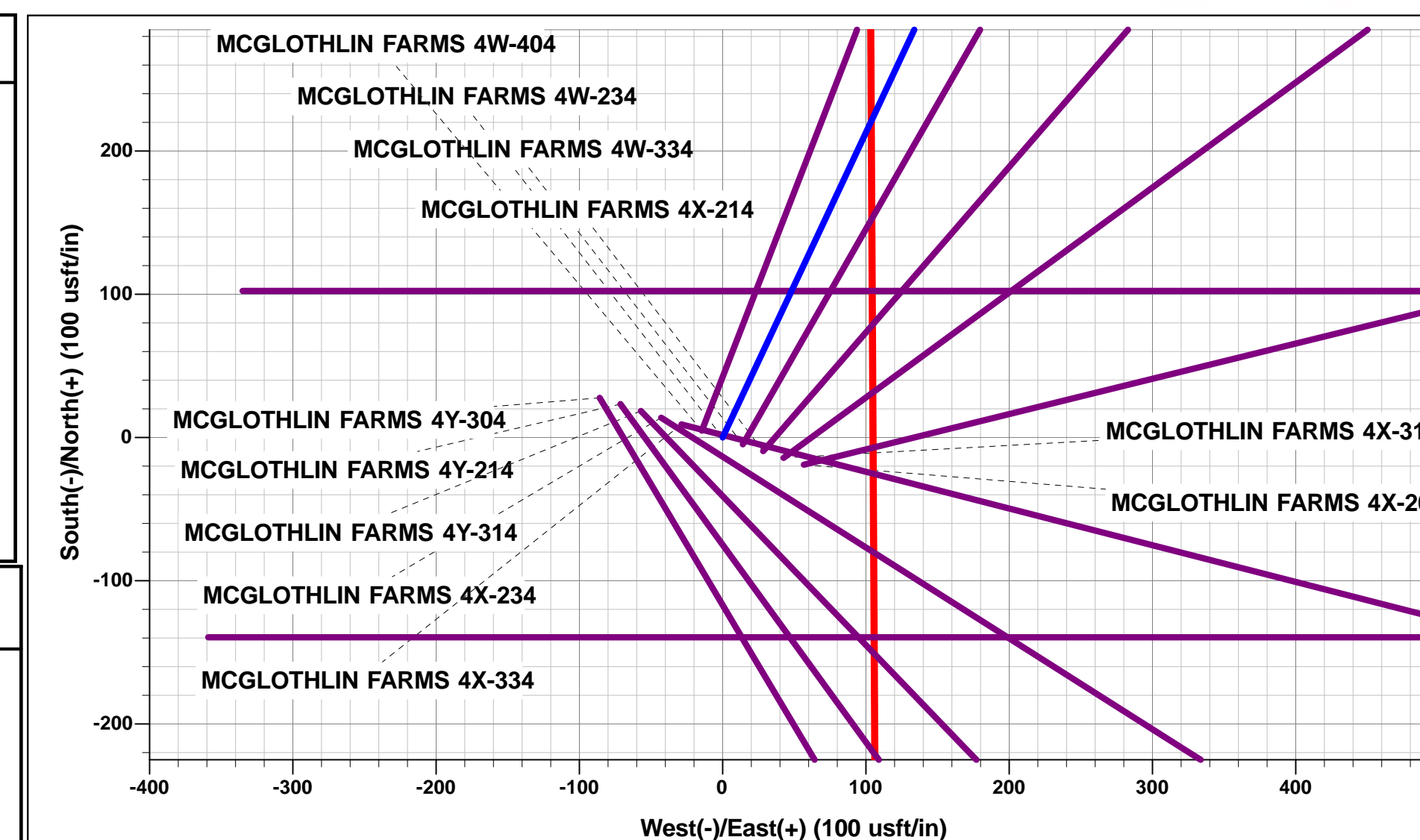


ANNOTATIONS									
	TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Dep	Annotation
	0.0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	SHL: 1180ft FSL & 565ft FEL of Sec 4
	700.0	700.0	0.00	0.00	0.0	0.0	0.0	0.0	START NUDGE (2'/30m BUR)
	1462.0	1471.3	15.43	25.18	93.4	43.9	-28.8	103.2	EOB TO 15.43° INC
	5344.7	5499.1	15.43	25.18	1062.9	499.7	-328.0	1174.5	END OF TANGENT
	6106.7	6270.4	0.00	0.00	1156.3	543.6	-356.9	1277.7	EOD TO VERTICAL
	6136.7	6300.4	0.00	0.00	1156.3	543.6	-356.9	1277.7	KOP (8'/100ft BUR)
	6334.1	6500.4	16.00	270.00	1156.3	515.9	-329.5	1305.4	START 12'/100ft BUR
