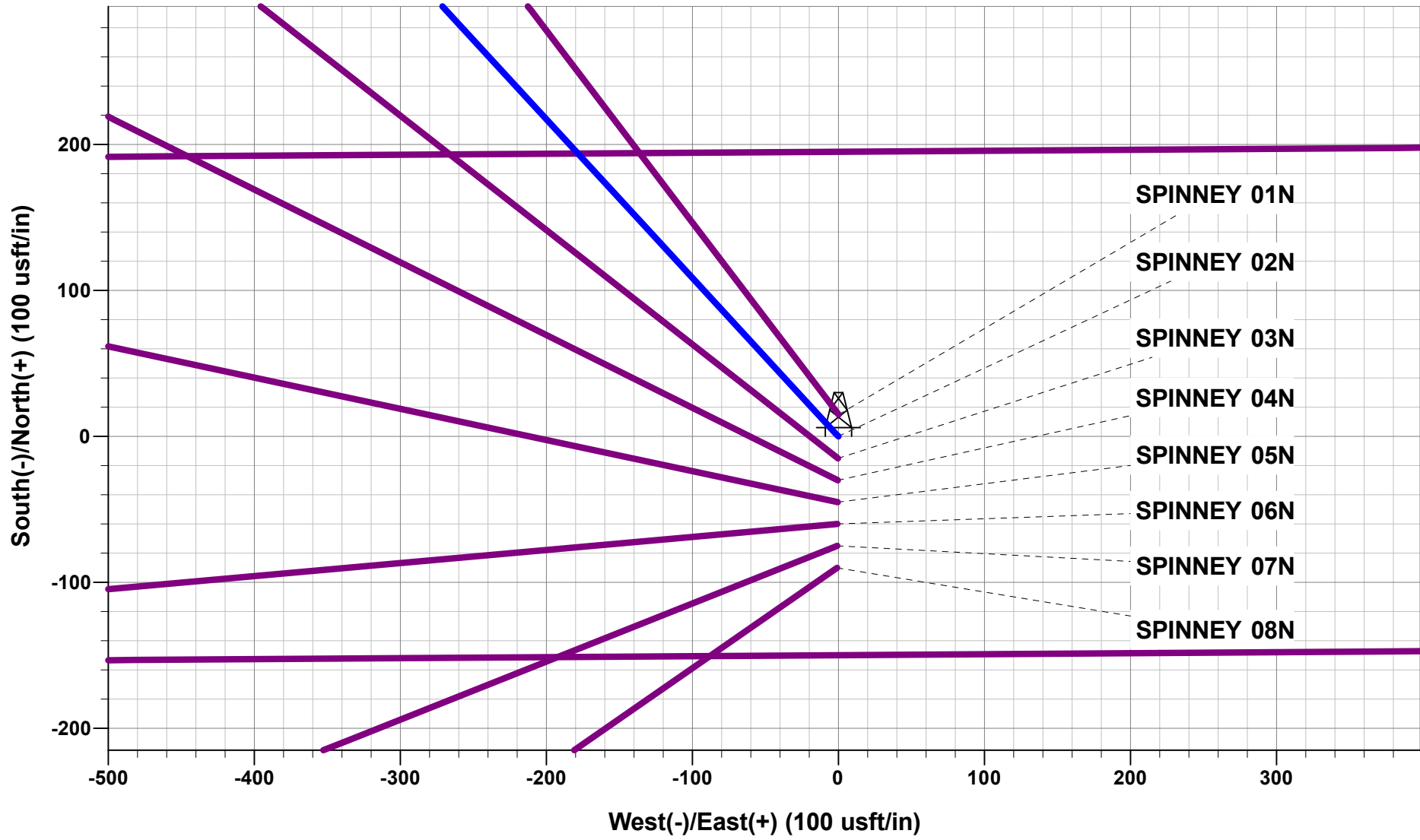




Project: WELD COUNTY, COLORADO (TRUE)
Site: SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)
Well: SPINNEY 02N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #2

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 978ft FSL & 1296ft FWL of Sec 9
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	START NUDGE (2°/100ft BUR)
1284.96	17.70	317.39	1270.95	99.80	-91.80	-82.61	135.60	EOB TO 17.7° INC
5677.81	17.70	317.39	5455.87	1082.70	-995.95	-896.20	1471.11	END OF TANGENT
6562.76	0.00	0.00	6326.82	1182.50	-1087.75	-978.81	1606.71	EOD TO 0° INC
6662.76	0.00	0.00	6426.82	1182.50	-1087.75	-978.81	1606.71	KOP (8°/100ft BUR)
7600.27	75.00	89.61	7118.61	1186.11	-556.92	-449.75	2137.55	EP: 2170ft FSL & 737ft FWL of Sec 9
7790.63	90.23	89.61	7143.00	1187.39	-368.70	-262.15	2325.78	HZ LANDING POINT
10981.63	90.23	89.61	7130.20	1209.06	2822.20	2918.14	5516.75	END OF TANGENT
11115.32	90.23	85.60	7129.66	1214.65	2955.75	3051.66	5650.44	EOT TO 85.6° AZ
11145.32	90.23	85.60	7129.54	1216.95	2985.66	3081.66	5680.44	END OF TANGENT
11278.99	90.23	89.61	7129.00	1222.53	3119.18	3215.15	5814.11	EOT TO 89.61° AZ
13974.99	90.23	89.61	7118.23	1240.89	5815.10	5902.11	8510.09	END OF TANGENT
14109.65	90.23	93.65	7117.70	1237.06	5949.68	6035.82	8644.75	EOT TO 93.65° AZ
14139.65	90.23	93.65	7117.58	1235.15	5979.62	6065.48	8674.75	END OF TANGENT
14274.19	90.23	89.61	7117.04	1231.32	6114.07	6199.06	8809.28	EOT TO 89.61° AZ
22653.80	90.23	89.61	7083.00	1287.94	14493.42	14550.53	17188.82	BHL: 2170ft FSL & 150ft FEL of Sec 11

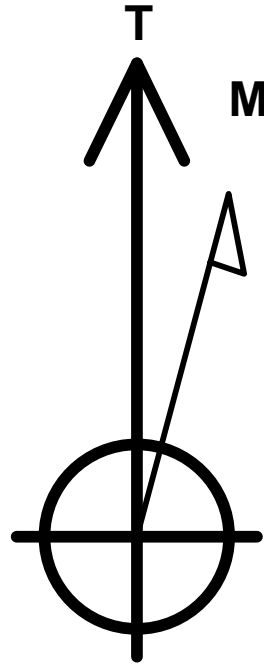


PROPOSED LOCAL COORDINATES:

