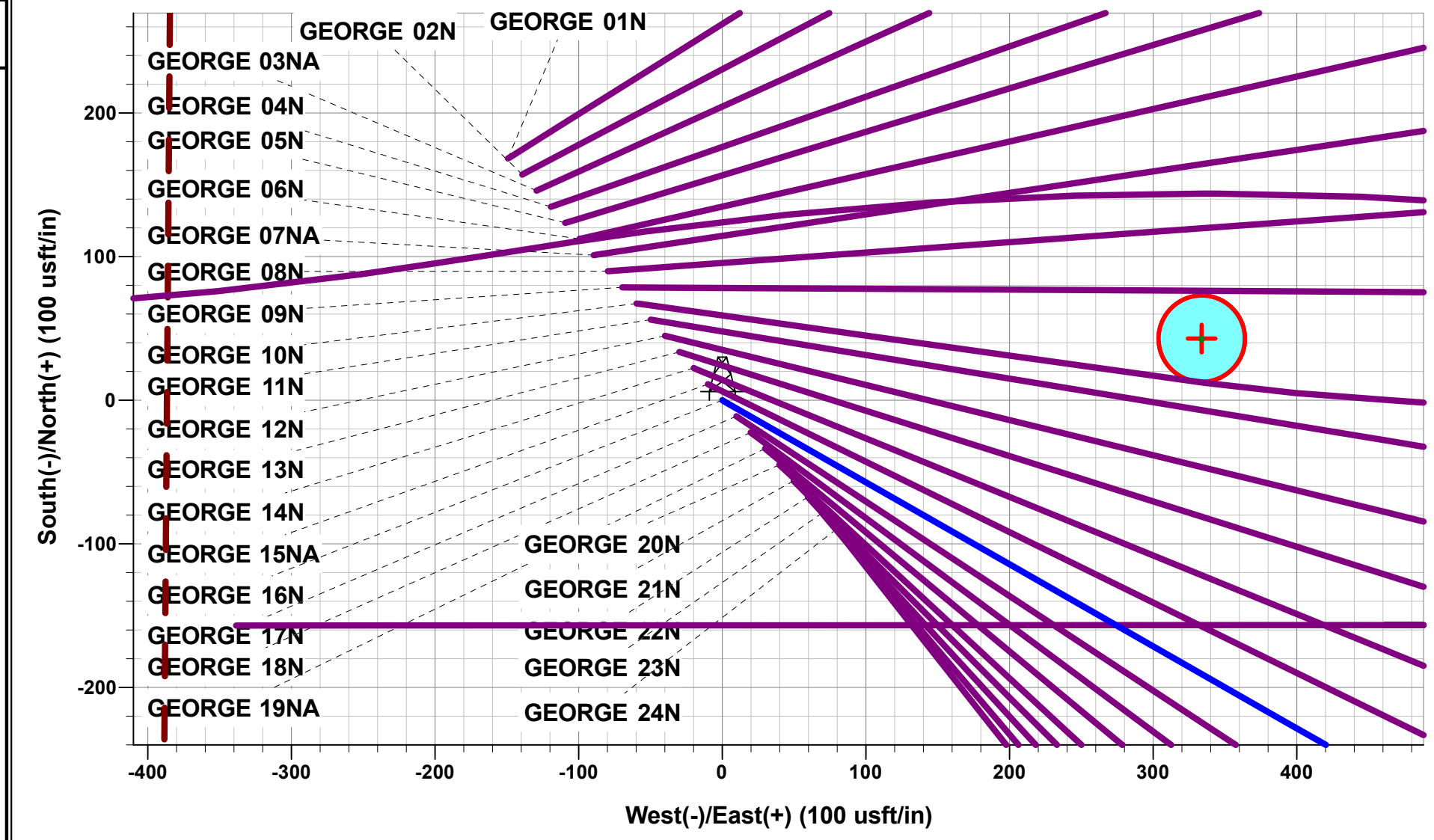




Project: WELD COUNTY, COLORADO (TRUE)
Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
Well: GEORGE 16N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1940ft FNL & 2245ft FEL of Sec 21
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	START NUDGE (4°/100ft BUR)
2027.13	37.09	119.72	1963.73	-143.65	251.59	-221.86	289.71	EOB TO 37.09° INC
5954.91	37.09	119.72	5097.09	-1317.99	2308.41	-2035.64	2658.16	END OF TANGENT
6882.03	0.00	0.00	5960.82	-1461.64	2560.00	-2257.50	2947.88	EOD TO VERTICAL
6982.03	0.00	0.00	6060.82	-1461.64	2560.00	-2257.50	2947.88	KOP (8°/100ft BUR)
7919.53	75.00	269.98	6752.61	-1461.83	2029.17	-1735.19	3478.71	EP *NEW*: 1879.68ft FSL & 200ft FEL of Sec 21
8102.40	89.63	269.98	6777.00	-1461.89	1848.43	-1557.35	3659.45	HZ LANDING POINT
8353.51	89.63	269.98	6778.62	-1461.98	1597.33	-1310.27	3910.55	END OF TANGENT
8457.48	89.63	267.90	6779.29	-1463.91	1493.38	-1207.66	4014.52	EOT TO 267.9° AZ
8557.48	89.63	267.90	6779.94	-1467.57	1393.45	-1108.68	4114.52	END OF TANGENT
8661.48	89.63	269.98	6780.62	-1469.50	1289.48	-1006.04	4218.52	EOT TO 269.98° AZ
12859.89	89.63	269.98	6808.02	-1470.96	-2908.84	3124.93	8416.84	END OF TANGENT
13121.39	89.62	264.75	6809.73	-1482.98	-3169.97	3383.99	8678.33	EOT TO 264.75° AZ
13221.39	89.62	264.75	6810.38	-1492.13	-3269.54	3483.60	8778.32	END OF TANGENT
13482.88	89.63	269.98	6812.10	-1504.15	-3530.67	3742.67	9039.81	EOT TO 269.98° AZ
17412.88	89.63	269.98	6837.78	-1505.52	-7460.58	7609.54	12969.73	END OF TANGENT
17577.38	89.63	273.27	6838.85	-1500.85	-7624.99	7770.46	13134.22	EOT TO 273.27° AZ
18062.11	89.63	273.27	6842.00	-1473.19	-8108.92	8241.65	13618.95	BHL: 1873ft FSL & 200ft FWL of Sec 20



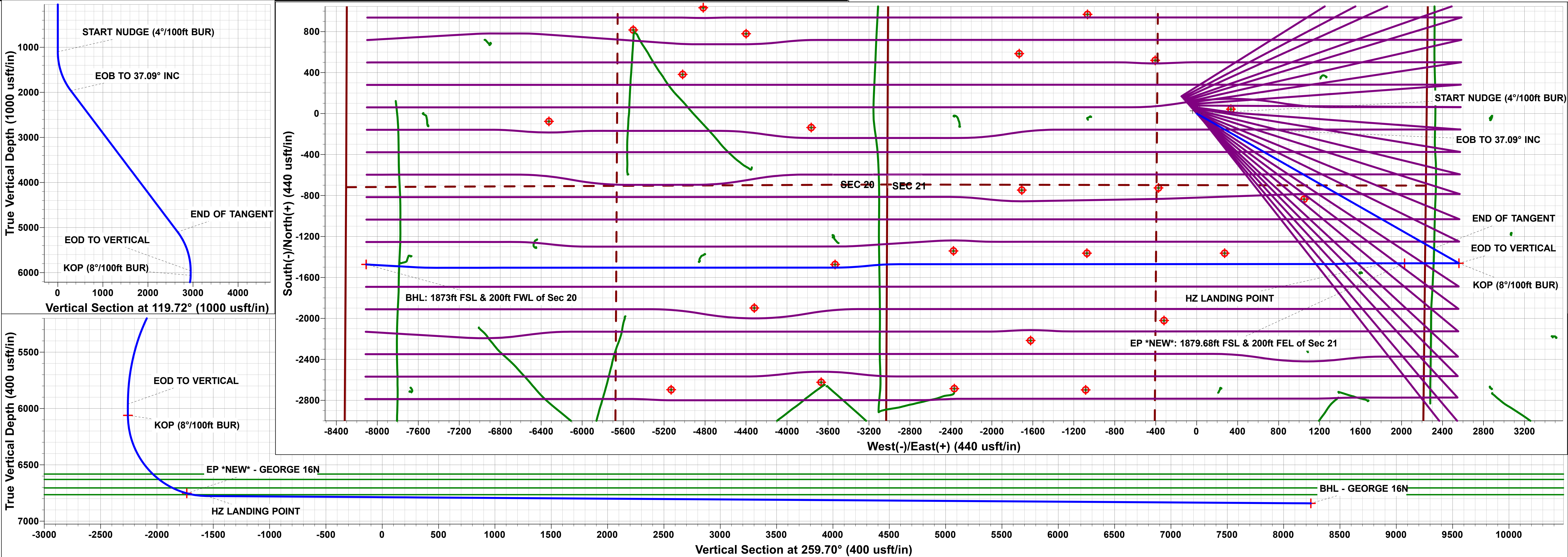
PROPOSED LOCAL COORDINATES:
SHL: 1940ft FNL & 2245ft FEL of Sec 21
EP *NEW*: 1879.68ft FSL & 200ft FEL of Sec 21
BHL: 1873ft FSL & 200ft FWL of Sec 20

Azimuths to True North
Magnetic North: 7.73°

Magnetic Field
Strength: 51929.3nT
Dip Angle: 66.61°
Date: 2021-05-28
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - GEORGE 16N	6842.00	-1473.19	-8108.92	1351920.46	3255663.07	40.295795	-104.583426
EP *NEW* - GEORGE 16N	6752.61	-1461.83	2029.17	1352039.92	3265800.03	40.295829	-104.547083
KOP - GEORGE 16N	6060.82	-1461.64	2560.00	1352045.77	3266330.80	40.295830	-104.545180



PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
GEORGE 16N**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 May, 2021

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 16N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4742.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4742.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 16N	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 #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 100.00usft	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	2021-05-29		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,062.11	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						
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,532.72	7,024.76	475.41	229.95	1.937	CC, ES, SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,873.47	5,983.31	2,973.85	2,938.51	84.156	CC, ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	7,100.00	6,216.99	2,982.66	2,946.80	83.178	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,880.33	5,985.43	2,005.59	1,964.87	49.252	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,983.76	6,093.28	2,005.61	1,964.84	49.184	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	7,000.00	6,109.67	2,005.70	1,964.92	49.183	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,632.95	6,968.78	1,796.18	1,645.58	11.927	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,800.00	6,965.21	1,803.93	1,651.17	11.809	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,050.00	6,764.27	1,362.62	1,285.40	17.645	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,277.41	6,772.28	1,343.56	1,269.10	18.044	CC, ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,751.79	6,825.65	130.56	-67.84	0.658	Level 3, CC, ES, SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,482.88	6,805.10	30.71	-275.91	0.100	Level 3, CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,482.88	6,805.10	30.71	-275.92	0.100	Level 3, ES, SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,564.86	6,887.91	1,176.75	891.39	4.124	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,600.00	6,888.36	1,177.40	890.74	4.107	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,700.00	6,889.63	1,185.04	896.46	4.107	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	18,062.11	6,977.19	2,876.29	2,591.67	10.105	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	1,100.00	1,076.00	658.83	635.22	27.902	CC, ES
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,700.00	6,769.92	2,019.11	1,779.34	8.421	SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	1,100.00	1,088.00	1,828.69	1,804.81	76.566	CC
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,700.00	6,788.45	2,055.32	1,791.94	7.804	ES
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	12,000.00	6,790.40	2,079.55	1,808.60	7.675	SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,029.87	6,811.07	2,531.61	2,284.27	10.235	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,100.00	6,811.53	2,532.58	2,283.95	10.186	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,400.00	6,813.49	2,558.53	2,305.10	10.096	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,393.25	6,834.99	275.01	21.87	1.086	Level 3, CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,400.00	6,835.03	275.09	21.72	1.086	Level 3, ES, SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,999.59	6,891.08	2,018.34	1,611.81	4.965	CC
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,000.00	6,891.08	2,018.34	1,611.80	4.965	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,100.00	6,891.73	2,020.84	1,612.05	4.943	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,737.98	6,739.04	1,252.37	1,168.90	15.003	CC, ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,800.00	6,740.50	1,253.91	1,170.24	14.987	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,035.77	6,812.11	1,227.40	980.00	4.961	CC, ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,100.00	6,812.53	1,229.08	981.00	4.954	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	1,030.81			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,300.00	6,796.08	1,447.32	1,328.12	12.142	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 GEORGE 16N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4742.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4742.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 16N	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 #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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,275.26	6,842.34	2,758.34	2,372.59	7.151	CC
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,300.00	6,842.51	2,758.45	2,372.01	7.138	ES
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,600.00	6,844.47	2,777.39	2,384.26	7.065	SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,590.95	6,874.04	1,505.05	1,218.90	5.260	CC
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,600.00	6,874.00	1,505.08	1,218.79	5.257	ES, SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,608.46	6,713.48	2,838.75	2,660.24	15.903	CC
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,700.00	6,713.78	2,840.22	2,659.19	15.689	ES
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	14,200.00	6,715.45	2,899.73	2,708.56	15.169	SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,970.37	6,816.82	1,886.89	1,537.16	5.395	CC
ABDN VERT TODD #2 - Wellbore #1 - Design #1	15,000.00	6,817.01	1,887.13	1,536.54	5.383	ES
