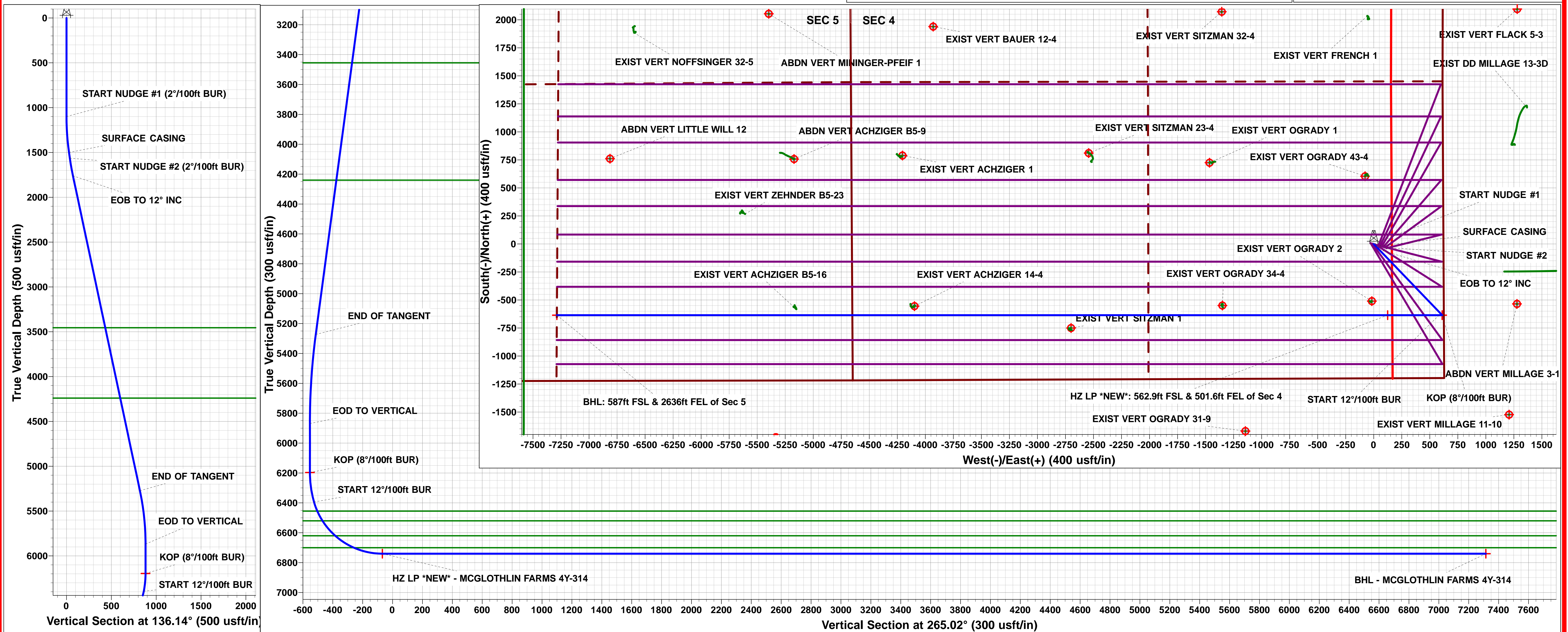


Azimuths to True North
 Magnetic North: 8.19°

Magnetic Field
 Strength: 52530.1snT
 Dip Angle: 66.93°
 Date: 29/07/2016
 Model: IGRF2015



PDC ENERGY

**WELD COUNTY, COLORADO
SE SE SEC. 4 T5N R64W 6th P.M.
MCGLOTHLIN FARMS 4Y-314**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

