787.3	1,745.2	42.13	42.425	
6,750.0	6,666.3	6,873.5	6,673.7	19.6	27.4	82.98	1,502.4	378.9	1,784.4	1,742.4	42.00	42.481	
6,800.0	6,710.7	6,917.5	6,717.7	19.5	27.5	83.86	1,502.3	378.4	1,781.2	1,739.4	41.86	42.551	
6,850.0	6,753.4	6,960.1	6,760.3	19.4	27.5	84.81	1,502.1	378.0	1,778.1	1,736.4	41.71	42.626	
6,900.0	6,794.2	7,001.0	6,801.2	19.3	27.5	85.81	1,501.9	377.6	1,775.0	1,733.4	41.57	42.698	
6,950.0	6,832.9	7,040.0	6,840.2	19.3	27.6	86.82	1,501.8	377.3	1,772.2	1,730.7	41.45	42.757	
7,000.0	6,869.2	7,078.3	6,878.5	19.2	27.6	87.86	1,501.6	376.9	1,769.7	1,728.4	41.36	42.793	
7,050.0	6,903.1	7,113.9	6,914.1	19.2	27.6	88.85	1,501.4	376.6	1,767.8	1,726.5	41.31	42.795	
7,100.0	6,934.3	7,145.6	6,945.8	19.2	27.7	89.75	1,501.2	376.4	1,766.6	1,725.3	41.32	42.750	
7,140.0	6,957.3	7,167.9	6,968.1	19.3	27.7	90.36	1,501.1	376.3	1,766.3	1,724.9	41.40	42.668	
7,150.0	6,962.8	7,173.2	6,973.4	19.3	27.7	90.50	1,501.1	376.3	1,766.3	1,724.9	41.42	42.649	
7,200.0	6,988.3	7,198.0	6,998.2	19.5	27.7	91.13	1,500.9	376.1	1,767.1	1,725.5	41.59	42.486	
7,250.0	7,010.7	7,219.8	7,020.0	19.7	27.7	91.61	1,500.8	376.0	1,769.0	1,727.1	41.86	42.259	
7,300.0	7,029.9	7,238.8	7,039.0	20.0	27.7	91.92	1,500.8	375.9	1,772.2	1,729.9	42.23	41.967	
7,350.0	7,045.9	7,254.7	7,054.9	20.4	27.8	92.05	1,500.7	375.8	1,776.7	1,734.0	42.69	41.615	
7,400.0	7,058.6	7,267.1	7,067.3	20.8	27.8	91.96	1,500.7	375.8	1,782.6	1,739.3	43.25	41.214	
7,450.0	7,067.8	7,276.2	7,076.4	21.4	27.8	91.66	1,500.6	375.8	1,789.9	1,746.0	43.89	40.779	
7,500.0	7,073.6	7,281.9	7,082.1	22.0	27.8	91.13	1,500.6	375.7	1,798.7	1,754.1	44.60	40.329	
7,550.0	7,076.0	7,284.3	7,084.5	22.7	27.8	90.37	1,500.6	375.7	1,808.8	1,763.5	45.35	39.886	
7,561.7	7,076.0	7,284.3	7,084.5	22.9	27.8	90.16	1,500.6	375.7	1,811.4	1,765.9	45.53	39.785	
7,600.0	7,075.8	7,284.2	7,084.4	23.4	27.8	90.16	1,500.6	375.7	1,820.3	1,774.2	46.12	39.469	
7,700.0	7,075.3	7,283.9	7,084.1	25.1	27.8	90.15	1,500.6	375.7	1,847.2	1,799.4	47.82	38.632	
7,800.0	7,074.8	7,283.6	7,083.8	27.0	27.8	90.14	1,500.6	375.7	1,879.0	1,829.3	49.70	37.809	
7,900.0	7,074.4	7,283.3	7,083.5	29.0	27.8	90.13	1,500.6	375.7	1,915.4	1,863.7	51.73	37.029	
8,000.0	7,073.9	7,283.0	7,083.2	31.1	27.8	90.12	1,500.6	375.7	1,956.4	1,902.5	53.88	36.310	
8,100.0	7,073.4	7,282.7	7,082.9	33.4	27.8	90.11	1,500.6	375.7	2,001.5	1,945.3	56.13	35.657	
8,200.0	7,072.9	7,282.4	7,082.6	35.7	27.8	90.10	1,500.6	375.7	2,050.4	1,992.0	58.46	35.074	
8,300.0	7,072.4	7,282.1	7,082.3	38.1	27.8	90.09	1,500.6	375.7	2,103.0	2,042.2	60.85	34.559	
8,400.0	7,071.9	7,281.9	7,082.1	40.6	27.8	90.08	1,500.6	375.7	2,159.0	2,095.7	63.30	34.107	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design										SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WALTERS #21ODU - Wellbore #1 - Wellbore #1				Offset Site Error:	0.0 usft
Survey Program: 703-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			
8,500.0	7,071.5	7,281.6	7,081.8	43.1	27.8	90.08	1,500.6	375.7	2,218.0	2,152.2	65.79	33.713			
8,600.0	7,071.0	7,281.3	7,081.5	45.6	27.8	90.07	1,500.6	375.7	2,279.9	2,211.6	68.32	33.371			
8,700.0	7,070.5	7,281.0	7,081.2	48.1	27.8	90.06	1,500.6	375.7	2,344.5	2,273.6	70.88	33.077			
8,800.0	7,070.0	7,280.8	7,081.0	50.7	27.8	90.05	1,500.6	375.7	2,411.4	2,337.9	73.46	32.824			
8,900.0	7,069.5	7,280.5	7,080.7	53.3	27.8	90.04	1,500.6	375.7	2,480.6	2,404.5	76.07	32.608			
9,000.0	7,069.0	7,280.3	7,080.4	56.0	27.8	90.03	1,500.6	375.7	2,551.8	2,473.1	78.70	32.424			
9,100.0	7,068.6	7,280.0	7,080.2	58.6	27.8	90.02	1,500.6	375.7	2,624.9	2,543.6	81.34	32.269			
9,200.0	7,068.1	7,279.7	7,079.9	61.3	27.8	90.02	1,500.6	375.7	2,699.8	2,615.7	84.00	32.138			
9,300.0	7,067.6	7,279.5	7,079.7	63.9	27.8	90.01	1,500.6	375.7	2,776.2	2,689.5	86.68	32.029			
9,400.0	7,067.1	7,279.3	7,079.4	66.6	27.8	90.00	1,500.6	375.7	2,854.0	2,764.7	89.36	31.939			
9,500.0	7,066.6	7,279.0	7,079.2	69.3	27.8	89.99	1,500.6	375.7	2,933.3	2,841.2	92.05	31.865			
9,600.0	7,066.1	7,278.8	7,079.0	72.0	27.8	89.98	1,500.6	375.7	3,013.7	2,919.0	94.75	31.806			
9,700.0	7,065.6	7,278.5	7,078.7	74.7	27.8	89.98	1,500.6	375.7	3,095.3	2,997.8	97.46	31.759			
9,800.0	7,065.2	7,278.3	7,078.5	77.5	27.8	89.97	1,500.6	375.7	3,177.9	3,077.8	100.18	31.723			
9,900.0	7,064.7	7,278.1	7,078.3	80.2	27.8	89.96	1,500.6	375.8	3,261.6	3,158.7	102.90	31.696			
10,000.0	7,064.2	7,277.8	7,078.0	82.9	27.8	89.95	1,500.6	375.8	3,346.1	3,240.4	105.63	31.677			
10,100.0	7,063.7	7,277.6	7,077.8	85.6	27.8	89.95	1,500.6	375.8	3,431.4	3,323.0	108.36	31.665			
10,200.0	7,063.2	7,277.4	7,077.6	88.4	27.8	89.94	1,500.6	375.8	3,517.5	3,406.4	111.10	31.660			
10,300.0	7,062.7	7,277.2	7,077.3	91.1	27.8	89.93	1,500.6	375.8	3,604.4	3,490.5	113.85	31.660 SF			
10,400.0	7,062.3	7,276.9	7,077.1	93.9	27.8	89.92	1,500.6	375.8	3,691.9	3,575.3	116.59	31.665			
10,500.0	7,061.8	7,276.7	7,076.9	96.6	27.8	89.92	1,500.6	375.8	3,780.0	3,660.7	119.34	31.673			
10,600.0	7,061.3	7,276.5	7,076.7	99.4	27.8	89.91	1,500.6	375.8	3,868.7	3,746.6	122.10	31.686			
10,700.0	7,060.8	7,276.3	7,076.5	102.1	27.8	89.90	1,500.6	375.8	3,957.9	3,833.1	124.85	31.701			
10,800.0	7,060.3	7,276.1	7,076.3	104.9	27.8	89.90	1,500.6	375.8	4,047.7	3,920.1	127.61	31.719			
10,900.0	7,059.8	7,275.9	7,076.1	107.6	27.8	89.89	1,500.6	375.8	4,137.9	4,007.5	130.37	31.739			
11,000.0	7,059.4	7,275.7	7,075.9	110.4	27.8	89.88	1,500.6	375.8	4,228.5	4,095.4	133.14	31.761			
11,100.0	7,058.9	7,275.5	7,075.7	113.2	27.8	89.88	1,500.6	375.8	4,319.6	4,183.7	135.90	31.784			
11,200.0	7,058.4	7,275.3	7,075.5	115.9	27.8	89.87	1,500.6	375.8	4,411.1	4,272.4	138.67	31.809			
11,300.0	7,057.9	7,275.1	7,075.3	118.7	27.8	89.86	1,500.6	375.8	4,502.9	4,361.4	141.44	31.835			
11,400.0	7,057.4	7,274.9	7,075.1	121.5	27.8	89.86	1,500.6	375.8	4,595.0	4,450.8	144.21	31.862			
11,500.0	7,056.9	7,274.7	7,074.9	124.3	27.8	89.85	1,500.6	375.8	4,687.5	4,540.5	146.99	31.890			
11,600.0	7,056.5	7,274.5	7,074.7	127.0	27.8	89.85	1,500.6	375.8	4,780.3	4,630.5	149.76	31.919			
11,688.2	7,056.0	7,274.3	7,074.5	129.5	27.8	89.84	1,500.6	375.8	4,862.3	4,710.1	152.21	31.945			