SHL: 978ft FSL & 1296ft FWL of Sec 9

EP: 2170ft FSL & 737ft FWL of Sec 9

BHL: 2170ft FSL & 150ft FEL of Sec 11

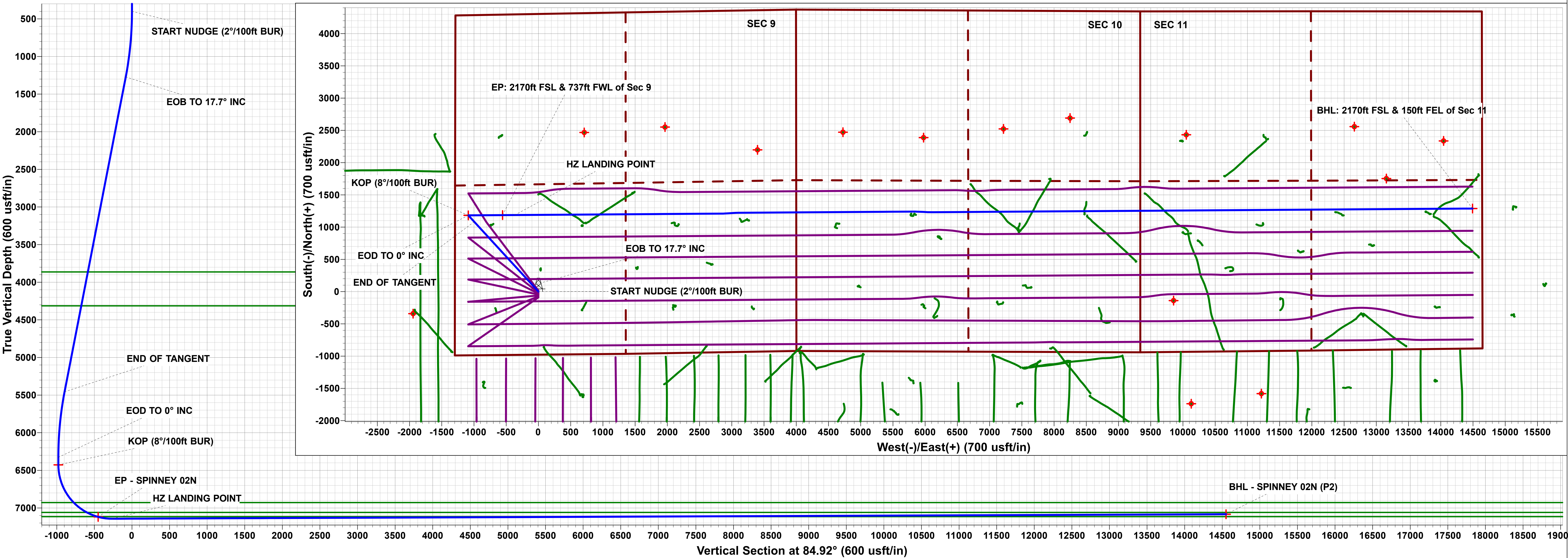


Azimuths to True North
Magnetic North: 7.87°

Magnetic Field
Strength: 51890.5nT
Dip Angle: 66.53°
Date: 2021-03-18
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - SPINNEY 02N (P2)	7083.00	1287.94	14493.42	1330575.28	3213462.10	40.238301	-104.735372
EP - SPINNEY 02N	7118.61	1186.11	-556.92	1330352.50	3198413.72	40.238033	-104.789280
KOP - SPINNEY 02N	6426.82	1182.50	-1087.75	1330344.62	3197882.96	40.238023	-104.791181



PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)
SPINNEY 02N**

**ORIGINAL WELLBORE
PROPOSAL #2**

Anticollision Report

18 March, 2021

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well SPINNEY 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB (23ft) @ 4883.00usft
Reference Site:	SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)	MD Reference:	KB (23ft) @ 4883.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPINNEY 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #2		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 9,999.98usft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2021-03-18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	22,653.80	PROPOSAL #2 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)						
ABDN DD COLAND #34-10 - Wellbore #1 - Wellbore #1	12,212.52	7,131.91	2,101.14	1,947.08	13.639	CC, ES
ABDN DD COLAND #34-10 - Wellbore #1 - Wellbore #1	12,500.00	7,124.63	2,120.70	1,961.69	13.337	SF
ABDN DD GRAZNAK #36-11 - Wellbore #1 - Wellbore #1	20,178.32	7,253.78	2,139.31	1,761.11	5.657	CC
ABDN DD GRAZNAK #36-11 - Wellbore #1 - Wellbore #1	20,200.00	7,253.59	2,139.42	1,760.79	5.650	ES
ABDN DD GRAZNAK #36-11 - Wellbore #1 - Wellbore #1	20,300.00	7,252.72	2,142.77	1,762.77	5.639	SF
ABDN DD MORNING #39-10 - Wellbore #1 - Wellbore #1	17,430.39	7,256.69	781.69	479.99	2.591	CC, ES, SF
ABDN DD MORNING FRESH #14-10X - Wellbore #1 - W	14,308.07	7,164.68	1,341.03	1,144.60	6.827	CC, ES
ABDN DD MORNING FRESH #14-10X - Wellbore #1 - W	14,400.00	7,161.72	1,344.18	1,146.27	6.792	SF
ABDN DD OLIN STATE L #16-27D - Wellbore #1 - Wellb	10,748.46	7,237.44	2,060.68	1,945.45	17.884	CC
ABDN DD OLIN STATE L #16-27D - Wellbore #1 - Wellb	10,800.00	7,236.64	2,061.32	1,945.01	17.722	ES
ABDN DD OLIN STATE L #16-27D - Wellbore #1 - Wellb	11,100.00	7,231.85	2,094.04	1,972.74	17.262	SF
ABDN DD OLIN STATE L #16-29D - Wellbore #1 - Wellb	0.00	0.00	1,733.66			
ABDN DD OLIN STATE L #16-29D - Wellbore #1 - Wellb	300.00	300.33	1,734.15	1,733.29	2,002.538	ES
ABDN DD OLIN STATE L #16-29D - Wellbore #1 - Wellb	9,200.00	7,306.14	2,270.44	2,198.36	31.499	SF
ABDN DD UPRC #15-4K2 - Wellbore #1 - Wellbore #1	12,873.91	7,831.00	2,994.60	2,834.73	18.732	CC
ABDN DD UPRC #15-4K2 - Wellbore #1 - Wellbore #1	12,900.00	7,831.00	2,994.71	2,834.21	18.659	ES
ABDN DD UPRC #15-4K2 - Wellbore #1 - Wellbore #1	13,500.00	7,831.00	3,059.35	2,887.76	17.830	SF
ABDN VERT BELL #L12-13 - Wellbore #1 - Wellbore #1	22,653.80	7,162.21	1,761.02	1,360.23	4.394	CC, ES, SF
ABDN VERT BRATTAIN #1 - Wellbore #1 - Wellbore #1	22,653.80	7,164.68	1,603.03	1,311.73	5.503	CC, ES, SF
ABDN VERT BRATTAIN #12-12J1 - Wellbore #1 - Wellb	22,653.80	7,171.62	674.87	642.66	20.953	CC, ES, SF
ABDN VERT DEVON #9-8 - Wellbore #1 - Wellbore #1	6,669.02	6,422.76	688.43	659.50	23.794	CC, ES
ABDN VERT DEVON #9-8 - Wellbore #1 - Wellbore #1	6,700.00	6,454.15	689.09	660.12	23.787	SF
ABDN VERT DINNEL #14-1K - Wellbore #1 - Wellbore #	22,058.88	7,107.80	2,652.47	2,239.57	6.424	CC
ABDN VERT DINNEL #14-1K - Wellbore #1 - Wellbore #	22,100.00	7,108.65	2,652.79	2,238.94	6.410	ES
ABDN VERT DINNEL #14-1K - Wellbore #1 - Wellbore #	22,300.00	7,112.63	2,663.41	2,246.58	6.390	SF
ABDN VERT DINNEL #14-2K - Wellbore #1 - Wellbore #	20,625.02	7,163.84	2,764.83	2,391.97	7.415	CC
ABDN VERT DINNEL #14-2K - Wellbore #1 - Wellbore #	20,700.00	7,163.51	2,765.85	2,391.29	7.384	ES
ABDN VERT DINNEL #14-2K - Wellbore #1 - Wellbore #	20,900.00	7,162.62	2,778.47	2,400.93	7.359	SF
ABDN VERT DINNEL L #14-17 - Wellbore #1 - Wellbore	21,464.40	7,244.72	3,478.02	3,081.63	8.774	CC
ABDN VERT DINNEL L #14-17 - Wellbore #1 - Wellbore	21,500.00	7,243.72	3,478.20	3,080.93	8.755	ES
ABDN VERT DINNEL L #14-17 - Wellbore #1 - Wellbore	21,800.00	7,235.46	3,494.16	3,091.29	8.673	SF
ABDN VERT EDITH WEBBER UNIT #1 - Wellbore #1 - D	16,418.06	7,129.33	1,445.10	1,048.75	3.646	CC, ES
ABDN VERT EDITH WEBBER UNIT #1 - Wellbore #1 - D	16,500.00	7,129.00	1,447.42	1,048.78	3.631	SF
ABDN VERT ELMER WEBBER A#1 - Wellbore #1 - We	13,113.04	7,092.76	1,155.67	992.67	7.090	CC, ES
ABDN VERT ELMER WEBBER A#1 - Wellbore #1 - We	13,200.00	7,091.16	1,158.94	994.65	7.054	SF
ABDN VERT GRAZNAK #10-11 - Wellbore #1 - Wellbore	20,527.33	7,125.92	44.04	-216.80	0.169	Level 3, CC, ES, 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 SPINNEY 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB (23ft) @ 4883.00usft
Reference Site:	SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)	MD Reference:	KB (23ft) @ 4883.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPINNEY 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	Offset TVD Reference:	Offset Datum