ABDN VERT TODD #2 - Wellbore #1 - Design #1	15,100.00	6,817.66	1,891.34	1,538.32	5.358	SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,600.81	6,903.00	2,510.77	2,087.81	5.936	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,700.00	6,903.65	2,512.73	2,086.64	5.897	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,900.00	6,904.95	2,528.54	2,097.68	5.869	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	18,062.11	6,896.41	886.88	829.86	15.554	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,512.32	4,554.00	3,431.38	3,157.63	12.535	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,577.38	4,554.00	3,432.54	3,157.29	12.471	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	18,062.11	4,554.00	3,483.61	3,198.66	12.226	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellbore #1	16,961.40	7,125.85	586.53	294.48	2.008	CC, ES, SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,270.56	6,818.29	1,921.94	1,814.85	17.946	CC
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,300.00	6,818.23	1,922.16	1,814.68	17.883	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,600.00	6,817.63	1,949.97	1,839.24	17.610	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	13,007.76	6,961.32	1,772.62	1,594.71	9.964	CC
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	13,100.00	6,962.73	1,773.53	1,594.69	9.917	ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	13,121.39	6,963.05	1,774.00	1,595.00	9.911	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,301.63	6,952.09	1,697.73	1,483.82	7.937	CC, ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,500.00	6,951.88	1,709.28	1,491.40	7.845	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,504.27	7,049.67	909.58	665.29	3.723	CC, ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,600.00	7,049.18	914.61	668.78	3.721	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,297.67	7,099.61	965.96	745.28	4.377	CC
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,300.00	7,099.59	965.96	745.16	4.375	ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,400.00	7,098.77	971.36	746.39	4.318	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	9,070.02	6,867.35	1,952.92	1,865.82	22.420	CC, ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	9,300.00	6,868.48	1,966.42	1,877.88	22.209	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	13,049.39	7,975.20	104.02	38.43	1.586	CC, ES, SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,700.00	8,558.72	362.44	260.98	3.572	SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,741.38	8,559.55	360.08	259.86	3.593	CC, ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,662.76	6,899.32	1,591.86	1,291.56	5.301	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,700.00	6,899.38	1,592.30	1,290.66	5.279	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,800.00	6,899.52	1,597.77	1,293.49	5.251	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,154.39	10,884.00	2,390.41	2,212.76	13.456	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,221.39	10,884.00	2,391.35	2,212.00	13.333	ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,800.00	10,884.00	2,515.05	2,318.96	12.826	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,276.06	6,853.35	1,428.62	1,042.65	3.701	CC
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,300.00	6,853.51	1,428.83	1,042.18	3.695	ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,400.00	6,854.16	1,433.99	1,045.42	3.690	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,737.49	6,884.89	2,676.81	2,250.44	6.278	CC
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,800.00	6,885.30	2,677.53	2,249.88	6.261	ES