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 703-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	-56.87	390.9	-598.9	715.2				
100.0	100.0	100.0	100.0	0.1	0.1	-56.88	390.8	-599.1	715.3	715.1	0.20	3,526.446	
200.0	200.0	198.6	198.6	0.3	0.2	-56.92	390.6	-599.6	715.6	715.1	0.53	1,345.952	
300.0	300.0	297.2	297.2	0.5	0.3	-56.98	390.2	-600.4	716.1	715.2	0.86	832.199	
400.0	400.0	395.7	395.7	0.8	0.4	-57.06	389.7	-601.6	716.8	715.6	1.19	602.705	
500.0	500.0	494.2	494.2	1.0	0.5	-57.17	389.1	-603.1	717.7	716.2	1.52	472.761	
600.0	600.0	592.8	592.7	1.2	0.6	-57.30	388.3	-604.9	718.8	717.0	1.85	389.198	
700.0	700.0	691.2	691.1	1.4	0.7	-168.46	387.3	-607.1	721.9	719.7	2.17	332.770	
800.0	799.8	812.1	811.9	1.6	1.0	-168.92	383.3	-609.6	727.0	724.4	2.63	276.643	
900.0	899.5	922.7	922.1	1.9	1.3	-169.79	374.0	-613.0	733.9	730.7	3.11	235.983	
1,000.0	998.7	1,050.2	1,048.3	2.1	1.7	-171.27	356.3	-616.1	740.8	737.1	3.69	200.982	
1,100.0	1,097.5	1,151.3	1,147.6	2.4	2.0	-172.80	337.4	-618.9	749.6	745.4	4.25	176.208	
1,200.0	1,195.6	1,262.9	1,256.0	2.7	2.5	-174.84	311.9	-623.5	761.7	756.8	4.93	154.384	
1,200.1	1,195.8	1,263.0	1,256.2	2.7	2.5	-174.84	311.8	-623.5	761.8	756.8	4.94	154.357	
1,300.0	1,293.4	1,363.3	1,352.8	3.1	3.0	-176.91	285.1	-627.9	775.1	769.4	5.66	137.008	
1,400.0	1,391.3	1,474.8	1,459.5	3.5	3.6	-179.27	252.9	-631.7	787.4	781.0	6.48	121.603	
1,500.0	1,489.1	1,558.4	1,538.8	4.0	4.1	178.88	227.1	-635.4	801.2	794.0	7.19	111.445	
1,600.0	1,586.9	1,653.2	1,628.4	4.4	4.7	176.75	196.7	-640.8	816.8	808.8	8.01	102.005	
1,700.0	1,684.7	1,759.4	1,728.8	4.8	5.3	174.45	162.3	-645.2	832.0	823.2	8.87	93.783	
1,800.0	1,782.5	1,847.5	1,812.0	5.3	5.8	172.58	133.4	-649.5	848.9	839.3	9.64	88.055	
1,900.0	1,880.3	1,951.1	1,909.8	5.7	6.4	170.48	99.6	-653.3	865.8	855.3	10.51	82.413	
2,000.0	1,978.1	2,045.1	1,998.6	6.1	6.9	168.66	69.0	-657.0	884.0	872.7	11.32	78.074	
2,100.0	2,075.9	2,141.7	2,089.8	6.6	7.5	166.85	37.2	-659.9	902.2	890.0	12.17	74.109	
2,200.0	2,173.8	2,226.5	2,170.0	7.0	8.0	165.33	9.7	-663.4	922.2	909.2	12.95	71.190	
2,300.0	2,271.6	2,322.3	2,260.4	7.5	8.5	163.69	-21.3	-667.4	943.2	929.3	13.82	68.255	
2,400.0	2,369.4	2,407.1	2,340.3	8.0	9.1	162.23	-49.7	-671.1	965.0	950.4	14.65	65.864	
2,500.0	2,467.2	2,479.5	2,408.2	8.4	9.5	161.01	-74.2	-675.7	989.4	974.0	15.42	64.151	
2,600.0	2,565.0	2,578.7	2,501.0	8.9	10.2	159.35	-108.7	-682.6	1,015.2	998.8	16.38	61.959	
2,700.0	2,662.8	2,679.3	2,594.9	9.3	10.8	157.70	-144.5	-689.0	1,041.0	1,023.7	17.36	59.956	
2,800.0	2,760.6	2,781.9	2,690.5	9.8	11.5	156.09	-181.1	-694.4	1,066.7	1,048.4	18.34	58.175	
2,900.0	2,858.5	2,874.0	2,777.0	10.2	12.1	154.81	-212.4	-699.0	1,092.5	1,073.3	19.21	56.878	
3,000.0	2,956.3	2,957.3	2,855.3	10.7	12.6	153.71	-240.5	-703.8	1,119.6	1,099.6	20.04	55.882	
3,100.0	3,054.1	3,051.7	2,943.8	11.2	13.2	152.48	-273.0	-709.4	1,147.5	1,126.5	20.97	54.732	
3,200.0	3,151.9	3,149.4	3,035.4	11.6	13.8	151.29	-306.2	-715.2	1,175.8	1,153.9	21.87	53.756	
3,300.0	3,249.7	3,254.8	3,135.2	12.1	14.4	150.17	-339.7	-720.7	1,203.3	1,180.5	22.78	52.817	
3,400.0	3,347.5	3,341.9	3,217.7	12.5	14.9	149.30	-367.3	-725.3	1,231.4	1,207.8	23.60	52.168	
3,500.0	3,445.3	3,442.3	3,313.1	13.0	15.5	148.41	-397.7	-731.1	1,260.0	1,235.5	24.48	51.474	
3,600.0	3,543.2	3,551.4	3,417.4	13.5	16.1	147.53	-429.6	-736.1	1,287.5	1,262.1	25.37	50.738	
3,700.0	3,641.0	3,639.3	3,501.4	13.9	16.6	146.86	-455.2	-740.2	1,315.1	1,288.9	26.17	50.253	
3,800.0	3,738.8	3,723.9	3,582.3	14.4	17.0	146.25	-479.6	-744.7	1,343.6	1,316.7	26.95	49.859	
3,900.0	3,836.6	3,805.2	3,660.0	14.8	17.5	145.70	-503.0	-749.7	1,373.0	1,345.3	27.71	49.544	
4,000.0	3,934.4	3,880.4	3,731.4	15.3	17.9	145.16	-525.7	-755.1	1,403.8	1,375.3	28.46	49.326	
4,100.0	4,032.2	3,985.1	3,830.8	15.8	18.5	144.42	-558.0	-762.6	1,435.0	1,405.7	29.37	48.862	
4,159.1	4,090.0	4,051.5	3,893.8	16.0	18.9	143.96	-578.6	-766.9	1,453.1	1,423.2	29.93	48.558	
4,200.0	4,130.1	4,090.1	3,930.4	16.2	19.1	143.83	-590.6	-769.1	1,465.3	1,435.0	30.30	48.362	
4,300.0	4,228.5	4,184.2	4,019.7	16.5	19.7	143.50	-619.4	-774.9	1,493.3	1,462.2	31.13	47.968	
4,400.0	4,327.5	4,278.8	4,109.8	16.8	20.2	143.10	-648.0	-780.7	1,518.8	1,486.9	31.92	47.589	
4,500.0	4,426.9	4,367.7	4,194.7	17.0	20.7	142.72	-673.6	-786.9	1,542.1	1,509.5	32.62	47.279	
4,600.0	4,526.6	4,463.6	4,286.2	17.2	21.2	142.20	-701.4	-793.7	1,563.3	1,529.9	33.31	46.924	
4,700.0	4,626.6	4,559.4	4,377.5	17.3	21.8	141.58	-729.8	-800.0	1,581.7	1,547.7	33.98	46.548	
4,759.3	4,685.8	4,607.0	4,422.6	17.4	22.1	-107.78	-744.4	-803.2	1,591.8	1,562.0	29.73	53.534	
4,800.0	4,726.5	4,657.9	4,470.9	17.5	22.4	-108.29	-760.2	-806.5	1,598.5	1,568.5	30.02	53.245	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 703-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,817.2	4,623.4	17.6	23.2	-109.74	-805.6	-814.5	1,613.0	1,582.2	30.85	52.291	
5,000.0	4,926.5	4,950.2	4,751.9	17.7	23.9	-110.85	-839.7	-817.2	1,623.9	1,592.4	31.51	51.538	
5,100.0	5,026.5	5,054.5	4,852.9	17.8	24.4	-111.68	-865.8	-819.1	1,635.0	1,602.9	32.06	50.999	
5,200.0	5,126.5	5,187.4	4,982.7	18.0	24.9	-112.57	-893.9	-821.5	1,644.9	1,612.2	32.67	50.341	
5,300.0	5,226.5	5,324.1	5,117.6	18.1	25.4	-113.25	-916.0	-823.2	1,652.3	1,619.1	33.23	49.721	
5,400.0	5,326.5	5,432.0	5,224.5	18.2	25.7	-113.69	-930.4	-824.4	1,658.7	1,625.0	33.67	49.258	
5,500.0	5,426.5	5,550.9	5,342.8	18.3	26.0	-114.05	-942.6	-826.5	1,664.5	1,630.4	34.12	48.787	
5,600.0	5,526.5	5,682.2	5,473.8	18.5	26.2	-114.27	-950.7	-829.1	1,668.8	1,634.3	34.53	48.326	
5,700.0	5,626.5	5,800.0	5,591.6	18.6	26.4	-114.29	-952.5	-831.4	1,671.2	1,636.3	34.87	47.925	
5,800.0	5,726.5	5,905.5	5,697.1	18.8	26.5	-114.26	-952.5	-833.8	1,673.3	1,638.1	35.17	47.571	
5,900.0	5,826.5	6,012.4	5,803.9	18.9	26.6	-114.23	-952.5	-835.7	1,674.9	1,639.4	35.48	47.209	
6,000.0	5,926.5	6,116.8	5,908.3	19.0	26.7	-114.21	-952.7	-837.1	1,676.2	1,640.4	35.78	46.848	
6,100.0	6,026.5	6,219.6	6,011.1	19.2	26.8	-114.20	-952.8	-838.2	1,677.3	1,641.2	36.08	46.486	
6,200.0	6,126.5	6,319.8	6,111.3	19.3	26.9	-114.20	-953.3	-839.2	1,678.3	1,641.9	36.38	46.129	
6,300.0	6,226.5	6,423.2	6,214.7	19.5	27.0	-114.21	-953.7	-840.0	1,679.2	1,642.5	36.69	45.766	
6,400.0	6,326.5	6,526.8	6,318.3	19.6	27.1	-114.20	-953.9	-840.7	1,679.9	1,642.9	37.00	45.405	
6,433.3	6,359.8	6,561.4	6,352.9	19.7	27.1	-114.20	-953.9	-840.9	1,680.1	1,643.0	37.10	45.285	
6,450.0	6,376.5	6,576.0	6,367.5	19.7	27.1	-24.21	-953.9	-841.0	1,680.0	1,638.6	41.36	40.615	
6,500.0	6,426.5	6,625.6	6,417.1	19.7	27.2	-24.32	-953.9	-841.3	1,677.6	1,636.2	41.36	40.565	
6,550.0	6,476.0	6,672.4	6,463.8	19.7	27.2	-24.58	-953.9	-841.6	1,672.1	1,631.0	41.17	40.616	
6,600.0	6,525.0	6,718.3	6,509.8	19.7	27.3	-25.00	-954.0	-842.1	1,663.6	1,622.8	40.81	40.760	
6,650.0	6,573.3	6,763.7	6,555.1	19.7	27.3	-25.58	-954.1	-842.6	1,652.1	1,611.8	40.30	40.994	
6,700.0	6,620.4	6,814.5	6,605.9	19.6	27.4	-26.38	-954.2	-843.1	1,637.6	1,598.0	39.65	41.297	
6,750.0	6,666.3	6,863.0	6,654.5	19.6	27.4	-27.38	-954.5	-843.5	1,620.1	1,581.2	38.88	41.667	
6,800.0	6,710.7	6,906.0	6,697.4	19.5	27.5	-28.58	-954.7	-843.8	1,599.7	1,561.7	38.01	42.090	
6,850.0	6,753.4	6,949.0	6,740.5	19.4	27.5	-30.04	-954.9	-844.2	1,576.7	1,539.6	37.07	42.535	
6,900.0	6,794.2	6,989.4	6,780.9	19.3	27.6	-31.78	-955.0	-844.5	1,551.2	1,515.1	36.10	42.963	
6,950.0	6,832.9	7,029.3	6,820.8	19.3	27.6	-33.86	-955.1	-844.9	1,523.2	1,488.0	35.17	43.309	
7,000.0	6,869.2	7,067.1	6,858.5	19.2	27.6	-36.31	-955.3	-845.2	1,493.0	1,458.7	34.33	43.488	
7,050.0	6,903.1	7,102.4	6,893.9	19.2	27.7	-39.17	-955.3	-845.5	1,460.8	1,427.1	33.66	43.395	
7,100.0	6,934.3	7,135.0	6,926.5	19.2	27.7	-42.50	-955.3	-845.7	1,426.7	1,393.5	33.24	42.915	
7,150.0	6,962.8	7,163.7	6,955.2	19.3	27.7	-46.30	-955.3	-846.0	1,391.0	1,357.9	33.15	41.964	
7,200.0	6,988.3	7,189.4	6,980.9	19.5	27.8	-50.61	-955.3	-846.2	1,354.0	1,320.6	33.43	40.506	
7,250.0	7,010.7	7,212.1	7,003.5	19.7	27.8	-55.44	-955.3	-846.3	1,316.0	1,281.9	34.09	38.606	
7,300.0	7,029.9	7,231.8	7,023.3	20.0	27.8	-60.73	-955.3	-846.5	1,277.0	1,242.0	35.06	36.422	
7,350.0	7,045.9	7,249.1	7,040.5	20.4	27.8	-66.43	-955.3	-846.6	1,237.5	1,201.3	36.23	34.156	
7,400.0	7,058.6	7,262.8	7,054.2	20.8	27.9	-72.30	-955.3	-846.7	1,197.8	1,160.3	37.42	32.006	
7,450.0	7,067.8	7,272.8	7,064.3	21.4	27.9	-78.13	-955.3	-846.7	1,158.0	1,119.5	38.48	30.090	
7,500.0	7,073.6	7,279.3	7,070.7	22.0	27.9	-83.72	-955.3	-846.8	1,118.5	1,079.2	39.32	28.447	
7,550.0	7,076.0	7,282.0	7,073.4	22.7	27.9	-88.87	-955.3	-846.8	1,079.7	1,039.8	39.91	27.053	
7,561.7	7,076.0	7,282.1	7,073.6	22.9	27.9	-90.00	-955.3	-846.8	1,070.7	1,030.7	40.02	26.756	
7,600.0	7,075.8	7,282.1	7,073.6	23.4	27.9	-90.00	-955.3	-846.8	1,041.7	1,001.1	40.61	25.654	
7,700.0	7,075.3	7,282.2	7,073.6	25.1	27.9	-90.01	-955.3	-846.8	969.1	926.8	42.30	22.909	
7,800.0	7,074.8	7,282.3	7,073.7	27.0	27.9	-90.01	-955.3	-846.8	901.7	857.5	44.18	20.409	
7,900.0	7,074.4	7,282.3	7,073.8	29.0	27.9	-90.02	-955.3	-846.8	840.8	794.6	46.21	18.194	
8,000.0	7,073.9	7,282.4	7,073.9	31.1	27.9	-90.03	-955.3	-846.8	788.0	739.6	48.37	16.292	
8,100.0	7,073.4	7,282.5	7,073.9	33.4	27.9	-90.03	-955.3	-846.8	744.9	694.3	50.62	14.716	
8,200.0	7,072.9	7,282.5	7,074.0	35.7	27.9	-90.04	-955.3	-846.8	713.3	660.4	52.95	13.472	
8,300.0	7,072.4	7,282.6	7,074.1	38.1	27.9	-90.04	-955.3	-846.8	694.8	639.5	55.34	12.555	
8,380.3	7,072.0	7,282.6	7,074.1	40.1	27.9	-90.05	-955.3	-846.8	690.1	632.8	57.31	12.043 CC	
8,400.0	7,071.9	7,282.7	7,074.1	40.6	27.9	-90.05	-955.3	-846.8	690.4	632.6	57.79	11.948 ES	
8,500.0	7,071.5	7,282.7	7,074.2	43.1	27.9	-90.05	-955.3	-846.8	700.4	640.1	60.28	11.620	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WALTERS 21LDU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 703-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,600.0	7,071.0	7,282.8	7,074.2	45.6	27.9	-90.06	-955.3	-846.8	724.2	661.4	62.81	11.531 SF	
8,700.0	7,070.5	7,282.9	7,074.3	48.1	27.9	-90.06	-955.3	-846.8	760.6	695.2	65.36	11.636	
8,800.0	7,070.0	7,282.9	7,074.4	50.7	27.9	-90.07	-955.3	-846.8	807.7	739.8	67.95	11.887	
8,900.0	7,069.5	7,283.0	7,074.4	53.3	27.9	-90.08	-955.3	-846.8	863.9	793.3	70.56	12.244	
9,000.0	7,069.0	7,283.0	7,074.5	56.0	27.9	-90.08	-955.3	-846.8	927.5	854.3	73.19	12.673	
9,100.0	7,068.6	7,283.1	7,074.6	58.6	27.9	-90.09	-955.3	-846.8	997.1	921.3	75.83	13.149	
9,200.0	7,068.1	7,283.2	7,074.6	61.3	27.9	-90.09	-955.3	-846.8	1,071.5	993.0	78.49	13.652	
9,300.0	7,067.6	7,283.2	7,074.7	63.9	27.9	-90.10	-955.3	-846.8	1,149.8	1,068.6	81.16	14.167	
9,400.0	7,067.1	7,283.3	7,074.8	66.6	27.9	-90.10	-955.3	-846.8	1,231.2	1,147.4	83.84	14.685	
9,500.0	7,066.6	7,283.4	7,074.8	69.3	27.9	-90.11	-955.3	-846.8	1,315.3	1,228.7	86.54	15.199	
9,600.0	7,066.1	7,283.4	7,074.9	72.0	27.9	-90.11	-955.3	-846.8	1,401.4	1,312.1	89.24	15.704	
9,700.0	7,065.6	7,283.5	7,074.9	74.7	27.9	-90.12	-955.3	-846.8	1,489.2	1,397.3	91.95	16.196	
9,800.0	7,065.2	7,283.6	7,075.0	77.5	27.9	-90.12	-955.3	-846.8	1,578.5	1,483.8	94.66	16.675	
9,900.0	7,064.7	7,283.6	7,075.1	80.2	27.9	-90.13	-955.3	-846.8	1,669.0	1,571.6	97.39	17.138	
10,000.0	7,064.2	7,283.7	7,075.1	82.9	27.9	-90.13	-955.3	-846.8	1,760.6	1,660.4	100.12	17.585	
10,100.0	7,063.7	7,283.7	7,075.2	85.6	27.9	-90.14	-955.3	-846.8	1,853.0	1,750.1	102.85	18.016	
10,200.0	7,063.2	7,283.8	7,075.3	88.4	27.9	-90.14	-955.3	-846.8	1,946.1	1,840.5	105.59	18.431	
10,300.0	7,062.7	7,283.9	7,075.3	91.1	27.9	-90.15	-955.3	-846.8	2,039.9	1,931.6	108.33	18.831	
10,400.0	7,062.3	7,283.9	7,075.4	93.9	27.9	-90.15	-955.3	-846.8	2,134.3	2,023.2	111.08	19.215	
10,500.0	7,061.8	7,284.0	7,075.4	96.6	27.9	-90.16	-955.3	-846.8	2,229.2	2,115.3	113.83	19.584	
10,600.0	7,061.3	7,284.0	7,075.5	99.4	27.9	-90.16	-955.3	-846.8	2,324.5	2,207.9	116.58	19.939	
10,700.0	7,060.8	7,284.1	7,075.6	102.1	27.9	-90.17	-955.3	-846.8	2,420.1	2,300.8	119.34	20.280	
10,800.0	7,060.3	7,284.2	7,075.6	104.9	27.9	-90.17	-955.3	-846.8	2,516.2	2,394.1	122.10	20.608	
10,900.0	7,059.8	7,284.2	7,075.7	107.6	27.9	-90.18	-955.3	-846.8	2,612.5	2,487.6	124.86	20.924	
11,000.0	7,059.4	7,284.3	7,075.7	110.4	27.9	-90.18	-955.3	-846.8	2,709.0	2,581.4	127.62	21.227	
11,100.0	7,058.9	7,284.3	7,075.8	113.2	27.9	-90.19	-955.3	-846.8	2,805.9	2,675.5	130.39	21.519	
11,200.0	7,058.4	7,284.4	7,075.8	115.9	27.9	-90.19	-955.3	-846.8	2,902.9	2,769.7	133.16	21.801	
11,300.0	7,057.9	7,284.4	7,075.9	118.7	27.9	-90.20	-955.3	-846.8	3,000.1	2,864.2	135.93	22.072	
11,400.0	7,057.4	7,284.5	7,076.0	121.5	27.9	-90.20	-955.3	-846.8	3,097.5	2,958.8	138.70	22.333	
11,500.0	7,056.9	7,284.6	7,076.0	124.3	27.9	-90.21	-955.3	-846.8	3,195.1	3,053.6	141.47	22.585	
11,600.0	7,056.5	7,284.6	7,076.1	127.0	27.9	-90.21	-955.3	-846.8	3,292.8	3,148.5	144.25	22.828	
11,688.2	7,056.0	7,284.6	7,076.1	129.5	27.9	-90.21	-955.3	-846.8	3,379.0	3,232.4	146.69	23.035	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WALTERS 21QDU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 148-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.5	1.5	0.0	0.0	-52.27	449.2	-580.5	734.0				
100.0	100.0	102.8	102.8	0.1	0.1	-52.30	448.8	-580.7	733.9	733.7	0.17	4,238.621	
200.0	200.0	204.2	204.2	0.3	0.2	-52.39	447.7	-581.2	733.6	733.1	0.56	1,319.009	
300.0	300.0	323.4	323.4	0.5	0.5	-52.51	445.5	-580.8	732.4	731.3	1.04	704.862	
400.0	400.0	471.1	470.7	0.8	0.9	-52.57	439.2	-573.9	726.0	724.4	1.60	452.646	
500.0	500.0	608.1	606.7	1.0	1.2	-52.58	429.0	-560.7	713.8	711.6	2.21	323.150	
600.0	600.0	725.5	722.5	1.2	1.6	-52.73	416.0	-546.7	697.5	694.7	2.82	247.319	
700.0	700.0	839.5	834.5	1.4	2.1	-164.37	398.8	-534.1	681.3	678.1	3.17	214.618	
800.0	799.8	976.9	968.0	1.6	2.7	-165.57	371.9	-515.8	663.9	660.2	3.76	176.482	
900.0	899.5	1,113.9	1,098.8	1.9	3.5	-167.15	338.8	-492.2	644.0	639.6	4.43	145.468	
1,000.0	998.7	1,224.7	1,202.9	2.1	4.3	-168.84	307.4	-470.8	623.4	618.4	5.06	123.208	
1,100.0	1,097.5	1,325.3	1,297.0	2.4	4.9	-170.51	278.4	-450.6	605.8	600.1	5.67	106.856	
1,200.0	1,195.6	1,414.8	1,381.0	2.7	5.5	-171.95	253.9	-431.8	592.0	585.8	6.22	95.116	
1,200.1	1,195.8	1,414.9	1,381.2	2.7	5.5	-171.95	253.8	-431.8	592.0	585.8	6.22	95.102	
1,300.0	1,293.4	1,508.2	1,469.3	3.1	6.0	-173.44	229.4	-413.3	582.1	575.3	6.84	85.134	
1,400.0	1,391.3	1,612.3	1,567.3	3.5	6.7	-175.27	201.0	-393.0	572.4	564.8	7.57	75.649	
1,500.0	1,489.1	1,710.2	1,659.1	4.0	7.3	-177.22	172.5	-374.0	562.4	554.1	8.31	67.652	
1,600.0	1,586.9	1,820.2	1,761.8	4.4	8.0	-179.50	140.1	-351.9	552.5	543.3	9.17	60.265	
1,700.0	1,684.7	1,924.3	1,858.5	4.8	8.8	178.33	109.4	-328.8	541.1	531.1	10.04	53.873	
1,800.0	1,782.5	2,011.9	1,940.2	5.3	9.4	176.51	84.2	-309.5	531.0	520.2	10.82	49.055	
1,900.0	1,880.3	2,112.3	2,033.7	5.7	10.0	174.20	54.2	-288.3	522.1	510.4	11.76	44.389	
2,000.0	1,978.1	2,209.1	2,123.5	6.1	10.8	171.79	24.4	-268.0	513.9	501.2	12.77	40.242	
2,100.0	2,075.9	2,304.5	2,212.3	6.6	11.4	169.45	-4.1	-248.0	507.0	493.2	13.77	36.813	
2,200.0	2,173.8	2,403.6	2,304.7	7.0	12.1	167.00	-33.3	-227.3	501.1	486.3	14.84	33.774	
2,300.0	2,271.6	2,503.9	2,397.7	7.5	12.8	164.36	-63.9	-205.5	495.2	479.1	16.02	30.911	
2,400.0	2,369.4	2,597.0	2,483.6	8.0	13.5	161.60	-94.5	-186.5	491.4	474.1	17.25	28.491	
2,500.0	2,467.2	2,702.7	2,579.3	8.4	14.4	157.96	-133.0	-163.8	487.6	468.8	18.79	25.949	
2,600.0	2,565.0	2,797.4	2,664.5	8.9	15.2	154.52	-168.7	-142.8	485.0	464.7	20.29	23.907	
2,658.8	2,622.5	2,851.7	2,713.5	9.1	15.6	152.57	-188.8	-131.0	484.5	463.4	21.14	22.915 CC	
2,700.0	2,662.8	2,886.5	2,745.1	9.3	15.9	151.36	-201.4	-123.6	484.9	463.2	21.68	22.364 ES	
2,800.0	2,760.6	2,981.0	2,831.8	9.8	16.6	148.32	-234.1	-105.0	488.0	464.9	23.09	21.134	
2,900.0	2,858.5	3,085.7	2,927.3	10.2	17.4	144.90	-270.7	-82.6	491.2	466.5	24.70	19.890	
3,000.0	2,956.3	3,193.4	3,025.2	10.7	18.3	141.39	-308.2	-57.9	494.5	468.2	26.35	18.769	
3,100.0	3,054.1	3,284.8	3,109.1	11.2	19.0	138.77	-337.1	-36.3	497.9	470.2	27.69	17.980	
3,200.0	3,151.9	3,380.1	3,197.5	11.6	19.6	136.27	-366.2	-15.8	503.9	474.9	29.03	17.356	
3,300.0	3,249.7	3,487.9	3,297.6	12.1	20.4	133.58	-398.3	8.3	509.9	479.5	30.48	16.732	
3,400.0	3,347.5	3,587.2	3,390.1	12.5	21.1	131.26	-426.3	31.4	515.4	483.6	31.81	16.204	
3,500.0	3,445.3	3,686.0	3,482.2	13.0	21.8	129.08	-453.5	54.3	521.4	488.3	33.10	15.752	
3,600.0	3,543.2	3,779.0	3,569.4	13.5	22.4	127.20	-478.2	75.2	528.4	494.1	34.28	15.416	
3,700.0	3,641.0	3,865.2	3,650.5	13.9	23.0	125.59	-501.2	92.8	537.7	502.3	35.36	15.205	
3,800.0	3,738.8	3,949.9	3,730.0	14.4	23.5	123.96	-525.7	109.0	549.9	513.4	36.47	15.077	
3,900.0	3,836.6	4,045.1	3,818.4	14.8	24.2	121.96	-555.9	127.2	564.3	526.6	37.69	14.972	
4,000.0	3,934.4	4,163.9	3,928.4	15.3	25.1	119.49	-593.0	152.5	577.4	538.3	39.10	14.768	
4,100.0	4,032.2	4,253.5	4,011.3	15.8	25.7	117.69	-620.6	172.4	590.2	549.9	40.24	14.665	
4,159.1	4,090.0	4,314.1	4,067.8	16.0	26.1	116.62	-638.5	185.0	598.2	557.3	40.94	14.613	
4,200.0	4,130.1	4,354.1	4,105.2	16.2	26.4	116.04	-650.0	193.2	603.6	562.2	41.39	14.584	
4,300.0	4,228.5	4,445.9	4,190.9	16.5	27.0	114.53	-677.1	212.0	616.8	574.4	42.36	14.560	
4,400.0	4,327.5	4,547.3	4,285.2	16.8	27.8	112.53	-707.6	233.4	629.2	585.8	43.35	14.513	
4,500.0	4,426.9	4,643.2	4,374.6	17.0	28.4	110.49	-735.7	253.7	640.6	596.4	44.21	14.490 SF	
4,600.0	4,526.6	4,728.6	4,453.5	17.2	29.1	108.40	-762.4	272.5	653.0	608.1	44.92	14.537	
4,700.0	4,626.6	4,820.0	4,537.9	17.3	29.7	105.99	-791.6	292.1	666.7	621.1	45.57	14.631	
4,759.3	4,685.8	4,875.7	4,589.5	17.4	30.1	-144.49	-809.0	303.5	675.2	646.9	28.23	23.917	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 148-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,800.0	4,726.5	4,914.7	4,625.9	17.5	30.4	-145.60	-820.9	311.0	681.2	652.5	28.65	23.773	
4,900.0	4,826.5	5,010.9	4,716.7	17.6	31.0	-148.01	-848.4	327.3	696.6	666.9	29.69	23.459	
5,000.0	4,926.5	5,102.2	4,803.1	17.7	31.6	-150.10	-874.2	341.2	713.6	682.9	30.71	23.233	
5,100.0	5,026.5	5,216.5	4,911.9	17.8	32.2	-152.48	-904.6	358.4	730.3	698.3	31.95	22.858	
5,200.0	5,126.5	5,335.8	5,026.9	18.0	32.8	-154.55	-931.8	374.3	745.2	712.0	33.13	22.494	
5,300.0	5,226.5	5,455.0	5,143.6	18.1	33.3	-156.10	-953.4	386.6	757.5	723.3	34.14	22.189	
5,400.0	5,326.5	5,576.2	5,263.1	18.2	33.7	-157.27	-970.4	396.1	767.3	732.3	34.99	21.927	
5,500.0	5,426.5	5,705.8	5,392.0	18.3	34.0	-158.10	-982.6	403.2	774.0	738.3	35.71	21.676	
5,600.0	5,526.5	5,833.3	5,519.2	18.5	34.2	-158.59	-988.4	408.0	776.8	740.6	36.25	21.432	
5,700.0	5,626.5	5,941.4	5,627.3	18.6	34.3	-158.81	-989.9	410.6	777.2	740.6	36.62	21.223	
5,800.0	5,726.5	6,034.8	5,720.7	18.8	34.4	-158.81	-990.4	410.4	777.8	740.9	36.91	21.072	
5,900.0	5,826.5	6,132.9	5,818.8	18.9	34.5	-158.74	-991.0	409.0	778.9	741.7	37.19	20.945	
6,000.0	5,926.5	6,231.8	5,917.6	19.0	34.6	-158.66	-991.8	407.7	780.1	742.7	37.47	20.819	
6,100.0	6,026.5	6,332.0	6,017.8	19.2	34.6	-158.58	-992.7	406.1	781.5	743.8	37.76	20.699	
6,200.0	6,126.5	6,435.2	6,121.1	19.3	34.7	-158.52	-993.4	405.0	782.6	744.5	38.05	20.567	
6,300.0	6,226.5	6,534.5	6,220.3	19.5	34.8	-158.49	-994.1	404.3	783.5	745.1	38.35	20.428	
6,400.0	6,326.5	6,634.6	6,320.4	19.6	34.9	-158.47	-995.0	403.6	784.5	745.9	38.66	20.293	
6,433.3	6,359.8	6,668.6	6,354.4	19.7	34.9	-158.47	-995.2	403.5	784.8	746.1	38.77	20.246	
6,450.0	6,376.5	6,685.6	6,371.4	19.7	34.9	-68.48	-995.4	403.4	784.9	734.7	50.16	15.649	
6,500.0	6,426.5	6,736.3	6,422.1	19.7	34.9	-68.72	-995.7	403.2	784.2	734.1	50.18	15.630	
6,550.0	6,476.0	6,786.3	6,472.1	19.7	35.0	-69.30	-996.1	403.1	782.3	732.3	50.03	15.635	
6,600.0	6,525.0	6,835.3	6,521.1	19.7	35.0	-70.20	-996.4	402.9	779.2	729.4	49.75	15.663	
6,650.0	6,573.3	6,882.9	6,568.8	19.7	35.1	-71.39	-996.7	402.8	775.1	725.7	49.33	15.712	
6,700.0	6,620.4	6,929.2	6,615.0	19.6	35.1	-72.84	-997.0	402.5	770.1	721.3	48.80	15.780	
6,750.0	6,666.3	6,974.8	6,660.6	19.6	35.2	-74.56	-997.3	402.2	764.6	716.4	48.19	15.868	
6,800.0	6,710.7	7,019.3	6,705.1	19.5	35.2	-76.50	-997.7	401.9	758.7	711.2	47.51	15.972	
6,850.0	6,753.4	7,061.8	6,747.6	19.4	35.2	-78.60	-998.0	401.6	752.8	706.0	46.79	16.088	
6,900.0	6,794.2	7,102.0	6,787.8	19.3	35.3	-80.80	-998.4	401.3	747.1	701.0	46.08	16.213	
6,950.0	6,832.9	7,140.3	6,826.1	19.3	35.3	-83.04	-998.8	401.1	742.1	696.7	45.40	16.347	
7,000.0	6,869.2	7,178.5	6,864.3	19.2	35.3	-85.38	-999.1	400.8	738.1	693.3	44.75	16.493	
7,050.0	6,903.1	7,214.3	6,900.1	19.2	35.4	-87.62	-999.4	400.5	735.3	691.1	44.20	16.638	
7,099.8	6,934.2	7,246.0	6,931.8	19.2	35.4	-89.62	-999.5	400.1	734.3	690.6	43.78	16.772	
7,100.0	6,934.3	7,246.1	6,931.9	19.2	35.4	-89.62	-999.5	400.1	734.3	690.6	43.78	16.772	
7,150.0	6,962.8	7,274.0	6,959.8	19.3	35.4	-91.31	-999.7	399.9	735.5	691.9	43.54	16.892	
7,200.0	6,988.3	7,298.9	6,984.7	19.5	35.4	-92.68	-999.9	399.7	739.1	695.6	43.47	17.001	
7,250.0	7,010.7	7,322.0	7,007.8	19.7	35.5	-93.76	-1,000.0	399.5	745.5	701.9	43.58	17.105	
7,300.0	7,029.9	7,341.2	7,027.0	20.0	35.5	-94.38	-1,000.2	399.4	754.7	710.8	43.90	17.191	
7,350.0	7,045.9	7,358.2	7,044.0	20.4	35.5	-94.62	-1,000.3	399.3	767.0	722.6	44.40	17.272	
7,400.0	7,058.6	7,371.6	7,057.4	20.8	35.5	-94.35	-1,000.4	399.2	782.2	737.1	45.08	17.350	
7,450.0	7,067.8	7,381.6	7,067.4	21.4	35.5	-93.55	-1,000.5	399.2	800.3	754.4	45.90	17.435	
7,500.0	7,073.6	7,387.9	7,073.7	22.0	35.5	-92.20	-1,000.5	399.1	821.2	774.4	46.81	17.544	
7,550.0	7,076.0	7,390.5	7,076.3	22.7	35.5	-90.29	-1,000.5	399.1	844.6	796.9	47.73	17.697	
7,561.7	7,076.0	7,390.6	7,076.4	22.9	35.5	-89.76	-1,000.5	399.1	850.4	802.5	47.93	17.742	
7,600.0	7,075.8	7,390.6	7,076.4	23.4	35.5	-89.76	-1,000.5	399.1	870.3	821.8	48.52	17.936	
7,700.0	7,075.3	7,390.6	7,076.4	25.1	35.5	-89.76	-1,000.5	399.1	927.6	877.4	50.22	18.473	
7,800.0	7,074.8	7,390.6	7,076.4	27.0	35.5	-89.76	-1,000.5	399.1	991.8	939.7	52.10	19.037	
7,900.0	7,074.4	7,390.6	7,076.4	29.0	35.5	-89.76	-1,000.5	399.1	1,061.5	1,007.4	54.13	19.610	
8,000.0	7,073.9	7,390.6	7,076.4	31.1	35.5	-89.76	-1,000.5	399.1	1,135.7	1,079.4	56.28	20.179	
8,100.0	7,073.4	7,390.6	7,076.4	33.4	35.5	-89.76	-1,000.5	399.1	1,213.7	1,155.1	58.53	20.734	
8,200.0	7,072.9	7,390.6	7,076.4	35.7	35.5	-89.76	-1,000.5	399.1	1,294.6	1,233.8	60.86	21.271	
8,300.0	7,072.4	7,390.6	7,076.4	38.1	35.5	-89.76	-1,000.5	399.1	1,378.1	1,314.9	63.26	21.786	
8,400.0	7,071.9	7,390.7	7,076.4	40.6	35.5	-89.76	-1,000.5	399.1	1,463.7	1,398.0	65.70	22.277	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WALTERS 21QDU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 148-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,500.0	7,071.5	7,390.7	7,076.5	43.1	35.5	-89.76	-1,000.5	399.1	1,550.9	1,482.7	68.20	22.743	
8,600.0	7,071.0	7,390.7	7,076.5	45.6	35.5	-89.76	-1,000.5	399.1	1,639.7	1,569.0	70.72	23.184	
8,700.0	7,070.5	7,390.7	7,076.5	48.1	35.5	-89.76	-1,000.5	399.1	1,729.6	1,656.4	73.28	23.602	
8,800.0	7,070.0	7,390.7	7,076.5	50.7	35.5	-89.76	-1,000.5	399.1	1,820.6	1,744.8	75.87	23.997	
8,900.0	7,069.5	7,390.7	7,076.5	53.3	35.5	-89.76	-1,000.5	399.1	1,912.6	1,834.1	78.48	24.371	
9,000.0	7,069.0	7,390.7	7,076.5	56.0	35.5	-89.76	-1,000.5	399.1	2,005.2	1,924.1	81.10	24.724	
9,100.0	7,068.6	7,390.7	7,076.5	58.6	35.5	-89.76	-1,000.5	399.1	2,098.6	2,014.8	83.75	25.058	
9,200.0	7,068.1	7,390.7	7,076.5	61.3	35.5	-89.76	-1,000.5	399.1	2,192.5	2,106.1	86.41	25.374	
9,300.0	7,067.6	7,390.7	7,076.5	63.9	35.5	-89.76	-1,000.5	399.1	2,287.0	2,197.9	89.08	25.674	
9,400.0	7,067.1	7,390.7	7,076.5	66.6	35.5	-89.76	-1,000.5	399.1	2,381.9	2,290.1	91.76	25.957	
9,500.0	7,066.6	7,390.7	7,076.5	69.3	35.5	-89.76	-1,000.5	399.1	2,477.2	2,382.8	94.46	26.226	
9,600.0	7,066.1	7,390.7	7,076.5	72.0	35.5	-89.76	-1,000.5	399.1	2,572.9	2,475.7	97.16	26.481	
9,700.0	7,065.6	7,390.7	7,076.5	74.7	35.5	-89.76	-1,000.5	399.1	2,668.9	2,569.0	99.87	26.724	
9,800.0	7,065.2	7,390.7	7,076.5	77.5	35.5	-89.76	-1,000.5	399.1	2,765.1	2,662.5	102.58	26.955	
9,900.0	7,064.7	7,390.7	7,076.5	80.2	35.5	-89.76	-1,000.5	399.1	2,861.6	2,756.3	105.31	27.174	
10,000.0	7,064.2	7,390.7	7,076.5	82.9	35.5	-89.76	-1,000.5	399.1	2,958.4	2,850.4	108.04	27.384	
10,100.0	7,063.7	7,390.7	7,076.5	85.6	35.5	-89.76	-1,000.5	399.1	3,055.4	2,944.6	110.77	27.583	
10,200.0	7,063.2	7,390.7	7,076.5	88.4	35.5	-89.76	-1,000.5	399.1	3,152.5	3,039.0	113.51	27.773	
10,300.0	7,062.7	7,390.7	7,076.5	91.1	35.5	-89.76	-1,000.5	399.1	3,249.8	3,133.6	116.25	27.955	
10,400.0	7,062.3	7,390.7	7,076.5	93.9	35.5	-89.76	-1,000.5	399.1	3,347.3	3,228.3	119.00	28.129	
10,500.0	7,061.8	7,390.7	7,076.5	96.6	35.5	-89.76	-1,000.5	399.1	3,444.9	3,323.2	121.75	28.296	
10,600.0	7,061.3	7,390.7	7,076.5	99.4	35.5	-89.76	-1,000.5	399.1	3,542.7	3,418.2	124.50	28.455	
10,700.0	7,060.8	7,390.7	7,076.5	102.1	35.5	-89.76	-1,000.5	399.1	3,640.6	3,513.3	127.26	28.608	
10,800.0	7,060.3	7,390.7	7,076.5	104.9	35.5	-89.76	-1,000.5	399.1	3,738.6	3,608.6	130.02	28.755	
10,900.0	7,059.8	7,390.7	7,076.5	107.6	35.5	-89.76	-1,000.5	399.1	3,836.7	3,703.9	132.78	28.895	
11,000.0	7,059.4	7,390.7	7,076.5	110.4	35.5	-89.76	-1,000.5	399.1	3,934.9	3,799.3	135.54	29.030	
11,100.0	7,058.9	7,390.7	7,076.5	113.2	35.5	-89.76	-1,000.5	399.1	4,033.2	3,894.8	138.31	29.160	
11,200.0	7,058.4	7,390.7	7,076.5	115.9	35.5	-89.76	-1,000.5	399.1	4,131.5	3,990.4	141.08	29.285	
11,300.0	7,057.9	7,390.7	7,076.5	118.7	35.5	-89.76	-1,000.5	399.1	4,230.0	4,086.1	143.85	29.406	
11,400.0	7,057.4	7,390.7	7,076.5	121.5	35.5	-89.76	-1,000.5	399.1	4,328.5	4,181.9	146.62	29.522	
11,500.0	7,056.9	7,390.7	7,076.5	124.3	35.5	-89.76	-1,000.5	399.1	4,427.1	4,277.7	149.39	29.633	
11,600.0	7,056.5	7,390.7	7,076.5	127.0	35.5	-89.76	-1,000.5	399.1	4,525.7	4,373.5	152.17	29.741	
11,688.2	7,056.0	7,390.7	7,076.5	129.5	35.5	-89.76	-1,000.5	399.1	4,612.7	4,458.1	154.62	29.833	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 704-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	-47.65	510.0	-559.6	757.1				
100.0	100.0	100.6	100.6	0.1	0.1	-47.65	510.1	-559.6	757.2	757.0	0.20	3,752.833	
200.0	200.0	199.6	199.6	0.3	0.2	-47.65	510.2	-559.8	757.4	756.9	0.53	1,430.258	
300.0	300.0	298.7	298.7	0.5	0.3	-47.66	510.3	-560.0	757.7	756.8	0.86	883.790 ES	
400.0	400.0	397.8	397.8	0.8	0.4	-47.66	510.6	-560.4	758.1	756.9	1.19	639.712	
500.0	500.0	496.9	496.9	1.0	0.5	-47.67	510.9	-560.8	758.7	757.2	1.51	501.477	
600.0	600.0	595.9	595.9	1.2	0.6	-47.67	511.3	-561.4	759.3	757.5	1.84	412.541	
700.0	700.0	695.0	695.0	1.4	0.7	-158.69	511.7	-562.0	761.8	759.6	2.15	353.488	
800.0	799.8	792.1	792.1	1.6	0.9	-158.80	512.3	-562.8	767.7	765.1	2.57	299.139	
900.0	899.5	891.5	891.5	1.9	1.1	-158.97	513.1	-563.8	777.0	774.0	2.99	260.017	
1,000.0	998.7	988.6	988.6	2.1	1.3	-159.22	513.7	-565.0	789.7	786.3	3.41	231.486	
1,100.0	1,097.5	1,090.1	1,090.0	2.4	1.6	-159.56	514.0	-566.5	805.7	801.9	3.85	209.537	
1,200.0	1,195.6	1,196.3	1,196.2	2.7	1.8	-159.82	515.6	-566.0	824.3	820.0	4.28	192.418	
1,200.1	1,195.8	1,196.4	1,196.4	2.7	1.8	-159.82	515.6	-566.0	824.3	820.0	4.28	192.398	
1,300.0	1,293.4	1,300.9	1,300.6	3.1	2.0	-159.89	520.4	-561.4	843.5	838.8	4.73	178.158	
1,400.0	1,391.3	1,393.6	1,392.8	3.5	2.2	-159.71	526.9	-555.0	862.4	857.2	5.19	166.061	
1,500.0	1,489.1	1,479.6	1,478.2	4.0	2.4	-159.42	535.5	-548.6	882.8	877.2	5.67	155.599	
1,600.0	1,586.9	1,575.3	1,572.6	4.4	2.7	-158.87	548.0	-539.6	903.9	897.7	6.21	145.458	
1,700.0	1,684.7	1,677.4	1,672.8	4.8	3.0	-158.12	563.6	-527.9	925.0	918.2	6.81	135.769	
1,800.0	1,782.5	1,773.5	1,766.8	5.3	3.3	-157.32	579.3	-515.0	945.6	938.1	7.44	127.148	
1,900.0	1,880.3	1,867.2	1,857.9	5.7	3.7	-156.45	596.6	-501.7	967.2	959.1	8.08	119.687	
2,000.0	1,978.1	1,984.8	1,972.5	6.1	4.1	-155.45	616.9	-484.5	988.0	979.1	8.82	111.959	
2,100.0	2,075.9	2,069.4	2,054.7	6.6	4.5	-154.71	631.5	-470.9	1,008.0	998.5	9.48	106.350	
2,200.0	2,173.8	2,159.3	2,141.8	7.0	4.9	-153.90	648.7	-457.0	1,029.8	1,019.7	10.17	101.281	
2,300.0	2,271.6	2,261.6	2,241.1	7.5	5.3	-153.04	667.8	-441.2	1,051.6	1,040.7	10.92	96.314	
2,400.0	2,369.4	2,361.9	2,338.3	8.0	5.7	-152.22	686.3	-425.2	1,073.1	1,061.5	11.69	91.832	
2,500.0	2,467.2	2,461.2	2,434.5	8.4	6.2	-151.41	704.7	-408.9	1,094.6	1,082.1	12.46	87.816	
2,600.0	2,565.0	2,568.0	2,537.7	8.9	6.7	-150.53	724.7	-390.0	1,115.5	1,102.2	13.30	83.849	
2,700.0	2,662.8	2,661.0	2,627.3	9.3	7.2	-149.71	742.6	-372.4	1,136.5	1,122.4	14.10	80.598	
2,800.0	2,760.6	2,748.0	2,711.2	9.8	7.6	-149.02	759.4	-357.0	1,158.3	1,143.5	14.84	78.045	
2,900.0	2,858.5	2,842.6	2,802.9	10.2	8.0	-148.39	776.8	-342.0	1,180.7	1,165.2	15.60	75.708	
3,000.0	2,956.3	2,941.2	2,898.7	10.7	8.5	-147.78	794.8	-326.7	1,203.3	1,186.9	16.38	73.452	
3,100.0	3,054.1	3,040.2	2,994.8	11.2	8.9	-147.18	812.7	-311.0	1,225.8	1,208.6	17.18	71.370	
3,200.0	3,151.9	3,133.6	3,085.9	11.6	9.3	-146.71	828.6	-297.6	1,248.5	1,230.5	17.91	69.701	
3,300.0	3,249.7	3,223.0	3,173.1	12.1	9.7	-146.31	843.9	-285.6	1,271.7	1,253.0	18.63	68.266	
3,400.0	3,347.5	3,367.2	3,314.4	12.5	10.3	-145.78	865.1	-266.1	1,292.9	1,273.4	19.55	66.134	
3,500.0	3,445.3	3,474.2	3,419.6	13.0	10.7	-145.47	878.3	-251.6	1,312.4	1,292.1	20.30	64.647	
3,600.0	3,543.2	3,605.4	3,548.4	13.5	11.2	-145.05	893.5	-231.9	1,330.6	1,309.4	21.17	62.856	
3,700.0	3,641.0	3,697.7	3,639.0	13.9	11.6	-144.75	903.6	-217.1	1,347.6	1,325.7	21.89	61.572	
3,800.0	3,738.8	3,778.0	3,717.9	14.4	11.9	-144.53	912.8	-205.4	1,365.9	1,343.3	22.54	60.593	
3,900.0	3,836.6	3,844.3	3,783.0	14.8	12.1	-144.35	921.3	-196.5	1,385.9	1,362.8	23.14	59.882	
4,000.0	3,934.4	3,922.4	3,859.6	15.3	12.4	-144.11	932.8	-186.2	1,407.7	1,383.8	23.81	59.125	
4,100.0	4,032.2	4,014.1	3,949.2	15.8	12.8	-143.80	947.6	-173.6	1,430.4	1,405.8	24.54	58.292	
4,159.1	4,090.0	4,076.7	4,010.5	16.0	13.1	-143.62	957.3	-165.5	1,443.8	1,418.8	25.00	57.751	
4,200.0	4,130.1	4,122.5	4,055.4	16.2	13.3	-143.60	964.1	-159.7	1,452.6	1,427.3	25.33	57.347	
4,300.0	4,228.5	4,218.9	4,150.1	16.5	13.6	-143.53	977.9	-147.7	1,472.1	1,446.0	26.02	56.567	
4,400.0	4,327.5	4,324.8	4,253.9	16.8	14.1	-143.30	993.4	-134.0	1,488.9	1,462.1	26.74	55.690	
4,500.0	4,426.9	4,421.8	4,349.0	17.0	14.5	-143.00	1,007.4	-121.1	1,502.6	1,475.2	27.38	54.884	
4,600.0	4,526.6	4,534.1	4,459.5	17.2	14.9	-142.57	1,022.4	-107.4	1,513.3	1,485.3	28.02	54.007	
4,700.0	4,626.6	4,639.5	4,563.8	17.3	15.2	-142.21	1,033.9	-97.6	1,520.8	1,492.3	28.54	53.289	
4,759.3	4,685.8	4,711.0	4,634.8	17.4	15.4	-30.99	1,040.2	-92.4	1,523.6	1,497.4	26.21	58.140	
4,800.0	4,726.5	4,754.2	4,677.8	17.5	15.5	-30.83	1,043.6	-89.6	1,525.0	1,498.6	26.35	57.876	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 704-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,826.5	4,872.9	4,796.1	17.6	15.8	-30.49	1,051.0	-83.6	1,527.8	1,501.1	26.72	57.171	
5,000.0	4,926.5	4,995.9	4,919.0	17.7	16.1	-30.27	1,055.4	-79.3	1,529.1	1,502.0	27.09	56.436	
5,100.0	5,026.5	5,098.4	5,021.5	17.8	16.2	-30.19	1,056.9	-77.7	1,529.6	1,502.2	27.42	55.788	
5,200.0	5,126.5	5,199.7	5,122.7	18.0	16.4	-30.15	1,057.8	-77.1	1,530.0	1,502.3	27.74	55.153	
5,300.0	5,226.5	5,299.3	5,222.3	18.1	16.5	-30.13	1,058.4	-76.7	1,530.4	1,502.3	28.06	54.533	
5,400.0	5,326.5	5,398.7	5,321.7	18.2	16.7	-30.12	1,058.9	-76.6	1,530.8	1,502.4	28.39	53.923	
5,500.0	5,426.5	5,497.6	5,420.6	18.3	16.8	-30.11	1,059.4	-76.6	1,531.2	1,502.5	28.71	53.325	
5,600.0	5,526.5	5,600.5	5,523.4	18.5	16.9	-30.11	1,059.8	-76.9	1,531.7	1,502.6	29.05	52.727	
5,700.0	5,626.5	5,707.4	5,630.4	18.6	17.1	-30.12	1,059.7	-77.1	1,531.7	1,502.4	29.39	52.114	
5,800.0	5,726.5	5,811.3	5,734.2	18.8	17.2	-30.14	1,059.2	-77.4	1,531.4	1,501.7	29.73	51.512	
5,900.0	5,826.5	5,914.1	5,837.0	18.9	17.3	-30.16	1,058.5	-77.7	1,530.9	1,500.9	30.07	50.920	
6,000.0	5,926.5	6,013.6	5,936.6	19.0	17.5	-30.18	1,057.7	-77.9	1,530.4	1,500.0	30.39	50.350	
6,100.0	6,026.5	6,112.8	6,035.8	19.2	17.6	-30.20	1,057.0	-78.0	1,529.8	1,499.1	30.72	49.793	
6,200.0	6,126.5	6,209.0	6,131.9	19.3	17.7	-30.22	1,056.4	-78.3	1,529.4	1,498.4	31.05	49.254	
6,300.0	6,226.5	6,305.4	6,228.3	19.5	17.9	-30.24	1,056.0	-78.8	1,529.3	1,497.9	31.38	48.732	
6,319.4	6,245.9	6,324.4	6,247.4	19.5	17.9	-30.25	1,055.9	-78.9	1,529.3	1,497.9	31.45	48.630	
6,400.0	6,326.5	6,403.8	6,326.8	19.6	18.0	-30.26	1,055.7	-79.3	1,529.3	1,497.6	31.72	48.212	
6,433.3	6,359.8	6,436.6	6,359.6	19.7	18.0	-30.27	1,055.7	-79.4	1,529.4	1,497.5	31.83	48.042	
6,450.0	6,376.5	6,453.1	6,376.1	19.7	18.1	59.74	1,055.6	-79.5	1,529.3	1,495.0	34.27	44.631	
6,500.0	6,426.5	6,502.8	6,425.8	19.7	18.1	59.92	1,055.6	-79.7	1,527.9	1,493.6	34.36	44.473	
6,550.0	6,476.0	6,552.9	6,475.9	19.7	18.2	60.34	1,055.6	-79.9	1,524.8	1,490.4	34.41	44.311	
6,600.0	6,525.0	6,602.5	6,525.5	19.7	18.3	60.99	1,055.5	-80.1	1,519.9	1,485.5	34.43	44.140	
6,650.0	6,573.3	6,651.3	6,574.3	19.7	18.3	61.87	1,055.4	-80.4	1,513.4	1,479.0	34.44	43.951	
6,700.0	6,620.4	6,699.2	6,622.2	19.6	18.4	62.98	1,055.2	-80.7	1,505.4	1,471.0	34.43	43.730	
6,750.0	6,666.3	6,745.9	6,668.9	19.6	18.5	64.30	1,055.0	-81.0	1,496.0	1,461.6	34.42	43.469	
6,800.0	6,710.7	6,791.1	6,714.0	19.5	18.5	65.82	1,054.8	-81.3	1,485.3	1,450.9	34.42	43.158	
6,850.0	6,753.4	6,834.5	6,757.5	19.4	18.6	67.53	1,054.6	-81.6	1,473.5	1,439.0	34.44	42.787	
6,900.0	6,794.2	6,875.8	6,798.8	19.3	18.7	69.39	1,054.4	-81.9	1,460.8	1,426.3	34.49	42.355	
6,950.0	6,832.9	6,914.7	6,837.7	19.3	18.7	71.38	1,054.2	-82.1	1,447.4	1,412.8	34.58	41.860	
7,000.0	6,869.2	6,951.4	6,874.3	19.2	18.8	73.46	1,054.0	-82.3	1,433.5	1,398.8	34.71	41.304	
7,050.0	6,903.1	6,985.5	6,908.5	19.2	18.8	75.59	1,053.8	-82.5	1,419.4	1,384.6	34.88	40.694	
7,100.0	6,934.3	7,017.0	6,939.9	19.2	18.9	77.74	1,053.6	-82.7	1,405.4	1,370.3	35.10	40.037	
7,150.0	6,962.8	7,045.8	6,968.7	19.3	18.9	79.85	1,053.5	-82.8	1,391.6	1,356.3	35.37	39.344	
7,200.0	6,988.3	7,071.8	6,994.8	19.5	18.9	81.87	1,053.4	-82.9	1,378.4	1,342.7	35.69	38.622	
7,250.0	7,010.7	7,094.7	7,017.7	19.7	19.0	83.77	1,053.2	-83.0	1,366.0	1,329.9	36.06	37.882	
7,300.0	7,029.9	7,114.3	7,037.3	20.0	19.0	85.48	1,053.2	-83.1	1,354.6	1,318.1	36.48	37.131	
7,350.0	7,045.9	7,130.6	7,053.6	20.4	19.0	86.97	1,053.1	-83.1	1,344.4	1,307.4	36.96	36.376	
7,400.0	7,058.6	7,143.5	7,066.4	20.8	19.0	88.22	1,053.0	-83.1	1,335.7	1,298.2	37.50	35.621	
7,450.0	7,067.8	7,152.9	7,075.8	21.4	19.1	89.19	1,053.0	-83.1	1,328.6	1,290.5	38.10	34.875	
7,500.0	7,073.6	7,158.7	7,081.7	22.0	19.1	89.87	1,052.9	-83.1	1,323.3	1,284.5	38.76	34.145	
7,550.0	7,076.0	7,161.1	7,084.1	22.7	19.1	90.25	1,052.9	-83.1	1,319.8	1,280.4	39.47	33.441	
7,561.7	7,076.0	7,161.2	7,084.1	22.9	19.1	90.30	1,052.9	-83.1	1,319.3	1,279.6	39.64	33.280	
7,600.0	7,075.8	7,161.0	7,084.0	23.4	19.1	90.29	1,052.9	-83.1	1,318.2	1,278.0	40.23	32.766	
7,616.7	7,075.7	7,161.0	7,083.9	23.7	19.1	90.29	1,052.9	-83.1	1,318.1	1,277.6	40.51	32.535	
7,700.0	7,075.3	7,160.6	7,083.6	25.1	19.1	90.28	1,052.9	-83.1	1,320.8	1,278.8	41.93	31.502	
7,800.0	7,074.8	7,160.3	7,083.2	27.0	19.1	90.26	1,052.9	-83.1	1,330.8	1,287.0	43.81	30.379	
7,900.0	7,074.4	7,159.9	7,082.8	29.0	19.1	90.24	1,052.9	-83.1	1,348.2	1,302.4	45.84	29.413	
8,000.0	7,073.9	7,159.5	7,082.5	31.1	19.1	90.23	1,052.9	-83.1	1,372.7	1,324.7	47.99	28.605	
8,100.0	7,073.4	7,159.1	7,082.1	33.4	19.1	90.21	1,052.9	-83.1	1,404.0	1,353.7	50.24	27.945	
8,200.0	7,072.9	7,158.7	7,081.7	35.7	19.1	90.19	1,052.9	-83.1	1,441.4	1,388.9	52.57	27.420	
8,300.0	7,072.4	7,158.4	7,081.3	38.1	19.1	90.18	1,052.9	-83.1	1,484.7	1,429.8	54.96	27.014	
8,400.0	7,071.9	7,158.0	7,081.0	40.6	19.1	90.16	1,052.9	-83.1	1,533.3	1,475.9	57.41	26.709	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b>												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 704-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,500.0	7,071.5	7,157.6	7,080.6	43.1	19.1	90.15	1,052.9	-83.1	1,586.7	1,526.8	59.90	26.490	
8,600.0	7,071.0	7,157.3	7,080.2	45.6	19.1	90.13	1,052.9	-83.1	1,644.5	1,582.1	62.43	26.343	
8,700.0	7,070.5	7,156.9	7,079.9	48.1	19.1	90.11	1,052.9	-83.1	1,706.2	1,641.2	64.99	26.254	
8,800.0	7,070.0	7,156.5	7,079.5	50.7	19.1	90.10	1,052.9	-83.1	1,771.4	1,703.8	67.57	26.215	
8,900.0	7,069.5	7,156.2	7,079.1	53.3	19.1	90.08	1,052.9	-83.1	1,839.7	1,769.5	70.18	26.214 SF	
9,000.0	7,069.0	7,155.8	7,078.8	56.0	19.1	90.07	1,052.9	-83.1	1,910.8	1,838.0	72.81	26.244	
9,100.0	7,068.6	7,155.5	7,078.4	58.6	19.1	90.05	1,052.9	-83.1	1,984.4	1,908.9	75.45	26.300	
9,200.0	7,068.1	7,155.1	7,078.1	61.3	19.1	90.04	1,052.9	-83.1	2,060.2	1,982.1	78.11	26.376	
9,300.0	7,067.6	7,154.8	7,077.7	63.9	19.1	90.02	1,052.9	-83.1	2,138.0	2,057.2	80.78	26.467	
9,400.0	7,067.1	7,154.4	7,077.4	66.6	19.1	90.01	1,052.9	-83.1	2,217.6	2,134.1	83.46	26.570	
9,500.0	7,066.6	7,154.1	7,077.0	69.3	19.1	89.99	1,053.0	-83.1	2,298.8	2,212.6	86.16	26.682	
9,600.0	7,066.1	7,153.7	7,076.7	72.0	19.1	89.98	1,053.0	-83.1	2,381.4	2,292.5	88.86	26.800	
9,700.0	7,065.6	7,153.4	7,076.4	74.7	19.1	89.96	1,053.0	-83.1	2,465.3	2,373.7	91.57	26.923	
9,800.0	7,065.2	7,153.1	7,076.0	77.5	19.1	89.95	1,053.0	-83.1	2,550.4	2,456.1	94.28	27.050	
9,900.0	7,064.7	7,152.7	7,075.7	80.2	19.1	89.93	1,053.0	-83.1	2,636.5	2,539.5	97.01	27.179	
10,000.0	7,064.2	7,152.4	7,075.3	82.9	19.1	89.92	1,053.0	-83.1	2,723.5	2,623.8	99.73	27.308	
10,100.0	7,063.7	7,152.1	7,075.0	85.6	19.1	89.90	1,053.0	-83.1	2,811.5	2,709.0	102.47	27.438	
10,200.0	7,063.2	7,151.7	7,074.7	88.4	19.1	89.89	1,053.0	-83.1	2,900.2	2,795.0	105.21	27.567	
10,300.0	7,062.7	7,151.4	7,074.3	91.1	19.1	89.87	1,053.0	-83.1	2,989.6	2,881.6	107.95	27.695	
10,400.0	7,062.3	7,151.1	7,074.0	93.9	19.1	89.86	1,053.0	-83.1	3,079.7	2,969.0	110.69	27.821	
10,500.0	7,061.8	7,150.7	7,073.7	96.6	19.1	89.85	1,053.0	-83.1	3,170.3	3,056.9	113.44	27.946	
10,600.0	7,061.3	7,150.4	7,073.4	99.4	19.1	89.83	1,053.0	-83.1	3,261.5	3,145.3	116.20	28.069	
10,700.0	7,060.8	7,150.1	7,073.0	102.1	19.1	89.82	1,053.0	-83.1	3,353.2	3,234.3	118.95	28.190	
10,800.0	7,060.3	7,149.8	7,072.7	104.9	19.1	89.80	1,053.0	-83.1	3,445.4	3,323.7	121.71	28.308	
10,900.0	7,059.8	7,149.5	7,072.4	107.6	19.1	89.79	1,053.0	-83.1	3,538.0	3,413.5	124.47	28.424	
11,000.0	7,059.4	7,149.1	7,072.1	110.4	19.1	89.78	1,053.0	-83.1	3,631.0	3,503.8	127.24	28.537	
11,100.0	7,058.9	7,148.8	7,071.8	113.2	19.1	89.76	1,053.0	-83.1	3,724.4	3,594.4	130.00	28.648	
11,200.0	7,058.4	7,148.5	7,071.5	115.9	19.1	89.75	1,053.0	-83.1	3,818.1	3,685.3	132.77	28.757	
11,300.0	7,057.9	7,148.2	7,071.2	118.7	19.1	89.74	1,053.0	-83.1	3,912.1	3,776.5	135.54	28.862	
11,400.0	7,057.4	7,147.9	7,070.8	121.5	19.1	89.72	1,053.0	-83.1	4,006.4	3,868.0	138.31	28.966	
11,500.0	7,056.9	7,147.6	7,070.5	124.3	19.1	89.71	1,053.0	-83.1	4,100.9	3,959.8	141.09	29.067	
11,600.0	7,056.5	7,147.3	7,070.2	127.0	19.1	89.70	1,053.0	-83.1	4,195.7	4,051.9	143.86	29.165	
11,688.2	7,056.0	7,147.0	7,069.9	129.5	19.1	89.68	1,053.0	-83.1	4,279.5	4,133.2	146.31	29.250	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 735-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	1.5	1.5	0.0	0.0	-55.32	410.6	-593.3	721.5				
100.0	100.0	102.4	102.4	0.1	0.1	-55.32	410.5	-593.3	721.5	721.3	0.20	3,535.910	
200.0	200.0	203.2	203.2	0.3	0.2	-55.32	410.4	-593.2	721.3	720.8	0.53	1,350.594	
300.0	300.0	304.1	304.1	0.5	0.3	-55.33	410.2	-593.0	721.0	720.1	0.86	834.420	
400.0	400.0	404.9	404.9	0.8	0.4	-55.33	409.9	-592.7	720.6	719.4	1.19	603.463	
500.0	500.0	505.7	505.7	1.0	0.5	-55.34	409.5	-592.3	720.1	718.5	1.52	472.448	
600.0	600.0	606.6	606.6	1.2	0.6	-55.35	409.0	-591.8	719.4	717.6	1.85	388.008	
621.6	621.6	628.3	628.3	1.3	0.7	-166.34	408.9	-591.7	719.3	717.4	1.92	374.531	
700.0	700.0	707.4	707.4	1.4	0.7	-166.38	408.4	-591.3	720.3	718.2	2.17	332.428	
800.0	799.8	807.6	807.6	1.6	0.9	-166.47	407.8	-590.7	724.6	722.0	2.55	284.077	
900.0	899.5	916.1	916.1	1.9	1.2	-166.65	406.5	-589.8	731.7	728.7	2.99	245.056	
1,000.0	998.7	1,038.2	1,038.1	2.1	1.4	-167.12	401.5	-587.9	740.0	736.6	3.46	213.672	
1,100.0	1,097.5	1,163.3	1,162.7	2.4	1.7	-167.91	391.5	-584.4	748.7	744.7	3.96	188.858	
1,200.0	1,195.6	1,288.3	1,286.7	2.7	2.1	-168.92	377.1	-578.4	757.2	752.7	4.49	168.764	
1,200.1	1,195.8	1,288.5	1,286.9	2.7	2.1	-168.92	377.1	-578.4	757.2	752.7	4.49	168.740	
1,300.0	1,293.4	1,400.6	1,397.8	3.1	2.5	-169.92	362.0	-571.1	765.1	760.0	5.02	152.451	
1,400.0	1,391.3	1,509.0	1,504.6	3.5	2.8	-170.97	345.4	-563.3	771.6	766.0	5.56	138.697	
1,500.0	1,489.1	1,621.7	1,615.2	4.0	3.3	-172.25	325.2	-555.5	777.4	771.2	6.14	126.520	
1,600.0	1,586.9	1,739.4	1,730.1	4.4	3.7	-173.62	302.0	-545.1	780.7	774.0	6.78	115.215	
1,700.0	1,684.7	1,857.0	1,844.1	4.8	4.3	-175.12	275.8	-533.4	782.4	774.9	7.46	104.898	
1,800.0	1,782.5	1,974.5	1,957.6	5.3	4.8	-176.54	249.4	-518.4	781.7	773.6	8.14	96.047	
1,900.0	1,880.3	2,075.3	2,054.5	5.7	5.3	-177.81	225.4	-504.7	780.1	771.3	8.77	88.949	
2,000.0	1,978.1	2,168.6	2,144.4	6.1	5.7	-178.98	203.6	-492.2	779.2	769.8	9.36	83.202	
2,032.5	2,009.9	2,198.6	2,173.4	6.3	5.9	-179.34	196.8	-488.2	779.1	769.6	9.55	81.563	
2,100.0	2,075.9	2,258.9	2,231.7	6.6	6.1	179.96	183.6	-480.3	779.4	769.5	9.94	78.401	
2,200.0	2,173.8	2,353.1	2,322.9	7.0	6.5	178.82	162.7	-469.2	781.2	770.6	10.57	73.934	
2,300.0	2,271.6	2,463.0	2,428.9	7.5	7.1	177.44	137.4	-455.8	782.6	771.3	11.32	69.135	
2,400.0	2,369.4	2,569.4	2,531.1	8.0	7.7	175.98	110.8	-442.1	783.1	771.0	12.12	64.620	
2,500.0	2,467.2	2,670.6	2,627.6	8.4	8.3	174.46	83.6	-429.0	783.4	770.5	12.94	60.544	
2,600.0	2,565.0	2,766.6	2,719.2	8.9	8.8	172.98	57.2	-416.6	784.2	770.5	13.73	57.101	
2,700.0	2,662.8	2,857.8	2,806.4	9.3	9.3	171.67	33.4	-405.0	786.0	771.6	14.47	54.326	
2,800.0	2,760.6	2,949.3	2,894.3	9.8	9.7	170.41	10.4	-394.0	789.3	774.0	15.21	51.878	
2,900.0	2,858.5	3,043.3	2,984.6	10.2	10.2	169.12	-13.2	-383.3	793.6	777.6	16.00	49.590	
3,000.0	2,956.3	3,135.5	3,073.5	10.7	10.7	167.91	-35.7	-373.3	799.0	782.2	16.78	47.607	
3,100.0	3,054.1	3,231.1	3,166.1	11.2	11.1	166.80	-57.3	-363.1	805.3	787.7	17.55	45.876	
3,200.0	3,151.9	3,325.5	3,257.6	11.6	11.5	165.76	-77.9	-353.3	812.3	794.0	18.32	44.350	
3,300.0	3,249.7	3,428.2	3,357.5	12.1	12.0	164.73	-99.2	-342.7	819.7	800.6	19.11	42.885	
3,400.0	3,347.5	3,517.6	3,444.7	12.5	12.4	163.90	-117.0	-333.4	827.5	807.7	19.84	41.707	
3,500.0	3,445.3	3,630.6	3,554.9	13.0	12.9	162.90	-139.1	-321.5	835.4	814.7	20.69	40.366	
3,600.0	3,543.2	3,726.6	3,648.3	13.5	13.3	162.04	-158.3	-310.9	842.8	821.3	21.49	39.220	
3,700.0	3,641.0	3,838.1	3,756.1	13.9	13.9	160.88	-183.3	-297.8	849.7	827.3	22.44	37.865	
3,800.0	3,738.8	3,937.9	3,852.3	14.4	14.4	159.76	-207.0	-285.2	855.9	832.5	23.37	36.621	
3,900.0	3,836.6	4,030.1	3,940.9	14.8	14.9	158.69	-229.9	-274.2	863.1	838.8	24.27	35.558	
4,000.0	3,934.4	4,126.8	4,034.2	15.3	15.4	157.65	-252.7	-262.9	870.8	845.7	25.17	34.597	
4,100.0	4,032.2	4,226.1	4,130.7	15.8	15.8	156.80	-273.2	-251.5	879.1	853.1	26.04	33.765	
4,159.1	4,090.0	4,285.6	4,188.5	16.0	16.1	156.29	-285.6	-244.5	883.9	857.3	26.56	33.284	
4,200.0	4,130.1	4,321.6	4,223.4	16.2	16.3	156.00	-293.1	-240.4	887.1	860.2	26.90	32.982	
4,300.0	4,228.5	4,413.9	4,313.3	16.5	16.7	155.25	-311.7	-230.5	893.6	865.9	27.68	32.280	
4,400.0	4,327.5	4,508.9	4,406.3	16.8	17.1	154.52	-328.7	-220.8	897.5	869.1	28.41	31.590	
4,500.0	4,426.9	4,605.0	4,500.6	17.0	17.4	153.79	-344.0	-211.6	898.9	869.8	29.07	30.918	
4,600.0	4,526.6	4,705.4	4,599.8	17.2	17.8	153.12	-356.7	-202.4	897.5	867.8	29.66	30.258	
4,700.0	4,626.6	4,797.2	4,690.9	17.3	18.0	152.65	-364.3	-194.5	893.2	863.1	30.10	29.674	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 735-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,759.3	4,685.8	4,846.6	4,740.1	17.4	18.2	-96.63	-367.8	-190.8	889.8	861.5	28.28	31.470	
4,800.0	4,726.5	4,877.8	4,771.2	17.5	18.2	-96.77	-369.8	-188.9	887.6	859.3	28.37	31.290	
4,900.0	4,826.5	4,958.1	4,851.3	17.6	18.4	-97.06	-373.9	-185.5	884.0	855.4	28.61	30.899	
5,000.0	4,926.5	5,047.4	4,940.5	17.7	18.5	-97.29	-377.0	-183.4	882.1	853.3	28.87	30.559	
5,100.0	5,026.5	5,144.0	5,037.1	17.8	18.7	-97.39	-378.6	-182.0	880.9	851.7	29.15	30.220	
5,200.0	5,126.5	5,239.4	5,132.5	18.0	18.8	-97.46	-379.5	-181.2	880.1	850.7	29.43	29.903	
5,300.0	5,226.5	5,336.9	5,229.9	18.1	18.9	-97.54	-380.6	-180.7	879.8	850.0	29.72	29.600	
5,365.8	5,292.3	5,400.7	5,293.8	18.2	19.0	-97.58	-381.2	-180.5	879.7	849.8	29.91	29.408	
5,400.0	5,326.5	5,433.2	5,326.3	18.2	19.0	-97.60	-381.6	-180.5	879.7	849.7	30.01	29.313	
5,500.0	5,426.5	5,526.8	5,419.9	18.3	19.2	-97.65	-382.4	-180.9	880.2	849.9	30.30	29.053	
5,600.0	5,526.5	5,622.8	5,515.9	18.5	19.3	-97.72	-383.7	-181.9	881.5	850.9	30.58	28.823	
5,700.0	5,626.5	5,728.7	5,621.7	18.6	19.4	-97.82	-385.3	-183.0	882.7	851.8	30.89	28.578	
5,800.0	5,726.5	5,834.1	5,727.1	18.8	19.6	-97.93	-387.0	-183.1	883.0	851.8	31.20	28.306	
5,900.0	5,826.5	5,934.8	5,827.8	18.9	19.7	-98.00	-388.2	-183.0	883.1	851.6	31.50	28.030	
6,000.0	5,926.5	6,034.7	5,927.7	19.0	19.8	-98.05	-388.9	-182.9	883.1	851.3	31.82	27.754	
6,100.0	6,026.5	6,131.5	6,024.5	19.2	20.0	-98.07	-389.2	-183.0	883.3	851.2	32.13	27.489	
6,200.0	6,126.5	6,229.9	6,122.9	19.3	20.1	-98.09	-389.6	-183.5	883.8	851.3	32.45	27.234	
6,300.0	6,226.5	6,332.5	6,225.5	19.5	20.2	-98.12	-390.1	-183.9	884.2	851.4	32.78	26.976	
6,400.0	6,326.5	6,433.2	6,326.2	19.6	20.3	-98.14	-390.5	-184.0	884.4	851.3	33.11	26.715	
6,433.3	6,359.8	6,465.4	6,358.4	19.7	20.4	-98.15	-390.6	-184.1	884.5	851.3	33.21	26.632	
6,450.0	6,376.5	6,481.6	6,374.6	19.7	20.4	-8.15	-390.6	-184.1	884.4	848.8	35.63	24.819	
6,500.0	6,426.5	6,530.5	6,423.5	19.7	20.5	-8.21	-390.7	-184.4	881.7	846.2	35.54	24.808	
6,550.0	6,476.0	6,580.2	6,473.3	19.7	20.5	-8.35	-390.8	-184.6	875.7	840.3	35.32	24.795	
6,600.0	6,525.0	6,628.9	6,521.9	19.7	20.6	-8.56	-390.9	-184.8	866.2	831.2	34.96	24.778	
6,650.0	6,573.3	6,676.3	6,569.3	19.7	20.7	-8.86	-391.0	-185.1	853.4	818.9	34.47	24.757	
6,700.0	6,620.4	6,723.2	6,616.2	19.6	20.7	-9.24	-391.0	-185.4	837.3	803.5	33.87	24.723	
6,750.0	6,666.3	6,769.3	6,662.3	19.6	20.8	-9.75	-391.1	-185.7	818.1	784.9	33.16	24.667	
6,800.0	6,710.7	6,812.9	6,705.9	19.5	20.8	-10.38	-391.2	-186.0	795.7	763.3	32.37	24.582	
6,850.0	6,753.4	6,854.1	6,747.1	19.4	20.9	-11.15	-391.2	-186.4	770.4	738.9	31.50	24.456	
6,900.0	6,794.2	6,894.5	6,787.5	19.3	20.9	-12.12	-391.2	-186.8	742.4	711.8	30.60	24.263	
6,950.0	6,832.9	6,934.9	6,827.9	19.3	21.0	-13.37	-391.2	-187.3	711.6	681.9	29.69	23.963	
7,000.0	6,869.2	6,972.9	6,865.9	19.2	21.0	-14.95	-391.2	-187.6	678.1	649.3	28.84	23.514	
7,050.0	6,903.1	7,007.1	6,900.1	19.2	21.1	-16.94	-391.2	-187.8	642.3	614.2	28.09	22.864	
7,100.0	6,934.3	7,038.6	6,931.6	19.2	21.1	-19.48	-391.2	-188.0	604.3	576.7	27.54	21.938	
7,150.0	6,962.8	7,067.3	6,960.3	19.3	21.2	-22.78	-391.3	-188.2	564.3	537.0	27.32	20.654	
7,200.0	6,988.3	7,093.2	6,986.1	19.5	21.2	-27.10	-391.3	-188.4	522.7	495.1	27.58	18.948	
7,250.0	7,010.7	7,115.9	7,008.9	19.7	21.2	-32.76	-391.3	-188.6	479.6	451.1	28.50	16.827	
7,300.0	7,029.9	7,135.5	7,028.5	20.0	21.3	-40.10	-391.3	-188.7	435.4	405.2	30.19	14.423	
7,350.0	7,045.9	7,151.9	7,044.9	20.4	21.3	-49.33	-391.3	-188.8	390.4	357.8	32.55	11.994	
7,400.0	7,058.6	7,164.9	7,057.9	20.8	21.3	-60.10	-391.3	-188.9	345.1	309.9	35.14	9.821	
7,450.0	7,067.8	7,174.6	7,067.6	21.4	21.3	-71.30	-391.3	-189.0	299.9	262.6	37.28	8.046	
7,500.0	7,073.6	7,180.8	7,073.8	22.0	21.3	-81.25	-391.3	-189.0	255.8	217.2	38.59	6.627	
7,550.0	7,076.0	7,183.5	7,076.5	22.7	21.3	-88.65	-391.3	-189.0	213.8	174.4	39.31	5.437	
7,561.7	7,076.0	7,183.6	7,076.6	22.9	21.3	-89.94	-391.3	-189.0	204.4	164.9	39.44	5.182	
7,600.0	7,075.8	7,183.7	7,076.7	23.4	21.3	-89.97	-391.3	-189.0	175.9	135.8	40.03	4.393	
7,700.0	7,075.3	7,183.8	7,076.8	25.1	21.3	-90.04	-391.3	-189.0	128.1	86.4	41.73	3.070	
7,722.6	7,075.2	7,183.9	7,076.8	25.5	21.3	-90.05	-391.3	-189.0	126.1	84.0	42.15	2.992 CC, ES, SF	
7,800.0	7,074.8	7,184.0	7,077.0	27.0	21.3	-90.11	-391.3	-189.0	148.0	104.4	43.61	3.393	
7,900.0	7,074.4	7,184.1	7,077.1	29.0	21.3	-90.18	-391.3	-189.0	217.7	172.0	45.63	4.770	
8,000.0	7,073.9	7,184.3	7,077.3	31.1	21.3	-90.25	-391.3	-189.0	304.7	256.9	47.78	6.377	
8,100.0	7,073.4	7,184.4	7,077.4	33.4	21.3	-90.31	-391.3	-189.0	397.9	347.9	50.03	7.953	
8,200.0	7,072.9	7,184.6	7,077.6	35.7	21.3	-90.38	-391.3	-189.0	493.8	441.4	52.36	9.431	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WALTERS 24-21DU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 735-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,300.0	7,072.4	7,184.7	7,077.7	38.1	21.3	-90.45	-391.3	-189.0	591.0	536.3	54.75	10.795	
8,400.0	7,071.9	7,184.9	7,077.9	40.6	21.3	-90.52	-391.3	-189.0	689.0	631.8	57.20	12.047	
8,500.0	7,071.5	7,185.0	7,078.0	43.1	21.3	-90.58	-391.3	-189.0	787.6	727.9	59.68	13.196	
8,600.0	7,071.0	7,185.2	7,078.1	45.6	21.3	-90.65	-391.3	-189.0	886.4	824.2	62.21	14.249	
8,700.0	7,070.5	7,185.3	7,078.3	48.1	21.3	-90.71	-391.3	-189.0	985.5	920.7	64.77	15.216	
8,800.0	7,070.0	7,185.4	7,078.4	50.7	21.3	-90.78	-391.3	-189.0	1,084.8	1,017.4	67.35	16.107	
8,900.0	7,069.5	7,185.6	7,078.6	53.3	21.3	-90.84	-391.3	-189.0	1,184.1	1,114.2	69.95	16.927	
9,000.0	7,069.0	7,185.7	7,078.7	56.0	21.3	-90.91	-391.3	-189.0	1,283.6	1,211.0	72.58	17.686	
9,100.0	7,068.6	7,185.9	7,078.9	58.6	21.3	-90.97	-391.3	-189.0	1,383.2	1,307.9	75.22	18.388	
9,200.0	7,068.1	7,186.0	7,079.0	61.3	21.3	-91.04	-391.3	-189.0	1,482.8	1,404.9	77.88	19.040	
9,300.0	7,067.6	7,186.2	7,079.1	63.9	21.3	-91.10	-391.3	-189.0	1,582.4	1,501.9	80.54	19.647	
9,400.0	7,067.1	7,186.3	7,079.3	66.6	21.3	-91.16	-391.3	-189.0	1,682.1	1,598.9	83.22	20.213	
9,500.0	7,066.6	7,186.4	7,079.4	69.3	21.3	-91.23	-391.3	-189.0	1,781.9	1,696.0	85.91	20.741	
9,600.0	7,066.1	7,186.6	7,079.6	72.0	21.3	-91.29	-391.3	-189.0	1,881.6	1,793.0	88.61	21.235	
9,700.0	7,065.6	7,186.7	7,079.7	74.7	21.3	-91.35	-391.3	-189.0	1,981.4	1,890.1	91.31	21.699	
9,800.0	7,065.2	7,186.8	7,079.8	77.5	21.3	-91.41	-391.3	-189.0	2,081.2	1,987.2	94.03	22.134	
9,900.0	7,064.7	7,187.0	7,080.0	80.2	21.3	-91.48	-391.3	-189.1	2,181.1	2,084.3	96.75	22.544	
10,000.0	7,064.2	7,187.1	7,080.1	82.9	21.3	-91.54	-391.3	-189.1	2,280.9	2,181.4	99.47	22.931	
10,100.0	7,063.7	7,187.2	7,080.2	85.6	21.3	-91.60	-391.3	-189.1	2,380.7	2,278.6	102.20	23.296	
10,200.0	7,063.2	7,187.4	7,080.4	88.4	21.3	-91.66	-391.3	-189.1	2,480.6	2,375.7	104.93	23.640	
10,300.0	7,062.7	7,187.5	7,080.5	91.1	21.3	-91.72	-391.3	-189.1	2,580.5	2,472.8	107.67	23.967	
10,400.0	7,062.3	7,187.6	7,080.6	93.9	21.3	-91.78	-391.3	-189.1	2,680.4	2,570.0	110.41	24.277	
10,500.0	7,061.8	7,187.8	7,080.8	96.6	21.3	-91.84	-391.3	-189.1	2,780.3	2,667.1	113.15	24.571	
10,600.0	7,061.3	7,187.9	7,080.9	99.4	21.3	-91.90	-391.3	-189.1	2,880.2	2,764.3	115.90	24.850	
10,700.0	7,060.8	7,188.0	7,081.0	102.1	21.3	-91.95	-391.3	-189.1	2,980.1	2,861.4	118.65	25.116	
10,800.0	7,060.3	7,188.2	7,081.2	104.9	21.3	-92.01	-391.3	-189.1	3,080.0	2,958.6	121.40	25.370	
10,900.0	7,059.8	7,188.3	7,081.3	107.6	21.3	-92.07	-391.3	-189.1	3,179.9	3,055.7	124.16	25.612	
11,000.0	7,059.4	7,188.4	7,081.4	110.4	21.3	-92.13	-391.3	-189.1	3,279.8	3,152.9	126.91	25.843	
11,100.0	7,058.9	7,188.5	7,081.5	113.2	21.3	-92.19	-391.3	-189.1	3,379.8	3,250.1	129.67	26.064	
11,200.0	7,058.4	7,188.7	7,081.7	115.9	21.3	-92.24	-391.3	-189.1	3,479.7	3,347.3	132.43	26.275	
11,300.0	7,057.9	7,188.8	7,081.8	118.7	21.3	-92.30	-391.3	-189.1	3,579.6	3,444.4	135.20	26.477	
11,400.0	7,057.4	7,188.9	7,081.9	121.5	21.3	-92.36	-391.3	-189.1	3,679.6	3,541.6	137.96	26.671	
11,500.0	7,056.9	7,189.0	7,082.0	124.3	21.3	-92.41	-391.3	-189.1	3,779.5	3,638.8	140.73	26.857	
11,600.0	7,056.5	7,189.2	7,082.2	127.0	21.3	-92.47	-391.3	-189.1	3,879.5	3,736.0	143.49	27.036	
11,688.2	7,056.0	7,189.3	7,082.2	129.5	21.3	-92.52	-391.3	-189.1	3,967.6	3,821.6	145.93	27.188	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 705-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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.5	1.5	0.0	0.0	-46.25	529.0	-552.6	765.0				
100.0	100.0	101.3	101.3	0.1	0.1	-46.26	528.9	-552.7	765.0	764.8	0.20	3,776.555	
200.0	200.0	201.0	201.0	0.3	0.2	-46.28	528.7	-552.9	765.0	764.5	0.53	1,440.416	
300.0	300.0	300.8	300.8	0.5	0.3	-46.32	528.4	-553.3	765.1	764.3	0.86	890.000	
400.0	400.0	400.5	400.5	0.8	0.4	-46.37	528.0	-553.9	765.2	764.0	1.19	644.002	