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)						
ABDN VERT HSR-ALBERTO #8-10X - Wellbore #1 - We	16,637.24	6,400.00	1,374.23	1,150.06	6.130	CC
ABDN VERT HSR-ALBERTO #8-10X - Wellbore #1 - We	16,700.00	6,400.00	1,375.66	1,149.90	6.093	ES
ABDN VERT HSR-ALBERTO #8-10X - Wellbore #1 - We	16,800.00	6,400.00	1,383.84	1,156.69	6.092	SF
ABDN VERT HSR-BOYD #11-10 - Wellbore #1 - Wellbor	13,944.58	7,108.23	33.93	-111.51	0.233	Level 3, CC, ES, SF
ABDN VERT HSR-BRINTON #14-10A - Wellbore #1 - W	14,180.77	7,086.50	1,430.91	1,238.59	7.440	CC
ABDN VERT HSR-BRINTON #14-10A - Wellbore #1 - W	14,200.00	7,085.80	1,431.13	1,238.56	7.432	ES, SF
ABDN VERT HSR-CONOVER #15-10 - Wellbore #1 - W	15,265.22	7,082.25	1,401.11	1,178.27	6.288	CC
ABDN VERT HSR-CONOVER #15-10 - Wellbore #1 - W	15,300.00	7,081.55	1,401.54	1,178.01	6.270	ES
ABDN VERT HSR-CONOVER #15-10 - Wellbore #1 - W	15,400.00	7,079.55	1,407.57	1,182.95	6.266	SF
ABDN VERT HSR-CRONHOLM #10-10A - Wellbore #1 -	15,625.01	7,127.12	188.74	-27.32	0.874	Level 3, CC, ES, SF
ABDN VERT HSR-FAIRFAX #16-8 - Wellbore #1 - Desig	4,342.90	4,208.15	1,662.37	1,555.33	15.531	CC
ABDN VERT HSR-FAIRFAX #16-8 - Wellbore #1 - Desig	4,800.00	4,643.61	1,668.17	1,549.53	14.061	ES
ABDN VERT HSR-FAIRFAX #16-8 - Wellbore #1 - Desig	6,950.00	6,730.42	1,777.20	1,609.61	10.605	SF
ABDN VERT HSR-THOMPSON #9-11 - Wellbore #1 - W	21,924.38	7,151.49	40.72	-242.16	0.144	Level 3, CC, ES, SF
ABDN VERT KEENAN UPRR #31-15 - Wellbore #1 - We	15,569.53	6,972.12	2,998.72	2,767.65	12.978	CC
ABDN VERT KEENAN UPRR #31-15 - Wellbore #1 - We	15,600.00	6,971.91	2,998.87	2,767.05	12.936	ES
ABDN VERT KEENAN UPRR #31-15 - Wellbore #1 - We	16,000.00	6,969.25	3,029.46	2,790.14	12.659	SF
ABDN VERT LUCKY L #09-25 - Wellbore #1 - Wellbore #	1,598.29	1,539.89	257.49	251.24	41.178	CC
ABDN VERT LUCKY L #09-25 - Wellbore #1 - Wellbore #	1,600.00	1,541.51	257.49	251.23	41.109	ES
ABDN VERT LUCKY L #09-25 - Wellbore #1 - Wellbore #	8,500.00	7,111.35	892.13	851.86	22.152	SF
ABDN VERT PLUSS #11-5 - Wellbore #1 - Design #1	18,219.82	7,109.01	1,173.47	727.12	2.629	CC, ES
ABDN VERT PLUSS #11-5 - Wellbore #1 - Design #1	18,300.00	7,108.68	1,176.21	727.88	2.624	SF
ABDN VERT PLUSS L #11-6 - Wellbore #1 - Wellbore #1	19,419.50	6,800.00	1,205.20	877.63	3.679	CC, ES
ABDN VERT PLUSS L #11-6 - Wellbore #1 - Wellbore #1	19,500.00	6,800.00	1,207.89	878.41	3.666	SF
ABDN VERT RAITH L #15-3 - Wellbore #1 - Wellbore #1	13,636.37	7,232.92	3,083.00	2,905.37	17.355	CC
ABDN VERT RAITH L #15-3 - Wellbore #1 - Wellbore #1	13,700.00	7,222.24	3,083.65	2,904.44	17.206	ES
ABDN VERT RAITH L #15-3 - Wellbore #1 - Wellbore #1	14,274.23	7,161.31	3,136.37	2,946.63	16.530	SF
ABDN VERT STATE L #16-3 - Wellbore #1 - Wellbore #1	0.00	0.00	1,775.92			
ABDN VERT STATE L #16-3 - Wellbore #1 - Wellbore #1	300.00	287.17	1,776.58	1,775.76	2,169.148	ES
ABDN VERT STATE L #16-3 - Wellbore #1 - Wellbore #1	10,300.00	7,116.88	3,157.03	3,081.88	42.009	SF
ABDN VERT STATE L #16-4 - Wellbore #1 - Wellbore #1	403.72	411.43	1,705.24	1,704.18	1,609.838	CC, ES
ABDN VERT STATE L #16-4 - Wellbore #1 - Wellbore #1	9,400.00	7,005.95	3,341.18	3,290.81	66.343	SF
ABDN VERT UPRC #15-3K - Wellbore #1 - Wellbore #1	13,888.46	7,200.00	2,578.97	2,393.82	13.930	CC
ABDN VERT UPRC #15-3K - Wellbore #1 - Wellbore #1	13,974.99	7,186.07	2,580.37	2,393.19	13.785	ES
ABDN VERT UPRC #15-3K - Wellbore #1 - Wellbore #1	14,300.00	7,174.71	2,599.94	2,407.17	13.487	SF
ABDN VERT UPRC #9-10K - Wellbore #1 - Wellbore #1	10,243.52	7,085.54	138.00	53.76	1.638	CC, ES, SF
ABDN VERT UPRC #9-14K - Wellbore #1 - Wellbore #1	411.03	381.63	739.09	738.03	699.763	CC, ES
ABDN VERT UPRC #9-14K - Wellbore #1 - Wellbore #1	9,300.00	7,145.77	1,427.84	1,366.65	23.335	SF
ABDN VERT UPRC #9-15K - Wellbore #1 - Wellbore #1	10,259.34	7,109.07	1,418.39	1,333.12	16.636	CC
ABDN VERT UPRC #9-15K - Wellbore #1 - Wellbore #1	10,300.00	7,107.42	1,418.97	1,332.78	16.463	ES
ABDN VERT UPRC #9-15K - Wellbore #1 - Wellbore #1	10,500.00	7,099.48	1,438.63	1,348.90	16.033	SF
ABDN VERT UPRC #9-16K - Wellbore #1 - Wellbore #1	11,459.29	7,133.77	1,464.17	1,346.70	12.464	CC
ABDN VERT UPRC #9-16K - Wellbore #1 - Wellbore #1	11,500.00	7,133.67	1,464.74	1,346.38	12.375	ES
ABDN VERT UPRC #9-16K - Wellbore #1 - Wellbore #1	11,700.00	7,133.12	1,483.83	1,362.50	12.230	SF