	6680.0	7117.0	90.00	270.00	1156.3	56.9	123.9	1764.4	HZ LP *NEW*: 2335.9ft FSL & 501.6ft FEL of Sec 4
	6680.0	14507.5	90.00	270.00	1156.3	-7333.6	7424.2	9154.9	BHL: 2360ft FSL & 2614ft FEL of Sec 5
WELLBORE TARGET DETAILS (LAT/LONG)									
Name				TVD	+N/-S	+E/-W	Latitude		Longitude
KOP - MCGLOTHLIN FARMS 4W-234				6136.7	1156.3	543.6	40.427407		-104.545817
BHL - MCGLOTHLIN FARMS 4W-234				6680.0	1156.3	-7333.6	40.427404		-104.574111
HZ LP *NEW* - MCGLOTHLIN FARMS 4W-234				6680.0	1156.3	56.9	40.427407		-104.547566




**PROPOSED LOCAL COORDINATES:**

**SHL: 1180ft FSL & 565ft FEL of Sec 4**

**HZ LP \*NEW\*: 2335.9ft FSL & 501.6ft FEL of Sec 4**

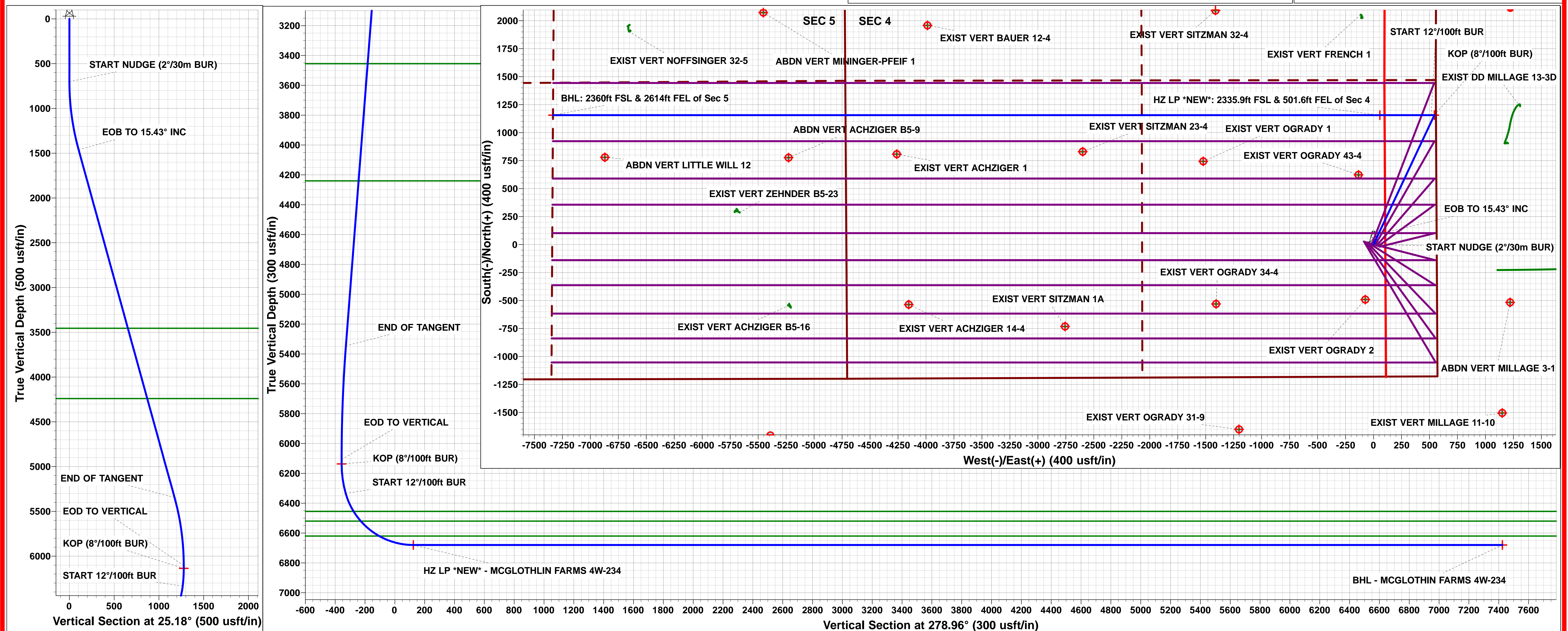
**BHL: 2360ft FSL & 2614ft FEL of Sec 5**