500.0	500.0	500.3	500.3	1.0	0.5	-46.43	527.5	-554.6	765.4	763.9	1.52	504.598	
600.0	600.0	600.0	600.0	1.2	0.6	-46.51	526.8	-555.4	765.6	763.7	1.85	414.853 ES	
700.0	700.0	699.7	699.7	1.4	0.7	-157.63	526.1	-556.5	767.4	765.2	2.17	354.406	
800.0	799.8	798.6	798.6	1.6	0.9	-157.84	525.3	-557.6	772.5	769.9	2.57	300.297	
900.0	899.5	892.0	892.0	1.9	1.1	-158.09	524.5	-558.8	781.0	778.0	2.98	261.818	
1,000.0	998.7	986.0	985.9	2.1	1.3	-158.34	524.9	-559.8	793.5	790.1	3.40	233.500	
1,100.0	1,097.5	1,061.0	1,060.9	2.4	1.5	-158.46	527.2	-561.1	811.3	807.5	3.79	214.154	
1,200.0	1,195.6	1,132.7	1,132.4	2.7	1.6	-158.59	530.7	-563.9	835.2	831.0	4.20	198.911	
1,200.1	1,195.8	1,132.8	1,132.5	2.7	1.6	-158.59	530.7	-563.9	835.2	831.0	4.20	198.893	
1,300.0	1,293.4	1,201.8	1,201.2	3.1	1.8	-158.98	534.7	-569.0	863.7	859.1	4.61	187.188	
1,400.0	1,391.3	1,266.0	1,265.0	3.5	2.0	-159.38	539.1	-575.7	895.2	890.2	5.03	177.943	
1,500.0	1,489.1	1,342.6	1,340.7	4.0	2.2	-159.90	544.8	-585.8	929.3	923.8	5.48	169.622	
1,600.0	1,586.9	1,423.3	1,420.1	4.4	2.4	-160.50	550.8	-598.5	965.2	959.3	5.93	162.714	
1,700.0	1,684.7	1,491.3	1,486.9	4.8	2.7	-161.07	555.3	-610.9	1,002.6	996.3	6.36	157.581	
1,800.0	1,782.5	1,545.0	1,539.2	5.3	2.9	-161.52	559.5	-622.1	1,043.0	1,036.3	6.76	154.209	
1,900.0	1,880.3	1,618.0	1,609.9	5.7	3.2	-162.12	566.1	-639.0	1,085.8	1,078.5	7.22	150.307	
2,000.0	1,978.1	1,683.5	1,672.9	6.1	3.5	-162.66	572.3	-655.7	1,130.6	1,122.9	7.67	147.485	
2,100.0	2,075.9	1,749.6	1,736.1	6.6	3.9	-163.21	578.9	-673.9	1,177.3	1,169.2	8.11	145.191	
2,200.0	2,173.8	1,825.0	1,807.8	7.0	4.3	-163.82	586.7	-695.8	1,225.5	1,216.9	8.58	142.891	
2,300.0	2,271.6	1,904.6	1,883.4	7.5	4.8	-164.41	595.4	-719.3	1,274.4	1,265.4	9.05	140.873	
2,400.0	2,369.4	2,011.0	1,984.5	8.0	5.4	-165.20	605.6	-750.8	1,323.0	1,313.4	9.57	138.262	
2,500.0	2,467.2	2,083.3	2,053.2	8.4	5.8	-165.72	612.1	-772.3	1,371.4	1,361.4	10.01	136.969	
2,600.0	2,565.0	2,170.8	2,136.2	8.9	6.3	-166.28	620.7	-798.4	1,420.5	1,410.0	10.50	135.327	
2,700.0	2,662.8	2,261.0	2,221.9	9.3	6.8	-166.86	628.8	-825.6	1,469.4	1,458.4	10.98	133.807	
2,800.0	2,760.6	2,348.5	2,305.0	9.8	7.3	-167.38	636.6	-851.7	1,518.2	1,506.8	11.46	132.532	
2,900.0	2,858.5	2,437.0	2,389.2	10.2	7.8	-167.84	645.1	-877.8	1,567.1	1,555.2	11.93	131.324	
3,000.0	2,956.3	2,509.1	2,457.9	10.7	8.2	-168.14	653.2	-898.4	1,616.2	1,603.8	12.38	130.542	
3,100.0	3,054.1	2,570.0	2,515.5	11.2	8.6	-168.38	660.8	-916.5	1,666.6	1,653.8	12.81	130.152	
3,200.0	3,151.9	2,631.0	2,572.9	11.6	9.0	-168.59	669.0	-935.2	1,718.4	1,705.2	13.24	129.792	
3,300.0	3,249.7	2,703.6	2,641.1	12.1	9.5	-168.82	679.4	-957.9	1,771.1	1,757.4	13.70	129.282	
3,400.0	3,347.5	2,833.3	2,763.1	12.5	10.4	-169.16	698.8	-997.4	1,823.7	1,809.5	14.28	127.701	
3,500.0	3,445.3	2,917.3	2,842.7	13.0	10.9	-169.37	710.5	-1,021.7	1,874.4	1,859.6	14.75	127.061	
3,600.0	3,543.2	3,011.5	2,931.9	13.5	11.5	-169.60	723.6	-1,049.1	1,925.3	1,910.1	15.25	126.232	
3,700.0	3,641.0	3,120.6	3,035.4	13.9	12.1	-169.84	738.4	-1,080.0	1,975.4	1,959.6	15.78	125.197	
3,800.0	3,738.8	3,221.0	3,131.1	14.4	12.7	-170.06	751.1	-1,107.6	2,024.4	2,008.2	16.28	124.323	
3,900.0	3,836.6	3,300.0	3,206.4	14.8	13.2	-170.23	760.8	-1,129.3	2,073.4	2,056.7	16.75	123.787	
4,000.0	3,934.4	3,389.0	3,291.2	15.3	13.7	-170.42	771.8	-1,154.3	2,122.8	2,105.6	17.25	123.091	
4,100.0	4,032.2	3,457.5	3,356.3	15.8	14.2	-170.58	779.9	-1,173.9	2,172.4	2,154.7	17.69	122.794	
4,159.1	4,090.0	3,501.0	3,397.6	16.0	14.4	-170.67	785.4	-1,186.5	2,202.2	2,184.2	17.96	122.593	
4,200.0	4,130.1	3,528.8	3,423.9	16.2	14.6	-170.80	789.1	-1,194.6	2,222.6	2,204.4	18.17	122.310	
4,300.0	4,228.5	3,637.9	3,527.4	16.5	15.3	-171.15	803.3	-1,226.1	2,270.3	2,251.5	18.75	121.070	
4,400.0	4,327.5	3,822.7	3,704.5	16.8	16.3	-171.48	826.5	-1,273.4	2,311.5	2,292.0	19.49	118.608	
4,500.0	4,426.9	3,888.2	3,767.4	17.0	16.7	-171.64	834.8	-1,289.5	2,349.2	2,329.3	19.92	117.962	
4,600.0	4,526.6	3,967.0	3,843.0	17.2	17.1	-171.77	845.7	-1,309.0	2,384.4	2,364.1	20.36	117.123	
4,700.0	4,626.6	4,047.5	3,920.1	17.3	17.6	-171.88	857.2	-1,329.2	2,417.0	2,396.2	20.78	116.299	
4,759.3	4,685.8	4,129.4	3,998.4	17.4	18.1	-60.95	868.8	-1,349.9	2,434.7	2,399.4	35.33	68.913	
4,800.0	4,726.5	4,193.7	4,060.2	17.5	18.4	-60.95	877.3	-1,365.6	2,446.0	2,410.3	35.73	68.459	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 705-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,826.5	4,310.1	4,172.3	17.6	19.0	-61.04	889.3	-1,394.5	2,472.7	2,436.2	36.48	67.789		
5,000.0	4,926.5	4,474.8	4,331.5	17.7	19.9	-61.17	904.7	-1,433.9	2,498.4	2,460.9	37.44	66.725		
5,100.0	5,026.5	4,785.4	4,635.6	17.8	21.2	-61.41	925.6	-1,493.1	2,518.8	2,479.9	38.85	64.826		
5,200.0	5,126.5	5,073.2	4,921.2	18.0	22.0	-61.54	936.7	-1,526.1	2,530.8	2,491.0	39.79	63.610		
5,300.0	5,226.5	5,317.1	5,164.8	18.1	22.4	-61.61	939.9	-1,537.9	2,535.0	2,494.7	40.33	62.861		
5,400.0	5,326.5	5,424.9	5,272.6	18.2	22.5	-61.63	940.0	-1,540.7	2,537.4	2,496.8	40.60	62.497		
5,500.0	5,426.5	5,527.9	5,375.5	18.3	22.7	-61.67	939.8	-1,543.2	2,539.5	2,498.6	40.87	62.141		
5,600.0	5,526.5	5,639.5	5,487.1	18.5	22.8	-61.71	939.1	-1,546.0	2,541.4	2,500.2	41.14	61.767		
5,700.0	5,626.5	5,748.6	5,596.1	18.6	22.9	-61.75	938.3	-1,548.2	2,542.8	2,501.3	41.41	61.398		
5,800.0	5,726.5	5,852.8	5,700.3	18.8	23.1	-61.78	937.6	-1,550.0	2,544.0	2,502.3	41.68	61.042		
5,900.0	5,826.5	5,972.7	5,820.2	18.9	23.2	-61.81	936.7	-1,551.4	2,544.6	2,502.7	41.95	60.655		
6,000.0	5,926.5	6,080.9	5,928.4	19.0	23.3	-61.84	935.8	-1,552.0	2,544.8	2,502.6	42.21	60.287		
6,100.0	6,026.5	6,182.7	6,030.2	19.2	23.4	-61.86	935.0	-1,552.4	2,544.7	2,502.2	42.46	59.928		
6,200.0	6,126.5	6,282.2	6,129.6	19.3	23.5	-61.88	934.1	-1,552.8	2,544.6	2,501.9	42.71	59.574		
6,300.0	6,226.5	6,383.0	6,230.4	19.5	23.6	-61.90	933.1	-1,553.2	2,544.5	2,501.6	42.97	59.219		
6,400.0	6,326.5	6,488.6	6,336.1	19.6	23.8	-61.93	931.9	-1,553.6	2,544.3	2,501.1	43.23	58.854		
6,433.3	6,359.8	6,522.4	6,369.9	19.7	23.8	-61.94	931.5	-1,553.7	2,544.2	2,500.9	43.32	58.735		
6,450.0	6,376.5	6,539.4	6,386.9	19.7	23.8	28.06	931.3	-1,553.7	2,544.0	2,514.9	29.14	87.293		
6,500.0	6,426.5	6,589.9	6,437.4	19.7	23.9	28.19	930.7	-1,553.8	2,541.2	2,511.9	29.32	86.684		
6,550.0	6,476.0	6,639.5	6,487.0	19.7	23.9	28.46	930.1	-1,554.0	2,535.4	2,506.0	29.41	86.209		
6,600.0	6,525.0	6,687.7	6,535.1	19.7	24.0	28.90	929.6	-1,554.1	2,526.6	2,497.2	29.43	85.851		
6,650.0	6,573.3	6,734.0	6,581.4	19.7	24.0	29.50	929.1	-1,554.1	2,514.8	2,485.4	29.39	85.575		
6,700.0	6,620.4	6,780.2	6,627.7	19.6	24.1	30.29	928.8	-1,554.2	2,500.1	2,470.8	29.30	85.316		
6,750.0	6,666.3	6,826.6	6,674.0	19.6	24.1	31.28	928.3	-1,554.3	2,482.6	2,453.4	29.21	85.003		
6,800.0	6,710.7	6,871.0	6,718.4	19.5	24.2	32.47	927.7	-1,554.5	2,462.4	2,433.3	29.12	84.560		
6,850.0	6,753.4	6,912.9	6,760.3	19.4	24.2	33.89	927.2	-1,554.7	2,439.6	2,410.5	29.08	83.879		
6,900.0	6,794.2	6,953.5	6,800.9	19.3	24.3	35.58	926.7	-1,554.9	2,414.3	2,385.2	29.15	82.825		
6,950.0	6,832.9	6,995.0	6,842.4	19.3	24.3	37.59	926.1	-1,555.1	2,386.7	2,357.3	29.38	81.235		
7,000.0	6,869.2	7,034.0	6,881.5	19.2	24.4	39.94	925.4	-1,555.3	2,356.9	2,327.1	29.82	79.032		
7,050.0	6,903.1	7,065.3	6,912.7	19.2	24.4	42.57	924.8	-1,555.5	2,325.1	2,294.6	30.49	76.246		
7,100.0	6,934.3	7,093.3	6,940.7	19.2	24.4	45.58	924.3	-1,555.7	2,291.6	2,260.1	31.46	72.850		
7,150.0	6,962.8	7,119.0	6,966.4	19.3	24.5	49.01	923.8	-1,556.0	2,256.5	2,223.7	32.73	68.940		
7,200.0	6,988.3	7,143.5	6,990.9	19.5	24.5	52.92	923.4	-1,556.2	2,220.0	2,185.7	34.32	64.681		
7,250.0	7,010.7	7,166.9	7,014.3	19.7	24.5	57.33	923.0	-1,556.5	2,182.4	2,146.2	36.19	60.306		
7,300.0	7,029.9	7,187.0	7,034.4	20.0	24.6	62.18	922.6	-1,556.7	2,143.8	2,105.6	38.22	56.098		
7,350.0	7,045.9	7,203.8	7,051.2	20.4	24.6	67.39	922.3	-1,556.8	2,104.5	2,064.3	40.27	52.255		
7,400.0	7,058.6	7,217.2	7,064.6	20.8	24.6	72.87	922.1	-1,557.0	2,064.8	2,022.5	42.22	48.904		
7,450.0	7,067.8	7,227.1	7,074.5	21.4	24.6	78.48	922.0	-1,557.0	2,024.7	1,980.8	43.92	46.101		
7,500.0	7,073.6	7,233.5	7,080.9	22.0	24.6	84.06	921.8	-1,557.1	1,984.7	1,939.4	45.27	43.837		
7,550.0	7,076.0	7,236.4	7,083.8	22.7	24.6	89.45	921.8	-1,557.1	1,944.9	1,898.7	46.24	42.058		
7,561.7	7,076.0	7,236.5	7,083.9	22.9	24.6	90.67	921.8	-1,557.1	1,935.6	1,889.2	46.42	41.701		
7,600.0	7,075.8	7,236.7	7,084.1	23.4	24.6	90.67	921.8	-1,557.1	1,905.6	1,858.6	47.01	40.538		
7,700.0	7,075.3	7,237.1	7,084.5	25.1	24.6	90.70	921.8	-1,557.1	1,828.4	1,779.7	48.70	37.542		
7,800.0	7,074.8	7,237.6	7,084.9	27.0	24.6	90.72	921.8	-1,557.1	1,753.5	1,703.0	50.58	34.666		
7,900.0	7,074.4	7,238.0	7,085.4	29.0	24.6	90.74	921.8	-1,557.1	1,681.3	1,628.7	52.62	31.954		
8,000.0	7,073.9	7,238.4	7,085.8	31.1	24.6	90.76	921.8	-1,557.2	1,612.0	1,557.3	54.77	29.434		
8,100.0	7,073.4	7,238.9	7,086.3	33.4	24.6	90.78	921.8	-1,557.2	1,546.1	1,489.1	57.02	27.116		
8,200.0	7,072.9	7,239.3	7,086.7	35.7	24.6	90.80	921.7	-1,557.2	1,484.0	1,424.7	59.35	25.006		
8,300.0	7,072.4	7,239.7	7,087.1	38.1	24.6	90.82	921.7	-1,557.2	1,426.3	1,364.5	61.74	23.100		
8,400.0	7,071.9	7,240.2	7,087.6	40.6	24.6	90.84	921.7	-1,557.2	1,373.4	1,309.2	64.19	21.395		
8,500.0	7,071.5	7,240.6	7,088.0	43.1	24.6	90.86	921.7	-1,557.2	1,325.9	1,259.2	66.68	19.884		
8,600.0	7,071.0	7,241.1	7,088.4	45.6	24.6	90.89	921.7	-1,557.2	1,284.5	1,215.3	69.21	18.559		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WEDCO #13-21DU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 705-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.0	7,070.5	7,241.5	7,088.9	48.1	24.6	90.91	921.7	-1,557.2	1,249.7	1,177.9	71.77	17.413	
8,800.0	7,070.0	7,241.9	7,089.3	50.7	24.6	90.93	921.7	-1,557.2	1,222.1	1,147.8	74.35	16.437	
8,900.0	7,069.5	7,242.4	7,089.7	53.3	24.6	90.95	921.7	-1,557.2	1,202.3	1,125.3	76.96	15.622	
9,000.0	7,069.0	7,242.8	7,090.2	56.0	24.6	90.97	921.7	-1,557.2	1,190.5	1,110.9	79.59	14.958	
9,090.7	7,068.6	7,243.2	7,090.6	58.4	24.6	90.99	921.7	-1,557.2	1,187.1	1,105.1	81.99	14.479	
9,100.0	7,068.6	7,243.2	7,090.6	58.6	24.6	90.99	921.7	-1,557.2	1,187.1	1,104.9	82.23	14.436	
9,200.0	7,068.1	7,243.7	7,091.1	61.3	24.6	91.01	921.7	-1,557.2	1,192.1	1,107.2	84.89	14.042	
9,300.0	7,067.6	7,244.1	7,091.5	63.9	24.6	91.03	921.7	-1,557.2	1,205.4	1,117.8	87.56	13.766	
9,400.0	7,067.1	7,244.5	7,091.9	66.6	24.6	91.05	921.7	-1,557.2	1,226.7	1,136.4	90.24	13.593	
9,500.0	7,066.6	7,245.0	7,092.4	69.3	24.6	91.07	921.6	-1,557.2	1,255.6	1,162.7	92.94	13.511	
9,600.0	7,066.1	7,245.4	7,092.8	72.0	24.6	91.10	921.6	-1,557.2	1,291.7	1,196.1	95.64	13.506 SF	
9,700.0	7,065.6	7,245.8	7,093.2	74.7	24.6	91.12	921.6	-1,557.2	1,334.3	1,236.0	98.35	13.567	
9,800.0	7,065.2	7,246.3	7,093.7	77.5	24.6	91.14	921.6	-1,557.2	1,382.8	1,281.8	101.06	13.683	
9,900.0	7,064.7	7,246.7	7,094.1	80.2	24.6	91.16	921.6	-1,557.2	1,436.7	1,332.9	103.79	13.843	
10,000.0	7,064.2	7,247.1	7,094.5	82.9	24.6	91.18	921.6	-1,557.2	1,495.3	1,388.8	106.51	14.039	
10,100.0	7,063.7	7,247.6	7,095.0	85.6	24.6	91.20	921.6	-1,557.2	1,558.1	1,448.9	109.25	14.263	
10,200.0	7,063.2	7,248.0	7,095.4	88.4	24.6	91.22	921.6	-1,557.2	1,624.7	1,512.7	111.98	14.508	
10,300.0	7,062.7	7,248.5	7,095.8	91.1	24.6	91.24	921.6	-1,557.2	1,694.6	1,579.8	114.73	14.771	
10,400.0	7,062.3	7,248.9	7,096.3	93.9	24.6	91.26	921.6	-1,557.2	1,767.3	1,649.8	117.47	15.045	
10,500.0	7,061.8	7,249.3	7,096.7	96.6	24.6	91.28	921.6	-1,557.3	1,842.6	1,722.4	120.22	15.327	
10,600.0	7,061.3	7,249.8	7,097.1	99.4	24.6	91.31	921.6	-1,557.3	1,920.2	1,797.2	122.97	15.615	
10,700.0	7,060.8	7,250.2	7,097.6	102.1	24.6	91.33	921.6	-1,557.3	1,999.7	1,874.0	125.73	15.905	
10,800.0	7,060.3	7,250.6	7,098.0	104.9	24.6	91.35	921.5	-1,557.3	2,081.1	1,952.6	128.49	16.197	
10,900.0	7,059.8	7,251.1	7,098.4	107.6	24.6	91.37	921.5	-1,557.3	2,164.0	2,032.7	131.25	16.488	
11,000.0	7,059.4	7,251.5	7,098.9	110.4	24.6	91.39	921.5	-1,557.3	2,248.2	2,114.2	134.01	16.777	
11,100.0	7,058.9	7,251.9	7,099.3	113.2	24.6	91.41	921.5	-1,557.3	2,333.8	2,197.0	136.77	17.063	
11,200.0	7,058.4	7,252.4	7,099.8	115.9	24.6	91.43	921.5	-1,557.3	2,420.4	2,280.8	139.54	17.345	
11,300.0	7,057.9	7,252.8	7,100.2	118.7	24.6	91.45	921.5	-1,557.3	2,508.0	2,365.7	142.31	17.624	
11,400.0	7,057.4	7,253.2	7,100.6	121.5	24.6	91.47	921.5	-1,557.3	2,596.5	2,451.5	145.08	17.897	
11,500.0	7,056.9	7,253.7	7,101.1	124.3	24.6	91.49	921.5	-1,557.3	2,685.9	2,538.0	147.85	18.166	
11,600.0	7,056.5	7,254.1	7,101.5	127.0	24.6	91.52	921.5	-1,557.3	2,775.9	2,625.3	150.63	18.429	
11,688.2	7,056.0	7,254.5	7,101.8	129.5	24.6	91.53	921.5	-1,557.3	2,855.9	2,702.8	153.07	18.657	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WEDCO 14-21DU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 704-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-50.70	469.6	-573.8	741.5				
100.0	100.0	100.9	100.9	0.1	0.1	-50.71	469.6	-573.9	741.5	741.3	0.20	3,668.737	
200.0	200.0	200.3	200.3	0.3	0.2	-50.72	469.5	-574.0	741.6	741.1	0.53	1,398.672	
300.0	300.0	299.8	299.8	0.5	0.3	-50.74	469.5	-574.4	741.8	741.0	0.86	864.234	
400.0	400.0	399.2	399.2	0.8	0.4	-50.76	469.4	-574.8	742.1	740.9	1.19	625.459	
500.0	500.0	498.6	498.6	1.0	0.5	-50.80	469.3	-575.3	742.4	740.9	1.51	490.192	
600.0	600.0	598.0	598.0	1.2	0.6	-50.84	469.1	-576.0	742.9	741.0	1.84	403.139	
700.0	700.0	697.4	697.4	1.4	0.7	-161.90	469.0	-576.8	745.0	742.9	2.16	345.099	
800.0	799.8	788.9	788.9	1.6	0.9	-162.10	468.3	-578.6	751.1	748.5	2.56	292.861	
900.0	899.5	890.0	889.9	1.9	1.2	-162.58	465.7	-582.5	760.8	757.8	3.01	252.948	
1,000.0	998.7	983.0	982.6	2.1	1.4	-163.26	461.4	-587.9	774.2	770.8	3.45	224.347	
1,100.0	1,097.5	1,077.0	1,076.0	2.4	1.6	-164.21	454.9	-596.0	792.0	788.0	3.93	201.469	
1,200.0	1,195.6	1,156.8	1,154.9	2.7	1.9	-165.19	447.9	-605.2	814.5	810.1	4.40	184.929	
1,200.1	1,195.8	1,156.9	1,155.1	2.7	1.9	-165.19	447.9	-605.2	814.5	810.1	4.40	184.909	
1,300.0	1,293.4	1,247.4	1,244.2	3.1	2.2	-166.59	438.5	-617.9	840.2	835.3	4.94	170.060	
1,400.0	1,391.3	1,328.9	1,323.9	3.5	2.5	-167.94	428.4	-631.1	867.2	861.7	5.48	158.204	
1,500.0	1,489.1	1,437.1	1,429.3	4.0	3.0	-169.80	412.9	-650.4	895.4	889.2	6.13	146.056	
1,600.0	1,586.9	1,521.7	1,511.2	4.4	3.4	-171.31	398.4	-665.8	923.1	916.3	6.72	137.276	
1,700.0	1,684.7	1,622.6	1,608.0	4.8	3.9	-173.22	378.5	-686.0	952.0	944.6	7.44	128.021	
1,800.0	1,782.5	1,705.3	1,686.9	5.3	4.3	-174.80	360.5	-703.0	981.3	973.3	8.07	121.595	
1,900.0	1,880.3	1,785.3	1,763.2	5.7	4.8	-176.24	343.6	-720.1	1,012.5	1,003.8	8.69	116.488	
2,000.0	1,978.1	1,875.3	1,849.1	6.1	5.2	-177.75	325.3	-739.9	1,045.2	1,035.9	9.33	111.971	
2,100.0	2,075.9	1,958.9	1,928.9	6.6	5.6	-179.06	308.4	-758.0	1,078.4	1,068.4	9.95	108.388	
2,200.0	2,173.8	2,036.4	2,002.8	7.0	6.1	179.78	293.2	-775.9	1,113.4	1,102.9	10.56	105.457	
2,300.0	2,271.6	2,134.1	2,095.8	7.5	6.6	178.39	273.9	-798.7	1,149.3	1,138.0	11.28	101.920	
2,400.0	2,369.4	2,237.0	2,194.0	8.0	7.2	177.00	252.9	-821.4	1,184.4	1,172.4	11.99	98.797	
2,500.0	2,467.2	2,319.7	2,272.9	8.4	7.7	175.97	236.4	-839.6	1,220.0	1,207.4	12.61	96.758	
2,600.0	2,565.0	2,404.6	2,354.0	8.9	8.1	174.97	219.8	-858.9	1,256.7	1,243.5	13.25	94.833	
2,700.0	2,662.8	2,496.0	2,441.0	9.3	8.7	173.93	201.3	-879.4	1,293.5	1,279.6	13.93	92.864	
2,800.0	2,760.6	2,569.0	2,510.4	9.8	9.1	173.14	186.8	-897.0	1,332.0	1,317.5	14.53	91.661	
2,900.0	2,858.5	2,651.4	2,588.6	10.2	9.6	172.28	170.7	-917.5	1,371.7	1,356.5	15.17	90.415	
3,000.0	2,956.3	2,742.9	2,675.4	10.7	10.1	171.37	152.4	-939.9	1,411.3	1,395.5	15.85	89.042	
3,100.0	3,054.1	2,854.7	2,781.8	11.2	10.8	170.36	130.6	-966.3	1,450.5	1,433.9	16.60	87.400	
3,200.0	3,151.9	2,932.0	2,855.5	11.6	11.2	169.71	115.7	-984.2	1,489.6	1,472.4	17.20	86.624	
3,300.0	3,249.7	3,043.9	2,961.8	12.1	11.9	168.74	92.4	-1,010.2	1,528.8	1,510.8	17.98	85.031	
3,400.0	3,347.5	3,127.0	3,040.7	12.5	12.4	168.03	74.4	-1,029.2	1,567.7	1,549.1	18.63	84.154	
3,500.0	3,445.3	3,213.7	3,123.3	13.0	12.9	167.38	57.0	-1,049.1	1,607.1	1,587.9	19.27	83.394	
3,600.0	3,543.2	3,290.6	3,196.7	13.5	13.3	166.87	42.8	-1,067.0	1,647.2	1,627.3	19.87	82.914	
3,700.0	3,641.0	3,406.0	3,306.7	13.9	14.0	166.12	20.7	-1,093.8	1,687.4	1,666.7	20.63	81.788	
3,800.0	3,738.8	3,478.7	3,375.9	14.4	14.4	165.62	5.6	-1,110.4	1,727.2	1,705.9	21.24	81.330	
3,900.0	3,836.6	3,543.5	3,437.3	14.8	14.8	165.19	-7.9	-1,126.0	1,768.2	1,746.4	21.81	81.070	
4,000.0	3,934.4	3,592.0	3,483.2	15.3	15.1	164.89	-17.6	-1,138.3	1,810.9	1,788.6	22.32	81.149	
4,100.0	4,032.2	3,664.3	3,551.6	15.8	15.6	164.48	-31.0	-1,157.6	1,855.0	1,832.1	22.91	80.970	
4,159.1	4,090.0	3,703.7	3,588.8	16.0	15.8	164.29	-37.7	-1,168.7	1,881.7	1,858.5	23.24	80.953	
4,200.0	4,130.1	3,735.8	3,619.1	16.2	16.1	164.25	-43.1	-1,177.8	1,900.1	1,876.6	23.54	80.724	
4,300.0	4,228.5	3,824.3	3,702.5	16.5	16.6	164.05	-58.5	-1,203.1	1,943.3	1,919.1	24.26	80.099	
4,400.0	4,327.5	3,941.7	3,812.4	16.8	17.4	163.57	-82.9	-1,236.2	1,983.1	1,958.0	25.08	79.054	
4,500.0	4,426.9	4,055.9	3,919.8	17.0	18.1	163.08	-107.1	-1,266.7	2,018.5	1,992.6	25.85	78.098	
4,600.0	4,526.6	4,152.0	4,010.4	17.2	18.7	162.68	-127.4	-1,291.6	2,050.1	2,023.6	26.49	77.400	
4,700.0	4,626.6	4,216.8	4,071.5	17.3	19.1	162.49	-140.2	-1,308.7	2,079.4	2,052.4	26.95	77.152	
4,759.3	4,685.8	4,258.9	4,111.2	17.4	19.4	-86.67	-148.0	-1,320.5	2,096.1	2,063.4	32.69	64.125	
4,800.0	4,726.5	4,316.6	4,165.5	17.5	19.8	-87.01	-159.3	-1,336.4	2,107.2	2,074.1	33.08	63.695	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 704-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,428.0	4,270.3	17.6	20.5	-87.70	-182.5	-1,366.1	2,133.5	2,099.6	33.86	63.011	
5,000.0	4,926.5	4,615.9	4,449.1	17.7	21.6	-88.75	-219.2	-1,410.9	2,156.8	2,121.8	34.98	61.654	
5,100.0	5,026.5	4,821.6	4,647.3	17.8	22.6	-89.77	-256.8	-1,450.9	2,176.0	2,139.9	36.06	60.342	
5,200.0	5,126.5	4,954.9	4,777.1	18.0	23.2	-90.33	-277.7	-1,472.6	2,192.4	2,155.7	36.74	59.677	
5,300.0	5,226.5	5,138.4	4,956.8	18.1	23.9	-91.02	-304.1	-1,499.0	2,207.6	2,170.0	37.56	58.778	
5,400.0	5,326.5	5,362.0	5,178.5	18.2	24.6	-91.55	-324.9	-1,519.0	2,216.4	2,178.1	38.31	57.856	
5,500.0	5,426.5	5,612.8	5,428.8	18.3	25.0	-91.70	-331.1	-1,526.9	2,219.3	2,180.5	38.84	57.141	
5,600.0	5,526.5	5,712.9	5,529.0	18.5	25.0	-91.68	-330.2	-1,526.7	2,219.2	2,180.1	39.08	56.788	
5,614.7	5,541.2	5,726.7	5,542.7	18.5	25.1	-91.68	-330.1	-1,526.7	2,219.2	2,180.1	39.11	56.737	
5,700.0	5,626.5	5,798.9	5,615.0	18.6	25.1	-91.67	-329.7	-1,526.9	2,219.4	2,180.1	39.31	56.455	
5,800.0	5,726.5	5,898.5	5,714.6	18.8	25.2	-91.66	-329.7	-1,527.7	2,220.2	2,180.6	39.57	56.105	
5,900.0	5,826.5	5,993.6	5,809.7	18.9	25.3	-91.67	-329.9	-1,528.3	2,220.8	2,181.0	39.83	55.756	
6,000.0	5,926.5	6,089.8	5,905.9	19.0	25.4	-91.68	-330.4	-1,529.2	2,221.7	2,181.6	40.10	55.407	
6,100.0	6,026.5	6,194.0	6,010.1	19.2	25.5	-91.70	-331.2	-1,530.1	2,222.7	2,182.3	40.38	55.045	
6,200.0	6,126.5	6,297.4	6,113.5	19.3	25.7	-91.72	-331.9	-1,530.9	2,223.4	2,182.7	40.66	54.687	
6,300.0	6,226.5	6,400.7	6,216.8	19.5	25.8	-91.73	-332.4	-1,531.4	2,224.0	2,183.0	40.94	54.329	
6,400.0	6,326.5	6,501.7	6,317.7	19.6	25.9	-91.74	-332.8	-1,531.9	2,224.4	2,183.2	41.21	53.976	
6,433.3	6,359.8	6,534.4	6,350.4	19.7	25.9	-91.74	-332.8	-1,532.1	2,224.6	2,183.3	41.30	53.860	
6,450.0	6,376.5	6,550.8	6,366.9	19.7	25.9	-1.74	-332.8	-1,532.1	2,224.5	2,189.2	35.32	62.981	
6,500.0	6,426.5	6,598.6	6,414.7	19.7	26.0	-1.75	-332.8	-1,532.4	2,221.8	2,186.5	35.37	62.823	
6,550.0	6,476.0	6,644.8	6,460.8	19.7	26.0	-1.77	-332.9	-1,532.7	2,215.8	2,180.5	35.26	62.848	
6,600.0	6,525.0	6,692.1	6,508.1	19.7	26.1	-1.81	-333.0	-1,533.1	2,206.4	2,171.4	34.99	63.049	
6,650.0	6,573.3	6,740.4	6,556.4	19.7	26.1	-1.85	-333.1	-1,533.5	2,193.6	2,159.0	34.59	63.424	
6,700.0	6,620.4	6,788.6	6,604.6	19.6	26.2	-1.92	-333.3	-1,533.9	2,177.4	2,143.4	34.03	63.982	
6,750.0	6,666.3	6,836.1	6,652.2	19.6	26.3	-1.99	-333.3	-1,534.2	2,158.0	2,124.6	33.34	64.730	
6,800.0	6,710.7	6,884.1	6,700.2	19.5	26.3	-2.09	-333.4	-1,534.5	2,135.3	2,102.8	32.51	65.671	
6,850.0	6,753.4	6,931.5	6,747.6	19.4	26.4	-2.21	-333.4	-1,534.8	2,109.5	2,077.9	31.57	66.816	
6,900.0	6,794.2	6,974.5	6,790.6	19.3	26.4	-2.36	-333.5	-1,534.9	2,080.7	2,050.2	30.52	68.182	
6,950.0	6,832.9	7,014.2	6,830.2	19.3	26.5	-2.54	-333.6	-1,535.0	2,049.1	2,019.8	29.37	69.776	
7,000.0	6,869.2	7,050.9	6,866.9	19.2	26.5	-2.76	-333.6	-1,535.0	2,014.9	1,986.8	28.14	71.599	
7,050.0	6,903.1	7,083.8	6,899.8	19.2	26.5	-3.03	-333.7	-1,535.1	1,978.3	1,951.4	26.86	73.644	
7,100.0	6,934.3	7,114.1	6,930.2	19.2	26.6	-3.38	-333.8	-1,535.2	1,939.3	1,913.8	25.56	75.881	
7,150.0	6,962.8	7,142.1	6,958.2	19.3	26.6	-3.82	-333.9	-1,535.3	1,898.3	1,874.1	24.26	78.243	
7,200.0	6,988.3	7,167.9	6,984.0	19.5	26.6	-4.41	-334.1	-1,535.3	1,855.4	1,832.4	23.02	80.604	
7,250.0	7,010.7	7,190.7	7,006.7	19.7	26.7	-5.19	-334.2	-1,535.4	1,810.9	1,789.0	21.88	82.749	
7,300.0	7,029.9	7,210.2	7,026.2	20.0	26.7	-6.29	-334.3	-1,535.5	1,764.8	1,743.9	20.94	84.294	
7,350.0	7,045.9	7,226.4	7,042.5	20.4	26.7	-7.93	-334.4	-1,535.5	1,717.5	1,697.2	20.31	84.561	
7,400.0	7,058.6	7,240.1	7,056.2	20.8	26.7	-10.62	-334.5	-1,535.5	1,669.3	1,649.0	20.29	82.265	
7,450.0	7,067.8	7,250.1	7,066.1	21.4	26.7	-15.68	-334.5	-1,535.6	1,620.2	1,598.5	21.64	74.869	
7,500.0	7,073.6	7,256.4	7,072.4	22.0	26.7	-28.03	-334.5	-1,535.6	1,570.6	1,543.4	27.24	57.660	
7,550.0	7,076.0	7,258.9	7,075.0	22.7	26.7	-73.89	-334.5	-1,535.6	1,520.7	1,476.1	44.61	34.087	
7,561.7	7,076.0	7,259.0	7,075.0	22.9	26.7	-93.98	-334.5	-1,535.6	1,509.0	1,463.4	45.57	33.114	
7,600.0	7,075.8	7,258.9	7,074.9	23.4	26.7	-93.87	-334.5	-1,535.6	1,470.8	1,424.6	46.17	31.857	
7,700.0	7,075.3	7,258.5	7,074.5	25.1	26.7	-93.57	-334.5	-1,535.6	1,370.9	1,323.0	47.88	28.631	
7,800.0	7,074.8	7,258.1	7,074.2	27.0	26.7	-93.28	-334.5	-1,535.6	1,271.0	1,221.2	49.78	25.532	
7,900.0	7,074.4	7,257.8	7,073.8	29.0	26.7	-92.98	-334.5	-1,535.6	1,171.2	1,119.4	51.83	22.595	
8,000.0	7,073.9	7,257.4	7,073.5	31.1	26.7	-92.69	-334.5	-1,535.6	1,071.4	1,017.4	54.00	19.839	
8,100.0	7,073.4	7,257.1	7,073.1	33.4	26.7	-92.41	-334.5	-1,535.6	971.6	915.3	56.27	17.266	
8,200.0	7,072.9	7,256.7	7,072.8	35.7	26.7	-92.12	-334.5	-1,535.6	871.9	813.3	58.62	14.874	
8,300.0	7,072.4	7,256.4	7,072.4	38.1	26.7	-91.84	-334.5	-1,535.6	772.3	711.2	61.03	12.653	
8,400.0	7,071.9	7,256.1	7,072.1	40.6	26.7	-91.56	-334.5	-1,535.6	672.7	609.2	63.49	10.595	
8,500.0	7,071.5	7,255.7	7,071.8	43.1	26.7	-91.28	-334.5	-1,535.6	573.3	507.3	66.00	8.687	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST DD WEDCO 14-21DU - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 704-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	7,255.4	7,071.4	45.6	26.7	-91.00	-334.5	-1,535.6	474.2	405.7	68.54	6.919	
8,700.0	7,070.5	7,255.0	7,071.1	48.1	26.7	-90.73	-334.5	-1,535.6	375.6	304.5	71.12	5.281	
8,800.0	7,070.0	7,254.7	7,070.8	50.7	26.7	-90.45	-334.5	-1,535.6	277.9	204.2	73.71	3.770	
8,900.0	7,069.5	7,254.4	7,070.4	53.3	26.7	-90.18	-334.5	-1,535.6	182.8	106.5	76.33	2.395	
9,000.0	7,069.0	7,254.1	7,070.1	56.0	26.7	-89.92	-334.5	-1,535.6	97.9	18.9	78.97	1.240	Level 2
9,069.1	7,068.7	7,253.8	7,069.9	57.8	26.7	-89.73	-334.5	-1,535.6	69.3	-11.5	80.80	0.858	Level 1, CC, ES, SF
9,100.0	7,068.6	7,253.7	7,069.8	58.6	26.7	-89.65	-334.5	-1,535.6	75.9	-5.7	81.62	0.930	Level 1
9,200.0	7,068.1	7,253.4	7,069.5	61.3	26.7	-89.39	-334.5	-1,535.6	148.1	63.8	84.28	1.757	
9,300.0	7,067.6	7,253.1	7,069.1	63.9	26.7	-89.12	-334.5	-1,535.6	241.0	154.1	86.96	2.772	
9,400.0	7,067.1	7,252.8	7,068.8	66.6	26.7	-88.87	-334.5	-1,535.6	338.0	248.4	89.64	3.771	
9,500.0	7,066.6	7,252.5	7,068.5	69.3	26.7	-88.61	-334.5	-1,535.6	436.4	344.1	92.34	4.726	
9,600.0	7,066.1	7,252.2	7,068.2	72.0	26.7	-88.35	-334.5	-1,535.6	535.4	440.3	95.03	5.633	
9,700.0	7,065.6	7,251.9	7,067.9	74.7	26.7	-88.10	-334.5	-1,535.6	634.7	536.9	97.74	6.493	
9,800.0	7,065.2	7,251.6	7,067.6	77.5	26.7	-87.85	-334.5	-1,535.6	734.1	633.7	100.45	7.309	
9,900.0	7,064.7	7,251.3	7,067.3	80.2	26.7	-87.60	-334.5	-1,535.6	833.7	730.6	103.16	8.082	
10,000.0	7,064.2	7,251.0	7,067.0	82.9	26.7	-87.35	-334.5	-1,535.6	933.4	827.6	105.87	8.816	
10,100.0	7,063.7	7,250.7	7,066.7	85.6	26.7	-87.10	-334.5	-1,535.6	1,033.2	924.6	108.59	9.514	
10,200.0	7,063.2	7,250.4	7,066.4	88.4	26.7	-86.86	-334.5	-1,535.6	1,133.0	1,021.7	111.31	10.178	
10,300.0	7,062.7	7,250.1	7,066.1	91.1	26.7	-86.62	-334.5	-1,535.6	1,232.8	1,118.8	114.03	10.811	
10,400.0	7,062.3	7,249.8	7,065.8	93.9	26.7	-86.38	-334.5	-1,535.6	1,332.7	1,215.9	116.76	11.414	
10,500.0	7,061.8	7,249.5	7,065.5	96.6	26.7	-86.14	-334.5	-1,535.6	1,432.5	1,313.1	119.48	11.990	
10,600.0	7,061.3	7,249.2	7,065.2	99.4	26.7	-85.90	-334.5	-1,535.6	1,532.4	1,410.2	122.20	12.540	
10,700.0	7,060.8	7,248.9	7,065.0	102.1	26.7	-85.67	-334.5	-1,535.6	1,632.3	1,507.4	124.92	13.067	
10,800.0	7,060.3	7,248.6	7,064.7	104.9	26.7	-85.44	-334.5	-1,535.6	1,732.2	1,604.6	127.64	13.571	
10,900.0	7,059.8	7,248.3	7,064.4	107.6	26.7	-85.21	-334.5	-1,535.6	1,832.2	1,701.8	130.36	14.054	
11,000.0	7,059.4	7,248.1	7,064.1	110.4	26.7	-84.98	-334.5	-1,535.6	1,932.1	1,799.0	133.08	14.518	
11,100.0	7,058.9	7,247.8	7,063.8	113.2	26.7	-84.75	-334.5	-1,535.6	2,032.0	1,896.2	135.80	14.963	
11,200.0	7,058.4	7,247.5	7,063.6	115.9	26.7	-84.53	-334.5	-1,535.6	2,132.0	1,993.5	138.52	15.391	
11,300.0	7,057.9	7,247.3	7,063.3	118.7	26.7	-84.30	-334.5	-1,535.6	2,231.9	2,090.7	141.23	15.803	
11,400.0	7,057.4	7,247.0	7,063.0	121.5	26.7	-84.08	-334.5	-1,535.6	2,331.9	2,187.9	143.95	16.199	
11,500.0	7,056.9	7,246.7	7,062.8	124.3	26.7	-83.86	-334.5	-1,535.6	2,431.8	2,285.2	146.66	16.581	
11,600.0	7,056.5	7,246.5	7,062.5	127.0	26.7	-83.65	-334.5	-1,535.5	2,531.8	2,382.4	149.37	16.950	
11,688.2	7,056.0	7,246.2	7,062.2	129.5	26.7	-83.46	-334.5	-1,535.5	2,619.9	2,468.2	151.76	17.264	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-37.04	708.2	-534.5	887.4				
100.0	100.0	85.2	85.2	0.1	0.1	-37.04	708.3	-534.5	887.3	887.2	0.15	5,843.502 CC	
200.0	200.0	185.5	185.5	0.3	0.1	-37.06	708.2	-534.8	887.5	887.0	0.47	1,898.331	
300.0	300.0	287.3	287.3	0.5	0.2	-37.09	708.0	-535.2	887.5	886.7	0.78	1,142.714	
354.4	354.4	340.9	340.9	0.7	0.3	-37.10	707.9	-535.3	887.4	886.5	0.93	949.345	
400.0	400.0	385.4	385.4	0.8	0.3	-37.12	707.7	-535.6	887.5	886.4	1.07	833.128	
500.0	500.0	487.6	487.6	1.0	0.4	-37.18	707.1	-536.4	887.5	886.2	1.36	652.362	
538.3	538.3	524.8	524.8	1.1	0.4	-37.20	706.9	-536.6	887.5	886.0	1.47	603.867	
600.0	600.0	583.0	583.0	1.2	0.4	-37.25	706.6	-537.2	887.6	886.0	1.64	540.578 ES	
700.0	700.0	680.5	680.5	1.4	0.5	-148.34	706.3	-538.5	889.7	887.8	1.89	470.961	
800.0	799.8	787.8	787.8	1.6	0.5	-148.54	706.0	-539.5	894.5	892.3	2.14	418.059	
900.0	899.5	885.3	885.3	1.9	0.6	-148.82	705.2	-540.3	901.8	899.4	2.40	375.329	
1,000.0	998.7	987.7	987.7	2.1	0.6	-149.22	704.2	-541.5	912.2	909.6	2.68	339.926	
1,100.0	1,097.5	1,086.1	1,086.0	2.4	0.7	-149.67	703.1	-542.5	925.5	922.5	2.98	310.772	
1,200.0	1,195.6	1,177.7	1,177.6	2.7	0.7	-150.12	702.3	-543.5	942.1	938.9	3.29	286.164	
1,200.1	1,195.8	1,177.8	1,177.7	2.7	0.7	-150.12	702.3	-543.5	942.2	938.9	3.29	286.134	
1,300.0	1,293.4	1,277.6	1,277.5	3.1	0.8	-150.83	701.9	-544.8	960.8	957.2	3.59	267.385	
1,400.0	1,391.3	1,372.4	1,372.4	3.5	0.8	-151.48	701.2	-546.1	979.4	975.5	3.90	251.319	
1,500.0	1,489.1	1,475.0	1,474.9	4.0	0.8	-152.15	700.7	-547.3	998.3	994.1	4.20	237.510	
1,600.0	1,586.9	1,570.2	1,570.1	4.4	0.9	-152.76	699.8	-548.3	1,016.9	1,012.4	4.51	225.466	
1,700.0	1,684.7	1,666.6	1,666.4	4.8	0.9	-153.37	699.1	-549.8	1,036.0	1,031.2	4.82	214.846	
1,800.0	1,782.5	1,760.8	1,760.6	5.3	0.9	-153.93	698.5	-551.2	1,055.2	1,050.1	5.13	205.533	
1,900.0	1,880.3	1,857.4	1,857.3	5.7	1.0	-154.46	698.5	-552.5	1,075.0	1,069.5	5.45	197.316	
2,000.0	1,978.1	1,957.0	1,956.8	6.1	1.0	-154.99	698.4	-553.8	1,094.6	1,088.9	5.76	190.058	
2,100.0	2,075.9	2,056.7	2,056.5	6.6	1.1	-155.53	697.7	-555.4	1,114.2	1,108.1	6.08	183.355	
2,200.0	2,173.8	2,157.1	2,156.9	7.0	1.1	-156.05	697.0	-556.6	1,133.6	1,127.2	6.40	177.043	
2,300.0	2,271.6	2,253.3	2,253.2	7.5	1.2	-156.51	696.5	-557.5	1,153.0	1,146.3	6.73	171.392	
2,400.0	2,369.4	2,346.3	2,346.1	8.0	1.2	-156.95	696.1	-558.7	1,172.8	1,165.8	7.05	166.379	
2,500.0	2,467.2	2,442.5	2,442.3	8.4	1.3	-157.41	695.7	-560.4	1,193.0	1,185.6	7.37	161.873	
2,600.0	2,565.0	2,543.5	2,543.2	8.9	1.3	-157.86	695.2	-562.0	1,213.1	1,205.4	7.69	157.732	
2,700.0	2,662.8	2,641.5	2,641.3	9.3	1.4	-158.29	694.6	-563.3	1,233.0	1,225.0	8.01	153.948	
2,800.0	2,760.6	2,735.7	2,735.5	9.8	1.4	-158.69	694.2	-564.7	1,253.2	1,244.9	8.32	150.539	
2,900.0	2,858.5	2,829.8	2,829.5	10.2	1.5	-159.07	693.9	-566.3	1,273.7	1,265.1	8.64	147.413	
3,000.0	2,956.3	2,923.5	2,923.3	10.7	1.5	-159.44	693.8	-568.0	1,294.6	1,285.6	8.96	144.529	
3,100.0	3,054.1	3,018.6	3,018.3	11.2	1.6	-159.80	694.1	-569.9	1,315.7	1,306.5	9.27	141.891	
3,200.0	3,151.9	3,120.0	3,119.7	11.6	1.6	-160.17	694.2	-571.8	1,336.8	1,327.2	9.59	139.437	
3,300.0	3,249.7	3,219.1	3,218.8	12.1	1.6	-160.53	694.0	-573.6	1,357.7	1,347.8	9.90	137.139	
3,400.0	3,347.5	3,309.0	3,308.6	12.5	1.7	-160.83	694.2	-575.3	1,378.9	1,368.7	10.21	135.056	
3,500.0	3,445.3	3,400.0	3,399.6	13.0	1.7	-161.12	695.0	-577.2	1,400.7	1,390.2	10.52	133.133	
3,600.0	3,543.2	3,491.5	3,491.1	13.5	1.7	-161.39	696.1	-579.3	1,422.9	1,412.1	10.84	131.299	
3,700.0	3,641.0	3,584.2	3,583.7	13.9	1.8	-161.66	697.4	-581.7	1,445.5	1,434.4	11.15	129.600	
3,800.0	3,738.8	3,678.9	3,678.4	14.4	1.8	-161.93	698.9	-584.3	1,468.4	1,456.9	11.47	128.030	
3,900.0	3,836.6	3,774.0	3,773.5	14.8	1.9	-162.18	700.7	-586.8	1,491.4	1,479.6	11.78	126.558	
4,000.0	3,934.4	3,871.2	3,870.7	15.3	1.9	-162.42	702.7	-589.3	1,514.5	1,502.4	12.10	125.178	
4,100.0	4,032.2	3,969.3	3,968.6	15.8	1.9	-162.68	704.3	-592.2	1,537.6	1,525.2	12.41	123.883	
4,159.1	4,090.0	4,030.5	4,029.8	16.0	1.9	-162.84	705.0	-594.1	1,551.2	1,538.6	12.60	123.150	
4,200.0	4,130.1	4,075.5	4,074.8	16.2	2.0	-163.01	705.6	-595.3	1,560.2	1,547.5	12.70	122.870	
4,300.0	4,228.5	4,186.4	4,185.7	16.5	2.0	-163.34	706.9	-597.4	1,579.4	1,566.5	12.92	122.273	
4,400.0	4,327.5	4,286.0	4,285.2	16.8	2.0	-163.57	708.1	-598.8	1,594.8	1,581.7	13.12	121.570	
4,500.0	4,426.9	4,384.3	4,383.5	17.0	2.1	-163.75	709.2	-600.2	1,607.0	1,593.7	13.30	120.797	
4,600.0	4,526.6	4,490.3	4,489.5	17.2	2.1	-163.87	710.3	-601.6	1,615.7	1,602.2	13.48	119.902	
4,700.0	4,626.6	4,598.0	4,597.2	17.3	2.1	-163.93	711.3	-602.5	1,620.6	1,606.9	13.63	118.874	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 100-GYD_CT												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,759.3	4,685.8	4,654.3	4,653.5	17.4	2.2	-52.96	711.7	-603.0	1,621.8	1,602.8	19.00	85.341	
4,800.0	4,726.5	4,692.8	4,692.1	17.5	2.2	-52.96	711.9	-603.4	1,622.3	1,603.2	19.06	85.112	
4,900.0	4,826.5	4,787.5	4,786.7	17.6	2.2	-52.98	712.3	-604.8	1,623.8	1,604.6	19.20	84.553	
5,000.0	4,926.5	4,891.1	4,890.3	17.7	2.2	-53.00	712.8	-606.4	1,625.3	1,606.0	19.35	83.993	
5,100.0	5,026.5	4,996.1	4,995.3	17.8	2.3	-53.00	713.6	-607.5	1,626.6	1,607.1	19.50	83.418	
5,200.0	5,126.5	5,095.2	5,094.4	18.0	2.3	-53.00	714.3	-608.3	1,627.7	1,608.0	19.65	82.847	
5,300.0	5,226.5	5,194.1	5,193.3	18.1	2.3	-53.01	714.7	-609.5	1,628.8	1,609.0	19.80	82.274	
5,400.0	5,326.5	5,306.4	5,305.5	18.2	2.3	-53.03	714.8	-610.6	1,629.7	1,609.8	19.94	81.734	
5,500.0	5,426.5	5,416.7	5,415.9	18.3	2.3	-53.04	714.7	-610.8	1,629.8	1,609.7	20.08	81.164	
5,597.2	5,523.8	5,511.1	5,510.3	18.5	2.3	-53.04	714.7	-610.7	1,629.7	1,609.5	20.21	80.633	
5,600.0	5,526.5	5,513.8	5,513.0	18.5	2.3	-53.04	714.7	-610.7	1,629.7	1,609.5	20.22	80.618	
5,700.0	5,626.5	5,611.2	5,610.4	18.6	2.3	-53.03	715.0	-610.6	1,629.8	1,609.4	20.35	80.081	
5,800.0	5,726.5	5,711.2	5,710.3	18.8	2.3	-53.03	715.1	-610.7	1,630.0	1,609.5	20.49	79.537	
5,900.0	5,826.5	5,810.6	5,809.7	18.9	2.4	-53.06	714.5	-611.4	1,630.1	1,609.5	20.64	78.982	
6,000.0	5,926.5	5,905.6	5,904.8	19.0	2.4	-53.09	714.0	-612.2	1,630.5	1,609.7	20.81	78.363	
6,100.0	6,026.5	6,000.8	5,999.9	19.2	2.4	-53.11	714.0	-613.0	1,631.1	1,610.2	20.98	77.764	
6,200.0	6,126.5	6,116.9	6,116.0	19.3	2.4	-53.12	714.0	-613.4	1,631.5	1,610.3	21.13	77.224	
6,300.0	6,226.5	6,225.8	6,225.0	19.5	2.4	-53.12	713.5	-613.0	1,630.8	1,609.6	21.28	76.650	
6,400.0	6,326.5	6,316.8	6,316.0	19.6	2.4	-53.12	713.3	-612.6	1,630.4	1,609.0	21.42	76.105	
6,433.3	6,359.8	6,347.1	6,346.3	19.7	2.4	-53.12	713.3	-612.6	1,630.4	1,608.9	21.47	75.930	
6,437.7	6,364.3	6,351.2	6,350.3	19.7	2.4	36.88	713.3	-612.6	1,630.3	1,613.3	17.01	95.869	
6,450.0	6,376.5	6,362.4	6,361.5	19.7	2.4	36.89	713.3	-612.6	1,630.2	1,613.2	17.01	95.850	
6,500.0	6,426.5	6,409.2	6,408.4	19.7	2.4	37.06	713.5	-612.6	1,628.0	1,611.0	17.02	95.636	
6,550.0	6,476.0	6,462.6	6,461.8	19.7	2.4	37.46	713.6	-612.6	1,623.0	1,605.9	17.06	95.125	
6,600.0	6,525.0	6,515.4	6,514.6	19.7	2.4	38.07	713.5	-612.6	1,615.1	1,598.0	17.12	94.319	
6,650.0	6,573.3	6,567.3	6,566.5	19.7	2.4	38.92	713.3	-612.5	1,604.5	1,587.3	17.21	93.234	
6,700.0	6,620.4	6,617.0	6,616.1	19.6	2.4	40.01	713.0	-612.5	1,591.1	1,573.8	17.32	91.883	
6,750.0	6,666.3	6,663.3	6,662.4	19.6	2.4	41.33	712.7	-612.4	1,575.3	1,557.8	17.45	90.280	
6,800.0	6,710.7	6,708.1	6,707.3	19.5	2.4	42.91	712.3	-612.3	1,557.1	1,539.5	17.61	88.434	
6,850.0	6,753.4	6,751.2	6,750.4	19.4	2.4	44.77	711.9	-612.3	1,536.6	1,518.8	17.80	86.333	
6,900.0	6,794.2	6,792.4	6,791.5	19.3	2.4	46.92	711.5	-612.2	1,514.1	1,496.1	18.03	83.966	
6,950.0	6,832.9	6,828.9	6,828.0	19.3	2.5	49.32	711.2	-612.2	1,489.8	1,471.5	18.31	81.361	
7,000.0	6,869.2	6,862.7	6,861.8	19.2	2.5	52.00	710.8	-612.3	1,463.9	1,445.3	18.64	78.524	
7,050.0	6,903.1	6,894.3	6,893.5	19.2	2.5	54.97	710.6	-612.4	1,436.6	1,417.6	19.03	75.494	
7,100.0	6,934.3	6,923.7	6,922.8	19.2	2.5	58.20	710.3	-612.6	1,408.1	1,388.7	19.47	72.336	
7,150.0	6,962.8	6,950.5	6,949.6	19.3	2.5	61.68	710.1	-612.8	1,378.7	1,358.8	19.94	69.129	
7,200.0	6,988.3	6,974.7	6,973.8	19.5	2.5	65.34	709.9	-613.0	1,348.7	1,328.2	20.45	65.949	
7,250.0	7,010.7	7,000.0	6,999.1	19.7	2.5	69.29	709.7	-613.2	1,318.2	1,297.3	20.98	62.834	
7,300.0	7,029.9	7,015.5	7,014.7	20.0	2.5	72.97	709.6	-613.4	1,287.7	1,266.2	21.50	59.882	
7,350.0	7,045.9	7,031.8	7,030.9	20.4	2.5	76.77	709.5	-613.5	1,257.2	1,235.2	22.04	57.032	
7,400.0	7,058.6	7,044.7	7,043.8	20.8	2.5	80.41	709.4	-613.6	1,227.3	1,204.7	22.61	54.281	
7,450.0	7,067.8	7,054.2	7,053.3	21.4	2.5	83.79	709.4	-613.7	1,198.1	1,174.8	23.22	51.600	
7,500.0	7,073.6	7,060.2	7,059.3	22.0	2.5	86.86	709.3	-613.7	1,169.9	1,146.0	23.89	48.977	
7,550.0	7,076.0	7,062.8	7,062.0	22.7	2.5	89.56	709.3	-613.8	1,143.0	1,118.4	24.62	46.432	
7,561.7	7,076.0	7,063.0	7,062.1	22.9	2.5	90.14	709.3	-613.8	1,136.9	1,112.1	24.80	45.849	
7,600.0	7,075.8	7,063.0	7,062.2	23.4	2.5	90.15	709.3	-613.8	1,117.7	1,092.3	25.39	44.026	
7,700.0	7,075.3	7,063.3	7,062.4	25.1	2.5	90.16	709.3	-613.8	1,072.3	1,045.2	27.08	39.594	
7,800.0	7,074.8	7,063.5	7,062.6	27.0	2.5	90.17	709.3	-613.8	1,034.6	1,005.6	28.96	35.720	
7,900.0	7,074.4	7,063.7	7,062.8	29.0	2.5	90.18	709.3	-613.8	1,005.4	974.4	31.00	32.438	
8,000.0	7,073.9	7,063.9	7,063.0	31.1	2.5	90.20	709.3	-613.8	985.6	952.4	33.15	29.733	
8,100.0	7,073.4	7,064.1	7,063.2	33.4	2.5	90.21	709.3	-613.8	975.7	940.3	35.40	27.562	
8,147.3	7,073.2	7,064.2	7,063.3	34.5	2.5	90.21	709.3	-613.8	974.5	938.0	36.50	26.699	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST VERT BUNYAN #1 - Wellbore #1 - Wellbore #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 100-GYD_CT												<b>Offset Well Error:</b>	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,200.0	7,072.9	7,064.3	7,063.4	35.7	2.5	90.22	709.3	-613.8	975.9	938.2	37.73	25.868	
8,300.0	7,072.4	7,064.5	7,063.6	38.1	2.5	90.23	709.3	-613.8	986.4	946.3	40.12	24.585	
8,400.0	7,071.9	7,064.7	7,063.8	40.6	2.5	90.25	709.3	-613.8	1,006.7	964.2	42.57	23.649	
8,500.0	7,071.5	7,064.9	7,064.0	43.1	2.5	90.26	709.3	-613.8	1,036.4	991.3	45.06	22.999	
8,600.0	7,071.0	7,065.1	7,064.2	45.6	2.5	90.27	709.3	-613.8	1,074.5	1,026.9	47.59	22.579	
8,700.0	7,070.5	7,065.3	7,064.4	48.1	2.5	90.28	709.3	-613.8	1,120.3	1,070.2	50.15	22.340	
8,800.0	7,070.0	7,065.5	7,064.6	50.7	2.5	90.29	709.3	-613.8	1,172.9	1,120.2	52.73	22.241 SF	
8,900.0	7,069.5	7,065.7	7,064.8	53.3	2.5	90.30	709.3	-613.8	1,231.3	1,176.0	55.34	22.249	
9,000.0	7,069.0	7,065.9	7,065.0	56.0	2.5	90.31	709.3	-613.8	1,294.9	1,236.9	57.97	22.337	
9,100.0	7,068.6	7,066.1	7,065.2	58.6	2.5	90.32	709.3	-613.8	1,362.8	1,302.2	60.61	22.483	
9,200.0	7,068.1	7,066.3	7,065.4	61.3	2.5	90.34	709.3	-613.8	1,434.5	1,371.2	63.27	22.671	
9,300.0	7,067.6	7,066.4	7,065.6	63.9	2.5	90.35	709.3	-613.8	1,509.4	1,443.5	65.95	22.889	
9,400.0	7,067.1	7,066.6	7,065.7	66.6	2.5	90.36	709.3	-613.8	1,587.1	1,518.5	68.63	23.126	
9,500.0	7,066.6	7,066.8	7,065.9	69.3	2.5	90.37	709.3	-613.8	1,667.2	1,595.8	71.32	23.375	
9,600.0	7,066.1	7,067.0	7,066.1	72.0	2.5	90.38	709.3	-613.8	1,749.3	1,675.2	74.02	23.631	
9,700.0	7,065.6	7,067.2	7,066.3	74.7	2.5	90.39	709.3	-613.8	1,833.2	1,756.4	76.73	23.890	
9,800.0	7,065.2	7,067.3	7,066.4	77.5	2.5	90.40	709.3	-613.8	1,918.6	1,839.1	79.45	24.149	
9,900.0	7,064.7	7,067.5	7,066.6	80.2	2.5	90.41	709.3	-613.8	2,005.4	1,923.2	82.17	24.404	
10,000.0	7,064.2	7,067.7	7,066.8	82.9	2.5	90.42	709.3	-613.8	2,093.3	2,008.4	84.90	24.656	
10,100.0	7,063.7	7,067.8	7,067.0	85.6	2.5	90.43	709.3	-613.8	2,182.3	2,094.7	87.64	24.903	
10,200.0	7,063.2	7,068.0	7,067.1	88.4	2.5	90.44	709.3	-613.8	2,272.3	2,181.9	90.37	25.143	
10,300.0	7,062.7	7,068.2	7,067.3	91.1	2.5	90.45	709.3	-613.8	2,363.0	2,269.9	93.12	25.377	
10,400.0	7,062.3	7,068.3	7,067.5	93.9	2.5	90.46	709.3	-613.8	2,454.4	2,358.6	95.86	25.603	
10,500.0	7,061.8	7,068.5	7,067.6	96.6	2.5	90.47	709.3	-613.8	2,546.5	2,447.9	98.61	25.823	
10,600.0	7,061.3	7,068.7	7,067.8	99.4	2.5	90.48	709.3	-613.8	2,639.2	2,537.8	101.37	26.036	
10,700.0	7,060.8	7,068.8	7,067.9	102.1	2.5	90.49	709.3	-613.8	2,732.4	2,628.2	104.12	26.242	
10,800.0	7,060.3	7,069.0	7,068.1	104.9	2.5	90.50	709.3	-613.8	2,826.0	2,719.1	106.88	26.440	
10,900.0	7,059.8	7,069.1	7,068.3	107.6	2.5	90.51	709.3	-613.8	2,920.1	2,810.4	109.64	26.632	
11,000.0	7,059.4	7,069.3	7,068.4	110.4	2.5	90.51	709.3	-613.8	3,014.5	2,902.1	112.41	26.818	
11,100.0	7,058.9	7,069.5	7,068.6	113.2	2.5	90.52	709.3	-613.8	3,109.3	2,994.2	115.17	26.997	
11,200.0	7,058.4	7,069.6	7,068.7	115.9	2.5	90.53	709.3	-613.8	3,204.4	3,086.5	117.94	27.170	
11,300.0	7,057.9	7,069.8	7,068.9	118.7	2.5	90.54	709.3	-613.8	3,299.8	3,179.1	120.71	27.336	
11,400.0	7,057.4	7,069.9	7,069.0	121.5	2.5	90.55	709.3	-613.8	3,395.5	3,272.0	123.48	27.498	
11,500.0	7,056.9	7,070.1	7,069.2	124.3	2.5	90.56	709.3	-613.8	3,491.4	3,365.2	126.26	27.653	
11,600.0	7,056.5	7,070.2	7,069.3	127.0	2.5	90.57	709.3	-613.8	3,587.6	3,458.5	129.03	27.803	
11,688.2	7,056.0	7,070.3	7,069.4	129.5	2.5	90.58	709.3	-613.8	3,672.5	3,541.0	131.48	27.932	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-86.67	218.9	-3,758.9	3,765.4				
100.0	100.0	75.5	75.5	0.1	0.7	-86.67	218.9	-3,758.9	3,765.3	3,764.5	0.82	4,586.572	
200.0	200.0	175.5	175.5	0.3	2.7	-86.67	218.9	-3,758.9	3,765.3	3,762.2	3.05	1,233.787	
300.0	300.0	275.5	275.5	0.5	4.9	-86.67	218.9	-3,758.9	3,765.3	3,759.9	5.42	694.336	
400.0	400.0	375.5	375.5	0.8	6.9	-86.67	218.9	-3,758.9	3,765.3	3,757.6	7.70	489.009	
500.0	500.0	475.5	475.5	1.0	9.0	-86.67	218.9	-3,758.9	3,765.3	3,755.3	9.96	378.154	
600.0	600.0	575.5	575.5	1.2	11.0	-86.67	218.9	-3,758.9	3,765.3	3,753.1	12.21	308.477	
700.0	700.0	675.5	675.5	1.4	13.0	162.35	218.9	-3,758.9	3,767.0	3,752.5	14.43	261.138	
800.0	799.8	775.3	775.3	1.6	15.0	162.34	218.9	-3,758.9	3,771.9	3,755.3	16.61	227.097	
900.0	899.5	875.0	875.0	1.9	17.0	162.33	218.9	-3,758.9	3,780.2	3,761.5	18.77	201.398	
1,000.0	998.7	974.2	974.2	2.1	19.0	162.32	218.9	-3,758.9	3,791.9	3,771.0	20.90	181.438	
1,100.0	1,097.5	1,073.0	1,073.0	2.4	21.0	162.30	218.9	-3,758.9	3,806.8	3,783.8	22.99	165.589	
1,200.0	1,195.6	1,171.1	1,171.1	2.7	23.0	162.27	218.9	-3,758.9	3,825.0	3,800.0	25.03	152.788	
1,200.1	1,195.8	1,171.3	1,171.3	2.7	23.0	162.27	218.9	-3,758.9	3,825.0	3,800.0	25.04	152.771	
1,300.0	1,293.4	1,268.9	1,268.9	3.1	25.0	162.36	218.9	-3,758.9	3,844.8	3,817.6	27.22	141.262	
1,400.0	1,391.3	1,366.8	1,366.8	3.5	26.9	162.46	218.9	-3,758.9	3,864.7	3,835.3	29.41	131.417	
1,500.0	1,489.1	1,464.6	1,464.6	4.0	28.9	162.55	218.9	-3,758.9	3,884.6	3,853.0	31.60	122.916	
1,600.0	1,586.9	1,562.4	1,562.4	4.4	30.9	162.64	218.9	-3,758.9	3,904.5	3,870.7	33.80	115.507	
1,700.0	1,684.7	1,660.2	1,660.2	4.8	32.8	162.73	218.9	-3,758.9	3,924.4	3,888.4	36.01	108.994	
1,800.0	1,782.5	1,758.0	1,758.0	5.3	34.8	162.82	218.9	-3,758.9	3,944.3	3,906.0	38.21	103.227	
1,900.0	1,880.3	1,855.8	1,855.8	5.7	36.8	162.91	218.9	-3,758.9	3,964.2	3,923.8	40.42	98.085	
2,000.0	1,978.1	1,953.6	1,953.6	6.1	38.7	163.00	218.9	-3,758.9	3,984.1	3,941.5	42.62	93.472	
2,100.0	2,075.9	2,051.4	2,051.4	6.6	40.7	163.08	218.9	-3,758.9	4,004.0	3,959.2	44.83	89.312	
2,200.0	2,173.8	2,149.3	2,149.3	7.0	42.7	163.17	218.9	-3,758.9	4,024.0	3,979.9	47.04	85.541	
2,300.0	2,271.6	2,247.1	2,247.1	7.5	44.6	163.26	218.9	-3,758.9	4,043.9	3,994.6	49.25	82.108	
2,400.0	2,369.4	2,344.9	2,344.9	8.0	46.6	163.34	218.9	-3,758.9	4,063.9	4,012.4	51.46	78.969	
2,500.0	2,467.2	2,442.7	2,442.7	8.4	48.6	163.42	218.9	-3,758.9	4,083.8	4,030.1	53.67	76.089	
2,600.0	2,565.0	2,540.5	2,540.5	8.9	50.5	163.51	218.9	-3,758.9	4,103.8	4,047.9	55.88	73.436	
2,700.0	2,662.8	2,638.3	2,638.3	9.3	52.5	163.59	218.9	-3,758.9	4,123.8	4,065.7	58.09	70.985	
2,800.0	2,760.6	2,736.1	2,736.1	9.8	54.5	163.67	218.9	-3,758.9	4,143.8	4,083.4	60.30	68.714	
2,900.0	2,858.5	2,834.0	2,834.0	10.2	56.4	163.75	218.9	-3,758.9	4,163.7	4,101.2	62.52	66.603	
3,000.0	2,956.3	2,931.8	2,931.8	10.7	58.4	163.83	218.9	-3,758.9	4,183.8	4,119.0	64.73	64.637	
3,100.0	3,054.1	3,029.6	3,029.6	11.2	60.4	163.91	218.9	-3,758.9	4,203.8	4,136.8	66.94	62.801	
3,200.0	3,151.9	3,127.4	3,127.4	11.6	62.4	163.99	218.9	-3,758.9	4,223.8	4,154.6	69.15	61.082	
3,300.0	3,249.7	3,225.2	3,225.2	12.1	64.3	164.06	218.9	-3,758.9	4,243.8	4,172.4	71.36	59.471	
3,400.0	3,347.5	3,323.0	3,323.0	12.5	66.3	164.14	218.9	-3,758.9	4,263.8	4,190.3	73.57	57.956	
3,500.0	3,445.3	3,420.8	3,420.8	13.0	68.3	164.22	218.9	-3,758.9	4,283.9	4,208.1	75.78	56.530	
3,600.0	3,543.2	3,518.7	3,518.7	13.5	70.2	164.29	218.9	-3,758.9	4,303.9	4,225.9	77.99	55.184	
3,700.0	3,641.0	3,616.5	3,616.5	13.9	72.2	164.37	218.9	-3,758.9	4,324.0	4,243.8	80.20	53.914	
3,800.0	3,738.8	3,714.3	3,714.3	14.4	74.2	164.44	218.9	-3,758.9	4,344.0	4,261.6	82.41	52.711	
3,900.0	3,836.6	3,812.1	3,812.1	14.8	76.1	164.51	218.9	-3,758.9	4,364.1	4,279.5	84.62	51.572	
4,000.0	3,934.4	3,909.9	3,909.9	15.3	78.1	164.58	218.9	-3,758.9	4,384.2	4,297.4	86.83	50.491	
4,100.0	4,032.2	4,007.7	4,007.7	15.8	80.1	164.66	218.9	-3,758.9	4,404.3	4,315.2	89.04	49.463	
4,159.1	4,090.0	4,065.5	4,065.5	16.0	81.2	164.70	218.9	-3,758.9	4,416.1	4,325.8	90.35	48.880	
4,200.0	4,130.1	4,105.6	4,105.6	16.2	82.0	164.77	218.9	-3,758.9	4,424.1	4,332.6	91.46	48.374	
4,300.0	4,228.5	4,204.0	4,204.0	16.5	84.0	164.92	218.9	-3,758.9	4,441.2	4,347.1	94.09	47.202	
4,400.0	4,327.5	4,303.0	4,303.0	16.8	86.0	165.04	218.9	-3,758.9	4,454.9	4,358.3	96.64	46.098	
4,500.0	4,426.9	4,402.4	4,402.4	17.0	88.0	165.13	218.9	-3,758.9	4,465.3	4,366.2	99.10	45.059	
4,600.0	4,526.6	4,502.1	4,502.1	17.2	90.0	165.19	218.9	-3,758.9	4,472.4	4,370.9	101.46	44.082	
4,700.0	4,626.6	4,602.1	4,602.1	17.3	92.0	165.22	218.9	-3,758.9	4,476.1	4,372.4	103.70	43.164	
4,759.3	4,685.8	4,661.3	4,661.3	17.4	93.2	-83.79	218.9	-3,758.9	4,476.7	4,366.4	110.23	40.611	
4,800.0	4,726.5	4,702.0	4,702.0	17.5	94.0	-83.79	218.9	-3,758.9	4,476.7	4,365.6	111.10	40.294	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-INC													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,826.5	4,802.0	4,802.0	17.6	96.0	-83.79	218.9	-3,758.9	4,476.7	4,363.4	113.24	39.534		
5,000.0	4,926.5	4,902.0	4,902.0	17.7	98.0	-83.79	218.9	-3,758.9	4,476.7	4,361.3	115.37	38.801		
5,100.0	5,026.5	5,002.0	5,002.0	17.8	100.1	-83.79	218.9	-3,758.9	4,476.7	4,359.2	117.51	38.095		
5,200.0	5,126.5	5,102.0	5,102.0	18.0	102.1	-83.79	218.9	-3,758.9	4,476.7	4,357.0	119.65	37.413		
5,300.0	5,226.5	5,202.0	5,202.0	18.1	104.1	-83.79	218.9	-3,758.9	4,476.7	4,354.9	121.80	36.755		
5,400.0	5,326.5	5,302.0	5,302.0	18.2	106.1	-83.79	218.9	-3,758.9	4,476.7	4,352.7	123.94	36.119		
5,500.0	5,426.5	5,402.0	5,402.0	18.3	108.1	-83.79	218.9	-3,758.9	4,476.7	4,350.6	126.09	35.504		
5,600.0	5,526.5	5,502.0	5,502.0	18.5	110.1	-83.79	218.9	-3,758.9	4,476.7	4,348.4	128.24	34.909		
5,700.0	5,626.5	5,602.0	5,602.0	18.6	112.1	-83.79	218.9	-3,758.9	4,476.7	4,346.3	130.39	34.334		
5,800.0	5,726.5	5,702.0	5,702.0	18.8	114.1	-83.79	218.9	-3,758.9	4,476.7	4,344.1	132.54	33.776		
5,900.0	5,826.5	5,802.0	5,802.0	18.9	116.1	-83.79	218.9	-3,758.9	4,476.7	4,342.0	134.69	33.236		
6,000.0	5,926.5	5,902.0	5,902.0	19.0	118.2	-83.79	218.9	-3,758.9	4,476.7	4,339.8	136.85	32.713		
6,100.0	6,026.5	6,002.0	6,002.0	19.2	120.2	-83.79	218.9	-3,758.9	4,476.7	4,337.7	139.00	32.205		
6,200.0	6,126.5	6,102.0	6,102.0	19.3	122.2	-83.79	218.9	-3,758.9	4,476.7	4,335.5	141.16	31.713		
6,300.0	6,226.5	6,202.0	6,202.0	19.5	124.2	-83.79	218.9	-3,758.9	4,476.7	4,333.4	143.32	31.235		
6,400.0	6,326.5	6,302.0	6,302.0	19.6	126.2	-83.79	218.9	-3,758.9	4,476.7	4,331.2	145.48	30.771		
6,433.3	6,359.8	6,335.3	6,335.3	19.7	126.9	-83.79	218.9	-3,758.9	4,476.7	4,330.5	146.20	30.620		
6,450.0	6,376.5	6,352.0	6,352.0	19.7	127.2	6.21	218.9	-3,758.9	4,476.5	4,334.5	141.94	31.538		
6,500.0	6,426.5	6,402.0	6,402.0	19.7	128.2	6.24	218.9	-3,758.9	4,473.6	4,331.2	142.35	31.426		
6,550.0	6,476.0	6,451.5	6,451.5	19.7	129.2	6.30	218.9	-3,758.9	4,467.2	4,325.2	142.07	31.444		
6,600.0	6,525.0	6,500.5	6,500.5	19.7	130.2	6.41	218.9	-3,758.9	4,457.5	4,316.4	141.07	31.597		
6,650.0	6,573.3	6,548.8	6,548.8	19.7	131.2	6.55	218.9	-3,758.9	4,444.3	4,304.9	139.37	31.889		
6,700.0	6,620.4	6,595.9	6,595.9	19.6	132.1	6.73	218.9	-3,758.9	4,427.9	4,290.9	136.95	32.333		
6,750.0	6,666.3	6,641.8	6,641.8	19.6	133.0	6.97	218.9	-3,758.9	4,408.2	4,274.4	133.82	32.940		
6,800.0	6,710.7	6,686.2	6,686.2	19.5	133.9	7.26	218.9	-3,758.9	4,385.4	4,255.3	130.02	33.729		
6,850.0	6,753.4	6,728.9	6,728.9	19.4	134.8	7.62	218.9	-3,758.9	4,359.5	4,234.0	125.55	34.723		
6,900.0	6,794.2	6,769.7	6,769.7	19.3	135.6	8.05	218.9	-3,758.9	4,330.8	4,210.3	120.47	35.950		
6,950.0	6,832.9	6,808.4	6,808.4	19.3	136.4	8.58	218.9	-3,758.9	4,299.3	4,184.5	114.82	37.444		
7,000.0	6,869.2	6,844.7	6,844.7	19.2	137.1	9.23	218.9	-3,758.9	4,265.2	4,156.5	108.69	39.242		
7,050.0	6,903.1	6,878.6	6,878.6	19.2	137.8	10.03	218.9	-3,758.9	4,228.7	4,126.5	102.19	41.381		
7,100.0	6,934.3	6,909.8	6,909.8	19.2	138.4	11.02	218.9	-3,758.9	4,189.9	4,094.4	95.49	43.877		
7,150.0	6,962.8	6,938.3	6,938.3	19.3	139.0	12.28	218.9	-3,758.9	4,149.1	4,060.2	88.86	46.691		
7,200.0	6,988.3	6,963.8	6,963.8	19.5	139.5	13.90	218.9	-3,758.9	4,106.4	4,023.6	82.73	49.638		
7,250.0	7,010.7	6,986.2	6,986.2	19.7	140.0	16.05	218.9	-3,758.9	4,062.0	3,984.2	77.82	52.201		
7,300.0	7,029.9	7,005.4	7,005.4	20.0	140.3	18.99	218.9	-3,758.9	4,016.2	3,940.8	75.37	53.289		
7,350.0	7,045.9	7,021.4	7,021.4	20.4	140.7	23.20	218.9	-3,758.9	3,969.2	3,891.8	77.39	51.291		
7,400.0	7,058.6	7,034.1	7,034.1	20.8	140.9	29.58	218.9	-3,758.9	3,921.2	3,834.5	86.74	45.208		
7,450.0	7,067.8	7,043.3	7,043.3	21.4	141.1	39.92	218.9	-3,758.9	3,872.4	3,765.7	106.75	36.276		
7,500.0	7,073.6	7,049.1	7,049.1	22.0	141.2	57.52	218.9	-3,758.9	3,823.2	3,685.1	138.07	27.691		
7,550.0	7,076.0	7,051.5	7,051.5	22.7	141.3	84.90	218.9	-3,758.9	3,773.7	3,610.5	163.20	23.123		
7,561.7	7,076.0	7,051.5	7,051.5	22.9	141.3	92.14	218.9	-3,758.9	3,762.0	3,598.1	163.97	22.944		
7,600.0	7,075.8	7,051.3	7,051.3	23.4	141.3	92.11	218.9	-3,758.9	3,724.1	3,559.5	164.56	22.631		
7,700.0	7,075.3	7,050.8	7,050.8	25.1	141.3	92.06	218.9	-3,758.9	3,625.0	3,458.7	166.25	21.805		
7,800.0	7,074.8	7,050.3	7,050.3	27.0	141.2	92.00	218.9	-3,758.9	3,525.9	3,357.8	168.12	20.972		
7,900.0	7,074.4	7,049.9	7,049.9	29.0	141.2	91.94	218.9	-3,758.9	3,426.8	3,256.7	170.15	20.141		
8,000.0	7,073.9	7,049.4	7,049.4	31.1	141.2	91.89	218.9	-3,758.9	3,327.9	3,155.6	172.29	19.315		
8,100.0	7,073.4	7,048.9	7,048.9	33.4	141.2	91.83	218.9	-3,758.9	3,229.0	3,054.4	174.54	18.500		
8,200.0	7,072.9	7,048.4	7,048.4	35.7	141.2	91.77	218.9	-3,758.9	3,130.1	2,953.3	176.86	17.698		
8,300.0	7,072.4	7,047.9	7,047.9	38.1	141.2	91.71	218.9	-3,758.9	3,031.4	2,852.1	179.25	16.912		
8,400.0	7,071.9	7,047.4	7,047.4	40.6	141.2	91.66	218.9	-3,758.9	2,932.7	2,751.0	181.69	16.141		
8,500.0	7,071.5	7,047.0	7,047.0	43.1	141.2	91.60	218.9	-3,758.9	2,834.1	2,650.0	184.17	15.388		
8,600.0	7,071.0	7,046.5	7,046.5	45.6	141.2	91.54	218.9	-3,758.9	2,735.7	2,549.0	186.70	14.653		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - EXIST VERT EVANS-STROH 20-1 - Wellbore #1 - Design #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-INC												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.0	7,070.5	7,046.0	7,046.0	48.1	141.2	91.48	218.9	-3,758.9	2,637.3	2,448.1	189.25	13.936	
8,800.0	7,070.0	7,045.5	7,045.5	50.7	141.1	91.43	218.9	-3,758.9	2,539.1	2,347.2	191.83	13.236	
8,900.0	7,069.5	7,045.0	7,045.0	53.3	141.1	91.37	218.9	-3,758.9	2,441.0	2,246.5	194.43	12.555	
9,000.0	7,069.0	7,044.5	7,044.5	56.0	141.1	91.31	218.9	-3,758.9	2,343.0	2,146.0	197.05	11.891	
9,100.0	7,068.6	7,044.1	7,044.1	58.6	141.1	91.26	218.9	-3,758.9	2,245.3	2,045.6	199.69	11.244	
9,200.0	7,068.1	7,043.6	7,043.6	61.3	141.1	91.20	218.9	-3,758.9	2,147.8	1,945.4	202.34	10.615	
9,300.0	7,067.6	7,043.1	7,043.1	63.9	141.1	91.14	218.9	-3,758.9	2,050.5	1,845.5	205.01	10.002	
9,400.0	7,067.1	7,042.6	7,042.6	66.6	141.1	91.08	218.9	-3,758.9	1,953.4	1,745.8	207.68	9.406	
9,500.0	7,066.6	7,042.1	7,042.1	69.3	141.1	91.03	218.9	-3,758.9	1,856.7	1,646.3	210.37	8.826	
9,600.0	7,066.1	7,041.6	7,041.6	72.0	141.1	90.97	218.9	-3,758.9	1,760.4	1,547.3	213.06	8.262	
9,700.0	7,065.6	7,041.1	7,041.1	74.7	141.1	90.91	218.9	-3,758.9	1,664.5	1,448.7	215.77	7.714	
9,800.0	7,065.2	7,040.7	7,040.7	77.5	141.0	90.86	218.9	-3,758.9	1,569.0	1,350.6	218.48	7.182	
9,900.0	7,064.7	7,040.2	7,040.2	80.2	141.0	90.80	218.9	-3,758.9	1,474.2	1,253.1	221.19	6.665	
10,000.0	7,064.2	7,039.7	7,039.7	82.9	141.0	90.74	218.9	-3,758.9	1,380.2	1,156.3	223.91	6.164	
10,100.0	7,063.7	7,039.2	7,039.2	85.6	141.0	90.68	218.9	-3,758.9	1,287.0	1,060.4	226.64	5.679	
10,200.0	7,063.2	7,038.7	7,038.7	88.4	141.0	90.63	218.9	-3,758.9	1,195.0	965.6	229.37	5.210	
10,300.0	7,062.7	7,038.2	7,038.2	91.1	141.0	90.57	218.9	-3,758.9	1,104.3	872.2	232.10	4.758	
10,400.0	7,062.3	7,037.8	7,037.8	93.9	141.0	90.51	218.9	-3,758.9	1,015.3	780.5	234.84	4.323	
10,500.0	7,061.8	7,037.3	7,037.3	96.6	141.0	90.45	218.9	-3,758.9	928.7	691.1	237.58	3.909	
10,600.0	7,061.3	7,036.8	7,036.8	99.4	141.0	90.40	218.9	-3,758.9	844.9	604.6	240.33	3.516	
10,700.0	7,060.8	7,036.3	7,036.3	102.1	141.0	90.34	218.9	-3,758.9	765.1	522.0	243.08	3.148	
10,800.0	7,060.3	7,035.8	7,035.8	104.9	141.0	90.28	218.9	-3,758.9	690.6	444.8	245.83	2.809	
10,900.0	7,059.8	7,035.3	7,035.3	107.6	140.9	90.22	218.9	-3,758.9	623.2	374.6	248.58	2.507	
11,000.0	7,059.4	7,034.9	7,034.9	110.4	140.9	90.17	218.9	-3,758.9	565.6	314.3	251.34	2.250	
11,100.0	7,058.9	7,034.4	7,034.4	113.2	140.9	90.11	218.9	-3,758.9	520.9	266.9	254.09	2.050	
11,200.0	7,058.4	7,033.9	7,033.9	115.9	140.9	90.05	218.9	-3,758.9	492.8	236.0	256.85	1.919	
11,292.5	7,057.9	7,033.4	7,033.4	118.5	140.9	90.00	218.9	-3,758.9	484.1	224.7	259.41	1.866 CC	
11,300.0	7,057.9	7,033.4	7,033.4	118.7	140.9	90.00	218.9	-3,758.9	484.1	224.5	259.61	1.865 ES, SF	
11,400.0	7,057.4	7,032.9	7,032.9	121.5	140.9	89.94	218.9	-3,758.9	495.9	233.5	262.37	1.890	
11,500.0	7,056.9	7,032.4	7,032.4	124.3	140.9	89.88	218.9	-3,758.9	526.7	261.5	265.14	1.986	
11,600.0	7,056.5	7,032.0	7,032.0	127.0	140.9	89.82	218.9	-3,758.9	573.5	305.6	267.90	2.141	
11,688.2	7,056.0	7,031.5	7,031.5	129.5	140.9	89.77	218.9	-3,758.9	625.2	354.9	270.34	2.313	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	0.36	44.8	0.3	44.8				