ABDN VERT UPRC #9-5K - Wellbore #1 - Wellbore #1	6,750.00	6,471.96	1,334.28	1,300.79	39.841	SF
ABDN VERT UPRC #9-5K - Wellbore #1 - Wellbore #1	7,584.75	7,053.79	1,231.70	1,204.06	44.563	CC, ES
ABDN VERT UPRR 21 PAN AM B #1 - Wellbore #1 - We	1,534.92	1,493.07	698.95	693.03	117.989	CC
ABDN VERT UPRR 21 PAN AM B #1 - Wellbore #1 - We	1,600.00	1,555.81	699.19	692.86	110.353	ES
ABDN VERT UPRR 21 PAN AM B #1 - Wellbore #1 - We	8,200.00	7,128.20	1,612.52	1,576.15	44.343	SF
ABDN VERT UPRR 21 PAN AM C #1 - Wellbore #1 - We	18,388.19	7,122.82	466.37	155.94	1.502	CC, ES, SF
EXIST DD BIRMINGHAM L #09-20D - Wellbore #1 - Wel	8,160.08	7,198.47	316.20	281.42	9.090	CC, ES, SF
EXIST DD BIRMINGHAM L #09-21D - Wellbore #1 - Wel	9,629.07	7,218.02	334.12	265.04	4.836	CC, ES, 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 SPINNEY 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB (23ft) @ 4883.00usft
Reference Site:	SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)	MD Reference:	KB (23ft) @ 4883.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPINNEY 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	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
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)						
EXIST DD COLAND #41-17 - Wellbore #1 - Wellbore #1	497.98	585.29	2,974.07	2,971.88	1,357.776	CC
EXIST DD COLAND #41-17 - Wellbore #1 - Wellbore #1	500.00	587.37	2,974.07	2,971.88	1,352.351	ES
EXIST DD COLAND #41-17 - Wellbore #1 - Wellbore #1	9,700.00	7,235.68	4,481.51	4,406.65	59.871	SF
EXIST DD DEVON #38-8 - Wellbore #1 - Wellbore #1	3,212.97	3,137.52	1,606.94	1,589.91	94.352	CC, ES
EXIST DD DEVON #38-8 - Wellbore #1 - Wellbore #1	6,800.00	6,690.51	2,133.04	2,102.07	68.878	SF
EXIST DD GRAZNAK #32-11 - Wellbore #1 - Wellbore #	17,570.11	7,218.56	269.61	-34.68	0.886	Level 3, CC, ES, SF
EXIST DD GRAZNAK #35-11 - Wellbore #1 - Wellbore #	18,778.52	7,425.61	2,161.55	1,820.62	6.340	CC
EXIST DD GRAZNAK #35-11 - Wellbore #1 - Wellbore #	18,800.00	7,425.63	2,161.66	1,820.09	6.329	ES
EXIST DD GRAZNAK #35-11 - Wellbore #1 - Wellbore #	19,000.00	7,425.77	2,172.87	1,826.95	6.282	SF
EXIST DD GRAZNAK #37-11 - Wellbore #1 - Wellbore #	21,610.37	7,229.29	2,128.47	1,710.90	5.097	CC
EXIST DD GRAZNAK #37-11 - Wellbore #1 - Wellbore #	21,700.00	7,228.76	2,130.35	1,710.86	5.078	ES, SF
EXIST DD GRAZNAK #39-11 - Wellbore #1 - Wellbore #	22,653.80	7,287.03	765.68	324.03	1.734	CC, ES, SF
EXIST DD GRAZNAK #40-11 - Wellbore #1 - Wellbore #	22,653.80	7,271.19	536.74	126.55	1.309	Level 3, CC, ES, SF
EXIST DD MORNING #24-10 - Wellbore #1 - Wellbore #	16,100.18	7,231.33	503.31	241.84	1.925	CC, ES, SF
EXIST DD MORNING #25-10 - Wellbore #1 - Wellbore #	14,870.97	7,253.05	429.49	199.14	1.864	CC, ES, SF
EXIST DD MORNING #37-10 - Wellbore #1 - Wellbore #	16,107.88	7,142.58	2,124.43	1,861.86	8.091	CC
EXIST DD MORNING #37-10 - Wellbore #1 - Wellbore #	16,200.00	7,140.41	2,126.42	1,861.60	8.030	ES
EXIST DD MORNING #37-10 - Wellbore #1 - Wellbore #	16,300.00	7,138.08	2,133.09	1,866.41	7.999	SF
EXIST DD MORNING #41-15 - Wellbore #1 - Wellbore #	17,376.02	7,197.28	3,332.32	3,033.24	11.142	CC
EXIST DD MORNING #41-15 - Wellbore #1 - Wellbore #	17,500.00	7,196.78	3,334.63	3,032.41	11.034	ES
EXIST DD MORNING #41-15 - Wellbore #1 - Wellbore #	17,900.00	7,195.17	3,373.26	3,063.95	10.906	SF
EXIST DD MURRAY #21-14 - Wellbore #1 - Wellbore #1	20,052.32	7,196.96	3,483.90	3,114.24	9.425	CC
EXIST DD MURRAY #21-14 - Wellbore #1 - Wellbore #1	20,100.00	7,196.63	3,484.22	3,113.39	9.396	ES
EXIST DD MURRAY #21-14 - Wellbore #1 - Wellbore #1	20,500.00	7,193.78	3,512.54	3,134.78	9.298	SF
EXIST DD PLUSS L #11-20D - Wellbore #1 - Wellbore #1	18,805.13	7,220.88	529.34	190.90	1.564	CC, ES, SF
EXIST HZ BARCLAY FARMS #28-1HZ - Wellbore #1 - W	9,717.78	18,422.00	2,221.23	2,121.09	22.181	CC
EXIST HZ BARCLAY FARMS #28-1HZ - Wellbore #1 - W	9,900.00	18,422.00	2,228.69	2,113.38	19.328	ES
EXIST HZ BARCLAY FARMS #28-1HZ - Wellbore #1 - W	11,300.00	18,422.00	2,736.27	2,514.59	12.343	SF
EXIST HZ BARCLAY FARMS #28-2HZ - Wellbore #1 - W	10,119.92	18,248.00	2,212.48	2,108.84	21.347	CC
EXIST HZ BARCLAY FARMS #28-2HZ - Wellbore #1 - W	10,300.00	18,248.00	2,219.80	2,101.86	18.821	ES
EXIST HZ BARCLAY FARMS #28-2HZ - Wellbore #1 - W	11,700.00	18,248.00	2,727.94	2,503.07	12.131	SF