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,900.00	6,885.95	2,681.73	2,252.39	6.246	SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,619.03	6,828.99	1,119.33	805.69	3.569	CC, ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,700.00	6,829.52	1,122.26	807.47	3.565	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,271.43	6,825.25	394.03	63.09	1.191	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 GEORGE 16N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4742.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4742.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 16N	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 #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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,083.65	6,847.56	1,191.42	838.16	3.373	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,100.00	6,847.66	1,191.53	837.91	3.370	ES, SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,502.11	6,815.41	302.91	127.58	1.728	CC, ES, SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,982.03	5,999.82	1,493.81	1,311.09	8.176	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,000.00	6,017.79	1,493.98	1,310.91	8.160	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,100.00	6,117.25	1,501.43	1,316.47	8.118	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,982.03	5,981.82	1,649.31	1,490.37	10.377	CC
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,000.00	5,999.79	1,649.54	1,490.22	10.354	ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,150.00	6,148.25	1,668.91	1,506.59	10.282	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,881.03	5,886.93	579.60	520.83	9.863	CC
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,900.00	5,905.95	579.60	520.83	9.862	ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,982.03	5,987.21	579.68	520.86	9.856	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,982.03	5,974.82	3,224.08	3,037.49	17.279	CC
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,000.00	5,992.79	3,224.19	3,037.24	17.246	ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,350.00	6,326.81	3,273.28	3,080.16	16.949	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,518.09	6,838.33	2,348.54	2,037.39	7.548	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,600.00	6,838.86	2,349.97	2,036.96	7.508	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,800.00	6,840.17	2,365.40	2,048.77	7.471	SF
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	6,982.03	5,993.82	2,037.60	1,894.89	14.278	CC
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	7,000.00	6,011.79	2,037.78	1,894.70	14.242	ES
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	7,200.00	6,208.44	2,064.01	1,917.16	14.056	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	3,743.87	3,296.25	206.35	109.73	2.136	CC, ES, SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,367.64	6,847.21	2,657.23	2,511.54	18.239	CC
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,400.00	6,847.46	2,657.42	2,511.03	18.152	ES
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	13,000.00	6,851.77	2,728.09	2,572.21	17.502	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,658.46	6,803.18	723.34	460.86	2.756	CC
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,700.00	6,803.45	724.53	460.51	2.744	ES, SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,324.24	6,788.47	743.58	513.20	3.228	CC, ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,400.00	6,788.96	747.43	514.07	3.203	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	10,270.31	6,789.12	550.45	321.34	2.403	CC, ES, SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,936.01	5,949.07	1,243.15	1,192.05	24.327	CC, ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,982.03	5,991.72	1,243.21	1,192.08	24.312	SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,982.03	5,992.82	2,151.64	1,964.84	11.519	CC
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,000.00	6,010.79	2,151.77	1,964.60	11.497	ES
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,200.00	6,207.44	2,170.50	1,979.64	11.372	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,864.48	5,859.80	1,162.29	1,137.85	47.568	CC, ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	7,000.00	6,001.05	1,163.64	1,139.14	47.486	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,471.75	6,467.26	2,059.63	1,872.14	10.985	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,500.00	6,488.80	2,059.71	1,872.10	10.979	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,550.00	6,525.10	2,060.30	1,872.54	10.973	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,982.03	