100.0	100.0	99.0	99.0	0.1	0.1	0.36	44.8	0.3	44.8	44.6	0.19	231.637	
200.0	200.0	199.0	199.0	0.3	0.3	0.36	44.8	0.3	44.8	44.2	0.64	69.830	
300.0	300.0	299.0	299.0	0.5	0.5	0.36	44.8	0.3	44.8	43.7	1.09	41.064	
400.0	400.0	399.0	399.0	0.8	0.8	0.36	44.8	0.3	44.8	43.3	1.54	29.083 CC, ES	
500.0	500.0	498.3	498.3	1.0	1.0	2.25	45.6	1.8	45.6	43.6	1.98	22.994	
600.0	600.0	597.3	597.2	1.2	1.2	7.60	47.8	6.4	48.3	45.8	2.43	19.887	
700.0	700.0	696.0	695.4	1.4	1.4	-97.51	51.5	14.0	53.7	50.8	2.87	18.708	
800.0	799.8	794.2	793.0	1.6	1.7	-93.62	56.7	24.6	62.2	58.9	3.32	18.710	
900.0	899.5	891.9	889.5	1.9	2.0	-91.45	63.4	38.1	73.4	69.6	3.82	19.224	
1,000.0	998.7	989.0	984.9	2.1	2.4	-90.52	71.4	54.5	87.1	82.8	4.37	19.955	
1,100.0	1,097.5	1,087.6	1,081.3	2.4	2.7	-90.90	80.4	72.9	102.4	97.4	4.98	20.546	
1,200.0	1,195.6	1,186.3	1,177.9	2.7	3.1	-92.81	89.4	91.3	117.8	112.1	5.67	20.762	
1,200.1	1,195.8	1,186.5	1,178.0	2.7	3.1	-92.82	89.4	91.3	117.8	112.1	5.67	20.762	
1,300.0	1,293.4	1,285.0	1,274.4	3.1	3.6	-95.27	98.5	109.7	133.4	127.0	6.42	20.776	
1,400.0	1,391.3	1,383.6	1,370.8	3.5	4.0	-97.22	107.5	128.1	149.3	142.1	7.20	20.732	
1,500.0	1,489.1	1,482.2	1,467.3	4.0	4.4	-98.79	116.5	146.5	165.3	157.3	8.00	20.665	
1,600.0	1,586.9	1,580.8	1,563.7	4.4	4.8	-100.08	125.5	164.9	181.4	172.6	8.81	20.590	
1,700.0	1,684.7	1,679.4	1,660.2	4.8	5.3	-101.16	134.6	183.4	197.6	188.0	9.63	20.515	
1,800.0	1,782.5	1,778.1	1,756.7	5.3	5.7	-102.07	143.6	201.8	213.8	203.4	10.46	20.443	
1,900.0	1,880.3	1,876.7	1,853.1	5.7	6.2	-102.86	152.6	220.2	230.1	218.8	11.29	20.376	
2,000.0	1,978.1	1,975.3	1,949.6	6.1	6.6	-103.55	161.7	238.6	246.4	234.3	12.13	20.314	
2,100.0	2,075.9	2,073.9	2,046.1	6.6	7.0	-104.14	170.7	257.0	262.8	249.8	12.97	20.257	
2,200.0	2,173.8	2,172.5	2,142.5	7.0	7.5	-104.67	179.7	275.4	279.2	265.4	13.82	20.205	
2,300.0	2,271.6	2,271.1	2,239.0	7.5	7.9	-105.14	188.7	293.8	295.6	280.9	14.66	20.158	
2,400.0	2,369.4	2,369.8	2,335.4	8.0	8.4	-105.56	197.8	312.3	312.0	296.5	15.51	20.114	
2,500.0	2,467.2	2,468.4	2,431.9	8.4	8.8	-105.94	206.8	330.7	328.4	312.1	16.36	20.074	
2,600.0	2,565.0	2,567.0	2,528.4	8.9	9.3	-106.28	215.8	349.1	344.9	327.6	17.21	20.037	
2,700.0	2,662.8	2,665.6	2,624.8	9.3	9.7	-106.59	224.9	367.5	361.3	343.2	18.06	20.004	
2,800.0	2,760.6	2,764.2	2,721.3	9.8	10.1	-106.88	233.9	385.9	377.8	358.9	18.91	19.972	
2,900.0	2,858.5	2,862.9	2,817.8	10.2	10.6	-107.14	242.9	404.3	394.2	374.5	19.77	19.944	
3,000.0	2,956.3	2,961.5	2,914.2	10.7	11.0	-107.38	251.9	422.8	410.7	390.1	20.62	19.917	
3,100.0	3,054.1	3,060.1	3,010.7	11.2	11.5	-107.60	261.0	441.2	427.2	405.7	21.48	19.892	
3,200.0	3,151.9	3,158.7	3,107.1	11.6	11.9	-107.80	270.0	459.6	443.7	421.4	22.33	19.869	
3,300.0	3,249.7	3,257.3	3,203.6	12.1	12.4	-107.99	279.0	478.0	460.2	437.0	23.19	19.847	
3,400.0	3,347.5	3,356.0	3,300.1	12.5	12.8	-108.17	288.0	496.4	476.7	452.6	24.04	19.827	
3,500.0	3,445.3	3,454.6	3,396.5	13.0	13.3	-108.34	297.1	514.8	493.2	468.3	24.90	19.808	
3,600.0	3,543.2	3,553.2	3,493.0	13.5	13.7	-108.49	306.1	533.2	509.7	483.9	25.76	19.790	
3,700.0	3,641.0	3,651.8	3,589.5	13.9	14.2	-108.63	315.1	551.7	526.2	499.6	26.61	19.773	
3,800.0	3,738.8	3,750.4	3,685.9	14.4	14.6	-108.77	324.2	570.1	542.7	515.2	27.47	19.758	
3,900.0	3,836.6	3,849.1	3,782.4	14.8	15.1	-108.90	333.2	588.5	559.2	530.9	28.33	19.743	
4,000.0	3,934.4	3,947.7	3,878.9	15.3	15.5	-109.02	342.2	606.9	575.8	546.6	29.18	19.729	
4,100.0	4,032.2	4,046.3	3,975.3	15.8	16.0	-109.13	351.2	625.3	592.3	562.2	30.04	19.715	
4,159.1	4,090.0	4,109.3	4,037.1	16.0	16.2	-109.24	356.8	636.7	601.9	571.3	30.53	19.712	
4,200.0	4,130.1	4,154.0	4,081.0	16.2	16.3	-109.47	360.4	644.0	608.1	577.2	30.83	19.723	
4,300.0	4,228.5	4,263.7	4,189.3	16.5	16.7	-110.00	368.0	659.5	621.2	589.8	31.46	19.747	
4,400.0	4,327.5	4,373.8	4,298.6	16.8	16.9	-110.47	373.7	671.2	631.5	599.5	32.00	19.733	
4,500.0	4,426.9	4,484.3	4,408.8	17.0	17.2	-110.90	377.7	679.2	638.9	606.4	32.46	19.681	
4,600.0	4,526.6	4,595.0	4,519.3	17.2	17.3	-111.28	379.7	683.3	643.3	610.5	32.84	19.593	
4,700.0	4,626.6	4,701.2	4,625.6	17.3	17.5	-111.60	380.0	684.0	645.0	611.9	33.12	19.473	
4,759.3	4,685.8	4,760.4	4,684.8	17.4	17.5	-0.67	380.0	684.0	645.3	620.3	24.95	25.861	
4,800.0	4,726.5	4,801.2	4,725.5	17.5	17.6	-0.67	380.0	684.0	645.3	620.2	25.08	25.723	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,901.2	4,825.5	17.6	17.7	-0.67	380.0	684.0	645.3	619.8	25.41	25.391	
5,000.0	4,926.5	5,001.2	4,925.5	17.7	17.8	-0.67	380.0	684.0	645.3	619.5	25.75	25.063	
5,100.0	5,026.5	5,101.2	5,025.5	17.8	18.0	-0.67	380.0	684.0	645.3	619.2	26.08	24.740	
5,200.0	5,126.5	5,201.2	5,125.5	18.0	18.1	-0.67	380.0	684.0	645.3	618.8	26.42	24.423	
5,300.0	5,226.5	5,301.2	5,225.5	18.1	18.2	-0.67	380.0	684.0	645.3	618.5	26.76	24.111	
5,400.0	5,326.5	5,401.2	5,325.5	18.2	18.4	-0.67	380.0	684.0	645.3	618.1	27.11	23.803	
5,500.0	5,426.5	5,501.2	5,425.5	18.3	18.5	-0.67	380.0	684.0	645.3	617.8	27.46	23.501	
5,600.0	5,526.5	5,601.2	5,525.5	18.5	18.6	-0.67	380.0	684.0	645.3	617.4	27.81	23.204	
5,700.0	5,626.5	5,701.2	5,625.5	18.6	18.8	-0.67	380.0	684.0	645.3	617.1	28.16	22.912	
5,800.0	5,726.5	5,801.2	5,725.5	18.8	18.9	-0.67	380.0	684.0	645.3	616.7	28.52	22.626	
5,900.0	5,826.5	5,901.2	5,825.5	18.9	19.1	-0.67	380.0	684.0	645.3	616.4	28.88	22.344	
6,000.0	5,926.5	6,001.2	5,925.5	19.0	19.2	-0.67	380.0	684.0	645.3	616.0	29.24	22.068	
6,100.0	6,026.5	6,101.2	6,025.5	19.2	19.4	-0.67	380.0	684.0	645.3	615.6	29.60	21.796	
6,200.0	6,126.5	6,201.2	6,125.5	19.3	19.5	-0.67	380.0	684.0	645.3	615.3	29.97	21.529	
6,300.0	6,226.5	6,301.2	6,225.5	19.5	19.7	-0.67	380.0	684.0	645.3	614.9	30.34	21.268	
6,400.0	6,326.5	6,401.2	6,325.5	19.6	19.8	-0.67	380.0	684.0	645.3	614.5	30.71	21.011	
6,433.3	6,359.8	6,434.4	6,358.8	19.7	19.9	-0.67	380.0	684.0	645.3	614.4	30.83	20.926	
6,450.0	6,376.5	6,451.0	6,375.4	19.7	19.9	89.33	380.0	683.8	645.3	607.1	38.14	16.917	
6,500.0	6,426.5	6,500.5	6,424.8	19.7	19.9	89.34	380.0	681.0	645.3	607.0	38.22	16.880	
6,550.0	6,476.0	6,550.0	6,473.9	19.7	19.9	89.36	380.0	674.8	645.3	607.0	38.25	16.870	
6,600.0	6,525.0	6,599.5	6,522.4	19.7	19.9	89.37	380.0	665.3	645.2	607.0	38.22	16.884	
6,650.0	6,573.3	6,649.0	6,570.2	19.7	19.9	89.39	380.0	652.4	645.2	607.1	38.14	16.919	
6,700.0	6,620.4	6,698.6	6,617.0	19.6	19.8	89.41	380.0	636.2	645.2	607.2	38.02	16.971	
6,750.0	6,666.3	6,748.1	6,662.6	19.6	19.8	89.43	380.0	616.8	645.2	607.4	37.88	17.036	
6,800.0	6,710.7	6,797.7	6,706.8	19.5	19.7	89.46	380.0	594.3	645.2	607.5	37.71	17.109	
6,850.0	6,753.4	6,847.3	6,749.3	19.4	19.6	89.49	380.0	568.8	645.2	607.7	37.55	17.182	
6,900.0	6,794.2	6,896.9	6,790.0	19.3	19.5	89.52	380.0	540.4	645.2	607.8	37.41	17.248	
6,950.0	6,832.9	6,946.5	6,828.6	19.3	19.4	89.56	380.0	509.2	645.2	607.9	37.30	17.298	
7,000.0	6,869.2	6,996.2	6,865.0	19.2	19.3	89.59	380.0	475.5	645.2	608.0	37.25	17.322	
7,050.0	6,903.1	7,045.9	6,899.0	19.2	19.3	89.63	380.0	439.2	645.2	607.9	37.27	17.310	
7,100.0	6,934.3	7,095.6	6,930.4	19.2	19.3	89.67	380.0	400.7	645.2	607.8	37.40	17.252	
7,150.0	6,962.8	7,145.4	6,959.0	19.3	19.3	89.71	380.0	360.0	645.2	607.6	37.64	17.140	
7,200.0	6,988.3	7,195.1	6,984.8	19.5	19.4	89.75	380.0	317.5	645.2	607.2	38.03	16.967	
7,250.0	7,010.7	7,245.0	7,007.6	19.7	19.6	89.80	380.0	273.2	645.2	606.7	38.56	16.733	
7,300.0	7,029.9	7,294.8	7,027.3	20.0	19.8	89.84	380.0	227.4	645.2	606.0	39.25	16.438	
7,350.0	7,045.9	7,344.7	7,043.8	20.4	20.2	89.89	380.0	180.3	645.2	605.1	40.10	16.089	
7,400.0	7,058.6	7,394.6	7,056.9	20.8	20.6	89.94	380.0	132.1	645.2	604.1	41.11	15.694	
7,450.0	7,067.8	7,444.6	7,066.7	21.4	21.1	89.98	380.0	83.1	645.2	602.9	42.27	15.265	
7,467.5	7,070.3	7,462.1	7,069.3	21.6	21.3	90.00	380.0	65.9	645.2	602.5	42.71	15.105	
7,500.0	7,073.6	7,494.6	7,073.0	22.0	21.7	90.03	380.0	33.5	645.2	601.6	43.56	14.812	
7,550.0	7,076.0	7,544.6	7,075.8	22.7	22.4	90.08	380.0	-16.4	645.2	600.2	44.97	14.348	
7,561.7	7,076.0	7,556.4	7,076.0	22.9	22.6	90.09	380.0	-28.2	645.2	599.9	45.31	14.239	
7,600.0	7,075.8	7,594.7	7,075.9	23.4	23.1	90.09	380.0	-66.4	645.2	598.7	46.48	13.880	
7,700.0	7,075.3	7,694.7	7,075.4	25.1	24.8	90.09	380.0	-166.4	645.2	595.4	49.85	12.942	
7,800.0	7,074.8	7,794.7	7,074.9	27.0	26.6	90.09	380.0	-266.4	645.2	591.6	53.60	12.038	
7,900.0	7,074.4	7,894.7	7,074.4	29.0	28.7	90.09	380.0	-366.4	645.2	587.6	57.65	11.193	
8,000.0	7,073.9	7,994.7	7,073.9	31.1	30.8	90.09	380.0	-466.4	645.2	583.3	61.94	10.417	
8,100.0	7,073.4	8,094.7	7,073.4	33.4	33.1	90.09	380.0	-566.4	645.2	578.8	66.43	9.712	
8,200.0	7,072.9	8,194.7	7,072.9	35.7	35.4	90.09	380.0	-666.4	645.2	574.1	71.08	9.077	
8,300.0	7,072.4	8,294.7	7,072.5	38.1	37.8	90.09	380.0	-766.4	645.2	569.3	75.87	8.504	
8,400.0	7,071.9	8,394.7	7,072.0	40.6	40.2	90.09	380.0	-866.4	645.2	564.5	80.76	7.989	
8,500.0	7,071.5	8,494.7	7,071.5	43.1	42.7	90.09	380.0	-966.4	645.2	559.5	85.74	7.525	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,594.7	7,071.0	45.6	45.2	90.09	380.0	-1,066.4	645.2	554.4	90.79	7.106	
8,700.0	7,070.5	8,694.7	7,070.5	48.1	47.8	90.09	380.0	-1,166.4	645.2	549.3	95.91	6.727	
8,800.0	7,070.0	8,794.7	7,070.0	50.7	50.4	90.09	380.0	-1,266.4	645.2	544.1	101.08	6.383	
8,900.0	7,069.5	8,894.7	7,069.5	53.3	53.0	90.09	380.0	-1,366.4	645.2	538.9	106.29	6.070	
9,000.0	7,069.0	8,994.7	7,069.1	56.0	55.6	90.09	380.0	-1,466.4	645.2	533.7	111.55	5.784	
9,100.0	7,068.6	9,094.7	7,068.6	58.6	58.3	90.09	380.0	-1,566.4	645.2	528.4	116.84	5.522	
9,200.0	7,068.1	9,194.7	7,068.1	61.3	60.9	90.09	380.0	-1,666.4	645.2	523.1	122.15	5.282	
9,300.0	7,067.6	9,294.7	7,067.6	63.9	63.6	90.09	380.0	-1,766.4	645.2	517.7	127.50	5.061	
9,400.0	7,067.1	9,394.7	7,067.1	66.6	66.3	90.09	380.0	-1,866.4	645.2	512.3	132.86	4.856	
9,500.0	7,066.6	9,494.7	7,066.6	69.3	69.0	90.09	380.0	-1,966.4	645.2	507.0	138.25	4.667	
9,600.0	7,066.1	9,594.7	7,066.1	72.0	71.7	90.09	380.0	-2,066.4	645.2	501.6	143.65	4.491	
9,700.0	7,065.6	9,694.7	7,065.7	74.7	74.4	90.09	380.0	-2,166.4	645.2	496.1	149.07	4.328	
9,800.0	7,065.2	9,794.7	7,065.2	77.5	77.1	90.09	380.0	-2,266.4	645.2	490.7	154.50	4.176	
9,900.0	7,064.7	9,894.7	7,064.7	80.2	79.8	90.09	380.0	-2,366.4	645.2	485.3	159.95	4.034	
10,000.0	7,064.2	9,994.7	7,064.2	82.9	82.5	90.09	380.0	-2,466.4	645.2	479.8	165.41	3.901	
10,100.0	7,063.7	10,094.7	7,063.7	85.6	85.3	90.09	380.0	-2,566.4	645.2	474.3	170.88	3.776	
10,200.0	7,063.2	10,194.7	7,063.2	88.4	88.0	90.09	380.0	-2,666.4	645.2	468.9	176.35	3.659	
10,300.0	7,062.7	10,294.7	7,062.7	91.1	90.8	90.09	380.0	-2,766.4	645.2	463.4	181.84	3.548	
10,400.0	7,062.3	10,394.7	7,062.3	93.9	93.5	90.09	380.0	-2,866.4	645.2	457.9	187.33	3.444	
10,500.0	7,061.8	10,494.7	7,061.8	96.6	96.3	90.09	380.0	-2,966.4	645.2	452.4	192.83	3.346	
10,600.0	7,061.3	10,594.7	7,061.3	99.4	99.0	90.09	380.0	-3,066.4	645.2	446.9	198.34	3.253	
10,700.0	7,060.8	10,694.7	7,060.8	102.1	101.8	90.09	380.0	-3,166.4	645.2	441.4	203.85	3.165	
10,800.0	7,060.3	10,794.7	7,060.3	104.9	104.5	90.09	380.0	-3,266.4	645.2	435.8	209.37	3.082	
10,900.0	7,059.8	10,894.7	7,059.8	107.6	107.3	90.09	380.0	-3,366.4	645.2	430.3	214.90	3.002	
11,000.0	7,059.4	10,994.7	7,059.3	110.4	110.0	90.09	380.0	-3,466.4	645.2	424.8	220.42	2.927	
11,100.0	7,058.9	11,094.7	7,058.9	113.2	112.8	90.09	380.0	-3,566.4	645.2	419.3	225.96	2.855	
11,200.0	7,058.4	11,194.7	7,058.4	115.9	115.6	90.09	380.0	-3,666.4	645.2	413.7	231.49	2.787	
11,300.0	7,057.9	11,294.7	7,057.9	118.7	118.4	90.09	380.0	-3,766.4	645.2	408.2	237.04	2.722	
11,400.0	7,057.4	11,394.7	7,057.4	121.5	121.1	90.09	380.0	-3,866.4	645.2	402.6	242.58	2.660	
11,500.0	7,056.9	11,494.7	7,056.9	124.3	123.9	90.09	380.0	-3,966.4	645.2	397.1	248.13	2.600	
11,600.0	7,056.5	11,594.7	7,056.4	127.0	126.7	90.09	380.0	-4,066.4	645.2	391.5	253.68	2.543	
11,688.2	7,056.0	11,683.2	7,056.0	129.5	129.1	90.09	380.0	-4,154.9	645.2	386.6	258.58	2.495 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.54	29.9	0.3	29.9					
100.0	100.0	99.0	99.0	0.1	0.1	0.54	29.9	0.3	29.9	29.7	0.19	154.428		
200.0	200.0	199.0	199.0	0.3	0.3	0.54	29.9	0.3	29.9	29.2	0.64	46.554		
300.0	300.0	299.0	299.0	0.5	0.5	0.54	29.9	0.3	29.9	28.8	1.09	27.376		
400.0	400.0	399.0	399.0	0.8	0.8	0.54	29.9	0.3	29.9	28.3	1.54	19.389		
500.0	500.0	499.0	499.0	1.0	1.0	0.54	29.9	0.3	29.9	27.9	1.99	15.010 CC		
600.0	600.0	598.8	598.8	1.2	1.2	3.73	30.1	2.0	30.2	27.8	2.43	12.429 ES		
700.0	700.0	698.4	698.3	1.4	1.4	-101.15	30.9	7.1	32.0	29.2	2.85	11.226		
800.0	799.8	797.9	797.4	1.6	1.7	-96.18	32.2	15.6	35.9	32.6	3.29	10.928		
900.0	899.5	897.1	895.8	1.9	1.9	-92.72	34.0	27.4	41.8	38.0	3.77	11.089		
1,000.0	998.7	996.1	993.6	2.1	2.2	-90.61	36.4	42.6	49.4	45.1	4.30	11.479		
1,100.0	1,097.5	1,094.7	1,090.5	2.4	2.6	-89.49	39.2	61.1	58.8	53.9	4.92	11.948		
1,200.0	1,195.6	1,194.1	1,187.7	2.7	2.9	-90.16	42.3	81.5	69.1	63.5	5.62	12.284		
1,200.1	1,195.8	1,194.3	1,187.8	2.7	2.9	-90.17	42.3	81.5	69.1	63.5	5.62	12.284		
1,300.0	1,293.4	1,293.6	1,285.0	3.1	3.4	-92.08	45.5	101.9	79.4	73.0	6.39	12.428		
1,400.0	1,391.3	1,393.0	1,382.2	3.5	3.8	-93.55	48.6	122.3	89.9	82.7	7.19	12.494		
1,500.0	1,489.1	1,492.4	1,479.5	4.0	4.2	-94.72	51.7	142.8	100.3	92.3	8.02	12.518		
1,600.0	1,586.9	1,591.9	1,576.7	4.4	4.6	-95.66	54.9	163.2	110.8	102.0	8.85	12.519		
1,700.0	1,684.7	1,691.3	1,674.0	4.8	5.1	-96.44	58.0	183.6	121.4	111.7	9.70	12.508		
1,800.0	1,782.5	1,790.7	1,771.3	5.3	5.5	-97.10	61.2	204.1	131.9	121.4	10.56	12.490		
1,900.0	1,880.3	1,890.2	1,868.5	5.7	5.9	-97.66	64.3	224.5	142.5	131.0	11.43	12.469		
2,000.0	1,978.1	1,989.6	1,965.8	6.1	6.4	-98.14	67.4	244.9	153.0	140.8	12.30	12.447		
2,100.0	2,075.9	2,089.0	2,063.0	6.6	6.8	-98.56	70.6	265.3	163.6	150.5	13.17	12.424		
2,200.0	2,173.8	2,188.4	2,160.3	7.0	7.3	-98.93	73.7	285.8	174.2	160.2	14.05	12.402		
2,300.0	2,271.6	2,287.9	2,257.6	7.5	7.7	-99.25	76.8	306.2	184.8	169.9	14.93	12.380		
2,400.0	2,369.4	2,387.3	2,354.8	8.0	8.2	-99.55	80.0	326.6	195.4	179.6	15.81	12.360		
2,500.0	2,467.2	2,486.7	2,452.1	8.4	8.6	-99.81	83.1	347.0	206.0	189.3	16.70	12.340		
2,600.0	2,565.0	2,586.2	2,549.3	8.9	9.1	-100.04	86.2	367.5	216.6	199.1	17.58	12.322		
2,700.0	2,662.8	2,685.6	2,646.6	9.3	9.5	-100.26	89.4	387.9	227.2	208.8	18.47	12.305		
2,800.0	2,760.6	2,785.0	2,743.9	9.8	10.0	-100.45	92.5	408.3	237.9	218.5	19.36	12.288		
2,900.0	2,858.5	2,884.5	2,841.1	10.2	10.4	-100.63	95.7	428.8	248.5	228.2	20.25	12.273		
3,000.0	2,956.3	2,983.9	2,938.4	10.7	10.9	-100.79	98.8	449.2	259.1	238.0	21.14	12.259		
3,100.0	3,054.1	3,083.3	3,035.6	11.2	11.3	-100.94	101.9	469.6	269.7	247.7	22.03	12.245		
3,200.0	3,151.9	3,182.8	3,132.9	11.6	11.8	-101.08	105.1	490.0	280.4	257.4	22.92	12.232		
3,300.0	3,249.7	3,282.2	3,230.2	12.1	12.2	-101.21	108.2	510.5	291.0	267.2	23.81	12.220		
3,400.0	3,347.5	3,381.6	3,327.4	12.5	12.7	-101.33	111.3	530.9	301.6	276.9	24.70	12.209		
3,500.0	3,445.3	3,481.1	3,424.7	13.0	13.1	-101.44	114.5	551.3	312.2	286.6	25.60	12.198		
3,600.0	3,543.2	3,580.5	3,521.9	13.5	13.6	-101.55	117.6	571.7	322.9	296.4	26.49	12.187		
3,700.0	3,641.0	3,679.9	3,619.2	13.9	14.1	-101.64	120.7	592.2	333.5	306.1	27.39	12.178		
3,800.0	3,738.8	3,779.4	3,716.5	14.4	14.5	-101.73	123.9	612.6	344.1	315.8	28.28	12.168		
3,900.0	3,836.6	3,880.4	3,815.4	14.8	14.9	-101.87	127.0	633.0	354.7	325.5	29.15	12.166		
4,000.0	3,934.4	3,983.6	3,917.0	15.3	15.3	-102.48	129.8	650.9	364.3	334.4	29.93	12.175		
4,100.0	4,032.2	4,086.7	4,019.0	15.8	15.5	-103.59	131.9	665.1	373.1	342.4	30.64	12.174		
4,159.1	4,090.0	4,147.4	4,079.4	16.0	15.7	-104.48	133.0	671.8	377.9	346.8	31.04	12.173		
4,200.0	4,130.1	4,189.3	4,121.1	16.2	15.8	-105.21	133.6	675.7	381.0	349.7	31.29	12.176		
4,300.0	4,228.5	4,291.7	4,223.3	16.5	16.0	-106.92	134.6	682.6	387.5	355.8	31.76	12.200		
4,400.0	4,327.5	4,393.9	4,325.4	16.8	16.1	-108.58	135.1	685.9	392.6	360.4	32.15	12.213		
4,500.0	4,426.9	4,494.4	4,425.9	17.0	16.2	-110.09	135.2	686.2	396.2	363.8	32.45	12.210		
4,600.0	4,526.6	4,594.1	4,525.6	17.2	16.4	-111.12	135.2	686.2	398.8	366.1	32.73	12.185		
4,700.0	4,626.6	4,694.1	4,625.6	17.3	16.5	-111.66	135.2	686.2	400.2	367.2	32.99	12.131		
4,759.3	4,685.8	4,753.3	4,684.8	17.4	16.6	-0.76	135.2	686.2	400.4	376.9	23.51	17.032		
4,800.0	4,726.5	4,794.1	4,725.5	17.5	16.6	-0.76	135.2	686.2	400.4	376.8	23.65	16.930		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,894.1	4,825.5	17.6	16.8	-0.76	135.2	686.2	400.4	376.4	24.00	16.685	
5,000.0	4,926.5	4,994.1	4,925.5	17.7	16.9	-0.76	135.2	686.2	400.4	376.1	24.35	16.445	
5,100.0	5,026.5	5,094.1	5,025.5	17.8	17.0	-0.76	135.2	686.2	400.4	375.7	24.70	16.209	
5,200.0	5,126.5	5,194.1	5,125.5	18.0	17.2	-0.76	135.2	686.2	400.4	375.3	25.06	15.978	
5,300.0	5,226.5	5,294.1	5,225.5	18.1	17.3	-0.76	135.2	686.2	400.4	375.0	25.42	15.752	
5,400.0	5,326.5	5,394.1	5,325.5	18.2	17.4	-0.76	135.2	686.2	400.4	374.6	25.78	15.530	
5,500.0	5,426.5	5,494.1	5,425.5	18.3	17.6	-0.76	135.2	686.2	400.4	374.3	26.15	15.313	
5,600.0	5,526.5	5,594.1	5,525.5	18.5	17.7	-0.76	135.2	686.2	400.4	373.9	26.52	15.101	
5,700.0	5,626.5	5,694.1	5,625.5	18.6	17.9	-0.76	135.2	686.2	400.4	373.5	26.89	14.893	
5,800.0	5,726.5	5,794.1	5,725.5	18.8	18.0	-0.76	135.2	686.2	400.4	373.1	27.26	14.689	
5,900.0	5,826.5	5,894.1	5,825.5	18.9	18.2	-0.76	135.2	686.2	400.4	372.8	27.63	14.490	
6,000.0	5,926.5	5,994.1	5,925.5	19.0	18.3	-0.76	135.2	686.2	400.4	372.4	28.01	14.295	
6,100.0	6,026.5	6,094.1	6,025.5	19.2	18.5	-0.76	135.2	686.2	400.4	372.0	28.39	14.104	
6,200.0	6,126.5	6,194.1	6,125.5	19.3	18.7	-0.76	135.2	686.2	400.4	371.6	28.77	13.917	
6,300.0	6,226.5	6,294.1	6,225.5	19.5	18.8	-0.76	135.2	686.2	400.4	371.3	29.15	13.734	
6,400.0	6,326.5	6,394.1	6,325.5	19.6	19.0	-0.76	135.2	686.2	400.4	370.9	29.54	13.555	
6,433.3	6,359.8	6,427.3	6,358.8	19.7	19.0	-0.76	135.2	686.2	400.4	370.7	29.67	13.496	
6,450.0	6,376.5	6,444.1	6,375.5	19.7	19.0	89.27	135.2	686.2	400.4	362.4	38.00	10.536	
6,500.0	6,426.5	6,494.0	6,425.5	19.7	19.1	89.68	135.2	686.2	400.4	362.2	38.14	10.498	
6,520.6	6,446.9	6,514.4	6,445.9	19.7	19.2	90.00	135.2	686.2	400.4	362.2	38.19	10.484	
6,550.0	6,476.0	6,543.6	6,475.1	19.7	19.2	90.58	135.2	686.1	400.4	362.1	38.26	10.465	
6,600.0	6,525.0	6,593.6	6,525.0	19.7	19.2	91.60	135.2	683.5	400.5	362.2	38.32	10.452	
6,650.0	6,573.3	6,644.1	6,575.2	19.7	19.3	92.63	135.2	677.3	400.8	362.5	38.32	10.460	
6,700.0	6,620.4	6,695.2	6,625.3	19.6	19.3	93.65	135.2	667.5	401.2	362.9	38.26	10.485	
6,750.0	6,666.3	6,746.8	6,675.1	19.6	19.2	94.65	135.2	654.0	401.7	363.6	38.16	10.528	
6,800.0	6,710.7	6,799.0	6,724.3	19.5	19.2	95.63	135.2	636.7	402.4	364.3	38.01	10.584	
6,850.0	6,753.4	6,851.7	6,772.6	19.4	19.1	96.59	135.2	615.7	403.1	365.2	37.84	10.651	
6,900.0	6,794.2	6,905.0	6,819.7	19.3	19.0	97.51	135.2	590.9	403.9	366.2	37.66	10.725	
6,950.0	6,832.9	6,958.8	6,865.4	19.3	18.9	98.40	135.2	562.3	404.8	367.3	37.49	10.799	
7,000.0	6,869.2	7,013.2	6,909.2	19.2	18.9	99.25	135.2	530.1	405.7	368.4	37.34	10.866	
7,050.0	6,903.1	7,068.1	6,950.8	19.2	18.8	100.05	135.2	494.2	406.7	369.4	37.25	10.919	
7,100.0	6,934.3	7,123.6	6,989.8	19.2	18.8	100.80	135.2	454.9	407.7	370.4	37.24	10.949	
7,150.0	6,962.8	7,179.5	7,026.1	19.3	18.9	101.49	135.2	412.3	408.6	371.3	37.33	10.947	
7,200.0	6,988.3	7,236.0	7,059.1	19.5	19.0	102.12	135.2	366.6	409.6	372.0	37.56	10.905	
7,250.0	7,010.7	7,292.8	7,088.7	19.7	19.2	102.69	135.2	318.1	410.5	372.5	37.94	10.818	
7,300.0	7,029.9	7,350.1	7,114.5	20.0	19.5	103.19	135.2	267.0	411.3	372.8	38.50	10.683	
7,350.0	7,045.9	7,407.6	7,136.3	20.4	19.9	103.61	135.2	213.7	412.0	372.7	39.25	10.496	
7,400.0	7,058.6	7,465.5	7,153.7	20.8	20.5	103.96	135.2	158.5	412.6	372.4	40.19	10.265	
7,450.0	7,067.8	7,523.7	7,166.8	21.4	21.1	104.24	135.2	101.9	413.1	371.8	41.32	9.997	
7,500.0	7,073.6	7,582.0	7,175.2	22.0	21.8	104.43	135.2	44.2	413.4	370.8	42.62	9.701	
7,550.0	7,076.0	7,640.4	7,178.8	22.7	22.6	104.55	135.2	-14.1	413.6	369.6	44.07	9.386	
7,561.7	7,076.0	7,654.2	7,179.0	22.9	22.8	104.56	135.2	-27.9	413.7	369.2	44.42	9.312	
7,600.0	7,075.8	7,693.1	7,178.9	23.4	23.4	104.57	135.2	-66.8	413.7	368.1	45.58	9.076	
7,700.0	7,075.3	7,793.1	7,178.5	25.1	25.1	104.59	135.2	-166.8	413.7	364.9	48.85	8.468	
7,800.0	7,074.8	7,893.1	7,178.1	27.0	27.0	104.60	135.2	-266.8	413.7	361.2	52.49	7.882	
7,900.0	7,074.4	7,993.1	7,177.8	29.0	29.0	104.62	135.2	-366.8	413.8	357.4	56.41	7.334	
8,000.0	7,073.9	8,093.1	7,177.4	31.1	31.2	104.63	135.2	-466.8	413.8	353.2	60.58	6.831	
8,100.0	7,073.4	8,193.1	7,177.1	33.4	33.4	104.65	135.2	-566.8	413.8	348.9	64.92	6.374	
8,200.0	7,072.9	8,293.1	7,176.7	35.7	35.7	104.67	135.2	-666.8	413.9	344.4	69.43	5.961	
8,300.0	7,072.4	8,393.1	7,176.3	38.1	38.1	104.68	135.2	-766.8	413.9	339.8	74.06	5.589	
8,400.0	7,071.9	8,493.1	7,176.0	40.6	40.6	104.70	135.2	-866.8	413.9	335.1	78.79	5.254	
8,500.0	7,071.5	8,593.1	7,175.6	43.1	43.0	104.71	135.2	-966.8	413.9	330.3	83.61	4.951	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,693.1	7,175.2	45.6	45.6	104.73	135.2	-1,066.8	414.0	325.5	88.49	4.678	
8,700.0	7,070.5	8,793.1	7,174.9	48.1	48.1	104.75	135.2	-1,166.8	414.0	320.6	93.44	4.431	
8,800.0	7,070.0	8,893.1	7,174.5	50.7	50.7	104.76	135.2	-1,266.8	414.0	315.6	98.44	4.206	
8,900.0	7,069.5	8,993.1	7,174.1	53.3	53.3	104.78	135.2	-1,366.8	414.1	310.6	103.49	4.001	
9,000.0	7,069.0	9,093.1	7,173.8	56.0	55.9	104.79	135.2	-1,466.8	414.1	305.5	108.57	3.814	
9,100.0	7,068.6	9,193.1	7,173.4	58.6	58.6	104.81	135.2	-1,566.8	414.1	300.5	113.68	3.643	
9,200.0	7,068.1	9,293.1	7,173.0	61.3	61.2	104.83	135.2	-1,666.8	414.2	295.3	118.82	3.486	
9,300.0	7,067.6	9,393.1	7,172.7	63.9	63.9	104.84	135.2	-1,766.8	414.2	290.2	123.98	3.341	
9,400.0	7,067.1	9,493.1	7,172.3	66.6	66.6	104.86	135.2	-1,866.8	414.2	285.1	129.17	3.207	
9,500.0	7,066.6	9,593.1	7,171.9	69.3	69.3	104.87	135.2	-1,966.8	414.3	279.9	134.37	3.083	
9,600.0	7,066.1	9,693.1	7,171.6	72.0	72.0	104.89	135.2	-2,066.8	414.3	274.7	139.59	2.968	
9,700.0	7,065.6	9,793.1	7,171.2	74.7	74.7	104.90	135.2	-2,166.8	414.3	269.5	144.83	2.861	
9,800.0	7,065.2	9,893.1	7,170.9	77.5	77.4	104.92	135.2	-2,266.8	414.3	264.3	150.08	2.761	
9,900.0	7,064.7	9,993.1	7,170.5	80.2	80.1	104.94	135.2	-2,366.8	414.4	259.0	155.34	2.668	
10,000.0	7,064.2	10,093.1	7,170.1	82.9	82.9	104.95	135.2	-2,466.8	414.4	253.8	160.61	2.580	
10,100.0	7,063.7	10,193.1	7,169.8	85.6	85.6	104.97	135.2	-2,566.8	414.4	248.5	165.89	2.498	
10,200.0	7,063.2	10,293.1	7,169.4	88.4	88.3	104.98	135.2	-2,666.8	414.5	243.3	171.17	2.421	
10,300.0	7,062.7	10,393.1	7,169.0	91.1	91.1	105.00	135.2	-2,766.8	414.5	238.0	176.47	2.349	
10,400.0	7,062.3	10,493.1	7,168.7	93.9	93.8	105.02	135.2	-2,866.8	414.5	232.8	181.77	2.280	
10,500.0	7,061.8	10,593.1	7,168.3	96.6	96.6	105.03	135.2	-2,966.8	414.6	227.5	187.08	2.216	
10,600.0	7,061.3	10,693.1	7,167.9	99.4	99.3	105.05	135.2	-3,066.8	414.6	222.2	192.40	2.155	
10,700.0	7,060.8	10,793.1	7,167.6	102.1	102.1	105.06	135.2	-3,166.8	414.6	216.9	197.72	2.097	
10,800.0	7,060.3	10,893.1	7,167.2	104.9	104.8	105.08	135.2	-3,266.8	414.7	211.6	203.04	2.042	
10,900.0	7,059.8	10,993.1	7,166.8	107.6	107.6	105.10	135.2	-3,366.8	414.7	206.3	208.37	1.990	
11,000.0	7,059.4	11,093.1	7,166.5	110.4	110.4	105.11	135.2	-3,466.8	414.7	201.0	213.70	1.941	
11,100.0	7,058.9	11,193.1	7,166.1	113.2	113.1	105.13	135.2	-3,566.8	414.7	195.7	219.04	1.893	
11,200.0	7,058.4	11,293.1	7,165.7	115.9	115.9	105.14	135.2	-3,666.8	414.8	190.4	224.38	1.849	
11,300.0	7,057.9	11,393.1	7,165.4	118.7	118.7	105.16	135.2	-3,766.8	414.8	185.1	229.72	1.806	
11,400.0	7,057.4	11,493.1	7,165.0	121.5	121.4	105.18	135.2	-3,866.8	414.8	179.8	235.06	1.765	
11,500.0	7,056.9	11,593.1	7,164.7	124.3	124.2	105.19	135.2	-3,966.8	414.9	174.5	240.41	1.726	
11,600.0	7,056.5	11,693.1	7,164.3	127.0	127.0	105.21	135.2	-4,066.8	414.9	169.1	245.76	1.688	
11,688.2	7,056.0	11,781.3	7,164.0	129.5	129.4	105.23	135.2	-4,155.0	414.9	164.5	250.47	1.657 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	0.54	59.7	0.6	59.8					
100.0	100.0	98.0	98.0	0.1	0.1	0.54	59.7	0.6	59.7	59.6	0.19	310.417		
200.0	200.0	198.0	198.0	0.3	0.3	0.54	59.7	0.6	59.7	59.1	0.64	93.436		
300.0	300.0	298.0	298.0	0.5	0.5	0.54	59.7	0.6	59.7	58.7	1.09	54.866 CC, ES		
400.0	400.0	396.6	396.6	0.8	0.8	1.68	60.8	1.8	60.9	59.3	1.53	39.708		
500.0	500.0	495.0	494.8	1.0	1.0	4.96	64.1	5.6	64.4	62.4	1.98	32.525		
600.0	600.0	592.9	592.4	1.2	1.2	9.67	69.6	11.9	70.8	68.3	2.43	29.072		
700.0	700.0	690.2	689.0	1.4	1.5	-97.06	77.2	20.6	80.6	77.7	2.90	27.787		
800.0	799.8	786.9	784.5	1.6	1.8	-94.65	86.8	31.7	93.8	90.4	3.36	27.907		
900.0	899.5	882.6	878.6	1.9	2.1	-93.60	98.5	45.1	110.1	106.2	3.86	28.550		
1,000.0	998.7	980.3	974.2	2.1	2.5	-93.74	111.8	60.4	128.5	124.1	4.40	29.199		
1,100.0	1,097.5	1,078.5	1,070.2	2.4	2.9	-95.11	125.2	75.8	147.3	142.3	5.00	29.446		
1,200.0	1,195.6	1,176.3	1,165.9	2.7	3.3	-97.29	138.5	91.2	166.5	160.9	5.67	29.377		
1,200.1	1,195.8	1,176.5	1,166.1	2.7	3.3	-97.29	138.5	91.2	166.6	160.9	5.67	29.377		
1,300.0	1,293.4	1,274.1	1,261.5	3.1	3.8	-99.85	151.8	106.5	186.4	180.0	6.39	29.147		
1,400.0	1,391.3	1,371.8	1,357.1	3.5	4.2	-101.92	165.2	121.9	206.5	199.3	7.14	28.900		
1,500.0	1,489.1	1,469.5	1,452.6	4.0	4.6	-103.63	178.5	137.2	226.8	218.9	7.91	28.672		
1,600.0	1,586.9	1,567.2	1,548.2	4.4	5.0	-105.05	191.8	152.5	247.3	238.6	8.69	28.464		
1,700.0	1,684.7	1,664.9	1,643.8	4.8	5.5	-106.26	205.1	167.9	267.9	258.4	9.47	28.279		
1,800.0	1,782.5	1,762.6	1,739.4	5.3	5.9	-107.29	218.5	183.2	288.6	278.4	10.27	28.115		
1,900.0	1,880.3	1,860.3	1,834.9	5.7	6.3	-108.19	231.8	198.5	309.4	298.4	11.06	27.971		
2,000.0	1,978.1	1,958.0	1,930.5	6.1	6.8	-108.97	245.1	213.9	330.3	318.4	11.86	27.843		
2,100.0	2,075.9	2,055.7	2,026.1	6.6	7.2	-109.66	258.5	229.2	351.2	338.5	12.66	27.730		
2,200.0	2,173.8	2,153.4	2,121.6	7.0	7.7	-110.27	271.8	244.5	372.1	358.7	13.47	27.629		
2,300.0	2,271.6	2,251.1	2,217.2	7.5	8.1	-110.82	285.1	259.9	393.1	378.9	14.28	27.539		
2,400.0	2,369.4	2,348.8	2,312.8	8.0	8.5	-111.31	298.4	275.2	414.1	399.1	15.08	27.458		
2,500.0	2,467.2	2,446.5	2,408.4	8.4	9.0	-111.76	311.8	290.6	435.2	419.3	15.89	27.385		
2,600.0	2,565.0	2,544.3	2,503.9	8.9	9.4	-112.16	325.1	305.9	456.3	439.6	16.70	27.319		
2,700.0	2,662.8	2,642.0	2,599.5	9.3	9.8	-112.53	338.4	321.2	477.3	459.8	17.51	27.259		
2,800.0	2,760.6	2,739.7	2,695.1	9.8	10.3	-112.86	351.7	336.6	498.5	480.1	18.32	27.204		
2,900.0	2,858.5	2,837.4	2,790.6	10.2	10.7	-113.17	365.1	351.9	519.6	500.4	19.13	27.154		
3,000.0	2,956.3	2,935.1	2,886.2	10.7	11.2	-113.46	378.4	367.2	540.7	520.8	19.95	27.107		
3,100.0	3,054.1	3,032.8	2,981.8	11.2	11.6	-113.72	391.7	382.6	561.8	541.1	20.76	27.065		
3,200.0	3,151.9	3,130.5	3,077.4	11.6	12.0	-113.97	405.1	397.9	583.0	561.4	21.57	27.026		
3,300.0	3,249.7	3,228.2	3,172.9	12.1	12.5	-114.19	418.4	413.2	604.2	581.8	22.39	26.989		
3,400.0	3,347.5	3,325.9	3,268.5	12.5	12.9	-114.40	431.7	428.6	625.3	602.1	23.20	26.955		
3,500.0	3,445.3	3,423.6	3,364.1	13.0	13.4	-114.60	445.0	443.9	646.5	622.5	24.01	26.924		
3,600.0	3,543.2	3,521.3	3,459.6	13.5	13.8	-114.79	458.4	459.3	667.7	642.9	24.83	26.895		
3,700.0	3,641.0	3,619.0	3,555.2	13.9	14.2	-114.96	471.7	474.6	688.9	663.3	25.64	26.867		
3,800.0	3,738.8	3,716.7	3,650.8	14.4	14.7	-115.13	485.0	489.9	710.1	683.6	26.46	26.841		
3,900.0	3,836.6	3,814.4	3,746.4	14.8	15.1	-115.28	498.3	505.3	731.3	704.0	27.27	26.817		
4,000.0	3,934.4	3,912.2	3,841.9	15.3	15.6	-115.43	511.7	520.6	752.5	724.4	28.09	26.794		
4,100.0	4,032.2	4,009.9	3,937.5	15.8	16.0	-115.56	525.0	535.9	773.7	744.8	28.90	26.773		
4,159.1	4,090.0	4,067.6	3,994.0	16.0	16.3	-115.64	532.9	545.0	786.3	756.9	29.38	26.761		
4,200.0	4,130.1	4,107.6	4,033.1	16.2	16.4	-115.83	538.3	551.3	794.8	765.1	29.71	26.751		
4,300.0	4,228.5	4,205.6	4,129.0	16.5	16.9	-116.12	551.7	566.7	814.7	784.2	30.44	26.761		
4,400.0	4,327.5	4,303.8	4,225.0	16.8	17.3	-116.15	565.1	582.1	833.1	801.9	31.13	26.760		
4,500.0	4,426.9	4,402.1	4,321.2	17.0	17.8	-115.97	578.5	597.5	850.0	818.2	31.77	26.753		
4,600.0	4,526.6	4,500.4	4,417.3	17.2	18.2	-115.56	591.9	612.9	865.4	833.1	32.36	26.744		
4,700.0	4,626.6	4,598.5	4,513.2	17.3	18.7	-114.96	605.3	628.3	879.6	846.7	32.90	26.737		
4,759.3	4,685.8	4,663.5	4,576.9	17.4	18.9	-3.46	614.0	638.4	887.3	860.0	27.25	32.557		
4,800.0	4,726.5	4,713.0	4,625.5	17.5	19.1	-2.98	620.1	645.3	892.0	864.5	27.48	32.464		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,835.9	4,746.9	17.6	19.5	-2.01	632.8	659.9	901.9	873.9	27.97	32.244	
5,000.0	4,926.5	4,960.3	4,870.4	17.7	19.8	-1.31	642.1	670.7	909.2	880.7	28.43	31.984	
5,100.0	5,026.5	5,085.7	4,995.5	17.8	20.0	-0.88	648.0	677.4	913.7	884.9	28.84	31.687	
5,200.0	5,126.5	5,211.6	5,121.4	18.0	20.2	-0.72	650.2	680.0	915.5	886.3	29.20	31.356	
5,300.0	5,226.5	5,314.8	5,224.5	18.1	20.3	-0.72	650.2	680.1	915.5	886.0	29.51	31.028	
5,400.0	5,326.5	5,414.8	5,324.5	18.2	20.4	-0.72	650.2	680.1	915.5	885.7	29.82	30.699	
5,500.0	5,426.5	5,514.8	5,424.5	18.3	20.5	-0.72	650.2	680.1	915.5	885.4	30.14	30.374	
5,600.0	5,526.5	5,614.8	5,524.5	18.5	20.7	-0.72	650.2	680.1	915.5	885.1	30.46	30.052	
5,700.0	5,626.5	5,714.8	5,624.5	18.6	20.8	-0.72	650.2	680.1	915.5	884.7	30.79	29.735	
5,800.0	5,726.5	5,814.8	5,724.5	18.8	20.9	-0.72	650.2	680.1	915.5	884.4	31.12	29.421	
5,900.0	5,826.5	5,914.8	5,824.5	18.9	21.0	-0.72	650.2	680.1	915.5	884.1	31.45	29.110	
6,000.0	5,926.5	6,014.8	5,924.5	19.0	21.2	-0.72	650.2	680.1	915.5	883.7	31.78	28.804	
6,100.0	6,026.5	6,114.8	6,024.5	19.2	21.3	-0.72	650.2	680.1	915.5	883.4	32.12	28.502	
6,200.0	6,126.5	6,214.8	6,124.5	19.3	21.4	-0.72	650.2	680.1	915.5	883.1	32.46	28.203	
6,300.0	6,226.5	6,314.8	6,224.5	19.5	21.6	-0.72	650.2	680.1	915.5	882.7	32.80	27.909	
6,400.0	6,326.5	6,414.8	6,324.5	19.6	21.7	-0.72	650.2	680.1	915.5	882.4	33.15	27.618	
6,433.3	6,359.8	6,448.0	6,357.8	19.7	21.8	-0.72	650.2	680.1	915.5	882.3	33.26	27.522	
6,450.0	6,376.5	6,464.8	6,374.5	19.7	21.8	89.30	650.2	680.1	915.5	877.1	38.42	23.828	
6,500.0	6,426.5	6,514.7	6,424.5	19.7	21.9	89.48	650.2	680.1	915.5	877.0	38.53	23.759	
6,550.0	6,476.0	6,564.2	6,474.0	19.7	21.9	89.87	650.2	680.0	915.4	876.9	38.60	23.719	
6,563.9	6,489.7	6,577.9	6,487.7	19.7	21.9	90.00	650.2	679.6	915.4	876.8	38.60	23.716	
6,600.0	6,525.0	6,613.8	6,523.5	19.7	22.0	90.33	650.2	677.5	915.5	876.9	38.60	23.715	
6,650.0	6,573.3	6,663.9	6,573.2	19.7	22.0	90.79	650.2	671.5	915.5	877.0	38.55	23.748	
6,700.0	6,620.4	6,714.5	6,622.9	19.6	22.0	91.24	650.2	661.9	915.7	877.2	38.46	23.811	
6,750.0	6,666.3	6,765.7	6,672.3	19.6	21.9	91.69	650.2	648.7	915.9	877.5	38.32	23.901	
6,800.0	6,710.7	6,817.4	6,721.2	19.5	21.9	92.14	650.2	631.8	916.1	877.9	38.15	24.012	
6,850.0	6,753.4	6,869.6	6,769.2	19.4	21.8	92.57	650.2	611.2	916.4	878.4	37.97	24.135	
6,900.0	6,794.2	6,922.5	6,816.1	19.3	21.7	93.00	650.2	586.9	916.7	878.9	37.79	24.261	
6,950.0	6,832.9	6,975.9	6,861.5	19.3	21.6	93.41	650.2	558.8	917.1	879.5	37.62	24.378	
7,000.0	6,869.2	7,029.9	6,905.2	19.2	21.4	93.81	650.2	527.1	917.5	880.0	37.49	24.472	
7,050.0	6,903.1	7,084.4	6,946.8	19.2	21.3	94.19	650.2	491.8	917.9	880.5	37.42	24.528	
7,100.0	6,934.3	7,139.5	6,985.9	19.2	21.2	94.55	650.2	453.0	918.4	880.9	37.44	24.528	
7,150.0	6,962.8	7,195.2	7,022.3	19.3	21.1	94.89	650.2	411.0	918.8	881.3	37.57	24.455	
7,200.0	6,988.3	7,251.3	7,055.6	19.5	21.0	95.20	650.2	365.8	919.3	881.4	37.84	24.295	
7,250.0	7,010.7	7,307.9	7,085.5	19.7	20.9	95.49	650.2	317.8	919.7	881.4	38.27	24.034	
7,300.0	7,029.9	7,364.9	7,111.6	20.0	20.9	95.75	650.2	267.1	920.1	881.2	38.87	23.670	
7,350.0	7,045.9	7,422.3	7,133.8	20.4	21.0	95.97	650.2	214.2	920.5	880.8	39.66	23.210	
7,400.0	7,058.6	7,480.1	7,151.8	20.8	21.1	96.16	650.2	159.3	920.8	880.2	40.63	22.662	
7,450.0	7,067.8	7,538.2	7,165.4	21.4	21.4	96.32	650.2	102.8	921.1	879.3	41.78	22.043	
7,500.0	7,073.6	7,596.5	7,174.4	22.0	21.9	96.44	650.2	45.2	921.3	878.2	43.10	21.374	
7,550.0	7,076.0	7,655.0	7,178.6	22.7	22.5	96.52	650.2	-13.1	921.4	876.8	44.57	20.673	
7,561.7	7,076.0	7,668.7	7,178.9	22.9	22.7	96.54	650.2	-26.8	921.4	876.5	44.94	20.505	
7,600.0	7,075.8	7,708.7	7,178.9	23.4	23.2	96.55	650.2	-66.8	921.5	875.3	46.11	19.984	
7,700.0	7,075.3	7,808.7	7,178.5	25.1	24.7	96.56	650.2	-166.8	921.5	872.1	49.39	18.657	
7,800.0	7,074.8	7,908.7	7,178.2	27.0	26.5	96.56	650.2	-266.8	921.5	868.4	53.04	17.372	
7,900.0	7,074.4	8,008.7	7,177.8	29.0	28.5	96.57	650.2	-366.8	921.5	864.5	57.01	16.163	
8,000.0	7,073.9	8,108.7	7,177.4	31.1	30.6	96.58	650.2	-466.8	921.5	860.3	61.23	15.050	
8,100.0	7,073.4	8,208.7	7,177.1	33.4	32.8	96.58	650.2	-566.8	921.5	855.9	65.65	14.036	
8,200.0	7,072.9	8,308.7	7,176.7	35.7	35.1	96.59	650.2	-666.8	921.5	851.3	70.24	13.119	
8,300.0	7,072.4	8,408.7	7,176.3	38.1	37.5	96.60	650.2	-766.8	921.6	846.6	74.97	12.293	
8,400.0	7,071.9	8,508.7	7,176.0	40.6	39.9	96.61	650.2	-866.8	921.6	841.8	79.80	11.549	
8,500.0	7,071.5	8,608.7	7,175.6	43.1	42.4	96.61	650.2	-966.8	921.6	836.9	84.72	10.877	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,708.7	7,175.2	45.6	44.9	96.62	650.2	-1,066.8	921.6	831.9	89.73	10.271	
8,700.0	7,070.5	8,808.7	7,174.9	48.1	47.5	96.63	650.2	-1,166.8	921.6	826.8	94.79	9.722	
8,800.0	7,070.0	8,908.7	7,174.5	50.7	50.0	96.64	650.2	-1,266.8	921.6	821.7	99.91	9.224	
8,900.0	7,069.5	9,008.7	7,174.1	53.3	52.6	96.64	650.2	-1,366.8	921.6	816.6	105.08	8.771	
9,000.0	7,069.0	9,108.7	7,173.8	56.0	55.3	96.65	650.2	-1,466.8	921.7	811.4	110.29	8.357	
9,100.0	7,068.6	9,208.7	7,173.4	58.6	57.9	96.66	650.3	-1,566.8	921.7	806.1	115.53	7.978	
9,200.0	7,068.1	9,308.7	7,173.0	61.3	60.5	96.67	650.3	-1,666.8	921.7	800.9	120.80	7.630	
9,300.0	7,067.6	9,408.7	7,172.7	63.9	63.2	96.67	650.3	-1,766.8	921.7	795.6	126.10	7.309	
9,400.0	7,067.1	9,508.7	7,172.3	66.6	65.9	96.68	650.3	-1,866.8	921.7	790.3	131.42	7.013	
9,500.0	7,066.6	9,608.7	7,172.0	69.3	68.6	96.69	650.3	-1,966.8	921.7	785.0	136.77	6.739	
9,600.0	7,066.1	9,708.7	7,171.6	72.0	71.2	96.69	650.3	-2,066.8	921.7	779.6	142.13	6.485	
9,700.0	7,065.6	9,808.7	7,171.2	74.7	74.0	96.70	650.3	-2,166.8	921.8	774.3	147.50	6.249	
9,800.0	7,065.2	9,908.7	7,170.9	77.5	76.7	96.71	650.3	-2,266.8	921.8	768.9	152.89	6.029	
9,900.0	7,064.7	10,008.7	7,170.5	80.2	79.4	96.72	650.3	-2,366.8	921.8	763.5	158.29	5.823	
10,000.0	7,064.2	10,108.7	7,170.1	82.9	82.1	96.72	650.3	-2,466.8	921.8	758.1	163.71	5.631	
10,100.0	7,063.7	10,208.7	7,169.8	85.6	84.8	96.73	650.3	-2,566.8	921.8	752.7	169.13	5.450	
10,200.0	7,063.2	10,308.7	7,169.4	88.4	87.6	96.74	650.3	-2,666.8	921.8	747.3	174.57	5.281	
10,300.0	7,062.7	10,408.7	7,169.0	91.1	90.3	96.75	650.3	-2,766.8	921.8	741.8	180.01	5.121	
10,400.0	7,062.3	10,508.7	7,168.7	93.9	93.0	96.75	650.3	-2,866.8	921.9	736.4	185.46	4.971	
10,500.0	7,061.8	10,608.7	7,168.3	96.6	95.8	96.76	650.3	-2,966.8	921.9	731.0	190.92	4.829	
10,600.0	7,061.3	10,708.7	7,168.0	99.4	98.5	96.77	650.3	-3,066.8	921.9	725.5	196.38	4.694	
10,700.0	7,060.8	10,808.7	7,167.6	102.1	101.3	96.78	650.3	-3,166.8	921.9	720.0	201.86	4.567	
10,800.0	7,060.3	10,908.7	7,167.2	104.9	104.0	96.78	650.3	-3,266.8	921.9	714.6	207.33	4.447	
10,900.0	7,059.8	11,008.7	7,166.9	107.6	106.8	96.79	650.3	-3,366.8	921.9	709.1	212.81	4.332	
11,000.0	7,059.4	11,108.7	7,166.5	110.4	109.6	96.80	650.3	-3,466.8	922.0	703.7	218.30	4.223	
11,100.0	7,058.9	11,208.7	7,166.1	113.2	112.3	96.81	650.3	-3,566.8	922.0	698.2	223.79	4.120	
11,200.0	7,058.4	11,308.7	7,165.8	115.9	115.1	96.81	650.3	-3,666.8	922.0	692.7	229.28	4.021	
11,300.0	7,057.9	11,408.7	7,165.4	118.7	117.9	96.82	650.3	-3,766.8	922.0	687.2	234.78	3.927	
11,400.0	7,057.4	11,508.7	7,165.1	121.5	120.6	96.83	650.3	-3,866.8	922.0	681.7	240.28	3.837	
11,500.0	7,056.9	11,608.7	7,164.7	124.3	123.4	96.84	650.3	-3,966.8	922.0	676.2	245.78	3.751	
11,600.0	7,056.5	11,708.7	7,164.3	127.0	126.2	96.84	650.3	-4,066.8	922.0	670.8	251.29	3.669	
11,688.2	7,056.0	11,796.9	7,164.0	129.5	128.6	96.85	650.3	-4,154.9	922.1	665.9	256.15	3.600 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	0.00	14.9	0.0	15.0				
100.0	100.0	99.0	99.0	0.1	0.1	0.00	14.9	0.0	14.9	14.7	0.19	77.211	
200.0	200.0	199.0	199.0	0.3	0.3	0.00	14.9	0.0	14.9	14.3	0.64	23.276	
300.0	300.0	299.0	299.0	0.5	0.5	0.00	14.9	0.0	14.9	13.8	1.09	13.688	
400.0	400.0	399.0	399.0	0.8	0.8	0.00	14.9	0.0	14.9	13.4	1.54	9.694	
500.0	500.0	499.0	499.0	1.0	1.0	0.00	14.9	0.0	14.9	12.9	1.99	7.505	
600.0	600.0	599.0	599.0	1.2	1.2	0.00	14.9	0.0	14.9	12.5	2.44	6.122 CC, ES	
700.0	700.0	699.0	699.0	1.4	1.4	-116.95	14.9	0.0	15.6	12.8	2.87	5.447	
800.0	799.8	799.1	799.1	1.6	1.7	-126.56	14.7	1.7	17.9	14.6	3.28	5.451	
900.0	899.5	899.3	899.2	1.9	1.9	-132.45	14.1	6.9	21.2	17.5	3.70	5.741	
1,000.0	998.7	999.6	999.1	2.1	2.1	-135.42	13.1	15.5	25.4	21.3	4.14	6.133	
1,100.0	1,097.5	1,100.0	1,098.7	2.4	2.3	-136.45	11.7	27.7	30.3	25.6	4.63	6.545	
1,200.0	1,195.6	1,200.5	1,197.9	2.7	2.6	-136.26	9.9	43.3	35.8	30.6	5.17	6.929	
1,200.1	1,195.8	1,200.6	1,198.1	2.7	2.6	-136.26	9.9	43.3	35.8	30.6	5.17	6.930	
1,300.0	1,293.4	1,301.0	1,296.6	3.1	3.0	-133.69	7.6	62.4	40.8	35.0	5.81	7.019	
1,400.0	1,391.3	1,400.9	1,394.3	3.5	3.3	-129.76	5.2	83.0	45.0	38.5	6.54	6.886	
1,500.0	1,489.1	1,500.8	1,492.0	4.0	3.7	-126.52	2.8	103.6	49.5	42.1	7.32	6.758	
1,600.0	1,586.9	1,600.6	1,589.7	4.4	4.1	-123.82	0.4	124.3	54.0	45.9	8.13	6.642	
1,700.0	1,684.7	1,700.5	1,687.4	4.8	4.6	-121.55	-2.1	144.9	58.7	49.7	8.97	6.541	
1,800.0	1,782.5	1,800.4	1,785.1	5.3	5.0	-119.61	-4.5	165.5	63.4	53.6	9.83	6.452	
1,900.0	1,880.3	1,900.2	1,882.7	5.7	5.4	-117.95	-6.9	186.1	68.2	57.5	10.70	6.376	
2,000.0	1,978.1	2,000.1	1,980.4	6.1	5.9	-116.50	-9.3	206.7	73.1	61.5	11.59	6.310	
2,100.0	2,075.9	2,100.0	2,078.1	6.6	6.3	-115.23	-11.7	227.4	78.0	65.5	12.47	6.252	
2,200.0	2,173.8	2,199.8	2,175.8	7.0	6.7	-114.12	-14.1	248.0	82.9	69.6	13.37	6.202	
2,300.0	2,271.6	2,299.7	2,273.5	7.5	7.2	-113.13	-16.6	268.6	87.9	73.6	14.27	6.159	
2,400.0	2,369.4	2,399.6	2,371.2	8.0	7.6	-112.25	-19.0	289.2	92.9	77.7	15.17	6.120	
2,500.0	2,467.2	2,499.4	2,468.8	8.4	8.1	-111.45	-21.4	309.8	97.9	81.8	16.08	6.087	
2,600.0	2,565.0	2,599.3	2,566.5	8.9	8.5	-110.74	-23.8	330.5	102.9	85.9	16.99	6.057	
2,700.0	2,662.8	2,699.2	2,664.2	9.3	9.0	-110.09	-26.2	351.1	107.9	90.0	17.90	6.030	
2,800.0	2,760.6	2,799.0	2,761.9	9.8	9.4	-109.49	-28.7	371.7	113.0	94.2	18.81	6.006	
2,900.0	2,858.5	2,898.9	2,859.6	10.2	9.9	-108.95	-31.1	392.3	118.0	98.3	19.72	5.984	
3,000.0	2,956.3	2,998.8	2,957.3	10.7	10.3	-108.46	-33.5	413.0	123.1	102.4	20.64	5.964	
3,100.0	3,054.1	3,098.6	3,054.9	11.2	10.8	-108.00	-35.9	433.6	128.2	106.6	21.55	5.947	
3,200.0	3,151.9	3,198.5	3,152.6	11.6	11.2	-107.58	-38.3	454.2	133.2	110.8	22.47	5.930	
3,300.0	3,249.7	3,298.4	3,250.3	12.1	11.7	-107.19	-40.7	474.8	138.3	114.9	23.38	5.916	
3,400.0	3,347.5	3,398.2	3,348.0	12.5	12.2	-106.82	-43.2	495.4	143.4	119.1	24.30	5.902	
3,500.0	3,445.3	3,498.1	3,445.7	13.0	12.6	-106.48	-45.6	516.1	148.5	123.3	25.22	5.890	
3,600.0	3,543.2	3,598.0	3,543.4	13.5	13.1	-106.17	-48.0	536.7	153.6	127.5	26.14	5.878	
3,700.0	3,641.0	3,697.8	3,641.0	13.9	13.5	-105.87	-50.4	557.3	158.7	131.7	27.05	5.868	
3,800.0	3,738.8	3,797.7	3,738.7	14.4	14.0	-105.59	-52.8	577.9	163.9	135.9	27.97	5.858	
3,900.0	3,836.6	3,897.6	3,836.4	14.8	14.4	-105.33	-55.3	598.6	169.0	140.1	28.89	5.849	
4,000.0	3,934.4	3,997.4	3,934.1	15.3	14.9	-105.09	-57.7	619.2	174.1	144.3	29.81	5.840	
4,100.0	4,032.2	4,097.2	4,031.9	15.8	15.3	-105.28	-59.9	638.5	179.2	148.6	30.64	5.850	
4,159.1	4,090.0	4,156.1	4,090.0	16.0	15.5	-105.90	-61.1	648.3	182.3	151.3	31.04	5.873	
4,200.0	4,130.1	4,196.8	4,130.2	16.2	15.6	-106.49	-61.8	654.4	184.4	153.1	31.29	5.894	
4,300.0	4,228.5	4,296.2	4,228.9	16.5	15.8	-107.90	-63.3	666.9	189.0	157.3	31.76	5.952	
4,400.0	4,327.5	4,395.5	4,327.8	16.8	16.0	-109.27	-64.3	675.9	192.9	160.8	32.14	6.001	
4,500.0	4,426.9	4,494.7	4,426.8	17.0	16.2	-110.62	-65.0	681.6	196.0	163.6	32.44	6.043	
4,600.0	4,526.6	4,593.7	4,525.8	17.2	16.3	-111.97	-65.3	683.9	198.4	165.7	32.64	6.078	
4,700.0	4,626.6	4,693.5	4,625.6	17.3	16.5	-112.99	-65.3	683.9	199.8	167.0	32.82	6.089	
4,759.3	4,685.8	4,752.8	4,684.8	17.4	16.5	-2.18	-65.3	683.9	200.1	176.4	23.70	8.441	
4,800.0	4,726.5	4,793.5	4,725.5	17.5	16.6	-2.18	-65.3	683.9	200.1	176.2	23.84	8.392	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,893.5	4,825.5	17.6	16.7	-2.18	-65.3	683.9	200.1	175.9	24.18	8.274	
5,000.0	4,926.5	4,993.5	4,925.5	17.7	16.9	-2.18	-65.3	683.9	200.1	175.6	24.53	8.157	
5,100.0	5,026.5	5,093.5	5,025.5	17.8	17.0	-2.18	-65.3	683.9	200.1	175.2	24.88	8.043	
5,200.0	5,126.5	5,193.5	5,125.5	18.0	17.1	-2.18	-65.3	683.9	200.1	174.9	25.23	7.932	
5,300.0	5,226.5	5,293.5	5,225.5	18.1	17.3	-2.18	-65.3	683.9	200.1	174.5	25.58	7.822	
5,400.0	5,326.5	5,393.5	5,325.5	18.2	17.4	-2.18	-65.3	683.9	200.1	174.1	25.94	7.714	
5,500.0	5,426.5	5,493.5	5,425.5	18.3	17.6	-2.18	-65.3	683.9	200.1	173.8	26.30	7.609	
5,600.0	5,526.5	5,593.5	5,525.5	18.5	17.7	-2.18	-65.3	683.9	200.1	173.4	26.66	7.505	
5,700.0	5,626.5	5,693.5	5,625.5	18.6	17.8	-2.18	-65.3	683.9	200.1	173.1	27.02	7.404	
5,800.0	5,726.5	5,793.5	5,725.5	18.8	18.0	-2.18	-65.3	683.9	200.1	172.7	27.39	7.304	
5,900.0	5,826.5	5,893.5	5,825.5	18.9	18.1	-2.18	-65.3	683.9	200.1	172.3	27.76	7.207	
6,000.0	5,926.5	5,993.5	5,925.5	19.0	18.3	-2.18	-65.3	683.9	200.1	171.9	28.13	7.112	
6,100.0	6,026.5	6,093.5	6,025.5	19.2	18.4	-2.18	-65.3	683.9	200.1	171.6	28.51	7.018	
6,200.0	6,126.5	6,193.5	6,125.5	19.3	18.6	-2.18	-65.3	683.9	200.1	171.2	28.88	6.927	
6,300.0	6,226.5	6,293.5	6,225.5	19.5	18.8	-2.18	-65.3	683.9	200.1	170.8	29.26	6.837	
6,400.0	6,326.5	6,393.5	6,325.5	19.6	18.9	-2.18	-65.3	683.9	200.1	170.4	29.64	6.750	
6,433.3	6,359.8	6,426.8	6,358.8	19.7	19.0	-2.18	-65.3	683.9	200.1	170.3	29.77	6.721	
6,450.0	6,376.5	6,443.5	6,375.5	19.7	19.0	87.88	-65.3	683.9	200.1	162.3	37.80	5.293	
6,500.0	6,426.5	6,493.4	6,425.5	19.7	19.1	88.72	-65.3	683.9	200.0	162.0	37.99	5.264	
6,537.7	6,463.9	6,530.8	6,462.9	19.7	19.1	90.00	-65.3	683.9	199.9	161.8	38.16	5.240	
6,550.0	6,476.0	6,543.0	6,475.0	19.7	19.2	90.54	-65.3	683.9	199.9	161.7	38.22	5.231	
6,600.0	6,525.0	6,592.0	6,524.0	19.7	19.2	93.27	-65.3	683.9	200.3	161.8	38.46	5.208	
6,650.0	6,573.3	6,640.3	6,572.3	19.7	19.3	96.80	-65.3	683.9	201.5	162.8	38.64	5.214	
6,700.0	6,620.4	6,690.3	6,622.3	19.6	19.4	100.74	-65.3	682.0	203.8	165.1	38.70	5.268	
6,750.0	6,666.3	6,741.5	6,673.2	19.6	19.4	104.58	-65.3	676.4	207.2	168.6	38.57	5.372	
6,800.0	6,710.7	6,793.8	6,724.6	19.5	19.4	108.27	-65.3	667.0	211.5	173.2	38.27	5.526	
6,850.0	6,753.4	6,847.4	6,776.5	19.4	19.3	111.78	-65.3	653.4	216.6	178.8	37.82	5.728	
6,900.0	6,794.2	6,902.3	6,828.4	19.3	19.3	115.08	-65.3	635.6	222.4	185.2	37.22	5.976	
6,950.0	6,832.9	6,958.6	6,880.0	19.3	19.2	118.16	-65.3	613.2	228.8	192.3	36.51	6.266	
7,000.0	6,869.2	7,016.3	6,931.0	19.2	19.1	121.00	-65.3	586.2	235.5	199.8	35.72	6.592	
7,050.0	6,903.1	7,075.5	6,980.8	19.2	19.1	123.60	-65.3	554.2	242.4	207.5	34.90	6.947	
7,100.0	6,934.3	7,136.2	7,028.9	19.2	19.0	125.96	-65.3	517.4	249.4	215.3	34.08	7.319	
7,150.0	6,962.8	7,198.3	7,074.8	19.3	19.0	128.06	-65.3	475.5	256.3	223.0	33.31	7.694	
7,200.0	6,988.3	7,261.9	7,117.9	19.5	19.0	129.93	-65.3	428.7	262.9	230.3	32.66	8.051	
7,250.0	7,010.7	7,327.0	7,157.5	19.7	19.1	131.56	-65.3	377.1	269.1	236.9	32.15	8.370	
7,300.0	7,029.9	7,393.4	7,192.8	20.0	19.4	132.95	-65.3	320.9	274.7	242.9	31.84	8.628	
7,350.0	7,045.9	7,461.0	7,223.4	20.4	19.8	134.12	-65.3	260.6	279.7	247.9	31.78	8.800	
7,400.0	7,058.6	7,529.7	7,248.4	20.8	20.3	135.05	-65.3	196.7	283.8	251.8	31.99	8.871	
7,450.0	7,067.8	7,599.3	7,267.4	21.4	21.0	135.76	-65.3	129.7	287.0	254.5	32.48	8.836	
7,500.0	7,073.6	7,669.6	7,279.9	22.0	21.8	136.25	-65.3	60.6	289.3	256.0	33.28	8.692	
7,550.0	7,076.0	7,740.3	7,285.6	22.7	22.7	136.51	-65.3	-9.8	290.5	256.2	34.36	8.456	
7,561.7	7,076.0	7,756.9	7,286.0	22.9	23.0	136.54	-65.3	-26.5	290.7	256.0	34.65	8.389	
7,600.0	7,075.8	7,796.4	7,286.1	23.4	23.6	136.58	-65.3	-65.9	290.9	255.4	35.48	8.198	
7,700.0	7,075.3	7,896.3	7,286.4	25.1	25.3	136.68	-65.3	-165.9	291.4	253.6	37.82	7.705	
7,800.0	7,074.8	7,996.3	7,286.6	27.0	27.1	136.78	-65.3	-265.9	292.0	251.6	40.41	7.225	
7,900.0	7,074.4	8,096.3	7,286.9	29.0	29.1	136.88	-65.3	-365.9	292.5	249.3	43.20	6.772	
8,000.0	7,073.9	8,196.3	7,287.2	31.1	31.3	136.98	-65.3	-465.9	293.1	246.9	46.14	6.352	
8,100.0	7,073.4	8,296.3	7,287.4	33.4	33.5	137.08	-65.3	-565.9	293.6	244.4	49.21	5.967	
8,200.0	7,072.9	8,396.3	7,287.7	35.7	35.8	137.18	-65.3	-665.9	294.2	241.8	52.38	5.616	
8,300.0	7,072.4	8,496.3	7,287.9	38.1	38.2	137.28	-65.3	-765.9	294.7	239.1	55.64	5.297	
8,400.0	7,071.9	8,596.3	7,288.2	40.6	40.6	137.38	-65.3	-865.9	295.3	236.3	58.96	5.008	
8,500.0	7,071.5	8,696.3	7,288.5	43.1	43.1	137.48	-65.3	-965.8	295.8	233.5	62.33	4.746	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,796.3	7,288.7	45.6	45.6	137.57	-65.3	-1,065.8	296.4	230.6	65.75	4.508	
8,700.0	7,070.5	8,896.3	7,289.0	48.1	48.2	137.67	-65.3	-1,165.8	296.9	227.7	69.20	4.291	
8,800.0	7,070.0	8,996.3	7,289.3	50.7	50.8	137.77	-65.3	-1,265.8	297.5	224.8	72.68	4.093	
8,900.0	7,069.5	9,096.3	7,289.5	53.3	53.4	137.87	-65.3	-1,365.8	298.0	221.9	76.18	3.912	
9,000.0	7,069.0	9,196.3	7,289.8	56.0	56.0	137.96	-65.3	-1,465.8	298.6	218.9	79.70	3.747	
9,100.0	7,068.6	9,296.3	7,290.1	58.6	58.6	138.06	-65.3	-1,565.8	299.2	215.9	83.23	3.594	
9,200.0	7,068.1	9,396.3	7,290.3	61.3	61.3	138.15	-65.3	-1,665.8	299.7	212.9	86.77	3.454	
9,300.0	7,067.6	9,496.3	7,290.6	63.9	64.0	138.25	-65.3	-1,765.8	300.3	210.0	90.32	3.325	
9,400.0	7,067.1	9,596.3	7,290.9	66.6	66.6	138.34	-65.3	-1,865.8	300.8	207.0	93.87	3.205	
9,500.0	7,066.6	9,696.3	7,291.1	69.3	69.3	138.44	-65.3	-1,965.8	301.4	204.0	97.43	3.093	
9,600.0	7,066.1	9,796.3	7,291.4	72.0	72.0	138.53	-65.3	-2,065.8	302.0	201.0	100.99	2.990	
9,700.0	7,065.6	9,896.3	7,291.7	74.7	74.7	138.63	-65.3	-2,165.8	302.5	198.0	104.55	2.894	
9,800.0	7,065.2	9,996.3	7,291.9	77.5	77.4	138.72	-65.3	-2,265.8	303.1	195.0	108.11	2.804	
9,900.0	7,064.7	10,096.3	7,292.2	80.2	80.2	138.81	-65.2	-2,365.8	303.7	192.0	111.67	2.719	
10,000.0	7,064.2	10,196.3	7,292.5	82.9	82.9	138.91	-65.2	-2,465.8	304.2	189.0	115.22	2.640	
10,100.0	7,063.7	10,296.3	7,292.7	85.6	85.6	139.00	-65.2	-2,565.8	304.8	186.0	118.77	2.566	
10,200.0	7,063.2	10,396.3	7,293.0	88.4	88.4	139.09	-65.2	-2,665.8	305.4	183.0	122.31	2.496	
10,300.0	7,062.7	10,496.3	7,293.3	91.1	91.1	139.18	-65.2	-2,765.8	305.9	180.1	125.86	2.431	
10,400.0	7,062.3	10,596.3	7,293.5	93.9	93.8	139.28	-65.2	-2,865.8	306.5	177.1	129.39	2.369	
10,500.0	7,061.8	10,696.3	7,293.8	96.6	96.6	139.37	-65.2	-2,965.8	307.1	174.1	132.92	2.310	
10,600.0	7,061.3	10,796.3	7,294.1	99.4	99.3	139.46	-65.2	-3,065.8	307.6	171.2	136.44	2.255	
10,700.0	7,060.8	10,896.3	7,294.3	102.1	102.1	139.55	-65.2	-3,165.8	308.2	168.3	139.96	2.202	
10,800.0	7,060.3	10,996.3	7,294.6	104.9	104.9	139.64	-65.2	-3,265.8	308.8	165.3	143.47	2.152	
10,900.0	7,059.8	11,096.2	7,294.9	107.6	107.6	139.73	-65.2	-3,365.8	309.4	162.4	146.97	2.105	
11,000.0	7,059.4	11,196.2	7,295.1	110.4	110.4	139.82	-65.2	-3,465.8	309.9	159.5	150.46	2.060	
11,100.0	7,058.9	11,296.2	7,295.4	113.2	113.1	139.91	-65.2	-3,565.8	310.5	156.6	153.95	2.017	
11,200.0	7,058.4	11,396.2	7,295.7	115.9	115.9	140.00	-65.2	-3,665.8	311.1	153.7	157.42	1.976	
11,300.0	7,057.9	11,496.2	7,296.0	118.7	118.7	140.09	-65.2	-3,765.8	311.7	150.8	160.89	1.937	
11,400.0	7,057.4	11,596.2	7,296.2	121.5	121.4	140.17	-65.2	-3,865.7	312.2	147.9	164.35	1.900	
11,500.0	7,056.9	11,696.2	7,296.5	124.3	124.2	140.26	-65.2	-3,965.7	312.8	145.0	167.81	1.864	
11,600.0	7,056.5	11,796.2	7,296.8	127.0	127.0	140.35	-65.2	-4,065.7	313.4	142.2	171.25	1.830	
11,688.2	7,056.0	11,884.4	7,297.0	129.5	129.4	140.43	-65.2	-4,153.9	313.9	139.7	174.28	1.801 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-179.47	-30.2	-0.3	30.2					
100.0	100.0	100.0	100.0	0.1	0.1	-179.47	-30.2	-0.3	30.2	30.0	0.19	155.530		
200.0	200.0	200.0	200.0	0.3	0.3	-179.47	-30.2	-0.3	30.2	29.6	0.64	46.958		
300.0	300.0	300.0	300.0	0.5	0.5	-179.47	-30.2	-0.3	30.2	29.1	1.09	27.653		
400.0	400.0	400.0	400.0	0.8	0.8	-179.47	-30.2	-0.3	30.2	28.7	1.54	19.597 CC, ES		
500.0	500.0	499.3	499.2	1.0	1.0	178.19	-31.4	1.0	31.4	29.5	1.97	15.954		
600.0	600.0	598.3	598.1	1.2	1.2	172.18	-34.9	4.8	35.2	32.8	2.39	14.732		
700.0	700.0	697.0	696.5	1.4	1.4	55.58	-40.6	11.1	41.2	38.4	2.81	14.655		
800.0	799.8	795.4	794.2	1.6	1.7	52.57	-48.6	19.9	48.3	45.1	3.24	14.926		
900.0	899.5	893.5	891.1	1.9	2.0	51.33	-58.8	31.1	56.3	52.6	3.69	15.246		
1,000.0	998.7	991.4	987.2	2.1	2.3	51.24	-71.2	44.7	65.0	60.8	4.19	15.531		
1,100.0	1,097.5	1,090.8	1,084.5	2.4	2.7	52.50	-85.1	59.9	73.4	68.6	4.74	15.469		
1,200.0	1,195.6	1,190.5	1,182.0	2.7	3.1	55.52	-99.1	75.3	79.7	74.3	5.38	14.818		
1,200.1	1,195.8	1,190.7	1,182.1	2.7	3.1	55.53	-99.1	75.3	79.7	74.3	5.38	14.817		
1,300.0	1,293.4	1,290.2	1,279.5	3.1	3.6	59.18	-113.1	90.6	85.3	79.2	6.10	13.980		
1,400.0	1,391.3	1,389.9	1,377.0	3.5	4.0	62.37	-127.1	105.9	91.3	84.4	6.88	13.269		
1,500.0	1,489.1	1,489.6	1,474.6	4.0	4.5	65.16	-141.0	121.2	97.5	89.8	7.69	12.673		
1,600.0	1,586.9	1,589.3	1,572.1	4.4	4.9	67.62	-155.0	136.5	103.9	95.3	8.53	12.175		
1,700.0	1,684.7	1,689.0	1,669.6	4.8	5.4	69.79	-169.0	151.9	110.4	101.0	9.39	11.758		
1,800.0	1,782.5	1,788.8	1,767.1	5.3	5.8	71.71	-182.9	167.2	117.1	106.9	10.27	11.408		
1,900.0	1,880.3	1,888.5	1,864.7	5.7	6.3	73.43	-196.9	182.5	123.9	112.8	11.15	11.111		
2,000.0	1,978.1	1,988.2	1,962.2	6.1	6.7	74.96	-210.9	197.8	130.9	118.8	12.05	10.859		
2,100.0	2,075.9	2,087.9	2,059.7	6.6	7.2	76.34	-224.9	213.1	137.9	124.9	12.95	10.643		
2,200.0	2,173.8	2,187.6	2,157.2	7.0	7.6	77.58	-238.8	228.5	144.9	131.1	13.86	10.457		
2,300.0	2,271.6	2,287.3	2,254.7	7.5	8.1	78.71	-252.8	243.8	152.1	137.3	14.77	10.295		
2,400.0	2,369.4	2,387.0	2,352.3	8.0	8.6	79.74	-266.8	259.1	159.3	143.6	15.69	10.153		
2,500.0	2,467.2	2,486.7	2,449.8	8.4	9.0	80.68	-280.7	274.4	166.5	149.9	16.60	10.029		
2,600.0	2,565.0	2,586.4	2,547.3	8.9	9.5	81.54	-294.7	289.7	173.8	156.3	17.52	9.919		
2,700.0	2,662.8	2,686.1	2,644.8	9.3	9.9	82.33	-308.7	305.1	181.1	162.6	18.44	9.821		
2,800.0	2,760.6	2,785.8	2,742.4	9.8	10.4	83.06	-322.7	320.4	188.4	169.1	19.36	9.733		
2,900.0	2,858.5	2,885.5	2,839.9	10.2	10.9	83.73	-336.6	335.7	195.8	175.5	20.28	9.655		
3,000.0	2,956.3	2,985.2	2,937.4	10.7	11.3	84.36	-350.6	351.0	203.2	182.0	21.20	9.584		
3,100.0	3,054.1	3,084.9	3,034.9	11.2	11.8	84.94	-364.6	366.3	210.6	188.5	22.12	9.520		
3,200.0	3,151.9	3,184.6	3,132.4	11.6	12.2	85.48	-378.5	381.7	218.1	195.0	23.05	9.462		
3,300.0	3,249.7	3,284.3	3,230.0	12.1	12.7	85.99	-392.5	397.0	225.5	201.6	23.97	9.409		
3,400.0	3,347.5	3,384.0	3,327.5	12.5	13.2	86.46	-406.5	412.3	233.0	208.1	24.89	9.361		
3,500.0	3,445.3	3,483.7	3,425.0	13.0	13.6	86.91	-420.5	427.6	240.5	214.7	25.81	9.316		
3,600.0	3,543.2	3,583.4	3,522.5	13.5	14.1	87.32	-434.4	442.9	248.0	221.2	26.74	9.275		
3,700.0	3,641.0	3,683.1	3,620.1	13.9	14.6	87.72	-448.4	458.3	255.5	227.8	27.66	9.238		
3,800.0	3,738.8	3,782.8	3,717.6	14.4	15.0	88.09	-462.4	473.6	263.0	234.4	28.58	9.203		
3,900.0	3,836.6	3,882.5	3,815.1	14.8	15.5	88.44	-476.3	488.9	270.6	241.1	29.50	9.170		
4,000.0	3,934.4	3,982.2	3,912.6	15.3	16.0	88.77	-490.3	504.2	278.1	247.7	30.43	9.140		
4,100.0	4,032.2	4,081.9	4,010.2	15.8	16.4	89.08	-504.3	519.5	285.7	254.3	31.35	9.112		
4,159.1	4,090.0	4,140.8	4,067.8	16.0	16.7	89.26	-512.5	528.6	290.1	258.2	31.89	9.097		
4,200.0	4,130.1	4,181.6	4,107.7	16.2	16.9	89.38	-518.3	534.9	293.2	261.0	32.24	9.094		
4,300.0	4,228.5	4,281.3	4,205.2	16.5	17.3	89.21	-532.2	550.2	300.8	267.9	32.98	9.122		
4,400.0	4,327.5	4,380.9	4,302.6	16.8	17.8	88.41	-546.2	565.5	308.5	274.9	33.62	9.177		
4,500.0	4,426.9	4,480.2	4,399.7	17.0	18.3	87.04	-560.1	580.7	316.5	282.3	34.16	9.266		
4,600.0	4,526.6	4,579.2	4,496.5	17.2	18.7	85.14	-574.0	595.9	324.9	290.4	34.58	9.397		
4,700.0	4,626.6	4,677.6	4,592.9	17.3	19.2	82.80	-587.8	611.1	334.2	299.3	34.87	9.584		
4,759.3	4,685.8	4,735.7	4,649.7	17.4	19.5	-167.80	-595.9	620.0	340.3	314.6	25.66	13.261		
4,800.0	4,726.5	4,775.6	4,688.6	17.5	19.6	-169.00	-601.5	626.1	344.7	318.6	26.08	13.216		