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**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 4W-234**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**29 July, 2016**



# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well MCGLOTHLIN FARMS 4W-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4639.0usft (Original Well Elev)
<b>Reference Site:</b>	SE SE SEC. 4 T5N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4639.0usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	MCGLOTHLIN FARMS 4W-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>	29/07/2016		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	14,507.5	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 #	14,043.7	6,663.0	376.8	43.1	1.129	Level 2, CC, ES, SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	14,507.5	6,400.0	1,208.4	997.1	5.721	CC, ES, SF
EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSAL	14,507.5	9,543.6	305.6	221.3	3.625	CC, ES, SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	14,507.5	9,504.7	569.2	486.4	6.869	CC, ES, SF
EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellb	14,507.5	6,693.7	2,292.4	2,075.5	10.569	CC, ES, SF
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	13,823.6	6,672.7	805.7	607.7	4.069	CC, ES
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	13,900.0	6,673.7	809.3	609.2	4.044	SF
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	14,507.5	6,672.4	904.3	687.3	4.168	CC, ES, SF
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	14,507.5	6,617.9	1,701.9	1,485.1	7.851	CC, ES, SF
SE SE SEC. 4 T5N R64W 6th P.M.						
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Design #1	12,401.9	6,672.0	379.8	91.9	1.319	Level 3, CC, ES, SF
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	1,246.4	1,230.1	1,324.7	1,299.7	53.008	CC
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	1,700.0	1,669.5	1,329.4	1,293.7	37.199	ES
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,500.4	6,321.1	1,815.4	1,668.9	12.391	SF
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,627.7	6,683.0	916.2	621.8	3.113	CC, ES
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,700.0	6,683.0	919.0	622.7	3.101	SF
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	700.0	692.0	2,329.9	2,317.2	183.106	CC
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	800.0	792.0	2,331.6	2,316.6	155.865	ES
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	10,000.0	6,672.0	3,336.4	3,115.2	15.084	SF
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	6,005.2	5,872.7	696.5	656.7	17.507	CC
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	6,100.0	5,967.2	696.6	656.5	17.349	ES
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	6,350.0	6,216.8	700.2	659.3	17.143	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,500.0	10,966.0	1,536.8	1,392.3	10.633	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,550.0	10,966.0	1,534.3	1,390.3	10.655	ES
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,557.5	10,966.0	1,534.2	1,390.3	10.660	CC
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,396.9	6,664.0	1,684.3	1,526.3	10.658	CC
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,400.0	6,664.0	1,684.3	1,526.2	10.653	ES
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,900.0	6,664.7	1,757.8	1,585.7	10.215	SF
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Design #1	11,327.8	6,666.0	1,692.6	1,432.5	6.508	CC
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Design #1	11,400.0	6,666.0	1,694.1	1,432.0	6.464	ES
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Design #1	11,600.0	6,666.0	1,714.3	1,446.7	6.405	SF
EXIST VERT ACHZINGER 1 - Wellbore #1 - Design #1	11,434.7	6,678.0	348.6	85.5	1.325	Level 3, CC, ES, SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,160.6	6,680.0	801.8	546.3	3.138	CC
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,200.0	6,680.0	802.8	546.2	3.128	ES, SF
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,194.9	6,643.0	3,066.1	2,812.1	12.073	CC
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,300.0	6,643.0	3,067.9	2,811.0	11.942	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 MCGLOTHLIN FARMS 4W-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4639.0usft (Original Well Elev)
<b>Reference Site:</b>	SE SE SEC. 4 T5N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4639.0usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	MCGLOTHLIN FARMS 4W-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 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.						
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	12,200.0	6,643.0	3,226.6	2,944.6	11.443	SF
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,880.4	6,651.0	3,038.2	2,820.5	13.957	CC
