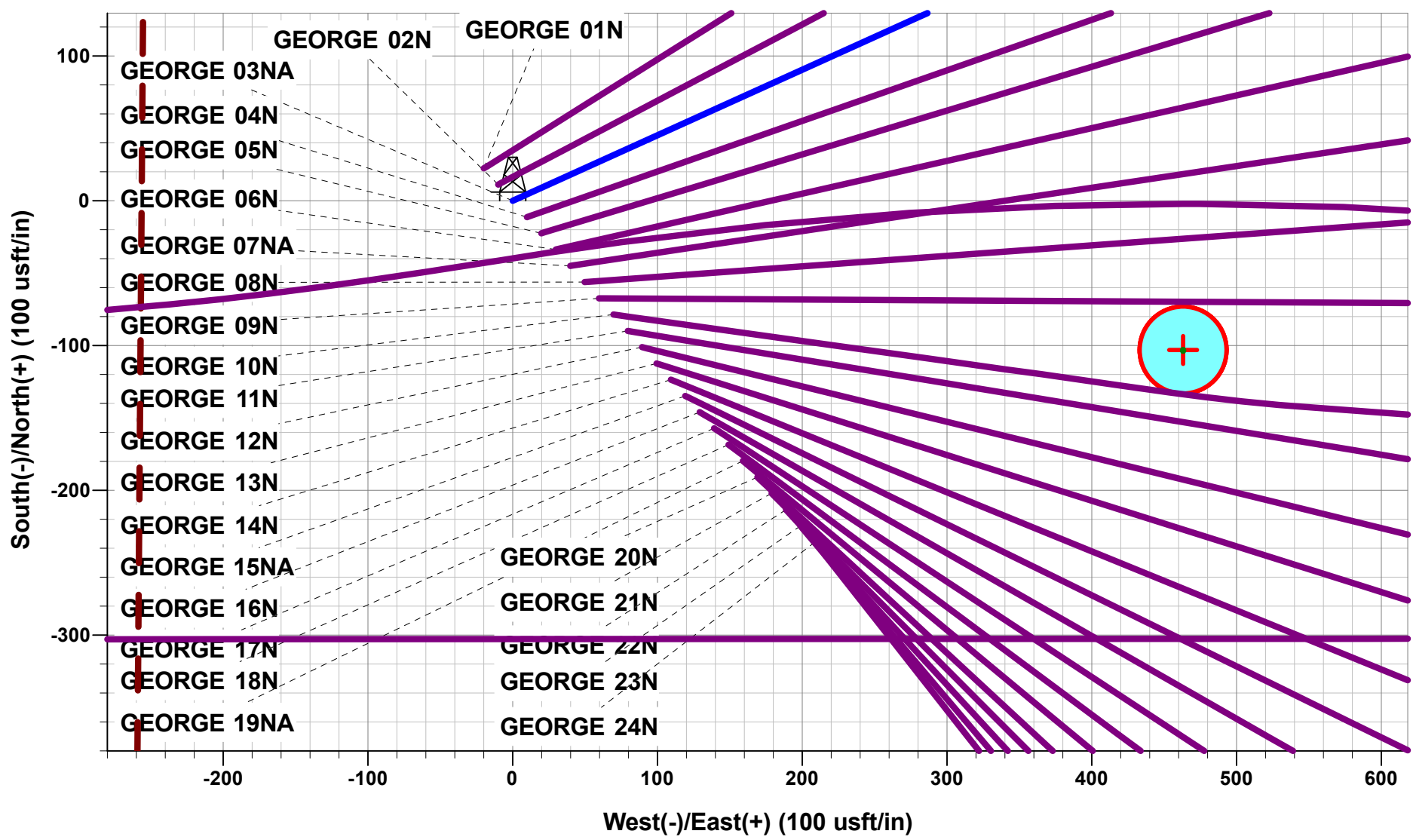




Project: WELD COUNTY, COLORADO (TRUE)  
Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
Well: GEORGE 03NA  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