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design SE SW SEC. 21 T4N R67W 6th P.M. - WALTERS 21Q-214 - ORIGINAL WELLBORE - PROPOSAL #1												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	
4,900.0	4,826.5	4,873.4	4,784.3	17.6	20.1	-171.81	-615.2	641.1	356.1	329.0	27.12	13.130	
5,000.0	4,926.5	4,974.7	4,883.5	17.7	20.5	-174.50	-629.2	656.5	368.2	340.0	28.18	13.067	
5,100.0	5,026.5	5,081.9	4,989.1	17.8	20.9	-176.77	-641.7	670.2	379.0	349.9	29.10	13.023	
5,200.0	5,126.5	5,190.3	5,096.5	18.0	21.1	-178.47	-651.7	681.2	387.8	358.0	29.88	12.979	
5,300.0	5,226.5	5,299.8	5,205.4	18.1	21.4	-179.67	-659.0	689.2	394.4	363.9	30.53	12.920	
5,400.0	5,326.5	5,409.9	5,315.3	18.2	21.6	179.61	-663.6	694.2	398.5	367.5	31.03	12.842	
5,500.0	5,426.5	5,520.3	5,425.7	18.3	21.7	179.35	-665.2	696.0	400.1	368.6	31.41	12.736	
5,600.0	5,526.5	5,621.2	5,526.5	18.5	21.8	179.35	-665.2	696.0	400.1	368.3	31.71	12.615	
5,700.0	5,626.5	5,721.2	5,626.5	18.6	21.9	179.35	-665.2	696.0	400.1	368.1	32.01	12.498	
5,800.0	5,726.5	5,821.2	5,726.5	18.8	22.0	179.35	-665.2	696.0	400.1	367.8	32.31	12.381	
5,900.0	5,826.5	5,921.2	5,826.5	18.9	22.1	179.35	-665.2	696.0	400.1	367.4	32.61	12.266	
6,000.0	5,926.5	6,021.2	5,926.5	19.0	22.2	179.35	-665.2	696.0	400.1	367.1	32.92	12.152	
6,100.0	6,026.5	6,121.2	6,026.5	19.2	22.3	179.35	-665.2	696.0	400.1	366.8	33.23	12.039	
6,200.0	6,126.5	6,221.2	6,126.5	19.3	22.5	179.35	-665.2	696.0	400.1	366.5	33.54	11.926	
6,300.0	6,226.5	6,321.2	6,226.5	19.5	22.6	179.35	-665.2	696.0	400.1	366.2	33.86	11.815	
6,400.0	6,326.5	6,421.2	6,326.5	19.6	22.7	179.35	-665.2	696.0	400.1	365.9	34.18	11.705	
6,433.3	6,359.8	6,454.5	6,359.8	19.7	22.7	179.35	-665.2	696.0	400.1	365.8	34.28	11.669	
6,450.0	6,376.5	6,471.3	6,376.7	19.7	22.7	-90.65	-665.2	695.8	400.1	361.6	38.46	10.403	
6,500.0	6,426.5	6,521.6	6,426.9	19.7	22.8	-90.64	-665.2	692.9	400.1	361.5	38.53	10.382	
6,550.0	6,476.0	6,571.9	6,476.8	19.7	22.8	-90.64	-665.2	686.4	400.1	361.5	38.55	10.378	
6,600.0	6,525.0	6,622.3	6,526.1	19.7	22.8	-90.63	-665.2	676.5	400.1	361.5	38.51	10.388	
6,650.0	6,573.3	6,672.6	6,574.5	19.7	22.7	-90.62	-665.2	663.1	400.1	361.6	38.43	10.411	
6,700.0	6,620.4	6,722.9	6,622.0	19.6	22.7	-90.60	-665.2	646.3	400.1	361.8	38.30	10.445	
6,750.0	6,666.3	6,773.2	6,668.1	19.6	22.6	-90.58	-665.2	626.3	400.1	361.9	38.15	10.486	
6,800.0	6,710.7	6,823.4	6,712.7	19.5	22.5	-90.56	-665.2	603.1	400.1	362.1	37.99	10.531	
6,850.0	6,753.4	6,873.7	6,755.5	19.4	22.4	-90.54	-665.2	576.8	400.1	362.2	37.82	10.577	
6,900.0	6,794.2	6,924.0	6,796.4	19.3	22.3	-90.51	-665.2	547.6	400.1	362.4	37.68	10.618	
6,950.0	6,832.9	6,974.2	6,835.1	19.3	22.2	-90.49	-665.2	515.6	400.1	362.5	37.57	10.649	
7,000.0	6,869.2	7,024.4	6,871.5	19.2	22.1	-90.45	-665.2	480.9	400.0	362.5	37.52	10.663	
7,050.0	6,903.1	7,074.7	6,905.3	19.2	22.0	-90.42	-665.2	443.9	400.0	362.5	37.55	10.654	
7,100.0	6,934.3	7,124.9	6,936.5	19.2	21.9	-90.39	-665.2	404.5	400.0	362.4	37.68	10.617	
7,150.0	6,962.8	7,175.0	6,964.8	19.3	21.9	-90.35	-665.2	363.1	400.0	362.1	37.93	10.546	
7,200.0	6,988.3	7,225.2	6,990.2	19.5	21.8	-90.31	-665.2	319.8	400.0	361.7	38.32	10.439	
7,250.0	7,010.7	7,275.3	7,012.4	19.7	21.8	-90.27	-665.2	274.9	400.0	361.2	38.86	10.294	
7,300.0	7,029.9	7,325.4	7,031.4	20.0	21.9	-90.23	-665.2	228.5	400.0	360.5	39.56	10.112	
7,350.0	7,045.9	7,375.5	7,047.2	20.4	21.9	-90.18	-665.2	181.0	400.0	359.6	40.42	9.898	
7,400.0	7,058.6	7,425.6	7,059.5	20.8	22.1	-90.14	-665.2	132.5	400.0	358.6	41.43	9.656	
7,450.0	7,067.8	7,475.7	7,068.5	21.4	22.3	-90.10	-665.2	83.2	400.0	357.4	42.59	9.393	
7,500.0	7,073.6	7,525.7	7,074.0	22.0	22.7	-90.05	-665.2	33.5	400.0	356.2	43.88	9.117	
7,550.0	7,076.0	7,575.7	7,076.0	22.7	23.1	-90.01	-665.2	-16.4	400.0	354.8	45.28	8.836	
7,556.2	7,076.0	7,581.9	7,076.0	22.8	23.2	-90.00	-665.2	-22.6	400.0	354.6	45.45	8.801	
7,561.7	7,076.0	7,587.5	7,076.0	22.9	23.3	-90.00	-665.2	-28.2	400.0	354.4	45.62	8.769	
7,600.0	7,075.8	7,625.7	7,075.8	23.4	23.7	-90.00	-665.2	-66.4	400.0	353.2	46.81	8.546	
7,700.0	7,075.3	7,725.7	7,075.3	25.1	25.2	-90.00	-665.2	-166.4	400.0	349.9	50.17	7.974	
7,800.0	7,074.8	7,825.7	7,074.8	27.0	27.0	-89.99	-665.2	-266.4	400.0	346.1	53.92	7.420	
7,900.0	7,074.4	7,925.7	7,074.3	29.0	29.0	-89.99	-665.2	-366.4	400.0	342.1	57.97	6.901	
8,000.0	7,073.9	8,025.7	7,073.8	31.1	31.1	-89.99	-665.2	-466.4	400.0	337.8	62.26	6.425	
8,100.0	7,073.4	8,125.7	7,073.3	33.4	33.4	-89.99	-665.2	-566.4	400.0	333.3	66.75	5.993	
8,200.0	7,072.9	8,225.7	7,072.8	35.7	35.7	-89.99	-665.2	-666.4	400.0	328.6	71.40	5.603	
8,300.0	7,072.4	8,325.7	7,072.4	38.1	38.1	-89.99	-665.2	-766.4	400.0	323.9	76.18	5.251	
8,400.0	7,071.9	8,425.7	7,071.9	40.6	40.5	-89.99	-665.2	-866.4	400.0	319.0	81.07	4.935	
8,500.0	7,071.5	8,525.7	7,071.4	43.1	43.0	-89.99	-665.2	-966.4	400.0	314.0	86.05	4.649	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,625.7	7,070.9	45.6	45.6	-89.99	-665.2	-1,066.4	400.0	308.9	91.10	4.391	
8,700.0	7,070.5	8,725.7	7,070.4	48.1	48.1	-89.99	-665.2	-1,166.4	400.0	303.8	96.21	4.158	
8,800.0	7,070.0	8,825.7	7,069.9	50.7	50.7	-89.99	-665.2	-1,266.4	400.0	298.7	101.38	3.946	
8,900.0	7,069.5	8,925.7	7,069.4	53.3	53.3	-89.99	-665.2	-1,366.4	400.0	293.4	106.59	3.753	
9,000.0	7,069.0	9,025.7	7,068.9	56.0	56.0	-89.99	-665.2	-1,466.4	400.0	288.2	111.85	3.577	
9,100.0	7,068.6	9,125.7	7,068.5	58.6	58.6	-89.99	-665.2	-1,566.4	400.0	282.9	117.13	3.415	
9,200.0	7,068.1	9,225.7	7,068.0	61.3	61.3	-89.99	-665.2	-1,666.4	400.0	277.6	122.45	3.267	
9,300.0	7,067.6	9,325.7	7,067.5	63.9	63.9	-89.98	-665.2	-1,766.4	400.0	272.2	127.79	3.130	
9,400.0	7,067.1	9,425.7	7,067.0	66.6	66.6	-89.98	-665.2	-1,866.4	400.0	266.9	133.15	3.004	
9,500.0	7,066.6	9,525.7	7,066.5	69.3	69.3	-89.98	-665.2	-1,966.4	400.0	261.5	138.54	2.888	
9,600.0	7,066.1	9,625.7	7,066.0	72.0	72.0	-89.98	-665.2	-2,066.4	400.0	256.1	143.94	2.779	
9,700.0	7,065.6	9,725.7	7,065.5	74.7	74.7	-89.98	-665.2	-2,166.4	400.0	250.7	149.36	2.678	
9,800.0	7,065.2	9,825.7	7,065.1	77.5	77.4	-89.98	-665.2	-2,266.4	400.0	245.2	154.79	2.584	
9,900.0	7,064.7	9,925.7	7,064.6	80.2	80.1	-89.98	-665.2	-2,366.4	400.0	239.8	160.23	2.497	
10,000.0	7,064.2	10,025.7	7,064.1	82.9	82.9	-89.98	-665.2	-2,466.4	400.0	234.3	165.69	2.414	
10,100.0	7,063.7	10,125.7	7,063.6	85.6	85.6	-89.98	-665.2	-2,566.4	400.0	228.9	171.16	2.337	
10,200.0	7,063.2	10,225.7	7,063.1	88.4	88.3	-89.98	-665.2	-2,666.4	400.0	223.4	176.63	2.265	
10,300.0	7,062.7	10,325.7	7,062.6	91.1	91.1	-89.99	-665.2	-2,766.4	400.0	217.9	182.12	2.197	
10,400.0	7,062.3	10,425.7	7,062.2	93.9	93.8	-89.99	-665.2	-2,866.4	400.0	212.4	187.61	2.132	
10,500.0	7,061.8	10,525.7	7,061.7	96.6	96.6	-89.99	-665.2	-2,966.4	400.0	206.9	193.11	2.072	
10,600.0	7,061.3	10,625.7	7,061.2	99.4	99.3	-89.99	-665.2	-3,066.4	400.0	201.4	198.62	2.014	
10,700.0	7,060.8	10,725.7	7,060.7	102.1	102.1	-89.99	-665.2	-3,166.4	400.0	195.9	204.13	1.960	
10,800.0	7,060.3	10,825.7	7,060.2	104.9	104.8	-89.99	-665.2	-3,266.4	400.0	190.4	209.65	1.908	
10,900.0	7,059.8	10,925.7	7,059.8	107.6	107.6	-89.99	-665.2	-3,366.4	400.0	184.9	215.17	1.859	
11,000.0	7,059.4	11,025.7	7,059.3	110.4	110.4	-89.99	-665.2	-3,466.4	400.0	179.3	220.70	1.813	
11,100.0	7,058.9	11,125.7	7,058.8	113.2	113.1	-89.99	-665.2	-3,566.4	400.0	173.8	226.23	1.768	
11,200.0	7,058.4	11,225.7	7,058.3	115.9	115.9	-89.99	-665.2	-3,666.4	400.0	168.3	231.77	1.726	
11,300.0	7,057.9	11,325.7	7,057.8	118.7	118.7	-89.99	-665.2	-3,766.4	400.0	162.7	237.31	1.686	
11,400.0	7,057.4	11,425.7	7,057.4	121.5	121.4	-89.99	-665.2	-3,866.4	400.0	157.2	242.85	1.647	
11,500.0	7,056.9	11,525.7	7,056.9	124.3	124.2	-89.99	-665.2	-3,966.4	400.0	151.6	248.40	1.610	
11,600.0	7,056.5	11,625.7	7,056.4	127.0	127.0	-89.99	-665.2	-4,066.4	400.0	146.1	253.95	1.575	
11,660.2	7,056.2	11,685.9	7,056.1	128.7	128.7	-89.99	-665.2	-4,126.6	400.0	142.7	257.29	1.555	
11,688.2	7,056.0	11,711.5	7,056.0	129.5	129.4	-90.00	-665.2	-4,152.1	400.0	141.2	258.78	1.546 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-179.65	-45.2	-0.3	45.2				
100.0	100.0	100.0	100.0	0.1	0.1	-179.65	-45.2	-0.3	45.2	45.0	0.19	232.310	
200.0	200.0	200.0	200.0	0.3	0.3	-179.65	-45.2	-0.3	45.2	44.5	0.64	70.139	
300.0	300.0	300.0	300.0	0.5	0.5	-179.65	-45.2	-0.3	45.2	44.1	1.09	41.305 CC, ES	
400.0	400.0	398.8	398.8	0.8	0.7	178.98	-46.5	0.8	46.5	45.0	1.52	30.612	
500.0	500.0	497.3	497.2	1.0	1.0	175.32	-50.3	4.1	50.6	48.6	1.94	26.026	
600.0	600.0	595.4	594.9	1.2	1.2	170.42	-56.8	9.6	57.8	55.4	2.40	24.093	
700.0	700.0	693.0	691.8	1.4	1.4	55.40	-65.7	17.2	67.4	64.5	2.82	23.858	
800.0	799.8	790.1	787.8	1.6	1.8	53.33	-77.0	26.8	78.2	74.9	3.26	23.980	
900.0	899.5	886.9	882.8	1.9	2.1	52.60	-90.8	38.5	90.0	86.3	3.73	24.150	
1,000.0	998.7	985.8	979.5	2.1	2.5	53.07	-106.4	51.9	101.7	97.4	4.24	23.998	
1,100.0	1,097.5	1,085.2	1,076.8	2.4	3.0	54.87	-122.2	65.3	111.3	106.5	4.80	23.193	
1,200.0	1,195.6	1,184.7	1,174.1	2.7	3.4	57.79	-137.9	78.7	119.2	113.8	5.44	21.898	
1,200.1	1,195.8	1,184.9	1,174.3	2.7	3.4	57.79	-138.0	78.7	119.2	113.8	5.45	21.896	
1,300.0	1,293.4	1,284.2	1,271.4	3.1	3.8	61.14	-153.7	92.1	126.6	120.4	6.17	20.509	
1,400.0	1,391.3	1,383.7	1,368.7	3.5	4.3	64.11	-169.4	105.5	134.3	127.3	6.94	19.343	
1,500.0	1,489.1	1,483.2	1,466.0	4.0	4.7	66.76	-185.2	118.9	142.3	134.6	7.75	18.366	
1,600.0	1,586.9	1,582.6	1,563.3	4.4	5.2	69.12	-200.9	132.3	150.6	142.1	8.58	17.551	
1,700.0	1,684.7	1,682.1	1,660.6	4.8	5.6	71.23	-216.7	145.7	159.2	149.7	9.44	16.868	
1,800.0	1,782.5	1,781.6	1,757.9	5.3	6.1	73.13	-232.4	159.1	167.9	157.6	10.31	16.294	
1,900.0	1,880.3	1,881.0	1,855.2	5.7	6.6	74.83	-248.2	172.5	176.8	165.6	11.19	15.807	
2,000.0	1,978.1	1,980.5	1,952.5	6.1	7.0	76.38	-264.0	185.9	185.9	173.8	12.07	15.392	
2,100.0	2,075.9	2,080.0	2,049.8	6.6	7.5	77.77	-279.7	199.3	195.0	182.0	12.97	15.036	
2,200.0	2,173.8	2,179.5	2,147.1	7.0	7.9	79.05	-295.5	212.7	204.3	190.4	13.87	14.728	
2,300.0	2,271.6	2,278.9	2,244.4	7.5	8.4	80.21	-311.2	226.1	213.6	198.9	14.78	14.460	
2,400.0	2,369.4	2,378.4	2,341.7	8.0	8.9	81.27	-327.0	239.5	223.1	207.4	15.68	14.225	
2,500.0	2,467.2	2,477.9	2,439.0	8.4	9.3	82.25	-342.7	252.9	232.6	216.0	16.59	14.018	
2,600.0	2,565.0	2,577.3	2,536.3	8.9	9.8	83.15	-358.5	266.3	242.2	224.7	17.50	13.835	
2,700.0	2,662.8	2,676.8	2,633.6	9.3	10.2	83.98	-374.2	279.7	251.8	233.4	18.42	13.672	
2,800.0	2,760.6	2,776.3	2,730.9	9.8	10.7	84.75	-390.0	293.1	261.5	242.1	19.33	13.527	
2,900.0	2,858.5	2,875.8	2,828.2	10.2	11.2	85.47	-405.7	306.6	271.2	250.9	20.24	13.396	
3,000.0	2,956.3	2,975.2	2,925.5	10.7	11.6	86.13	-421.5	320.0	280.9	259.8	21.16	13.278	
3,100.0	3,054.1	3,074.7	3,022.8	11.2	12.1	86.75	-437.2	333.4	290.7	268.7	22.07	13.171	
3,200.0	3,151.9	3,174.2	3,120.1	11.6	12.5	87.33	-453.0	346.8	300.6	277.6	22.99	13.074	
3,300.0	3,249.7	3,273.6	3,217.4	12.1	13.0	87.88	-468.7	360.2	310.4	286.5	23.90	12.986	
3,400.0	3,347.5	3,373.1	3,314.7	12.5	13.5	88.39	-484.5	373.6	320.3	295.5	24.82	12.905	
3,500.0	3,445.3	3,472.6	3,412.0	13.0	13.9	88.87	-500.2	387.0	330.2	304.4	25.73	12.831	
3,600.0	3,543.2	3,572.1	3,509.3	13.5	14.4	89.32	-516.0	400.4	340.1	313.5	26.65	12.762	
3,700.0	3,641.0	3,671.5	3,606.6	13.9	14.9	89.75	-531.7	413.8	350.0	322.5	27.56	12.699	
3,800.0	3,738.8	3,771.0	3,703.9	14.4	15.3	90.15	-547.5	427.2	360.0	331.5	28.48	12.641	
3,900.0	3,836.6	3,870.5	3,801.2	14.8	15.8	90.53	-563.2	440.6	370.0	340.6	29.39	12.587	
4,000.0	3,934.4	3,969.9	3,898.5	15.3	16.2	90.89	-579.0	454.0	380.0	349.7	30.31	12.537	
4,100.0	4,032.2	4,069.4	3,995.8	15.8	16.7	91.23	-594.7	467.4	390.0	358.8	31.22	12.490	
4,159.1	4,090.0	4,128.2	4,053.3	16.0	17.0	91.43	-604.1	475.3	395.9	364.1	31.76	12.464	
4,200.0	4,130.1	4,168.9	4,093.1	16.2	17.2	91.60	-610.5	480.8	400.0	367.9	32.12	12.455	
4,300.0	4,228.5	4,268.4	4,190.4	16.5	17.6	91.66	-626.3	494.2	409.9	377.1	32.86	12.477	
4,400.0	4,327.5	4,367.8	4,287.6	16.8	18.1	91.26	-642.0	507.6	419.8	386.3	33.52	12.525	
4,500.0	4,426.9	4,467.0	4,384.7	17.0	18.6	90.41	-657.7	521.0	429.7	395.6	34.09	12.605	
4,600.0	4,526.6	4,565.9	4,481.4	17.2	19.0	89.17	-673.4	534.3	439.7	405.2	34.57	12.721	
4,700.0	4,626.6	4,664.3	4,577.7	17.3	19.5	87.57	-689.0	547.6	450.2	415.3	34.95	12.882	
4,759.3	4,685.8	4,722.4	4,634.5	17.4	19.7	-162.55	-698.2	555.4	456.7	430.8	25.89	17.641	
4,800.0	4,726.5	4,762.2	4,673.4	17.5	19.9	-163.43	-704.5	560.8	461.4	435.1	26.24	17.583	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,860.1	4,769.1	17.6	20.4	-165.51	-720.0	574.0	473.2	446.1	27.11	17.457	
5,000.0	4,926.5	4,957.9	4,864.8	17.7	20.8	-167.49	-735.4	587.1	485.6	457.6	27.99	17.351	
5,100.0	5,026.5	5,055.7	4,960.5	17.8	21.3	-169.37	-750.9	600.3	498.6	469.7	28.88	17.265	
5,200.0	5,126.5	5,153.5	5,056.1	18.0	21.8	-171.16	-766.4	613.5	512.1	482.3	29.78	17.199	
5,300.0	5,226.5	5,251.3	5,151.8	18.1	22.2	-172.85	-781.9	626.7	526.1	495.4	30.67	17.152	
5,400.0	5,326.5	5,349.1	5,247.5	18.2	22.7	-174.46	-797.4	639.9	540.5	508.9	31.57	17.123	
5,500.0	5,426.5	5,446.9	5,343.2	18.3	23.1	-175.98	-812.9	653.1	555.3	522.9	32.46	17.109	
5,600.0	5,526.5	5,556.5	5,450.6	18.5	23.5	-177.52	-829.4	667.1	569.8	536.5	33.32	17.101	
5,700.0	5,626.5	5,672.6	5,565.1	18.6	23.8	-178.78	-843.6	679.2	581.8	547.7	34.07	17.078	
5,800.0	5,726.5	5,790.0	5,681.7	18.8	24.1	-179.69	-854.4	688.3	590.9	556.2	34.70	17.028	
5,900.0	5,826.5	5,908.4	5,799.8	18.9	24.3	179.72	-861.5	694.4	596.9	561.7	35.22	16.949	
6,000.0	5,926.5	6,027.4	5,918.6	19.0	24.5	179.44	-864.9	697.3	599.8	564.2	35.63	16.837	
6,100.0	6,026.5	6,135.3	6,026.5	19.2	24.6	179.42	-865.3	697.6	600.1	564.2	35.94	16.696	
6,200.0	6,126.5	6,235.3	6,126.5	19.3	24.7	179.42	-865.3	697.6	600.1	563.9	36.23	16.562	
6,300.0	6,226.5	6,335.3	6,226.5	19.5	24.8	179.42	-865.3	697.6	600.1	563.6	36.53	16.429	
6,400.0	6,326.5	6,435.3	6,326.5	19.6	24.9	179.42	-865.3	697.6	600.1	563.3	36.82	16.297	
6,433.3	6,359.8	6,468.6	6,359.8	19.7	24.9	179.42	-865.3	697.6	600.1	563.2	36.92	16.253	
6,450.0	6,376.5	6,485.3	6,376.5	19.7	25.0	-90.60	-865.3	697.6	600.1	561.2	38.86	15.442	
6,500.0	6,426.5	6,535.2	6,426.5	19.7	25.0	-90.88	-865.3	697.6	600.1	561.2	38.91	15.425	
6,550.0	6,476.0	6,585.1	6,476.3	19.7	25.1	-91.46	-865.3	697.5	600.3	561.4	38.85	15.452	
6,600.0	6,525.0	6,636.0	6,527.1	19.7	25.1	-92.14	-865.3	694.7	600.5	561.8	38.72	15.509	
6,650.0	6,573.3	6,687.3	6,578.0	19.7	25.1	-92.81	-865.3	688.3	600.8	562.3	38.54	15.589	
6,700.0	6,620.4	6,739.3	6,628.9	19.6	25.1	-93.47	-865.3	678.1	601.2	562.9	38.32	15.688	
6,750.0	6,666.3	6,791.7	6,679.5	19.6	25.0	-94.11	-865.3	664.1	601.6	563.6	38.07	15.803	
6,800.0	6,710.7	6,844.8	6,729.4	19.5	25.0	-94.73	-865.3	646.2	602.2	564.4	37.80	15.929	
6,850.0	6,753.4	6,898.3	6,778.3	19.4	24.9	-95.34	-865.3	624.4	602.7	565.2	37.53	16.060	
6,900.0	6,794.2	6,952.5	6,826.0	19.3	24.8	-95.92	-865.3	598.7	603.3	566.1	37.27	16.187	
6,950.0	6,832.9	7,007.1	6,872.0	19.3	24.7	-96.47	-865.3	569.2	604.0	566.9	37.05	16.302	
7,000.0	6,869.2	7,062.3	6,916.0	19.2	24.6	-96.99	-865.3	536.0	604.6	567.7	36.88	16.393	
7,050.0	6,903.1	7,118.0	6,957.7	19.2	24.5	-97.47	-865.3	499.1	605.3	568.5	36.80	16.448	
7,100.0	6,934.3	7,174.2	6,996.8	19.2	24.3	-97.91	-865.3	458.7	605.9	569.1	36.82	16.455	
7,150.0	6,962.8	7,230.8	7,032.8	19.3	24.2	-98.32	-865.3	415.1	606.5	569.5	36.98	16.402	
7,200.0	6,988.3	7,287.8	7,065.5	19.5	24.1	-98.67	-865.3	368.4	607.0	569.8	37.29	16.281	
7,250.0	7,010.7	7,345.2	7,094.5	19.7	24.0	-98.98	-865.3	318.9	607.5	569.8	37.77	16.086	
7,300.0	7,029.9	7,402.9	7,119.6	20.0	23.9	-99.24	-865.3	267.0	608.0	569.5	38.44	15.817	
7,350.0	7,045.9	7,460.8	7,140.5	20.4	23.8	-99.45	-865.3	213.0	608.3	569.0	39.31	15.476	
7,400.0	7,058.6	7,519.0	7,157.1	20.8	23.8	-99.61	-865.3	157.2	608.6	568.2	40.36	15.078	
7,450.0	7,067.8	7,577.3	7,169.1	21.4	23.8	-99.71	-865.3	100.2	608.8	567.2	41.60	14.635	
7,500.0	7,073.6	7,635.7	7,176.4	22.0	23.9	-99.75	-865.3	42.3	608.9	565.9	42.99	14.164	
7,550.0	7,076.0	7,694.1	7,179.0	22.7	24.1	-99.74	-865.3	-16.1	608.8	564.3	44.51	13.679	
7,560.9	7,076.0	7,705.7	7,179.0	22.8	24.1	-99.74	-865.3	-27.7	608.8	564.0	44.85	13.575	
7,561.7	7,076.0	7,706.6	7,179.0	22.9	24.1	-99.74	-865.3	-28.6	608.8	564.0	44.88	13.567	
7,600.0	7,075.8	7,744.8	7,178.8	23.4	24.4	-99.74	-865.3	-66.8	608.8	562.8	46.03	13.226	
7,700.0	7,075.3	7,844.8	7,178.5	25.1	25.5	-99.75	-865.3	-166.8	608.9	559.6	49.31	12.347	
7,800.0	7,074.8	7,944.8	7,178.1	27.0	27.2	-99.76	-865.3	-266.8	608.9	555.9	52.98	11.494	
7,900.0	7,074.4	8,044.8	7,177.7	29.0	29.2	-99.77	-865.3	-366.8	608.9	552.0	56.94	10.693	
8,000.0	7,073.9	8,144.8	7,177.4	31.1	31.3	-99.79	-865.3	-466.8	608.9	547.8	61.16	9.957	
8,100.0	7,073.4	8,244.8	7,177.0	33.4	33.5	-99.80	-865.3	-566.8	608.9	543.4	65.57	9.287	
8,200.0	7,072.9	8,344.8	7,176.6	35.7	35.8	-99.81	-865.3	-666.8	609.0	538.8	70.14	8.682	
8,300.0	7,072.4	8,444.8	7,176.3	38.1	38.2	-99.82	-865.3	-766.8	609.0	534.1	74.84	8.137	
8,400.0	7,071.9	8,544.8	7,175.9	40.6	40.7	-99.83	-865.3	-866.8	609.0	529.4	79.65	7.646	
8,500.0	7,071.5	8,644.8	7,175.5	43.1	43.2	-99.84	-865.3	-966.8	609.0	524.5	84.55	7.203	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design</b> SE SW SEC. 21 T4N R67W 6th P.M. - WALTERS 21Q-304 - ORIGINAL WELLBORE - PROPOSAL #1												<b>Offset Site Error:</b>	0.0 usft
Survey Program: 0-MWD												<b>Offset Well Error:</b>	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,744.8	7,175.2	45.6	45.7	-99.85	-865.3	-1,066.8	609.0	519.5	89.52	6.803	
8,700.0	7,070.5	8,844.8	7,174.8	48.1	48.2	-99.86	-865.3	-1,166.8	609.1	514.5	94.56	6.441	
8,800.0	7,070.0	8,944.8	7,174.5	50.7	50.8	-99.87	-865.3	-1,266.8	609.1	509.4	99.65	6.112	
8,900.0	7,069.5	9,044.8	7,174.1	53.3	53.4	-99.89	-865.3	-1,366.8	609.1	504.3	104.78	5.813	
9,000.0	7,069.0	9,144.8	7,173.7	56.0	56.0	-99.90	-865.3	-1,466.8	609.1	499.2	109.96	5.540	
9,100.0	7,068.6	9,244.8	7,173.4	58.6	58.7	-99.91	-865.3	-1,566.8	609.1	494.0	115.16	5.289	
9,200.0	7,068.1	9,344.8	7,173.0	61.3	61.3	-99.92	-865.3	-1,666.8	609.2	488.8	120.40	5.060	
9,300.0	7,067.6	9,444.8	7,172.6	63.9	64.0	-99.93	-865.3	-1,766.8	609.2	483.5	125.66	4.848	
9,400.0	7,067.1	9,544.8	7,172.3	66.6	66.7	-99.94	-865.3	-1,866.8	609.2	478.3	130.95	4.652	
9,500.0	7,066.6	9,644.8	7,171.9	69.3	69.4	-99.95	-865.3	-1,966.8	609.2	473.0	136.25	4.471	
9,600.0	7,066.1	9,744.8	7,171.5	72.0	72.1	-99.96	-865.3	-2,066.8	609.2	467.7	141.57	4.303	
9,700.0	7,065.6	9,844.8	7,171.2	74.7	74.8	-99.97	-865.3	-2,166.8	609.3	462.4	146.91	4.147	
9,800.0	7,065.2	9,944.8	7,170.8	77.5	77.5	-99.99	-865.3	-2,266.8	609.3	457.0	152.26	4.002	
9,900.0	7,064.7	10,044.8	7,170.5	80.2	80.2	-100.00	-865.3	-2,366.8	609.3	451.7	157.62	3.866	
10,000.0	7,064.2	10,144.8	7,170.1	82.9	82.9	-100.01	-865.3	-2,466.8	609.3	446.3	163.00	3.738	
10,100.0	7,063.7	10,244.8	7,169.7	85.6	85.6	-100.02	-865.3	-2,566.8	609.3	441.0	168.38	3.619	
10,200.0	7,063.2	10,344.8	7,169.4	88.4	88.4	-100.03	-865.3	-2,666.8	609.4	435.6	173.77	3.507	
10,300.0	7,062.7	10,444.8	7,169.0	91.1	91.1	-100.04	-865.3	-2,766.8	609.4	430.2	179.17	3.401	
10,400.0	7,062.3	10,544.8	7,168.6	93.9	93.9	-100.05	-865.2	-2,866.8	609.4	424.8	184.58	3.302	
10,500.0	7,061.8	10,644.8	7,168.3	96.6	96.6	-100.06	-865.2	-2,966.8	609.4	419.4	190.00	3.208	
10,600.0	7,061.3	10,744.8	7,167.9	99.4	99.4	-100.08	-865.2	-3,066.8	609.4	414.0	195.42	3.119	
10,700.0	7,060.8	10,844.8	7,167.6	102.1	102.1	-100.09	-865.2	-3,166.8	609.5	408.6	200.85	3.034	
10,800.0	7,060.3	10,944.8	7,167.2	104.9	104.9	-100.10	-865.2	-3,266.8	609.5	403.2	206.28	2.955	
10,900.0	7,059.8	11,044.8	7,166.8	107.6	107.6	-100.11	-865.2	-3,366.8	609.5	397.8	211.72	2.879	
11,000.0	7,059.4	11,144.8	7,166.5	110.4	110.4	-100.12	-865.2	-3,466.8	609.5	392.4	217.16	2.807	
11,100.0	7,058.9	11,244.8	7,166.1	113.2	113.1	-100.13	-865.2	-3,566.8	609.5	386.9	222.61	2.738	
11,200.0	7,058.4	11,344.8	7,165.7	115.9	115.9	-100.14	-865.2	-3,666.8	609.6	381.5	228.05	2.673	
11,300.0	7,057.9	11,444.8	7,165.4	118.7	118.7	-100.16	-865.2	-3,766.8	609.6	376.1	233.51	2.611	
11,400.0	7,057.4	11,544.8	7,165.0	121.5	121.4	-100.17	-865.2	-3,866.8	609.6	370.6	238.96	2.551	
11,500.0	7,056.9	11,644.8	7,164.7	124.3	124.2	-100.18	-865.2	-3,966.8	609.6	365.2	244.42	2.494	
11,600.0	7,056.5	11,744.8	7,164.3	127.0	127.0	-100.19	-865.2	-4,066.8	609.6	359.8	249.88	2.440	
11,652.1	7,056.2	11,796.9	7,164.1	128.5	128.4	-100.20	-865.2	-4,118.9	609.7	356.9	252.73	2.412	
11,688.2	7,056.0	11,828.8	7,164.0	129.5	129.3	-100.20	-865.2	-4,150.8	609.7	355.1	254.58	2.395 SF	

