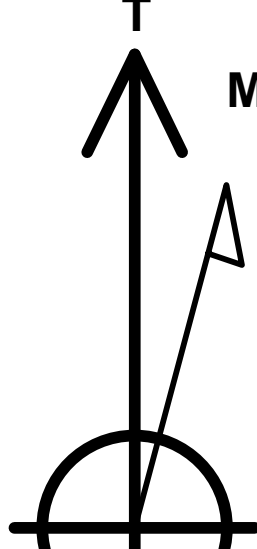


PROPOSED LOCAL COORDINATES:

SHL: 1170ft FSL & 537ft FEL of Sec 4

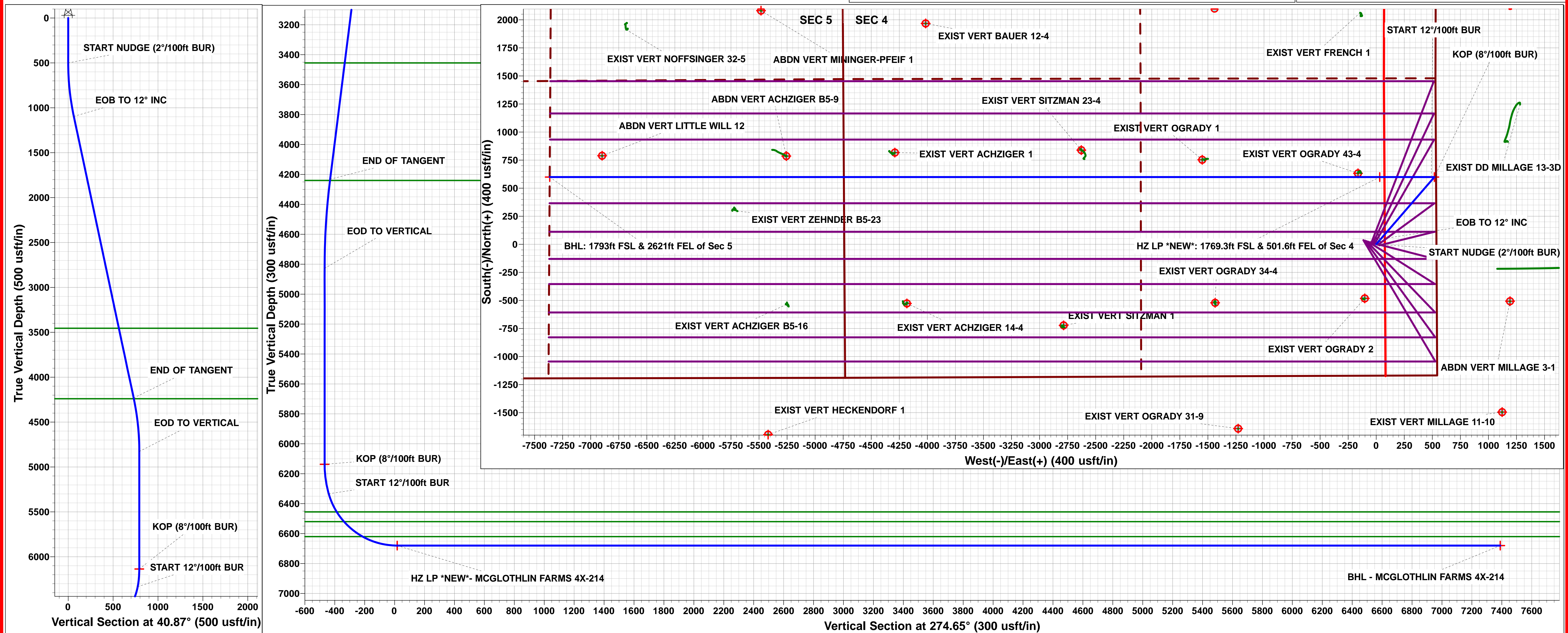
HZ LP *NEW*: 1769.3ft FSL & 501.6ft FEL of Sec 4

BHL: 1793ft FSL & 2621ft FEL of Sec 5



Azimuths to True North
Magnetic North: 8.19°

Magnetic Field
Strength: 52530.1nT
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 4X-214**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