5,999.82	3,035.02	2,879.10	19.465	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,000.00	6,017.79	3,035.14	2,878.85	19.420	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,300.00	6,307.44	3,073.21	2,912.28	19.096	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,626.93	6,846.03	105.54	-109.68	0.490	Level 3, CC, ES, SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,814.85	6,864.34	1,686.46	1,313.10	4.517	CC, ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,900.00	6,864.89	1,688.60	1,313.45	4.501	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,964.40	6,869.78	2,459.27	2,108.65	7.014	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,000.00	6,870.01	2,459.52	2,108.04	6.997	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,200.00	6,871.32	2,470.52	2,114.97	6.948	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	4,982.84	4,247.84	2,440.61	2,391.51	49.711	CC
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	5,100.00	4,327.94	2,442.00	2,391.29	48.158	ES
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	7,050.00	6,071.96	2,584.03	2,519.40	39.982	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 GEORGE 16N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4742.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4742.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 16N	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 #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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,572.87	6,827.62	745.21	484.38	2.857	CC, ES, SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,317.91	6,830.48	1,214.84	935.07	4.342	CC, ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,400.00	6,831.01	1,217.61	936.74	4.335	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,325.69	6,806.53	129.45	-147.37	0.468	Level 3, CC, ES, SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	6,982.03	6,005.82	2,745.74	2,568.02	15.450	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,200.00	6,220.44	2,747.36	2,565.95	15.144	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,500.00	6,479.80	2,759.36	2,575.14	14.979	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,261.70	6,781.86	1,343.08	1,199.92	9.381	CC
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,300.00	6,782.10	1,343.63	1,199.26	9.307	ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,500.00	6,783.33	1,364.06	1,215.45	9.179	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,022.98	6,817.03	107.04	-135.90	0.441	Level 3, CC, ES, SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,991.64	1,908.16	202.82	157.81	4.506	CC
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,000.00	1,914.94	202.88	157.64	4.485	ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,027.13	1,936.73	203.91	157.93	4.435	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,678.41	6,768.26	106.55	-103.46	0.507	Level 3, CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,700.00	6,768.40	108.72	-108.82	0.500	Level 3, ES, SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,800.00	6,750.06	853.20	783.82	12.298	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,872.10	6,750.02	850.15	781.76	12.431	CC, ES
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,350.92	6,796.77	2,283.65	1,951.02	6.865	CC
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,400.00	6,797.09	2,284.18	1,950.15	6.838	ES
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,600.00	6,798.40	2,297.20	1,958.54	6.783	SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,452.68	6,829.97	2,320.69	1,957.65	6.392	CC
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,500.00	6,830.28	2,321.17	1,956.81	6.371	ES
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,700.00	6,831.58	2,333.83	1,965.04	6.328	SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,720.15	4,834.92	1,408.23	1,348.67	23.643	CC