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	180.00	-14.9	0.0	14.9				
100.0	100.0	100.0	100.0	0.1	0.1	180.00	-14.9	0.0	14.9	14.7	0.19	76.825	
200.0	200.0	200.0	200.0	0.3	0.3	180.00	-14.9	0.0	14.9	14.3	0.64	23.195	
300.0	300.0	300.0	300.0	0.5	0.5	180.00	-14.9	0.0	14.9	13.8	1.09	13.660	
400.0	400.0	400.0	400.0	0.8	0.8	180.00	-14.9	0.0	14.9	13.4	1.54	9.680	
500.0	500.0	500.0	500.0	1.0	1.0	180.00	-14.9	0.0	14.9	12.9	1.99	7.496 CC	
600.0	600.0	599.7	599.7	1.2	1.2	174.77	-15.9	1.5	16.0	13.5	2.42	6.588	
700.0	700.0	699.2	699.0	1.4	1.4	55.95	-18.7	5.8	18.6	15.8	2.83	6.575	
800.0	799.8	798.6	798.1	1.6	1.6	51.51	-23.4	13.0	22.0	18.7	3.24	6.790	
900.0	899.5	897.9	896.6	1.9	1.9	49.47	-30.0	23.1	25.9	22.3	3.68	7.056	
1,000.0	998.7	997.0	994.5	2.1	2.2	49.00	-38.4	36.1	30.4	26.2	4.15	7.315	
1,100.0	1,097.5	1,096.0	1,091.7	2.4	2.5	49.51	-48.6	51.8	35.3	30.6	4.69	7.534	
1,200.0	1,195.6	1,195.8	1,189.4	2.7	2.9	52.11	-59.9	69.2	39.5	34.2	5.31	7.442	
1,200.1	1,195.8	1,196.0	1,189.5	2.7	2.9	52.12	-59.9	69.2	39.5	34.2	5.31	7.442	
1,300.0	1,293.4	1,295.7	1,287.1	3.1	3.3	56.17	-71.2	86.6	42.7	36.7	6.03	7.093	
1,400.0	1,391.3	1,395.6	1,384.8	3.5	3.8	59.63	-82.5	104.0	46.2	39.4	6.80	6.791	
1,500.0	1,489.1	1,495.6	1,482.5	4.0	4.2	62.61	-93.9	121.4	49.8	42.1	7.61	6.536	
1,600.0	1,586.9	1,595.5	1,580.3	4.4	4.6	65.18	-105.2	138.8	53.4	45.0	8.45	6.321	
1,700.0	1,684.7	1,695.4	1,678.0	4.8	5.1	67.42	-116.5	156.3	57.2	47.9	9.32	6.142	
1,800.0	1,782.5	1,795.3	1,775.7	5.3	5.5	69.38	-127.8	173.7	61.1	50.9	10.20	5.990	
1,900.0	1,880.3	1,895.2	1,873.4	5.7	6.0	71.10	-139.1	191.1	65.0	53.9	11.09	5.863	
2,000.0	1,978.1	1,995.1	1,971.2	6.1	6.4	72.62	-150.4	208.5	69.0	57.0	11.99	5.754	
2,100.0	2,075.9	2,095.0	2,068.9	6.6	6.9	73.98	-161.7	225.9	73.0	60.1	12.90	5.661	
2,200.0	2,173.8	2,194.9	2,166.6	7.0	7.3	75.20	-173.1	243.3	77.1	63.3	13.81	5.581	
2,300.0	2,271.6	2,294.8	2,264.3	7.5	7.8	76.29	-184.4	260.7	81.2	66.4	14.73	5.512	
2,400.0	2,369.4	2,394.7	2,362.0	8.0	8.3	77.28	-195.7	278.1	85.3	69.6	15.64	5.451	
2,500.0	2,467.2	2,494.6	2,459.8	8.4	8.7	78.18	-207.0	295.6	89.4	72.9	16.57	5.398	
2,600.0	2,565.0	2,594.5	2,557.5	8.9	9.2	78.99	-218.3	313.0	93.6	76.1	17.49	5.351	
2,700.0	2,662.8	2,694.4	2,655.2	9.3	9.6	79.74	-229.6	330.4	97.8	79.3	18.41	5.309	
2,800.0	2,760.6	2,794.3	2,752.9	9.8	10.1	80.43	-241.0	347.8	101.9	82.6	19.34	5.272	
2,900.0	2,858.5	2,894.2	2,850.7	10.2	10.6	81.06	-252.3	365.2	106.2	85.9	20.26	5.239	
3,000.0	2,956.3	2,994.1	2,948.4	10.7	11.0	81.65	-263.6	382.6	110.4	89.2	21.19	5.209	
3,100.0	3,054.1	3,094.0	3,046.1	11.2	11.5	82.19	-274.9	400.0	114.6	92.5	22.12	5.182	
3,200.0	3,151.9	3,193.9	3,143.8	11.6	11.9	82.69	-286.2	417.4	118.8	95.8	23.04	5.157	
3,300.0	3,249.7	3,293.8	3,241.5	12.1	12.4	83.16	-297.5	434.9	123.1	99.1	23.97	5.135	
3,400.0	3,347.5	3,393.7	3,339.3	12.5	12.9	83.59	-308.9	452.3	127.3	102.4	24.90	5.114	
3,500.0	3,445.3	3,493.7	3,437.0	13.0	13.3	84.00	-320.2	469.7	131.6	105.8	25.83	5.095	
3,600.0	3,543.2	3,593.6	3,534.7	13.5	13.8	84.38	-331.5	487.1	135.9	109.1	26.76	5.078	
3,700.0	3,641.0	3,693.5	3,632.4	13.9	14.3	84.74	-342.8	504.5	140.1	112.4	27.68	5.062	
3,800.0	3,738.8	3,793.4	3,730.2	14.4	14.7	85.08	-354.1	521.9	144.4	115.8	28.61	5.047	
3,900.0	3,836.6	3,893.3	3,827.9	14.8	15.2	85.40	-365.4	539.3	148.7	119.2	29.54	5.033	
4,000.0	3,934.4	3,993.2	3,925.6	15.3	15.6	85.70	-376.7	556.7	153.0	122.5	30.47	5.021	
4,100.0	4,032.2	4,093.1	4,023.3	15.8	16.1	85.99	-388.1	574.2	157.3	125.9	31.40	5.009	
4,159.1	4,090.0	4,152.1	4,081.1	16.0	16.4	86.15	-394.8	584.4	159.8	127.9	31.95	5.002	
4,200.0	4,130.1	4,193.0	4,121.1	16.2	16.6	86.19	-399.4	591.6	161.6	129.3	32.29	5.003	
4,300.0	4,228.5	4,292.9	4,218.7	16.5	17.0	85.44	-410.7	609.0	166.1	133.1	33.00	5.033	
4,400.0	4,327.5	4,392.6	4,316.3	16.8	17.5	83.59	-422.0	626.3	171.0	137.4	33.57	5.094	
4,500.0	4,426.9	4,492.4	4,414.0	17.0	18.0	80.75	-433.3	643.7	176.6	142.7	33.96	5.201	
4,600.0	4,526.6	4,594.2	4,514.0	17.2	18.3	77.66	-443.5	659.4	182.4	148.3	34.11	5.348	
4,700.0	4,626.6	4,696.5	4,615.2	17.3	18.6	74.69	-451.8	672.2	188.1	153.9	34.14	5.509	
4,759.3	4,685.8	4,757.3	4,675.5	17.4	18.7	-176.04	-455.8	678.3	191.3	165.7	25.63	7.465	
4,800.0	4,726.5	4,799.2	4,717.2	17.5	18.8	-177.16	-458.1	681.9	193.4	167.4	26.00	7.438	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,826.5	4,902.6	4,820.3	17.6	19.0	-179.17	-462.5	688.6	197.4	170.6	26.75	7.379	
5,000.0	4,926.5	5,006.4	4,924.0	17.7	19.1	179.79	-464.8	692.2	199.6	172.3	27.29	7.315	
5,100.0	5,026.5	5,109.0	5,026.5	17.8	19.3	179.60	-465.2	692.9	200.0	172.4	27.65	7.236	
5,200.0	5,126.5	5,209.0	5,126.5	18.0	19.4	179.60	-465.2	692.9	200.0	172.1	27.95	7.156	
5,300.0	5,226.5	5,309.0	5,226.5	18.1	19.5	179.60	-465.2	692.9	200.0	171.8	28.26	7.078	
5,400.0	5,326.5	5,409.0	5,326.5	18.2	19.6	179.60	-465.2	692.9	200.0	171.5	28.58	7.000	
5,500.0	5,426.5	5,509.0	5,426.5	18.3	19.7	179.60	-465.2	692.9	200.0	171.1	28.89	6.924	
5,600.0	5,526.5	5,609.0	5,526.5	18.5	19.8	179.60	-465.2	692.9	200.0	170.8	29.21	6.848	
5,700.0	5,626.5	5,709.0	5,626.5	18.6	20.0	179.60	-465.2	692.9	200.0	170.5	29.54	6.773	
5,800.0	5,726.5	5,809.0	5,726.5	18.8	20.1	179.60	-465.2	692.9	200.0	170.2	29.86	6.699	
5,900.0	5,826.5	5,909.0	5,826.5	18.9	20.2	179.60	-465.2	692.9	200.0	169.8	30.19	6.625	
6,000.0	5,926.5	6,009.0	5,926.5	19.0	20.3	179.60	-465.2	692.9	200.0	169.5	30.53	6.553	
6,100.0	6,026.5	6,109.0	6,026.5	19.2	20.5	179.60	-465.2	692.9	200.0	169.2	30.86	6.482	
6,200.0	6,126.5	6,209.0	6,126.5	19.3	20.6	179.60	-465.2	692.9	200.0	168.8	31.20	6.411	
6,300.0	6,226.5	6,309.0	6,226.5	19.5	20.7	179.60	-465.2	692.9	200.0	168.5	31.54	6.342	
6,400.0	6,326.5	6,409.0	6,326.5	19.6	20.9	179.60	-465.2	692.9	200.0	168.2	31.89	6.274	
6,433.3	6,359.8	6,442.2	6,359.8	19.7	20.9	179.60	-465.2	692.9	200.0	168.0	32.00	6.251	
6,450.0	6,376.5	6,459.0	6,376.5	19.7	20.9	-90.46	-465.2	692.9	200.0	161.8	38.20	5.237	
6,500.0	6,426.5	6,508.9	6,426.5	19.7	21.0	-91.29	-465.2	692.9	200.1	161.9	38.18	5.240	
6,550.0	6,476.0	6,558.7	6,476.2	19.7	21.1	-93.05	-465.2	692.8	200.3	162.3	37.98	5.275	
6,600.0	6,525.0	6,609.2	6,526.6	19.7	21.1	-95.07	-465.2	690.0	200.8	163.2	37.67	5.332	
6,650.0	6,573.3	6,660.2	6,577.3	19.7	21.1	-97.07	-465.2	683.7	201.6	164.3	37.30	5.405	
6,700.0	6,620.4	6,711.7	6,627.8	19.6	21.1	-99.03	-465.2	673.6	202.6	165.7	36.89	5.492	
6,750.0	6,666.3	6,763.9	6,678.0	19.6	21.0	-100.93	-465.2	659.8	203.8	167.4	36.44	5.593	
6,800.0	6,710.7	6,816.5	6,727.6	19.5	21.0	-102.77	-465.2	642.1	205.2	169.2	35.97	5.705	
6,850.0	6,753.4	6,869.7	6,776.3	19.4	20.9	-104.53	-465.2	620.6	206.8	171.3	35.50	5.825	
6,900.0	6,794.2	6,923.5	6,823.7	19.3	20.8	-106.20	-465.2	595.3	208.4	173.4	35.04	5.949	
6,950.0	6,832.9	6,977.8	6,869.5	19.3	20.7	-107.78	-465.2	566.2	210.2	175.6	34.61	6.073	
7,000.0	6,869.2	7,032.6	6,913.5	19.2	20.6	-109.25	-465.2	533.3	212.0	177.8	34.25	6.190	
7,050.0	6,903.1	7,088.0	6,955.1	19.2	20.5	-110.61	-465.2	496.9	213.9	179.9	33.97	6.295	
7,100.0	6,934.3	7,143.8	6,994.1	19.2	20.5	-111.85	-465.2	457.0	215.7	181.9	33.81	6.379	
7,150.0	6,962.8	7,200.2	7,030.2	19.3	20.4	-112.97	-465.2	413.7	217.4	183.6	33.78	6.436	
7,200.0	6,988.3	7,256.9	7,063.0	19.5	20.4	-113.97	-465.2	367.5	219.0	185.1	33.92	6.456	
7,250.0	7,010.7	7,314.0	7,092.2	19.7	20.5	-114.84	-465.2	318.4	220.5	186.3	34.26	6.437	
7,300.0	7,029.9	7,371.5	7,117.6	20.0	20.6	-115.57	-465.2	266.8	221.8	187.0	34.79	6.377	
7,350.0	7,045.9	7,429.3	7,138.9	20.4	20.8	-116.18	-465.2	213.1	222.9	187.4	35.52	6.276	
7,400.0	7,058.6	7,487.3	7,155.8	20.8	21.2	-116.65	-465.2	157.7	223.8	187.4	36.46	6.138	
7,450.0	7,067.8	7,545.5	7,168.2	21.4	21.6	-116.98	-465.2	100.8	224.5	186.9	37.60	5.970	
7,500.0	7,073.6	7,603.8	7,175.9	22.0	22.2	-117.18	-465.2	43.0	224.9	186.0	38.92	5.778	
7,550.0	7,076.0	7,662.2	7,179.0	22.7	22.9	-117.25	-465.2	-15.3	225.0	184.6	40.40	5.569	
7,560.8	7,076.0	7,674.6	7,179.0	22.8	23.1	-117.24	-465.2	-27.6	225.0	184.3	40.74	5.523	
7,561.7	7,076.0	7,675.5	7,179.0	22.9	23.1	-117.24	-465.2	-28.6	225.0	184.2	40.76	5.519	
7,600.0	7,075.8	7,713.8	7,178.8	23.4	23.6	-117.25	-465.2	-66.8	225.0	183.2	41.82	5.381	
7,700.0	7,075.3	7,813.8	7,178.5	25.1	25.2	-117.28	-465.2	-166.8	225.1	180.3	44.81	5.022	
7,800.0	7,074.8	7,913.8	7,178.1	27.0	27.1	-117.30	-465.2	-266.8	225.1	177.0	48.16	4.675	
7,900.0	7,074.4	8,013.8	7,177.7	29.0	29.1	-117.33	-465.2	-366.8	225.2	173.4	51.77	4.349	
8,000.0	7,073.9	8,113.8	7,177.4	31.1	31.2	-117.36	-465.2	-466.8	225.2	169.6	55.61	4.050	
8,100.0	7,073.4	8,213.8	7,177.0	33.4	33.5	-117.38	-465.2	-566.8	225.3	165.7	59.62	3.778	
8,200.0	7,072.9	8,313.8	7,176.6	35.7	35.8	-117.41	-465.2	-666.8	225.3	161.6	63.78	3.533	
8,300.0	7,072.4	8,413.8	7,176.3	38.1	38.2	-117.44	-465.2	-766.8	225.4	157.3	68.05	3.312	
8,400.0	7,071.9	8,513.8	7,175.9	40.6	40.6	-117.46	-465.2	-866.8	225.4	153.0	72.41	3.113	
8,500.0	7,071.5	8,613.8	7,175.5	43.1	43.1	-117.49	-465.2	-966.8	225.5	148.6	76.86	2.934	