06 August, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well MCGLOTHLIN FARMS 4Y-314
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Reference Site:	SE SE SEC. 4 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MCGLOTHLIN FARMS 4Y-314	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	06/08/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	14,512.0	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
NW NW SEC. 5 T5N R64W 6th P.M.						
ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #	14,038.0	6,723.0	1,396.3	1,061.2	4.167	CC
ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #	14,100.0	6,723.0	1,397.7	1,060.8	4.150	ES
ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #	14,200.0	6,723.0	1,405.7	1,066.0	4.139	SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	14,512.0	6,400.0	2,842.4	2,626.5	13.164	CC, ES, SF
EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSAL	14,512.0	11,316.2	299.7	203.8	3.124	CC, ES, SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	14,512.0	11,277.2	551.7	457.2	5.843	CC, ES, SF
EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellbore	14,512.0	6,766.8	4,023.7	3,806.3	18.508	CC, ES, SF
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	13,818.7	6,723.3	2,579.0	2,380.8	13.012	CC
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	13,900.0	6,724.3	2,580.3	2,379.8	12.871	ES
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellbore	14,512.0	6,732.3	2,670.6	2,452.9	12.271	SF
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	14,512.0	6,668.7	1,610.0	1,392.7	7.410	CC, ES, SF
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	14,512.0	6,713.5	633.6	416.4	2.917	CC, ES, SF
SE SE SEC. 4 T5N R64W 6th P.M.						
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	12,521.9	6,726.7	1,448.6	1,287.1	8.966	CC
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	12,600.0	6,727.8	1,450.7	1,287.0	8.859	ES
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	12,900.0	6,732.0	1,497.1	1,325.0	8.697	SF
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,284.6	6,183.7	674.8	535.9	4.859	CC
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,300.0	6,199.1	674.9	533.4	4.767	ES, SF
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,622.0	6,743.0	2,689.3	2,393.6	9.095	CC
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,700.0	6,743.0	2,690.4	2,392.5	9.033	ES
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	13,300.0	6,743.0	2,773.4	2,458.8	8.815	SF
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,570.2	6,732.0	1,244.1	1,060.1	6.764	CC
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,600.0	6,732.0	1,244.4	1,059.7	6.738	ES
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,800.0	6,732.0	1,265.1	1,075.1	6.658	SF
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	2,543.5	2,562.6	1,499.2	1,486.4	117.290	CC
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	2,700.0	2,710.8	1,499.8	1,486.1	109.422	ES
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	14,512.0	6,750.2	8,679.5	8,450.1	37.836	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,284.6	10,966.0	811.8	685.6	6.435	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,519.7	10,966.0	741.2	655.6	8.656	CC, ES
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellbore #	12,391.2	6,718.9	89.0	-69.2	0.562	Level 1, CC, ES, SF
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Wellbore #	11,357.4	6,726.0	100.4	-28.8	0.777	Level 1, CC, ES, SF
EXIST VERT ACHZIGER 1 - Wellbore #1 - Wellbore #1	11,480.2	6,746.7	1,436.1	1,303.6	10.836	CC
EXIST VERT ACHZIGER 1 - Wellbore #1 - Wellbore #1	11,500.0	6,746.8	1,436.3	1,303.2	10.792	ES
EXIST VERT ACHZIGER 1 - Wellbore #1 - Wellbore #1	11,900.0	6,749.9	1,496.2	1,352.0	10.374	SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,154.9	6,740.0	2,575.0	2,318.0	10.023	CC
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,200.0	6,740.0	2,575.3	2,317.2	9.976	ES