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,800.00	4,896.49	1,409.10	1,348.47	23.242	ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	7,150.00	6,200.00	1,442.49	1,376.94	22.003	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,531.83	6,730.78	2,667.13	2,470.41	13.558	CC, ES, SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,704.41	6,772.43	2,534.65	2,317.48	11.672	CC, ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	10,000.00	6,774.35	2,551.83	2,331.16	11.564	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #	18,062.11	6,908.00	1,570.68	1,170.34	3.923	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,846.61	6,840.76	2,184.29	1,918.58	8.221	CC
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,900.00	6,840.22	2,184.94	1,917.79	8.179	ES
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	17,100.00	6,838.13	2,198.93	1,927.98	8.116	SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,300.00	6,899.14	115.19	46.06	1.666	SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,353.51	6,899.43	100.08	42.42	1.736	ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,357.27	6,899.45	100.01	43.96	1.784	CC
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,769.18	6,812.50	2,537.80	2,193.60	7.373	CC
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,800.00	6,812.70	2,537.98	2,192.92	7.355	ES
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	15,100.00	6,814.66	2,559.27	2,207.43	7.274	SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,715.42	6,803.62	1,367.46	1,051.71	4.331	CC, ES
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,800.00	6,804.17	1,370.08	1,052.04	4.308	SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,046.28	2,718.68	939.89	917.85	42.637	CC
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,100.00	2,762.73	940.44	917.67	41.289	ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	9,400.00	6,708.27	1,932.46	1,851.98	24.011	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	18,062.11	6,921.00	1,474.40	1,099.69	3.935	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	675.55	675.97	221.91	219.00	76.286	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	700.00	700.00	221.97	218.92	72.804	ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,121.45	3,286.48	2,695.07	5.557	SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	835.84	837.66	203.94	200.24	55.057	CC, ES
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,000.00	3,067.53	2,475.68	5.183	SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	967.45	970.18	186.28	181.95	43.055	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 GEORGE 16N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4742.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4742.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 16N	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 #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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	1,000.00	1,001.62	186.46	181.93	41.173	ES
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	18,062.11	17,952.53	2,850.36	2,258.62	4.817	SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	1,102.99	1,108.23	166.54	161.55	33.425	CC, ES
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,988.98	2,551.55	1,958.58	4.303	SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	1,145.94	1,153.02	151.34	146.29	29.992	CC, ES
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,909.84	2,410.92	1,817.40	4.062	SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	1,187.09	1,196.84	137.49	132.37	26.835	CC
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,209.80	137.55	132.35	26.478	ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,950.05	2,190.96	1,596.83	3.688	SF
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	1,208.86	1,218.69	126.46	121.31	24.566	CC, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	18,062.11	17,841.50	1,975.50	1,381.47	3.326	SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	1,188.60	1,195.58	116.95	111.92	23.237	CC