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,600.0	7,071.0	8,713.8	7,175.2	45.6	45.6	-117.52	-465.2	-1,066.8	225.6	144.2	81.36	2.772	
8,700.0	7,070.5	8,813.8	7,174.8	48.1	48.2	-117.54	-465.2	-1,166.8	225.6	139.7	85.93	2.626	
8,800.0	7,070.0	8,913.8	7,174.4	50.7	50.8	-117.57	-465.2	-1,266.8	225.7	135.1	90.54	2.492	
8,900.0	7,069.5	9,013.8	7,174.1	53.3	53.4	-117.60	-465.2	-1,366.8	225.7	130.5	95.18	2.371	
9,000.0	7,069.0	9,113.8	7,173.7	56.0	56.0	-117.62	-465.2	-1,466.8	225.8	125.9	99.86	2.261	
9,100.0	7,068.6	9,213.8	7,173.4	58.6	58.7	-117.65	-465.2	-1,566.8	225.8	121.3	104.57	2.159	
9,200.0	7,068.1	9,313.8	7,173.0	61.3	61.3	-117.68	-465.2	-1,666.8	225.9	116.6	109.31	2.066	
9,300.0	7,067.6	9,413.8	7,172.6	63.9	64.0	-117.70	-465.2	-1,766.8	225.9	111.9	114.06	1.981	
9,400.0	7,067.1	9,513.8	7,172.3	66.6	66.7	-117.73	-465.2	-1,866.8	226.0	107.2	118.83	1.902	
9,500.0	7,066.6	9,613.8	7,171.9	69.3	69.4	-117.76	-465.2	-1,966.8	226.0	102.4	123.62	1.829	
9,600.0	7,066.1	9,713.8	7,171.5	72.0	72.1	-117.78	-465.2	-2,066.8	226.1	97.7	128.42	1.761	
9,700.0	7,065.6	9,813.8	7,171.2	74.7	74.8	-117.81	-465.2	-2,166.8	226.2	92.9	133.23	1.697	
9,800.0	7,065.2	9,913.8	7,170.8	77.5	77.5	-117.84	-465.2	-2,266.8	226.2	88.2	138.06	1.639	
9,900.0	7,064.7	10,013.7	7,170.4	80.2	80.2	-117.87	-465.2	-2,366.8	226.3	83.4	142.89	1.584	
10,000.0	7,064.2	10,113.7	7,170.1	82.9	82.9	-117.89	-465.2	-2,466.8	226.3	78.6	147.73	1.532	
10,100.0	7,063.7	10,213.7	7,169.7	85.6	85.7	-117.92	-465.2	-2,566.8	226.4	73.8	152.58	1.484	Level 3
10,200.0	7,063.2	10,313.7	7,169.4	88.4	88.4	-117.95	-465.2	-2,666.8	226.4	69.0	157.43	1.438	Level 3
10,300.0	7,062.7	10,413.7	7,169.0	91.1	91.2	-117.98	-465.2	-2,766.8	226.5	64.2	162.29	1.396	Level 3
10,400.0	7,062.3	10,513.7	7,168.6	93.9	93.9	-118.00	-465.2	-2,866.8	226.6	59.4	167.16	1.355	Level 3
10,500.0	7,061.8	10,613.7	7,168.3	96.6	96.6	-118.03	-465.2	-2,966.8	226.6	54.6	172.02	1.317	Level 3
10,600.0	7,061.3	10,713.7	7,167.9	99.4	99.4	-118.06	-465.2	-3,066.8	226.7	49.8	176.89	1.281	Level 3
10,700.0	7,060.8	10,813.7	7,167.5	102.1	102.2	-118.09	-465.2	-3,166.8	226.7	45.0	181.77	1.247	Level 2
10,800.0	7,060.3	10,913.7	7,167.2	104.9	104.9	-118.11	-465.2	-3,266.8	226.8	40.1	186.65	1.215	Level 2
10,900.0	7,059.8	11,013.7	7,166.8	107.6	107.7	-118.14	-465.2	-3,366.8	226.8	35.3	191.52	1.184	Level 2
11,000.0	7,059.4	11,113.7	7,166.5	110.4	110.4	-118.17	-465.2	-3,466.8	226.9	30.5	196.41	1.155	Level 2
11,100.0	7,058.9	11,213.7	7,166.1	113.2	113.2	-118.20	-465.2	-3,566.8	227.0	25.7	201.29	1.128	Level 2
11,200.0	7,058.4	11,313.7	7,165.7	115.9	116.0	-118.22	-465.2	-3,666.8	227.0	20.8	206.17	1.101	Level 2
11,300.0	7,057.9	11,413.7	7,165.4	118.7	118.7	-118.25	-465.2	-3,766.8	227.1	16.0	211.06	1.076	Level 2
11,400.0	7,057.4	11,513.7	7,165.0	121.5	121.5	-118.28	-465.2	-3,866.8	227.1	11.2	215.94	1.052	Level 2
11,500.0	7,056.9	11,613.7	7,164.7	124.3	124.3	-118.31	-465.2	-3,966.8	227.2	6.4	220.83	1.029	Level 2
11,600.0	7,056.5	11,713.7	7,164.3	127.0	127.1	-118.33	-465.2	-4,066.8	227.3	1.5	225.71	1.007	Level 2
11,649.5	7,056.2	11,763.3	7,164.1	128.4	128.4	-118.35	-465.2	-4,116.3	227.3	-0.9	228.13	0.996	Level 1
11,688.2	7,056.0	11,800.2	7,164.0	129.5	129.5	-118.37	-465.2	-4,153.2	227.3	-2.7	229.96	0.988	Level 1, ES, SF