EXIST HZ BARCLAY FARMS #28-3HZ - Wellbore #1 - W	10,557.05	18,205.00	2,203.62	2,091.21	19.603	CC
EXIST HZ BARCLAY FARMS #28-3HZ - Wellbore #1 - W	10,700.00	18,205.00	2,208.25	2,086.78	18.179	ES
EXIST HZ BARCLAY FARMS #28-3HZ - Wellbore #1 - W	12,100.00	18,205.00	2,699.33	2,472.64	11.908	SF
EXIST HZ BARCLAY FARMS #28-4HZ - Wellbore #1 - W	10,938.85	18,088.00	2,197.20	2,076.16	18.153	CC
EXIST HZ BARCLAY FARMS #28-4HZ - Wellbore #1 - W	11,000.00	18,088.00	2,198.13	2,074.53	17.784	ES
EXIST HZ BARCLAY FARMS #28-4HZ - Wellbore #1 - W	12,400.00	18,088.00	2,648.08	2,421.62	11.694	SF
EXIST HZ BARCLAY FARMS #28-5HZ - Wellbore #1 - W	11,357.56	18,145.00	2,209.00	2,076.49	16.671	CC
EXIST HZ BARCLAY FARMS #28-5HZ - Wellbore #1 - W	11,400.00	18,145.00	2,209.41	2,075.94	16.554	ES
EXIST HZ BARCLAY FARMS #28-5HZ - Wellbore #1 - W	12,800.00	18,145.00	2,638.24	2,408.92	11.505	SF
EXIST HZ BARCLAY FARMS #28-6HZ - Wellbore #1 - W	11,742.41	18,097.00	2,205.91	2,061.97	15.325	CC, ES
EXIST HZ BARCLAY FARMS #28-6HZ - Wellbore #1 - W	13,200.00	18,097.00	2,643.98	2,409.56	11.279	SF
EXIST HZ BARCLAY FARMS #28-8HZ - Wellbore #1 - W	12,088.18	18,253.00	2,205.48	2,049.09	14.103	CC, ES
EXIST HZ BARCLAY FARMS #28-8HZ - Wellbore #1 - W	13,500.00	18,253.00	2,618.66	2,381.79	11.055	SF
EXIST HZ DCP #16N-17HZ - Wellbore #1 - Wellbore #1	6,548.45	6,308.48	768.53	731.95	21.010	CC
EXIST HZ DCP #16N-17HZ - Wellbore #1 - Wellbore #1	6,562.77	6,322.56	768.56	731.94	20.986	ES
EXIST HZ DCP #16N-17HZ - Wellbore #1 - Wellbore #1	6,700.00	6,461.71	770.06	733.04	20.802	SF
EXIST HZ DCP STATE #38N-17HZ - Wellbore #1 - Wellb	6,527.88	6,319.07	629.61	596.32	18.913	CC
EXIST HZ DCP STATE #38N-17HZ - Wellbore #1 - Wellb	6,662.77	6,461.23	629.99	596.29	18.696	ES
EXIST HZ DCP STATE #38N-17HZ - Wellbore #1 - Wellb	7,150.00	7,260.46	677.62	638.80	17.456	SF
EXIST HZ EISENACH #32N-8HZ - Wellbore #1 - Wellbo	6,551.94	6,338.02	734.98	701.03	21.647	CC
EXIST HZ EISENACH #32N-8HZ - Wellbore #1 - Wellbo	6,562.77	6,348.71	735.00	701.01	21.624	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 SPINNEY 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB (23ft) @ 4883.00usft
Reference Site:	SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)	MD Reference:	KB (23ft) @ 4883.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPINNEY 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	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
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)						
EXIST HZ EISENACH #32N-8HZ - Wellbore #1 - Wellbo	6,700.00	6,485.32	735.94	701.48	21.351	SF
EXIST HZ FERGE #28N-14HZ - Wellbore #1 - Wellbore	19,900.00	12,518.00	2,188.96	1,809.74	5.772	ES, SF
EXIST HZ FERGE #28N-14HZ - Wellbore #1 - Wellbore	19,918.73	12,518.00	2,188.88	1,809.82	5.775	CC
EXIST HZ FERGE #29N-14HZ - Wellbore #1 - Wellbore	18,982.91	12,188.00	2,194.97	1,852.63	6.412	CC
EXIST HZ FERGE #29N-14HZ - Wellbore #1 - Wellbore	19,000.00	12,188.00	2,195.04	1,852.57	6.409	ES
EXIST HZ FERGE #29N-14HZ - Wellbore #1 - Wellbore	19,200.00	12,188.00	2,205.68	1,861.05	6.400	SF
EXIST HZ FERGE #30N-14HZ - Wellbore #1 - Wellbore	17,749.21	12,265.00	2,199.52	1,888.62	7.075	CC
EXIST HZ FERGE #30N-14HZ - Wellbore #1 - Wellbore	17,900.00	12,265.00	2,204.68	1,886.36	6.926	ES
EXIST HZ FERGE #30N-14HZ - Wellbore #1 - Wellbore	18,200.00	12,265.00	2,245.24	1,914.95	6.798	SF
EXIST HZ FERGE #3N-14HZ - Wellbore #1 - Wellbore #	19,481.06	12,273.00	2,192.36	1,831.47	6.075	CC, ES, SF
EXIST HZ FERGE #4C-14HZ - Wellbore #1 - Wellbore #	18,110.88	12,383.00	2,208.16	1,890.78	6.958	CC
EXIST HZ FERGE #4C-14HZ - Wellbore #1 - Wellbore #	18,200.00	12,383.00	2,209.96	1,889.00	6.886	ES
EXIST HZ FERGE #4C-14HZ - Wellbore #1 - Wellbore #	18,500.00	12,383.00	2,242.18	1,910.05	6.751	SF
EXIST HZ MELBA #26N-14HZ - Wellbore #1 - Wellbore #	22,400.00	13,935.00	2,197.87	1,746.43	4.869	ES, SF
EXIST HZ MELBA #26N-14HZ - Wellbore #1 - Wellbore #	22,445.80	13,935.00	2,197.40	1,746.48	4.873	CC
EXIST HZ MELBA #27N-14HZ - Wellbore #1 - Wellbore #	21,388.32	13,782.00	2,204.28	1,794.83	5.383	CC
EXIST HZ MELBA #27N-14HZ - Wellbore #1 - Wellbore #	21,400.00	13,782.00	2,204.31	1,794.74	5.382	ES
EXIST HZ MELBA #27N-14HZ - Wellbore #1 - Wellbore #	21,600.00	13,782.00	2,214.42	1,801.87	5.368	SF
EXIST HZ MELBA #28N-14HZ - Wellbore #1 - Wellbore #	21,800.00	13,742.00	2,199.39	1,773.66	5.166	SF