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,207.36	116.97	111.89	23.021	ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,878.45	1,754.16	1,159.18	2.948	SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,101.00	104.99	100.32	22.480	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,050.99	1,533.67	934.85	2.561	SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,101.00	89.99	85.32	19.268	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,973.12	1,316.44	719.23	2.204	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	0.00	1.00	74.99			
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,101.00	74.99	70.32	16.057	ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,000.53	1,095.48	497.40	1.832	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,101.00	59.99	55.32	12.844	CC, ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,953.18	879.18	286.61	1.484	Level 3, SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,101.00	44.99	40.32	9.632	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,999.44	657.29	60.57	1.102	Level 3, SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,101.00	29.96	25.29	6.414	CC
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	17,957.14	441.04	-85.63	0.837	Level 3, ES, SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	1,100.00	1,100.00	15.00	10.33	3.214	CC
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	18,062.11	17,951.74	249.81	-60.26	0.806	Level 3, ES, SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,000.00	14.96	10.74	3.545	CC
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,500.00	17,479.02	200.57	-134.43	0.599	Level 3, SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,040.25	230.01	-147.89	0.609	Level 3, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	900.00	900.00	29.97	26.20	7.950	CC
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,500.00	17,580.00	406.97	-138.49	0.746	Level 3, SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,577.38	17,657.30	410.37	-138.96	0.747	Level 3, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	800.00	799.00	44.97	41.65	13.555	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	18,062.11	18,103.37	667.27	104.76	1.186	Level 3, SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	700.00	699.00	60.00	57.13	20.920	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,252.16	876.38	283.69	1.479	Level 3, SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	599.00	74.95	72.54	30.993	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,245.08	1,097.70	507.06	1.858	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	498.00	89.99	88.03	45.758	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,301.66	1,316.69	725.47	2.227	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	398.00	104.95	103.43	69.174	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,428.23	1,533.65	942.24	2.593	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	297.00	119.93	118.87	112.572	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	18,062.11	18,461.22	1,754.34	1,164.45	2.974	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 GEORGE 16N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4742.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4742.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 16N	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 #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
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	1,106.18	1,072.87	2,476.43	2,473.48	839.958	CC, ES
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	12,700.00	6,732.53	2,771.68	2,619.69	18.236	SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	1,100.00	1,087.00	1,440.35	1,416.47	60.332	CC, ES
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	11,500.00	6,786.14	2,486.06	2,227.72	9.623	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,850.00	18,757.30	3,735.28	3,373.85	10.335	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,900.00	18,735.17	3,734.98	3,373.71	10.338	ES