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

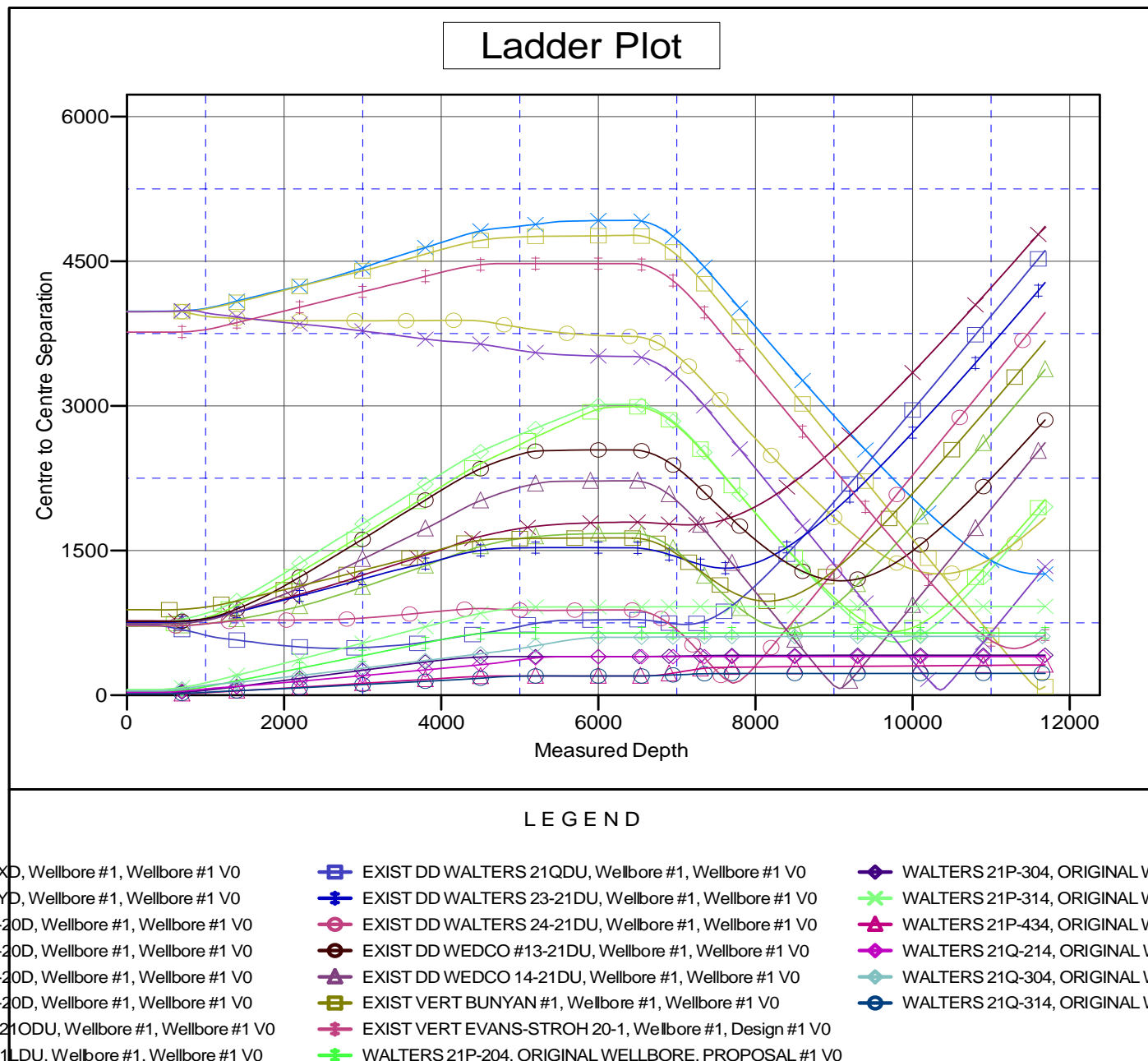
Reference Depths are relative to KB-EST @ 4952.5usft (Original Well ECoordinates are relative to: WALTERS 21P-234

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: 0.39°



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well WALTERS 21P-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Reference Site:</b>	SE SW SEC. 21 T4N R67W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4952.5usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	WALTERS 21P-234	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	EDM 5000.1 Single User Db
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB-EST @ 4952.5usft (Original Well ECoordinates are relative to: WALTERS 21P-234

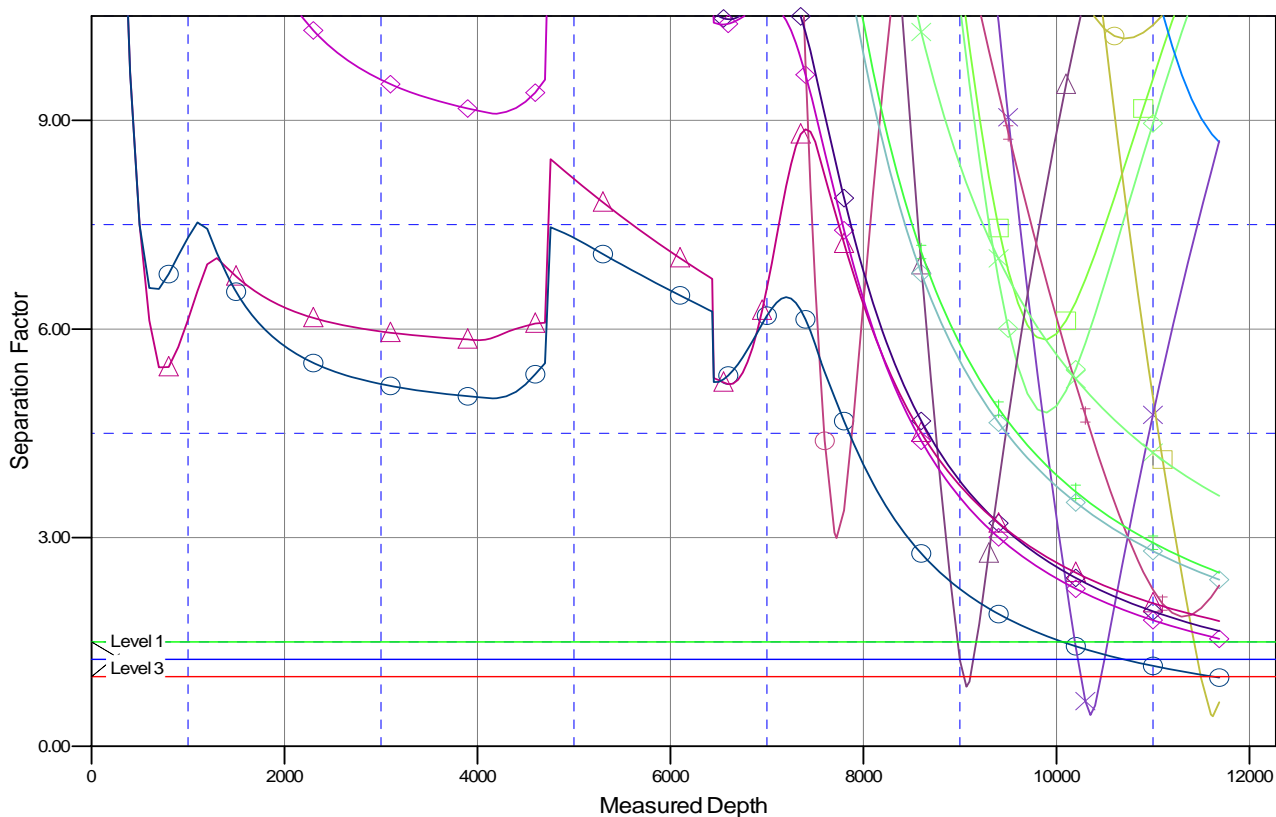
Offset Depths are relative to Offset Datum

Coordinate System is US State Plane 1983, Colorado Northern Zone

Central Meridian is -105.500000

Grid Convergence at Surface is: 0.39°

## Separation Factor Plot



## LEGEND

XD, Wellbore #1, Wellbore #1 V0	EXIST DD WALTERS 21QDU, Wellbore #1, Wellbore #1 V0	WALTERS 21P-304, ORIGINAL WEI
YD, Wellbore #1, Wellbore #1 V0	EXIST DD WALTERS 23-21DU, Wellbore #1, Wellbore #1 V0	WALTERS 21P-314, ORIGINAL WEI
3-20D, Wellbore #1, Wellbore #1 V0	EXIST DD WALTERS 24-21DU, Wellbore #1, Wellbore #1 V0	WALTERS 21P-434, ORIGINAL WEI
I-20D, Wellbore #1, Wellbore #1 V0	EXIST DD WEDCO #13-21DU, Wellbore #1, Wellbore #1 V0	WALTERS 21Q-214, ORIGINAL WEI
3-20D, Wellbore #1, Wellbore #1 V0	EXIST DD WEDCO 14-21DU, Wellbore #1, Wellbore #1 V0	WALTERS 21Q-304, ORIGINAL WEI
I-20D, Wellbore #1, Wellbore #1 V0	EXIST VERT BUNYAN #1, Wellbore #1, Wellbore #1 V0	WALTERS 21Q-314, ORIGINAL WEI
#21ODU, Wellbore #1, Wellbore #1 V0	EXIST VERT EVANS-STROH 20-1, Wellbore #1, Design #1 V0	
21L DU, Wellbore #1, Wellbore #1 V0	WALTERS 21P-204, ORIGINAL WELLBORE, PROPOSAL #1 V0	