06 August, 2016



Anticollision Report



Company:	PDC ENERGY	Local Co-ordinate Reference:	Well MCGLOTHLIN FARMS 4X-214
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 4X-214	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	14,428.9	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 #	13,961.9	6,663.0	190.1	-144.1	0.569	Level 1, CC, ES, SF
ABDN VERT NOFFSINGER #1 - Wellbore #1 - Wellbore	14,428.9	6,400.0	1,697.4	1,482.4	7.894	CC, ES, SF
EHRlich 5M-243 - ORIGINAL WELLBORE - PROPOSAL	14,428.9	10,110.4	302.3	215.3	3.472	CC, ES, SF
EHRlich 5M-343 - ORIGINAL WELLBORE - PROPOSAL	14,428.9	10,071.5	565.5	479.8	6.604	CC, ES, SF
EXIST VERT NOFFSINGER #21-5 - Wellbore #1 - Wellb	14,428.9	6,697.1	2,840.5	2,623.0	13.062	CC, ES, SF
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	13,741.8	6,671.1	1,372.6	1,174.1	6.916	CC
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	13,800.0	6,671.9	1,373.8	1,173.7	6.866	ES
EXIST VERT NOFFSINGER #32-5 - Wellbore #1 - Wellb	14,000.0	6,674.6	1,396.7	1,191.0	6.790	SF
EXIST VERT PLUMB #B5-11 - Wellbore #1 - Wellbore #	14,428.9	6,649.7	836.7	619.5	3.852	CC, ES, SF
EXIST VERT PLUMB B5-14 - Wellbore #1 - Wellbore #1	14,428.9	6,628.4	1,189.8	972.4	5.474	CC, ES, SF
SE SE SEC. 4 T5N R64W 6th P.M.						
ABDN VERT ACHZIGER B5-9 - Wellbore #1 - Wellbore #	12,445.1	6,674.2	242.1	80.2	1.496	Level 3, CC, ES, SF
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	2,707.2	2,654.7	1,233.6	1,173.3	20.451	CC
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,250.0	6,158.1	1,295.8	1,155.0	9.206	ES
ABDN VERT MILLAGE 3-1 - Wellbore #1 - Design #1	6,350.0	6,257.4	1,301.9	1,159.8	9.158	SF
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,545.9	6,683.0	1,483.0	1,188.3	5.032	CC
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,600.0	6,683.0	1,484.0	1,187.8	5.009	ES
ABDN VERT MININGER-PFEIF 1 - Wellbore #1 - Design	12,800.0	6,683.0	1,504.6	1,202.8	4.985	SF
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	500.0	492.0	2,339.6	2,331.3	284.572	CC
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	8,600.0	6,672.0	2,452.6	2,267.0	13.217	ES
ABDN VERT OGRADY 3 - Wellbore #1 - Design #1	9,400.0	6,672.0	2,612.4	2,405.2	12.606	SF
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	4,997.4	4,955.6	716.7	688.4	25.342	CC
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	5,100.0	5,056.7	716.8	688.2	25.056	ES
EXIST DD MILLAGE 13-3D - Wellbore #1 - Wellbore #1	6,215.5	6,170.5	726.0	693.7	22.468	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,415.5	10,966.0	1,053.8	927.0	8.311	SF
EXIST HZ WOLFPACK PC B3-63-1HN - Wellbore #1 - V	6,473.2	10,966.0	1,050.0	924.1	8.337	CC, ES
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,315.1	6,662.4	1,117.4	959.0	7.053	CC, ES
EXIST VERT ACHZIGER #B5-16 - Wellbore #1 - Wellboi	12,500.0	6,662.6	1,132.6	969.0	6.923	SF
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Wellbore #	11,281.6	6,677.2	1,106.3	976.9	8.545	CC
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Wellbore #	11,300.0	6,677.1	1,106.5	976.5	8.513	ES
EXIST VERT ACHZIGER 14-4 - Wellbore #1 - Wellbore #	11,500.0	6,675.9	1,127.7	992.1	8.319	SF
EXIST VERT ACHZINGER 1 - Wellbore #1 - Wellbore #1	11,403.9	6,681.2	230.3	97.6	1.735	CC, ES, SF
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,078.8	6,680.0	1,368.7	1,112.8	5.348	CC
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,100.0	6,680.0	1,368.9	1,112.4	5.336	ES
EXIST VERT BAUER 12-4 - Wellbore #1 - Design #1	11,300.0	6,680.0	1,386.5	1,124.4	5.290	SF
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,113.1	6,643.0	2,499.2	2,244.8	9.826	CC