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well MCGLOTHLIN FARMS 4Y-314
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Reference Site:	SE SE SEC. 4 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MCGLOTHLIN FARMS 4Y-314	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
SE SE SEC. 4 T5N R64W 6th P.M.						
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,900.0	6,740.0	2,680.6	2,402.9	9.654	SF
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,189.2	6,703.0	1,293.0	1,037.6	5.064	CC
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,200.0	6,703.0	1,293.0	1,037.4	5.058	ES
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,400.0	6,703.0	1,310.0	1,048.8	5.016	SF
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,874.7	6,711.0	1,265.1	1,046.1	5.777	CC
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,900.0	6,711.0	1,265.3	1,045.6	5.759	ES
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	10,100.0	6,711.0	1,285.0	1,059.8	5.706	SF
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	1,100.0	1,087.0	2,456.2	2,432.4	103.144	CC
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	1,300.0	1,286.8	2,458.0	2,429.8	87.105	ES
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	6,600.0	6,487.1	2,830.7	2,682.2	19.065	SF
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	1,110.5	1,096.0	2,033.5	2,030.5	682.341	CC, ES
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	14,512.0	6,687.9	7,701.4	7,484.0	35.431	SF
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,558.8	6,704.0	1,088.3	794.8	3.708	CC
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,600.0	6,704.0	1,089.1	794.4	3.696	ES
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,700.0	6,704.0	1,097.4	800.0	3.689	SF
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	7,174.3	6,729.0	1,223.0	1,070.3	8.009	CC
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	7,200.0	6,729.0	1,223.2	1,070.2	7.995	ES
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	7,300.0	6,729.0	1,229.4	1,075.0	7.961	SF
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	6,284.6	6,176.7	1,069.9	926.8	7.477	CC, ES, SF
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	8,639.1	6,737.2	1,368.9	1,314.3	25.069	CC
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	8,700.0	6,736.8	1,370.2	1,314.0	24.374	ES
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	9,600.0	6,731.7	1,672.4	1,591.9	20.764	SF
EXIST VERT OGRADY 2 - Wellbore #1 - Wellbore #1	7,252.9	6,700.0	121.7	99.3	5.433	CC, ES, SF
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,370.0	6,721.0	1,034.6	856.0	5.794	CC
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,400.0	6,721.0	1,035.0	855.7	5.771	ES
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	8,500.0	6,721.0	1,042.7	860.8	5.731	SF
EXIST VERT OGRADY 34-4 - Wellbore #1 - Wellbore #1	8,571.1	6,730.0	69.4	16.5	1.313	Level 3, CC, ES, SF
EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1	0.0	0.0	609.1			
EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1	9,800.0	6,700.0	2,815.1	2,729.2	32.751	SF
EXIST VERT SITZMAN 1 - Wellbore #1 - Wellbore #1	9,919.0	6,700.0	137.5	49.8	1.568	CC, ES, SF
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	9,925.6	6,700.0	2,769.1	2,679.5	30.901	CC
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	10,000.0	6,700.0	2,770.1	2,678.4	30.222	ES
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	12,300.0	6,614.3	3,646.5	3,491.1	23.462	SF
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	9,740.1	6,600.0	1,373.4	1,289.3	16.321	CC
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	9,800.0	6,600.0	1,374.8	1,289.0	16.025	ES
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	10,400.0	6,600.0	1,523.7	1,421.5	14.899	SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	1,100.0	1,095.0	2,476.1	2,452.2	103.625	CC
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	1,200.0	1,195.0	2,477.8	2,451.7	94.957	ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	9,700.0	6,735.0	2,929.9	2,713.3	13.526	SF
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,876.3	6,729.4	906.6	735.1	5.286	CC
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,900.0	6,729.3	906.9	734.7	5.268	ES
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	13,000.0	6,728.5	915.0	740.0	5.230	SF
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	700.0	700.0	60.0	57.2	20.913	CC
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	800.0	799.7	60.3	56.9	18.163	ES
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	14,512.0	14,507.5	1,774.2	1,343.5	4.119	SF
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	600.0	600.0	75.0	72.6	30.979	CC
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	700.0	699.4	75.4	72.5	26.281	ES
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	14,512.0	14,530.5	1,540.3	1,109.4	3.574	SF
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	800.0	800.0	44.8	41.5	13.492	CC
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	900.0	899.9	44.9	41.2	11.921	ES
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	14,512.0	14,720.3	2,061.7	1,631.4	4.791	SF
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	300.0	300.0	119.9	118.8	111.830	CC, ES
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	14,512.0	14,404.7	721.7	290.8	1.675	SF

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

Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well MCGLOTHLIN FARMS 4Y-314
Project:	WELD COUNTY, COLORADO	TVD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Reference Site:	SE SE SEC. 4 T5N R64W 6th P.M.	MD Reference:	KB-EST @ 4639.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	MCGLOTHLIN FARMS 4Y-314	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDM 5000.1 Single User Db
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SE SE SEC. 4 T5N R64W 6th P.M.						
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	500.0	500.0	90.0	88.0	45.638	CC, ES
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	14,512.0	14,428.9	1,207.7	776.8	2.803	SF
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	1,000.0	1,000.0	15.0	10.7	3.548	CC
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	14,512.0	14,430.7	260.2	-160.4	0.619	Level 1, ES, SF
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	400.0	400.0	104.9	103.4	68.957	CC, ES
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	14,512.0	14,489.4	973.1	541.3	2.253	SF
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	900.0	900.0	29.9	26.2	7.942	CC, ES
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	14,512.0	14,482.1	477.3	45.5	1.105	Level 2, SF
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	1,100.0	1,100.0	15.0	10.3	3.206	CC
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	14,512.0	14,491.9	229.8	-188.2	0.550	Level 1, ES, SF
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	1,100.0	1,100.0	30.1	25.4	6.445	CC
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	14,512.0	14,603.3	437.1	5.8	1.013	Level 2, ES, SF