EXIST HZ MELBA #28N-14HZ - Wellbore #1 - Wellbore #	21,834.37	13,742.00	2,199.12	1,773.54	5.167	CC, ES
EXIST HZ MELBA #2N-14HZ - Wellbore #1 - Wellbore #1	20,471.33	13,769.00	2,185.07	1,799.81	5.672	CC
EXIST HZ MELBA #2N-14HZ - Wellbore #1 - Wellbore #1	20,600.00	13,769.00	2,188.85	1,797.37	5.591	ES
EXIST HZ MELBA #2N-14HZ - Wellbore #1 - Wellbore #1	20,900.00	13,769.00	2,226.72	1,822.67	5.511	SF
EXIST HZ MORNING FRESH #15N-15HZ - Wellbore #1	15,200.26	6,703.00	2,278.73	2,049.03	9.920	CC
EXIST HZ MORNING FRESH #15N-15HZ - Wellbore #1	15,300.00	6,703.00	2,280.91	2,048.97	9.834	ES
EXIST HZ MORNING FRESH #15N-15HZ - Wellbore #1	15,500.00	6,703.00	2,298.36	2,063.32	9.779	SF
EXIST HZ MORNING FRESH #16N-15HZ - Wellbore #1	17,210.42	6,981.00	2,291.50	1,989.33	7.583	CC
EXIST HZ MORNING FRESH #16N-15HZ - Wellbore #1	17,300.00	6,981.00	2,293.25	1,989.31	7.545	ES
EXIST HZ MORNING FRESH #16N-15HZ - Wellbore #1	17,400.00	6,981.00	2,299.33	1,994.02	7.531	SF
EXIST HZ MORNING FRESH #28N-15HZ - Wellbore #1	14,655.26	12,322.00	2,650.37	2,426.10	11.818	CC, ES
EXIST HZ MORNING FRESH #28N-15HZ - Wellbore #1	15,400.00	12,322.00	2,753.01	2,516.20	11.626	SF
EXIST HZ MORNING FRESH #29C-15HZ - Wellbore #1	14,186.99	12,416.00	2,656.66	2,449.32	12.813	CC
EXIST HZ MORNING FRESH #29C-15HZ - Wellbore #1	14,200.00	12,416.00	2,656.73	2,449.04	12.792	ES
EXIST HZ MORNING FRESH #29C-15HZ - Wellbore #1	15,000.00	12,416.00	2,811.54	2,579.00	12.090	SF
EXIST HZ MORNING FRESH #35N-15HZ - Wellbore #1	13,178.40	6,815.73	2,256.94	2,077.80	12.599	CC
EXIST HZ MORNING FRESH #35N-15HZ - Wellbore #1	13,200.00	6,815.68	2,257.04	2,077.41	12.565	ES
EXIST HZ MORNING FRESH #35N-15HZ - Wellbore #1	13,500.00	6,797.00	2,280.06	2,095.62	12.362	SF
EXIST HZ MORNING FRESH #37C-15HZ - Wellbore #1	15,887.53	6,845.00	2,371.95	2,121.08	9.455	CC
EXIST HZ MORNING FRESH #37C-15HZ - Wellbore #1	15,900.00	6,845.00	2,371.98	2,120.82	9.444	ES
EXIST HZ MORNING FRESH #37C-15HZ - Wellbore #1	16,200.00	6,845.00	2,392.44	2,136.31	9.341	SF
EXIST HZ MORNING FRESH #37N-15HZ - Wellbore #1	16,390.55	6,798.00	2,377.42	2,110.15	8.895	CC
EXIST HZ MORNING FRESH #37N-15HZ - Wellbore #1	16,400.00	6,798.00	2,377.44	2,109.94	8.888	ES
EXIST HZ MORNING FRESH #37N-15HZ - Wellbore #1	16,600.00	6,798.00	2,386.63	2,115.49	8.802	SF
EXIST HZ MORNING FRESH #3N-15HZ - Wellbore #1 -	13,477.58	12,318.00	2,649.27	2,459.86	13.987	CC
EXIST HZ MORNING FRESH #3N-15HZ - Wellbore #1 -	13,600.00	12,318.00	2,652.09	2,457.63	13.638	ES
EXIST HZ MORNING FRESH #3N-15HZ - Wellbore #1 -	14,400.00	12,318.00	2,794.20	2,568.47	12.379	SF
EXIST HZ MORNING FRESH STATE #13N-15HZ - Wellb	12,215.93	6,649.23	2,259.38	2,112.55	15.388	CC
EXIST HZ MORNING FRESH STATE #13N-15HZ - Wellb	12,300.00	6,649.23	2,260.95	2,112.14	15.193	ES
EXIST HZ MORNING FRESH STATE #13N-15HZ - Wellb	12,600.00	6,649.20	2,291.79	2,137.56	14.859	SF
EXIST VERT ANDERSON #8-9 - Wellbore #1 - Design #	11,565.42	7,086.86	973.46	712.82	3.735	CC
EXIST VERT ANDERSON #8-9 - Wellbore #1 - Design #	11,600.00	7,086.72	974.07	712.33	3.722	ES, SF
EXIST VERT ANDERSON L #09-24 - Wellbore #1 - Well	9,684.07	7,073.41	831.51	761.92	11.949	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 SPINNEY 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB (23ft) @ 4883.00usft
Reference Site:	SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)	MD Reference:	KB (23ft) @ 4883.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPINNEY 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	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
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)						
EXIST VERT ANDERSON L #09-24 - Wellbore #1 - Well	9,700.00	7,073.02	831.66	761.73	11.893	ES
EXIST VERT ANDERSON L #09-24 - Wellbore #1 - Well	9,800.00	7,070.56	839.54	768.04	11.741	SF
EXIST VERT ANDERSON UPRR #32-9A - Wellbore #1 -	10,132.54	7,081.60	1,347.87	1,126.15	6.079	CC
EXIST VERT ANDERSON UPRR #32-9A - Wellbore #1 -	10,200.00	7,081.33	1,349.56	1,125.93	6.035	ES
EXIST VERT ANDERSON UPRR #32-9A - Wellbore #1 -	10,300.00	7,080.93	1,358.23	1,132.12	6.007	SF
EXIST VERT FOUR RAITH UNIT #1 - Wellbore #1 - Wel	15,699.96	7,109.04	1,143.48	908.54	4.867	CC
EXIST VERT FOUR RAITH UNIT #1 - Wellbore #1 - Wel	15,700.00	7,109.03	1,143.48	908.54	4.867	ES, SF