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 4X-214
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 4X-214	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.						
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,200.0	6,643.0	2,500.7	2,243.9	9.739	ES
EXIST VERT BLOSKAS 1 - Wellbore #1 - Design #1	11,800.0	6,643.0	2,591.9	2,318.4	9.477	SF
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,798.6	6,651.0	2,471.3	2,253.3	11.337	CC
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	9,900.0	6,651.0	2,473.4	2,252.6	11.203	ES
EXIST VERT BOND 21-9 - Wellbore #1 - Design #1	10,600.0	6,651.0	2,598.0	2,357.9	10.818	SF
EXIST VERT FLACK 5-3 - Wellbore #1 - Design #1	6,215.5	6,123.7	1,668.7	1,526.5	11.739	CC, ES, SF
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	7,202.4	6,652.8	1,436.5	1,413.9	63.640	CC, ES
EXIST VERT FRENCH 1 - Wellbore #1 - Wellbore #1	10,800.0	6,642.1	3,873.8	3,757.7	33.373	SF
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,482.7	6,644.0	2,294.5	2,002.0	7.843	CC
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	12,500.0	6,644.0	2,294.6	2,001.6	7.830	ES
EXIST VERT HECKENDORF 1 - Wellbore #1 - Design #	13,000.0	6,644.0	2,352.1	2,045.1	7.661	SF
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	500.0	489.0	1,830.6	1,822.4	223.529	CC
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	600.0	589.0	1,832.0	1,821.5	175.490	ES
EXIST VERT HEINRICH 41-9 - Wellbore #1 - Design #1	8,100.0	6,669.0	2,627.7	2,455.2	15.238	SF
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	500.0	480.0	1,869.5	1,861.4	230.941	CC
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	800.0	779.5	1,872.9	1,858.1	126.201	ES
EXIST VERT MILLAGE 11-10 - Wellbore #1 - Design #1	6,475.0	6,370.1	2,193.1	2,049.9	15.312	SF
EXIST VERT OGRADY 1 - Wellbore #1 - Wellbore #1	8,563.3	6,677.7	162.6	108.0	2.975	CC, ES, SF
EXIST VERT OGRADY 2 - Wellbore #1 - Wellbore #1	244.4	237.4	492.2	491.5	738.093	CC
EXIST VERT OGRADY 2 - Wellbore #1 - Wellbore #1	300.0	291.7	492.2	491.4	594.875	ES
EXIST VERT OGRADY 2 - Wellbore #1 - Wellbore #1	9,100.0	6,642.7	2,209.7	2,140.7	32.005	SF
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	500.0	481.0	2,051.6	2,043.5	253.110	CC
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	600.0	581.0	2,053.4	2,043.0	198.315	ES
EXIST VERT OGRADY 31-9 - Wellbore #1 - Design #1	9,100.0	6,661.0	2,381.4	2,182.5	11.971	SF
EXIST VERT OGRADY 34-4 - Wellbore #1 - Wellbore #1	8,495.6	6,658.6	1,136.3	1,083.4	21.506	CC
EXIST VERT OGRADY 34-4 - Wellbore #1 - Wellbore #1	8,500.0	6,658.6	1,136.3	1,083.3	21.460	ES
EXIST VERT OGRADY 34-4 - Wellbore #1 - Wellbore #1	9,200.0	6,653.2	1,336.9	1,265.1	18.619	SF
EXIST VERT OGRADY 43-4 - Wellbore #1 - Wellbore #1	7,197.9	6,664.9	35.7	13.4	1.598	CC, ES, SF
EXIST VERT SITZMAN 1 - Wellbore #1 - Wellbore #1	9,844.2	6,676.0	1,338.7	1,249.1	14.931	CC