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	8,354.50	18,283.35	3,734.63	3,383.17	10.626	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	7,871.63	18,931.07	3,591.44	3,227.35	9.864	SF
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	18,062.11	8,748.48	3,520.41	3,177.07	10.254	CC, ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	100.00	57.70	2,049.87	2,049.72	10,000.000	CC
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	200.00	153.86	2,050.08	2,049.59	4,221.404	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	9,300.00	6,837.19	3,658.57	3,566.53	39.750	SF
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,659.86	9,866.89	87.51	40.10	1.846	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,700.00	9,868.41	97.28	33.80	1.532	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,750.00	9,870.45	129.44	43.69	1.510	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	1,100.00	1,069.00	1,260.53	1,237.09	53.775	CC
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	1,200.00	1,168.92	1,261.53	1,235.87	49.165	ES
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	10,300.00	6,760.31	2,771.46	2,540.62	12.006	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	1,215.63	1,163.50	2,388.49	2,385.20	726.098	CC, ES
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	10,700.00	6,730.75	3,938.30	3,837.25	38.973	SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	2,878.17	2,604.28	1,869.04	1,849.16	94.010	CC
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	2,900.00	2,619.70	1,869.09	1,848.91	92.622	ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	9,600.00	6,714.53	2,925.58	2,842.65	35.280	SF

Offset Design: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE) - ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #1												Offset Site Error: 0.00 usft		
Survey Program: 378-MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 0.00 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	36.82	36.82	0.00	0.04	-118.29	-3,184.12	-5,914.99	6,717.57					
100.00	100.00	136.34	136.34	0.09	0.15	-118.29	-3,184.16	-5,914.98	6,717.58	6,717.34	0.24	N/A		
200.00	200.00	1,503.00	1,483.39	0.31	4.30	-117.20	-3,012.90	-5,863.71	6,709.26	6,705.00	4.26	1,575.576		
300.00	300.00	1,589.00	1,566.12	0.54	4.72	-117.04	-2,990.16	-5,857.82	6,690.73	6,685.98	4.75	1,407.117		
400.00	400.00	1,662.00	1,636.46	0.76	5.05	-116.91	-2,971.24	-5,852.94	6,672.62	6,667.41	5.21	1,280.628		
500.00	500.00	1,786.24	1,756.26	0.99	5.64	-116.70	-2,939.61	-5,843.90	6,654.25	6,648.35	5.90	1,128.257		
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-116.60	-2,924.52	-5,839.95	6,636.31	6,629.96	6.34	1,046.135		
700.00	700.00	1,907.48	1,873.19	1.44	6.22	-116.49	-2,908.54	-5,836.09	6,618.95	6,612.14	6.81	972.401		
800.00	800.00	2,071.46	2,031.63	1.66	7.01	-116.21	-2,867.82	-5,824.74	6,601.44	6,593.77	7.67	860.302		
900.00	900.00	2,222.90	2,177.71	1.88	7.77	-115.96	-2,829.79	-5,812.59	6,582.80	6,574.29	8.51	773.153		
1,000.00	1,000.00	2,323.02	2,273.95	2.11	8.30	-115.78	-2,803.35	-5,804.78	6,563.86	6,554.70	9.16	716.405		
1,100.00	1,100.00	2,405.97	2,353.74	2.33	8.72	-115.63	-2,781.58	-5,798.40	6,545.15	6,535.42	9.74	672.250		
1,200.00	1,199.92	2,500.97	2,445.03	2.54	9.21	125.40	-2,756.25	-5,791.44	6,528.61	6,518.27	10.34	631.226		
1,300.00	1,299.35	2,667.36	2,604.64	2.74	10.10	126.26	-2,711.20	-5,778.02	6,515.16	6,503.90	11.26	578.472		
1,400.00	1,397.81	2,783.01	2,715.24	2.99	10.74	126.93	-2,678.59	-5,769.04	6,505.97	6,493.95	12.03	540.979		
1,500.00	1,494.82	2,858.47	2,787.31	3.31	11.15	127.37	-2,657.03	-5,763.11	6,500.91	6,488.24	12.67	513.001		
1,559.25	1,551.42	2,911.90	2,838.40	3.56	11.45	127.60	-2,641.95	-5,758.92	6,500.13	6,486.98	13.14	494.612		
1,600.00	1,589.91	2,951.00	2,875.76	3.74	11.66	127.76	-2,630.84	-5,755.86	6,500.50	6,487.02	13.48	482.222		
1,700.00	1,682.61	2,985.84	2,909.07	4.31	11.85	127.77	-2,620.97	-5,753.22	6,504.98	6,490.84	14.14	460.009		
1,800.00	1,772.47	3,042.00	2,962.93	5.05	12.15	127.74	-2,605.50	-5,749.53	6,515.02	6,500.00	15.02	433.770		

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