EXIST VERT GRAZNAK #19-11 - Wellbore #1 - Wellbore	18,812.07	7,133.06	898.18	576.05	2.788	CC, ES, SF
EXIST VERT HATCH #32-11 - Wellbore #1 - Design #1	20,828.06	7,134.42	1,282.36	762.50	2.467	CC, ES
EXIST VERT HATCH #32-11 - Wellbore #1 - Design #1	20,900.00	7,134.12	1,284.38	762.73	2.462	SF
EXIST VERT HATCH-UPRR #42-11 #1 - Wellbore #1 - D	22,211.37	7,150.80	1,051.53	492.50	1.881	CC, ES, SF
EXIST VERT HSR-BONN #16-10A - Wellbore #1 - Wellb	16,870.67	7,306.04	1,582.50	1,315.65	5.930	CC
EXIST VERT HSR-BONN #16-10A - Wellbore #1 - Wellb	16,900.00	7,304.83	1,582.77	1,315.32	5.918	ES
EXIST VERT HSR-BONN #16-10A - Wellbore #1 - Wellb	17,000.00	7,300.69	1,587.77	1,319.09	5.910	SF
EXIST VERT HSR-CAFFERTA #9-10A - Wellbore #1 - W	16,660.74	7,116.97	115.47	-92.75	0.555	Level 3, CC, ES, SF
EXIST VERT HSR-CHADIMA #4-14 - Wellbore #1 - Desi	18,268.73	7,148.81	2,996.71	2,548.16	6.681	CC
EXIST VERT HSR-CHADIMA #4-14 - Wellbore #1 - Desi	18,300.00	7,148.68	2,996.88	2,547.56	6.670	ES
EXIST VERT HSR-CHADIMA #4-14 - Wellbore #1 - Desi	18,600.00	7,147.47	3,014.97	2,560.19	6.630	SF
EXIST VERT HSR-CHRISTY #3-14 - Wellbore #1 - Desig	19,358.66	7,159.38	2,846.96	2,367.62	5.939	CC
EXIST VERT HSR-CHRISTY #3-14 - Wellbore #1 - Desig	19,400.00	7,159.22	2,847.26	2,366.93	5.928	ES
EXIST VERT HSR-CHRISTY #3-14 - Wellbore #1 - Desig	19,600.00	7,158.40	2,857.17	2,373.20	5.904	SF
EXIST VERT HSR-COOPER 12-10A - Wellbore #1 - We	12,767.78	7,083.74	239.80	86.51	1.564	CC, ES, SF
EXIST VERT HSR-HOWARD #15-11A - Wellbore #1 - W	20,904.21	7,144.82	1,626.90	1,246.13	4.273	CC, ES
EXIST VERT HSR-HOWARD #15-11A - Wellbore #1 - W	21,000.00	7,144.17	1,629.72	1,247.73	4.266	SF
EXIST VERT HSR-HUNTER #12-11 - Wellbore #1 - Well	18,154.45	7,121.04	337.72	34.87	1.115	Level 3, CC, ES, SF
EXIST VERT HSR-KILDALL #13-11 - Wellbore #1 - Desi	18,005.27	7,144.88	1,395.73	954.60	3.164	CC, ES
EXIST VERT HSR-KILDALL #13-11 - Wellbore #1 - Desi	18,100.00	7,144.50	1,398.94	956.67	3.163	SF
EXIST VERT HSR-MILLER #7-10 - Wellbore #1 - Design	15,384.05	7,133.53	1,284.18	916.63	3.494	CC
EXIST VERT HSR-MILLER #7-10 - Wellbore #1 - Design	15,400.00	7,133.46	1,284.28	916.20	3.489	ES
EXIST VERT HSR-MILLER #7-10 - Wellbore #1 - Design	15,500.00	7,133.06	1,289.40	918.95	3.481	SF
EXIST VERT HSR-RABIN #16-11A - Wellbore #1 - Wellb	22,056.16	7,141.66	1,517.93	1,104.98	3.676	CC
EXIST VERT HSR-RABIN #16-11A - Wellbore #1 - Wellb	22,100.00	7,141.61	1,518.56	1,104.93	3.671	ES, SF
EXIST VERT HSR-RAGAZZI #10-11 - Wellbore #1 - Wel	21,050.31	7,128.67	548.16	163.58	1.425	Level 3, CC, ES, SF
EXIST VERT HSR-ROSSEN #14-11A - Wellbore #1 - We	19,658.90	7,123.05	1,377.68	1,031.66	3.982	CC
EXIST VERT HSR-ROSSEN #14-11A - Wellbore #1 - We	19,700.00	7,122.76	1,378.29	1,031.63	3.976	ES, SF
EXIST VERT HSR-WALKER #11-11A - Wellbore #1 - We	19,298.52	7,126.64	223.84	-70.09	0.762	Level 3, CC, ES, SF
EXIST VERT LUCKY L #9-23 - Wellbore #1 - Wellbore #	10,806.89	7,088.46	772.69	673.13	7.761	CC, ES
EXIST VERT LUCKY L #9-23 - Wellbore #1 - Wellbore #	10,900.00	7,084.01	778.26	677.63	7.733	SF
EXIST VERT MILE HIGH #24-11 - Wellbore #1 - Design	21,319.97	7,147.42	474.17	-59.18	0.889	Level 3, CC, ES, SF
EXIST VERT MORNING FRESH #11-10 - Wellbore #1 -	14,377.05	7,109.71	380.60	182.60	1.922	CC, ES, SF
EXIST VERT PENTON #23-11 - Wellbore #1 - Wellbore #	19,938.80	7,135.08	634.11	280.54	1.793	CC, ES, SF
EXIST VERT PLUSS L #11-5JI - Wellbore #1 - Wellbore	18,130.33	7,110.63	1,082.49	779.54	3.573	CC, ES
EXIST VERT PLUSS L #11-5JI - Wellbore #1 - Wellbore	18,200.00	7,108.80	1,084.73	780.01	3.560	SF
EXIST VERT PRESLEY #10-5K - Wellbore #1 - Design #	12,893.29	7,096.56	1,237.87	940.40	4.161	CC
EXIST VERT PRESLEY #10-5K - Wellbore #1 - Design #	12,900.00	7,096.53	1,237.89	940.20	4.158	ES
EXIST VERT PRESLEY #10-5K - Wellbore #1 - Design #	13,000.00	7,096.13	1,242.46	942.04	4.136	SF
EXIST VERT PRESLEY #10-6K - Wellbore #1 - Design #	14,080.16	7,111.82	1,150.48	820.63	3.488	CC
EXIST VERT PRESLEY #10-6K - Wellbore #1 - Design #	14,109.65	7,111.70	1,151.08	819.96	3.476	ES
EXIST VERT PRESLEY #10-6K - Wellbore #1 - Design #	14,200.00	7,111.34	1,157.37	823.27	3.464	SF
EXIST VERT UPRC #9-11K - Wellbore #1 - Wellbore #1	8,828.52	7,087.76	173.04	124.80	3.587	CC, ES, SF
EXIST VERT UPRC #9-12K - Wellbore #1 - Wellbore #1	7,441.26	7,029.26	139.54	113.13	5.284	CC