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	10,000.0	6,651.0	3,040.5	2,819.6	13.759	ES
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	11,100.0	6,651.0	3,273.9	3,022.4	13.022	SF
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	6,300.4	6,123.7	1,174.9	1,025.3	7.852	CC, ES, SF
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	7,284.2	6,655.9	869.6	846.2	37.190	CC
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	7,300.0	6,655.9	869.8	846.2	36.853	ES
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	8,200.0	6,653.2	1,262.9	1,219.8	29.266	SF
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,564.5	6,644.0	2,861.4	2,569.3	9.794	CC
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,600.0	6,644.0	2,861.6	2,568.5	9.762	ES
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	13,300.0	6,644.0	2,954.4	2,641.7	9.448	SF
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	700.0	689.0	1,839.8	1,827.1	144.942	CC
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	800.0	789.0	1,841.4	1,826.4	123.336	ES
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	8,800.0	6,669.0	3,406.0	3,217.4	18.063	SF
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	700.0	680.0	1,894.2	1,881.6	150.327	CC
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	800.0	780.0	1,895.0	1,880.2	127.681	ES
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	6,625.0	6,428.1	2,747.5	2,601.1	18.761	SF
EXIST VERT OGRADY 1 - Wellbore #1 - Design #1	8,695.7	6,677.0	412.7	224.6	2.195	CC
EXIST VERT OGRADY 1 - Wellbore #1 - Design #1	8,700.0	6,677.0	412.7	224.5	2.193	ES, SF
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	700.0	693.0	496.9	482.0	33.321	CC
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	800.0	793.0	498.6	481.5	29.081	ES
EXIST VERT OGRADY 2 - Wellbore #1 - Design #1	7,600.0	6,673.0	1,685.1	1,523.9	10.459	SF
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	700.0	681.0	2,042.4	2,029.8	161.953	CC
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	800.0	781.0	2,044.1	2,029.2	137.684	ES
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	9,600.0	6,661.0	3,063.0	2,852.9	14.578	SF
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	700.0	689.0	1,503.7	1,488.8	101.105	CC
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	800.0	789.0	1,504.9	1,487.8	87.970	ES
EXIST VERT OGRADY 34-4 - Wellbore #1 - Design #1	9,000.0	6,669.0	1,738.4	1,542.3	8.865	SF
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	2,987.5	2,907.6	386.1	316.5	5.550	CC
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	3,100.0	3,016.0	387.2	314.9	5.356	ES
EXIST VERT OGRADY 43-4 - Wellbore #1 - Design #1	7,307.8	6,664.0	533.7	378.0	3.428	SF
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	9,937.6	6,674.0	1,013.3	791.7	4.572	CC, ES
EXIST VERT SITZMAN 1 - Wellbore #1 - Design #1	10,100.0	6,674.0	1,026.3	800.1	4.538	SF
EXIST VERT SITZMAN 1A - Wellbore #1 - Design #1	9,930.9	6,676.0	1,888.1	1,666.5	8.524	CC
EXIST VERT SITZMAN 1A - Wellbore #1 - Design #1	10,000.0	6,676.0	1,889.3	1,665.9	8.457	ES
EXIST VERT SITZMAN 1A - Wellbore #1 - Design #1	10,400.0	6,676.0	1,945.4	1,711.0	8.298	SF
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,773.4	6,668.0	326.6	109.5	1.504	CC, ES
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Design #1	9,800.0	6,668.0	327.7	109.9	1.504	SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,586.2	6,675.0	934.5	749.4	5.048	CC
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,600.0	6,675.0	934.6	749.1	5.038	ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,700.0	6,675.0	941.4	753.3	5.004	SF
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,882.5	6,669.5	866.5	695.1	5.057	CC
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,900.0	6,669.4	866.7	694.8	5.043	ES
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	13,000.0	6,668.7	874.4	699.8	5.007	SF
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	600.0	600.0	15.0	12.5	6.183	CC
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	14,507.5	14,529.4	241.7	-175.6	0.579	Level 1, ES, SF
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	700.0	700.0	15.2	12.4	5.307	CC
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	14,507.5	14,720.3	319.0	-69.1	0.822	Level 1, ES, SF
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	300.0	300.0	59.9	58.8	55.844	CC, ES
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	14,507.5	14,398.9	1,054.0	622.3	2.442	SF
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	500.0	500.0	29.9	28.0	15.187	CC, ES
MCGLOTHLIN FARMS 4X-214 - ORIGINAL WELLBORE	14,507.5	14,426.5	566.9	136.0	1.316	Level 3, SF
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	700.0	700.0	45.1	42.2	15.698	CC