Offset Design NW NW SEC. 5 T5N R64W 6th P.M. - ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #1												Offset Site Error:	0.0 usft
Survey Program: 0-INC												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)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-83.63	760.9	-6,812.8	6,855.1				
100.0	100.0	83.0	83.0	0.1	0.0	-83.63	760.9	-6,812.8	6,855.1	6,855.0	0.09	N/A	
200.0	200.0	183.0	183.0	0.3	0.9	-83.63	760.9	-6,812.8	6,855.1	6,853.9	1.17	5,842.984	
300.0	300.0	283.0	283.0	0.5	3.0	-83.63	760.9	-6,812.8	6,855.1	6,851.6	3.51	1,955.541	
400.0	400.0	383.0	383.0	0.8	5.1	-83.63	760.9	-6,812.8	6,855.1	6,849.3	5.85	1,171.270	
500.0	500.0	483.0	483.0	1.0	7.1	-83.63	760.9	-6,812.8	6,855.1	6,847.0	8.13	843.538	
600.0	600.0	583.0	583.0	1.2	9.2	-83.63	760.9	-6,812.8	6,855.1	6,844.7	10.38	660.235	
700.0	700.0	683.0	683.0	1.4	11.2	-83.63	760.9	-6,812.8	6,855.1	6,842.5	12.63	542.701	
800.0	800.0	783.0	783.0	1.7	13.2	-83.63	760.9	-6,812.8	6,855.1	6,840.2	14.88	460.814	
900.0	900.0	883.0	883.0	1.9	15.2	-83.63	760.9	-6,812.8	6,855.1	6,838.0	17.12	400.454	
1,000.0	1,000.0	983.0	983.0	2.1	17.2	-83.63	760.9	-6,812.8	6,855.1	6,835.8	19.36	354.104	
1,100.0	1,100.0	1,083.0	1,083.0	2.3	19.3	-83.63	760.9	-6,812.8	6,855.1	6,833.5	21.60	317.386	
1,200.0	1,200.0	1,183.0	1,183.0	2.5	21.3	140.22	760.9	-6,812.8	6,856.5	6,832.7	23.80	288.035	
1,300.0	1,299.8	1,282.8	1,282.8	2.7	23.3	140.20	760.9	-6,812.8	6,860.5	6,834.5	25.97	264.180	
1,400.0	1,399.5	1,382.5	1,382.5	2.9	25.3	140.16	760.9	-6,812.8	6,867.2	6,839.1	28.11	244.258	
1,500.0	1,498.7	1,481.7	1,481.7	3.1	27.3	140.11	760.9	-6,812.8	6,876.6	6,846.3	30.24	227.413	
1,501.3	1,500.0	1,483.0	1,483.0	3.1	27.3	140.11	760.9	-6,812.8	6,876.7	6,846.4	30.27	227.211	
1,566.3	1,564.4	1,547.4	1,547.4	3.3	28.6	140.16	760.9	-6,812.8	6,883.7	6,852.0	31.70	217.133	
1,600.0	1,597.7	1,580.7	1,580.7	3.4	29.3	140.14	760.9	-6,812.8	6,887.5	6,855.1	32.42	212.463	
1,700.0	1,696.3	1,679.3	1,679.3	3.7	31.3	140.06	760.9	-6,812.8	6,900.5	6,866.0	34.51	199.958	
1,765.2	1,760.2	1,743.2	1,743.2	3.9	32.6	140.00	760.9	-6,812.8	6,910.4	6,874.5	35.86	192.701	
1,800.0	1,794.2	1,777.2	1,777.2	4.0	33.2	140.03	760.9	-6,812.8	6,916.0	6,879.4	36.63	188.810	
1,900.0	1,892.0	1,875.0	1,875.0	4.4	35.2	140.14	760.9	-6,812.8	6,932.1	6,893.2	38.85	178.436	
2,000.0	1,989.8	1,972.8	1,972.8	4.7	37.2	140.25	760.9	-6,812.8	6,948.2	6,907.1	41.08	169.133	
2,100.0	2,087.7	2,070.7	2,070.7	5.1	39.1	140.36	760.9	-6,812.8	6,964.4	6,921.0	43.32	160.753	
2,200.0	2,185.5	2,168.5	2,168.5	5.5	41.1	140.47	760.9	-6,812.8	6,980.5	6,935.0	45.57	153.172	
2,300.0	2,283.3	2,266.3	2,266.3	5.9	43.1	140.58	760.9	-6,812.8	6,996.7	6,948.9	47.83	146.286	
2,400.0	2,381.1	2,364.1	2,364.1	6.3	45.0	140.68	760.9	-6,812.8	7,013.0	6,962.9	50.09	140.006	
2,500.0	2,478.9	2,461.9	2,461.9	6.8	47.0	140.79	760.9	-6,812.8	7,029.2	6,976.8	52.36	134.259	
2,600.0	2,576.7	2,559.7	2,559.7	7.2	49.0	140.90	760.9	-6,812.8	7,045.5	6,990.8	54.62	128.981	
2,700.0	2,674.5	2,657.5	2,657.5	7.6	50.9	141.00	760.9	-6,812.8	7,061.8	7,004.9	56.90	124.118	

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