EXIST VERT UPRC #9-12K - Wellbore #1 - Wellbore #1	7,450.00	7,033.43	139.75	112.58	5.142	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 SPINNEY 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB (23ft) @ 4883.00usft
Reference Site:	SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)	MD Reference:	KB (23ft) @ 4883.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	SPINNEY 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #2	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
SW SW SEC. 9 T3N R66W 6th P.M. (SPINNEY)						
EXIST VERT UPRC #9-12K - Wellbore #1 - Wellbore #1	7,500.00	7,055.53	149.11	117.98	4.790	SF
EXIST VERT UPRC #9-6K - Wellbore #1 - Design #1	8,878.50	7,088.64	1,272.53	1,082.60	6.700	CC
EXIST VERT UPRC #9-6K - Wellbore #1 - Design #1	8,900.00	7,088.55	1,272.71	1,082.28	6.683	ES
EXIST VERT UPRC #9-6K - Wellbore #1 - Design #1	9,100.00	7,087.75	1,291.66	1,096.79	6.628	SF
EXIST VERT UPRC #9-9K - Wellbore #1 - Wellbore #1	11,292.54	7,083.89	105.41	-4.94	0.955	Level 3, CC, ES, SF
SARCHET 21-1HZ - Wellbore #1 - Design #1	7,280.18	18,300.53	2,234.86	2,188.99	48.714	CC
SARCHET 21-1HZ - Wellbore #1 - Design #1	7,350.00	18,300.53	2,236.28	2,188.20	46.511	ES
SARCHET 21-1HZ - Wellbore #1 - Design #1	9,400.00	18,300.53	3,141.09	2,958.56	17.209	SF
SARCHET 21-1HZ - Wellbore #1 - Wellbore #1						Out of range
SARCHET 21-2HZ - Wellbore #1 - Design #1	7,661.30	18,360.23	2,226.80	2,180.95	48.566	CC, ES
SARCHET 21-2HZ - Wellbore #1 - Design #1	9,800.00	18,360.23	3,100.64	2,916.98	16.883	SF
SARCHET 21-2HZ - Wellbore #1 - Wellbore #1						Out of range
SARCHET 21-4HZ - Wellbore #1 - Design #1	8,098.14	18,311.04	2,222.94	2,167.72	40.252	CC, ES
SARCHET 21-4HZ - Wellbore #1 - Design #1	10,200.00	18,311.04	3,059.30	2,874.34	16.541	SF
SARCHET 21-4HZ - Wellbore #1 - Wellbore #1						Out of range
SARCHET 21-5HZ - Wellbore #1 - Design #1	8,500.00	18,474.35	2,223.36	2,153.64	31.889	ES
SARCHET 21-5HZ - Wellbore #1 - Design #1	8,524.09	18,474.35	2,223.23	2,153.84	32.040	CC
SARCHET 21-5HZ - Wellbore #1 - Design #1	10,600.00	18,474.35	3,041.73	2,852.50	16.074	SF
SARCHET 21-5HZ - Wellbore #1 - Wellbore #1						Out of range
SARCHET 21-6HZ - Wellbore #1 - Design #1	8,900.00	18,524.43	2,219.89	2,132.00	25.259	ES
SARCHET 21-6HZ - Wellbore #1 - Design #1	8,958.22	18,524.43	2,219.12	2,132.39	25.586	CC
SARCHET 21-6HZ - Wellbore #1 - Design #1	10,981.63	18,524.43	3,003.11	2,812.08	15.721	SF
SARCHET 21-6HZ - Wellbore #1 - Wellbore #1						Out of range
SARCHET 21-7HZ - Wellbore #1 - Design #1	9,300.00	18,599.18	2,218.51	2,115.81	21.603	ES
SARCHET 21-7HZ - Wellbore #1 - Design #1	9,340.30	18,599.18	2,218.15	2,116.35	21.791	CC
SARCHET 21-7HZ - Wellbore #1 - Design #1	11,300.00	18,599.18	2,968.22	2,775.36	15.391	SF
SARCHET 21-7HZ - Wellbore #1 - Wellbore #1						Out of range
SPINNEY 01N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.00	14.98	13.91	13.974	CC
SPINNEY 01N - ORIGINAL WELLBORE - PROPOSAL #	22,653.80	22,804.64	351.64	-198.84	0.639	Level 3, ES, SF
SPINNEY 03N - ORIGINAL WELLBORE - PROPOSAL #	400.00	401.00	15.05	13.52	9.874	CC
SPINNEY 03N - ORIGINAL WELLBORE - PROPOSAL #	22,605.11	22,642.93	355.27	-211.32	0.627	Level 3, ES, SF
SPINNEY 04N - ORIGINAL WELLBORE - PROPOSAL #	400.00	401.00	30.05	28.53	19.720	CC
SPINNEY 04N - ORIGINAL WELLBORE - PROPOSAL #	22,649.98	22,562.54	669.87	-97.53	0.873	Level 3, ES, SF
SPINNEY 05N - ORIGINAL WELLBORE - PROPOSAL #	400.00	401.00	45.07	43.54	29.573	CC, ES
SPINNEY 05N - ORIGINAL WELLBORE - PROPOSAL #	22,653.80	22,613.94	998.46	154.91	1.184	Level 3, SF
SPINNEY 06N - ORIGINAL WELLBORE - PROPOSAL #	400.00	401.00	60.00	58.48	39.372	CC, ES
SPINNEY 06N - ORIGINAL WELLBORE - PROPOSAL #	22,653.80	22,540.10	1,339.80	484.64	1.567	SF
SPINNEY 07N - ORIGINAL WELLBORE - PROPOSAL #	316.33	317.33	74.97	73.82	65.319	CC
SPINNEY 07N - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.99	74.97	73.45	49.204	ES
SPINNEY 07N - ORIGINAL WELLBORE - PROPOSAL #	22,653.80	22,658.27	1,691.84	838.75	1.983	SF
SPINNEY 08N - ORIGINAL WELLBORE - PROPOSAL #	216.33	217.33	90.06	89.36	128.972	CC
SPINNEY 08N - ORIGINAL WELLBORE - PROPOSAL #	300.00	300.98	90.06	88.98	83.838	ES
SPINNEY 08N - ORIGINAL WELLBORE - PROPOSAL #	22,653.80	22,585.34	2,029.68	1,174.43	2.373	SF

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