EXIST VERT SITZMAN 1 - Wellbore #1 - Wellbore #1	9,900.0	6,672.9	1,339.9	1,248.7	14.692	ES
EXIST VERT SITZMAN 1 - Wellbore #1 - Wellbore #1	10,400.0	6,647.1	1,449.2	1,344.2	13.805	SF
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	9,850.9	6,675.1	1,562.7	1,472.8	17.392	CC
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	9,900.0	6,672.3	1,563.4	1,472.2	17.142	ES
EXIST VERT SITZMAN 1A - Wellbore #1 - Wellbore #1	10,600.0	6,635.2	1,732.4	1,621.9	15.664	SF
EXIST VERT SITZMAN 23-4 - Wellbore #1 - Wellbore #1	9,663.9	6,600.0	175.7	95.2	2.182	CC, ES, SF
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,504.4	6,675.0	1,501.4	1,316.2	8.106	CC, ES
EXIST VERT SITZMAN 32-4 - Wellbore #1 - Design #1	8,800.0	6,675.0	1,530.2	1,337.1	7.923	SF
EXIST VERT ZEHNDER B5-23 - Wellbore #1 - Wellbore	12,800.7	6,669.4	299.6	127.8	1.744	CC, ES, SF
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	500.0	500.0	29.9	28.0	15.187	CC, ES
MCGLOTHLIN FARMS 4W-234 - ORIGINAL WELLBORI	14,428.9	14,507.5	566.9	135.9	1.315	Level 3, SF
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	500.0	500.0	15.0	13.0	7.594	CC
MCGLOTHLIN FARMS 4W-334 - ORIGINAL WELLBORI	14,428.9	14,530.5	340.3	-82.6	0.805	Level 1, ES, SF
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	500.0	500.0	45.2	43.2	22.915	CC, ES
MCGLOTHLIN FARMS 4W-404 - ORIGINAL WELLBORI	14,428.9	14,720.3	865.2	440.4	2.037	SF
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	300.0	300.0	29.9	28.9	27.922	CC, ES
MCGLOTHLIN FARMS 4X-204 - ORIGINAL WELLBORE	14,428.9	14,401.9	487.1	54.8	1.127	Level 2, SF
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	500.0	500.0	75.0	73.0	38.044	CC, ES
MCGLOTHLIN FARMS 4X-234 - ORIGINAL WELLBORE	14,428.9	14,424.1	953.0	521.5	2.209	SF
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	400.0	400.0	15.0	13.4	9.837	CC
MCGLOTHLIN FARMS 4X-314 - ORIGINAL WELLBORE	14,428.9	14,488.0	242.1	-175.9	0.579	Level 1, ES, SF
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	500.0	500.0	60.0	58.1	30.451	CC, ES
MCGLOTHLIN FARMS 4X-334 - ORIGINAL WELLBORE	14,428.9	14,477.3	731.9	301.5	1.701	SF
MCGLOTHLIN FARMS 4Y-214 - ORIGINAL WELLBORE	500.0	500.0	104.9	103.0	53.231	CC, 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 4X-214
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 4X-214	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	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 4Y-214 - ORIGINAL WELLBORE	14,428.9	14,485.1	1,428.1	996.9	3.312	SF
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	500.0	500.0	120.0	118.1	60.901	CC, ES
MCGLOTHLIN FARMS 4Y-304 - ORIGINAL WELLBORE	14,428.9	14,596.4	1,643.7	1,212.5	3.812	SF
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	500.0	500.0	90.0	88.0	45.638	CC, ES
MCGLOTHLIN FARMS 4Y-314 - ORIGINAL WELLBORE	14,428.9	14,507.7	1,207.7	776.9	2.803	SF