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

# Anticollision Report



<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well MCGLOTHLIN FARMS 4W-234
<b>Project:</b>	WELD COUNTY, COLORADO	<b>TVD Reference:</b>	KB-EST @ 4639.0usft (Original Well Elev)
<b>Reference Site:</b>	SE SE SEC. 4 T5N R64W 6th P.M.	<b>MD Reference:</b>	KB-EST @ 4639.0usft (Original Well Elev)
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	MCGLOTHLIN FARMS 4W-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 SE SEC. 4 T5N R64W 6th P.M.						
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	800.0	800.0	45.3	42.0	13.657	ES
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	14,507.5	14,420.2	1,519.9	1,089.1	3.528	SF
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	400.0	400.0	44.9	43.4	29.511	CC, ES
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	14,507.5	14,484.8	802.7	372.4	1.866	SF
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	700.0	700.0	30.1	27.2	10.483	CC
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	800.0	800.0	30.4	27.1	9.153	ES
MCGLOTHLIN FARMS 4Y-334 - ORIGINAL WELLBORE	14,507.5	14,473.8	1,297.5	866.7	3.012	SF
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	700.0	700.0	75.0	72.1	26.127	CC
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	800.0	800.0	75.2	71.9	22.674	ES
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	14,507.5	14,482.0	1,995.0	1,564.4	4.633	SF
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	700.0	700.0	90.1	87.2	31.395	CC
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	800.0	800.0	90.4	87.0	27.233	ES
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	14,507.5	14,593.1	2,210.4	1,779.8	5.133	SF
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	700.0	700.0	60.0	57.2	20.913	CC
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	800.0	800.0	60.3	56.9	18.165	ES
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	14,507.5	14,505.9	1,774.1	1,343.6	4.121	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		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-83.53	779.5	-6,869.8	6,913.9				
100.0	100.0	83.0	83.0	0.1	0.0	-83.53	779.5	-6,869.8	6,913.9	6,913.8	0.09	N/A	
200.0	200.0	183.0	183.0	0.3	0.9	-83.53	779.5	-6,869.8	6,913.9	6,912.7	1.17	5,893.100	
300.0	300.0	283.0	283.0	0.5	3.0	-83.53	779.5	-6,869.8	6,913.9	6,910.4	3.51	1,972.314	
400.0	400.0	383.0	383.0	0.8	5.1	-83.53	779.5	-6,869.8	6,913.9	6,908.1	5.85	1,181.316	
500.0	500.0	483.0	483.0	1.0	7.1	-83.53	779.5	-6,869.8	6,913.9	6,905.8	8.13	850.773	
600.0	600.0	583.0	583.0	1.2	9.2	-83.53	779.5	-6,869.8	6,913.9	6,903.5	10.38	665.897	
700.0	700.0	683.0	683.0	1.4	11.2	-83.53	779.5	-6,869.8	6,913.9	6,901.3	12.63	547.355	
800.0	800.0	783.0	783.0	1.7	13.2	-108.71	779.5	-6,869.8	6,914.5	6,899.6	14.87	464.908	
900.0	899.8	882.8	882.8	1.9	15.2	-108.72	779.5	-6,869.8	6,916.2	6,899.1	17.11	404.280	
1,000.0	999.5	982.5	982.5	2.1	17.2	-108.73	779.5	-6,869.8	6,919.0	6,899.6	19.34	357.734	
1,100.0	1,098.7	1,081.7	1,081.7	2.4	19.2	-108.75	779.5	-6,869.8	6,922.9	6,901.3	21.58	320.797	
1,200.0	1,197.5	1,180.5	1,180.5	2.7	21.2	-108.78	779.5	-6,869.8	6,928.0	6,904.2	23.83	290.701	
1,300.0	1,295.6	1,278.6	1,278.6	3.0	23.2	-108.81	779.5	-6,869.8	6,934.2	6,908.1	26.10	265.654	
1,400.0	1,393.1	1,376.1	1,376.1	3.4	25.2	-108.84	779.5	-6,869.8	6,941.7	6,913.3	28.40	244.450	
1,471.3	1,462.0	1,445.0	1,445.0	3.7	26.6	-108.86	779.5	-6,869.8	6,947.7	6,917.6	30.05	231.215	
1,500.0	1,489.7	1,472.7	1,472.7	3.8	27.1	-108.92	779.5	-6,869.8	6,950.3	6,919.5	30.73	226.203	
1,600.0	1,586.1	1,569.1	1,569.1	4.2	29.1	-109.12	779.5	-6,869.8	6,959.2	6,926.1	33.09	210.280	
1,700.0	1,682.5	1,665.5	1,665.5	4.7	31.0	-109.32	779.5	-6,869.8	6,968.3	6,932.8	35.48	196.399	
1,800.0	1,778.9	1,761.9	1,761.9	5.2	32.9	-109.52	779.5	-6,869.8	6,977.4	6,939.5	37.88	184.213	
1,900.0	1,875.3	1,858.3	1,858.3	5.7	34.9	-109.72	779.5	-6,869.8	6,986.6	6,946.3	40.28	173.445	
2,000.0	1,971.7	1,954.7	1,954.7	6.2	36.8	-109.91	779.5	-6,869.8	6,995.9	6,953.2	42.69	163.869	
2,100.0	2,068.1	2,051.1	2,051.1	6.7	38.7	-110.11	779.5	-6,869.8	7,005.3	6,960.2	45.11	155.305	
2,200.0	2,164.5	2,147.5	2,147.5	7.3	40.7	-110.31	779.5	-6,869.8	7,014.8	6,967.3	47.52	147.603	
2,300.0	2,260.9	2,243.9	2,243.9	7.8	42.6	-110.51	779.5	-6,869.8	7,024.4	6,974.5	49.95	140.642	
2,400.0	2,357.3	2,340.3	2,340.3	8.3	44.6	-110.70	779.5	-6,869.8	7,034.1	6,981.7	52.37	134.323	
2,500.0	2,453.7	2,436.7	2,436.7	8.8	46.5	-110.90	779.5	-6,869.8	7,043.8	6,989.0	54.79	128.561	

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