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-INC												Offset Well Error:	0.0 usft
NW NW SEC. 5 T5N R64W 6th P.M. - ABDN VERT LITTLE WILL #12 - Wellbore #1 - Design #1													
Reference	Offset	Semi Major Axis		Distance		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-83.48	789.0	-6,898.2	6,943.2				
100.0	100.0	83.0	83.0	0.1	0.0	-83.48	789.0	-6,898.2	6,943.2	6,943.1	0.09	N/A	
200.0	200.0	183.0	183.0	0.3	0.9	-83.48	789.0	-6,898.2	6,943.2	6,942.0	1.17	5,918.064	
300.0	300.0	283.0	283.0	0.5	3.0	-83.48	789.0	-6,898.2	6,943.2	6,939.7	3.51	1,980.669	
400.0	400.0	383.0	383.0	0.8	5.1	-83.48	789.0	-6,898.2	6,943.2	6,937.4	5.85	1,186.320	
500.0	500.0	483.0	483.0	1.0	7.1	-83.48	789.0	-6,898.2	6,943.2	6,935.1	8.13	854.377	
600.0	600.0	583.0	583.0	1.2	9.2	-124.34	789.0	-6,898.2	6,944.2	6,933.8	10.38	669.178	
700.0	699.8	682.8	682.8	1.4	11.2	-124.33	789.0	-6,898.2	6,947.1	6,934.5	12.61	550.809	
800.0	799.5	782.5	782.5	1.7	13.2	-124.30	789.0	-6,898.2	6,952.1	6,937.2	14.84	468.430	
900.0	898.7	881.7	881.7	1.9	15.2	-124.27	789.0	-6,898.2	6,959.0	6,941.9	17.07	407.724	
1,000.0	997.5	980.5	980.5	2.2	17.2	-124.23	789.0	-6,898.2	6,967.9	6,948.6	19.30	361.080	
1,100.1	1,095.7	1,078.7	1,078.7	2.6	19.2	-124.18	789.0	-6,898.2	6,978.7	6,957.2	21.54	324.061	
1,200.0	1,193.4	1,176.4	1,176.4	3.0	21.1	-124.32	789.0	-6,898.2	6,990.6	6,966.8	23.83	293.401	
1,300.0	1,291.3	1,274.3	1,274.3	3.4	23.1	-124.45	789.0	-6,898.2	7,002.5	6,976.4	26.13	267.971	
1,400.0	1,389.1	1,372.1	1,372.1	3.8	25.1	-124.59	789.0	-6,898.2	7,014.5	6,986.0	28.45	246.589	
1,500.0	1,486.9	1,469.9	1,469.9	4.2	27.1	-124.73	789.0	-6,898.2	7,026.5	6,995.7	30.77	228.381	
1,600.0	1,584.7	1,567.7	1,567.7	4.6	29.0	-124.87	789.0	-6,898.2	7,038.5	7,005.4	33.09	212.702	
1,700.0	1,682.5	1,665.5	1,665.5	5.0	31.0	-125.00	789.0	-6,898.2	7,050.6	7,015.2	35.42	199.065	
1,800.0	1,780.3	1,763.3	1,763.3	5.5	33.0	-125.14	789.0	-6,898.2	7,062.7	7,025.0	37.75	187.100	
1,900.0	1,878.1	1,861.1	1,861.1	5.9	34.9	-125.28	789.0	-6,898.2	7,074.9	7,034.8	40.08	176.521	
2,000.0	1,976.0	1,959.0	1,959.0	6.3	36.9	-125.41	789.0	-6,898.2	7,087.1	7,044.7	42.41	167.103	
2,100.0	2,073.8	2,056.8	2,056.8	6.8	38.9	-125.55	789.0	-6,898.2	7,099.3	7,054.6	44.74	158.665	
2,200.0	2,171.6	2,154.6	2,154.6	7.2	40.8	-125.68	789.0	-6,898.2	7,111.6	7,064.6	47.08	151.063	
2,300.0	2,269.4	2,252.4	2,252.4	7.7	42.8	-125.81	789.0	-6,898.2	7,124.0	7,074.5	49.41	144.179	
2,400.0	2,367.2	2,350.2	2,350.2	8.1	44.8	-125.95	789.0	-6,898.2	7,136.3	7,084.6	51.74	137.917	
2,500.0	2,465.0	2,448.0	2,448.0	8.5	46.7	-126.08	789.0	-6,898.2	7,148.7	7,094.6	54.08	132.196	
2,600.0	2,562.8	2,545.8	2,545.8	9.0	48.7	-126.21	789.0	-6,898.2	7,161.2	7,104.8	56.41	126.950	
2,700.0	2,660.7	2,643.7	2,643.7	9.4	50.7	-126.34	789.0	-6,898.2	7,173.6	7,114.9	58.74	122.122	
2,800.0	2,758.5	2,741.5	2,741.5	9.9	52.6	-126.48	789.0	-6,898.2	7,186.2	7,125.1	61.07	117.664	
2,900.0	2,856.3	2,839.3	2,839.3	10.3	54.6	-126.61	789.0	-6,898.2	7,198.7	7,135.3	63.40	113.536	
3,000.0	2,954.1	2,937.1	2,937.1	10.8	56.6	-126.74	789.0	-6,898.2	7,211.3	7,145.6	65.74	109.702	
3,100.0	3,051.9	3,034.9	3,034.9	11.2	58.5	-126.87	789.0	-6,898.2	7,223.9	7,155.9	68.07	106.131	
3,200.0	3,149.7	3,132.7	3,132.7	11.7	60.5	-127.00	789.0	-6,898.2	7,236.6	7,166.2	70.40	102.799	
3,300.0	3,247.5	3,230.5	3,230.5	12.1	62.5	-127.13	789.0	-6,898.2	7,249.3	7,176.6	72.72	99.682	
3,400.0	3,345.3	3,328.3	3,328.3	12.6	64.4	-127.26	789.0	-6,898.2	7,262.1	7,187.0	75.05	96.759	
3,500.0	3,443.2	3,426.2	3,426.2	13.0	66.4	-127.39	789.0	-6,898.2	7,274.9	7,197.5	77.38	94.014	
3,600.0	3,541.0	3,524.0	3,524.0	13.5	68.4	-127.51	789.0	-6,898.2	7,287.7	7,208.0	79.71	91.430	
3,700.0	3,638.8	3,621.8	3,621.8	13.9	70.3	-127.64	789.0	-6,898.2	7,300.5	7,218.5	82.03	88.994	

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