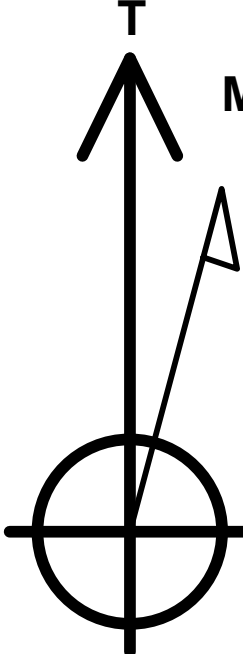
ANNOTATIONS

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: 1794ft FNL & 2376ft FEL of Sec 21
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	START NUDGE (3°/100ft BUR)
1700.27	36.01	65.65	1622.80	150.43	332.46	-305.64	364.91	EOB TO 36.01° INC
5536.44	36.01	65.65	4726.02	1080.17	2387.18	-2194.60	2620.19	END OF TANGENT
6736.71	0.00	0.00	5848.82	1230.60	2719.64	-2500.24	2985.10	EOD TO VERTICAL
6836.71	0.00	0.00	5948.82	1230.60	2719.64	-2500.24	2985.10	KOP (8°/100ft BUR)
7774.20	75.00	269.99	6640.61	1230.51	2188.81	-1975.63	3515.93	EP: 558ft FNL & 200ft FEL of Sec 21
7957.08	89.63	269.99	6665.00	1230.48	2008.07	-1797.01	3696.67	HZ LANDING POINT
11675.38	89.63	269.99	6689.01	1229.84	-1710.15	1877.66	7414.89	END OF TANGENT
12255.86	89.63	281.60	6692.78	1288.35	-2286.66	2456.35	7995.36	EOT TO 281.6° AZ
12355.86	89.63	281.60	6693.43	1308.46	-2384.62	2556.22	8095.35	END OF TANGENT
12936.34	89.63	269.99	6697.23	1366.97	-2961.14	3134.92	8675.83	EOT TO 269.99° AZ
13516.33	89.63	258.39	6701.00	1308.36	-3537.15	3695.27	9255.80	EOT TO 258.39° AZ
13616.33	89.63	258.39	6701.64	1288.24	-3635.10	3789.01	9355.80	END OF TANGENT
14196.32	89.63	269.99	6705.40	1229.63	-4211.11	4349.35	9935.78	EOT TO 269.99° AZ
17952.53	89.62	269.99	6730.00	1229.00	-7967.24	8061.48	13691.91	BHL: 558ft FNL & 200ft FWL of Sec 20



PROPOSED LOCAL COORDINATES:

SHL: 1794ft FNL & 2376ft FEL of Sec 21  
EP: 558ft FNL & 200ft FEL of Sec 21  
BHL: 558ft FNL & 200ft FWL of Sec 20

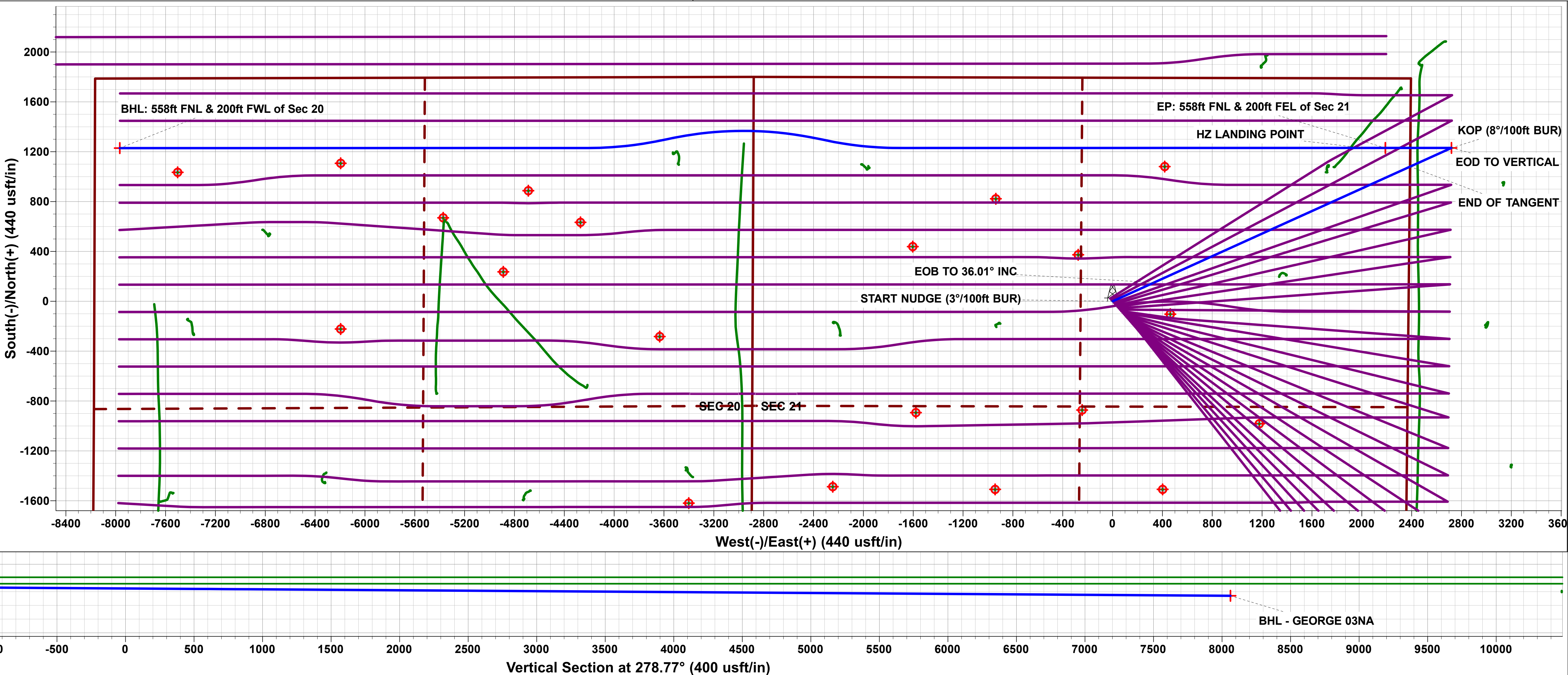
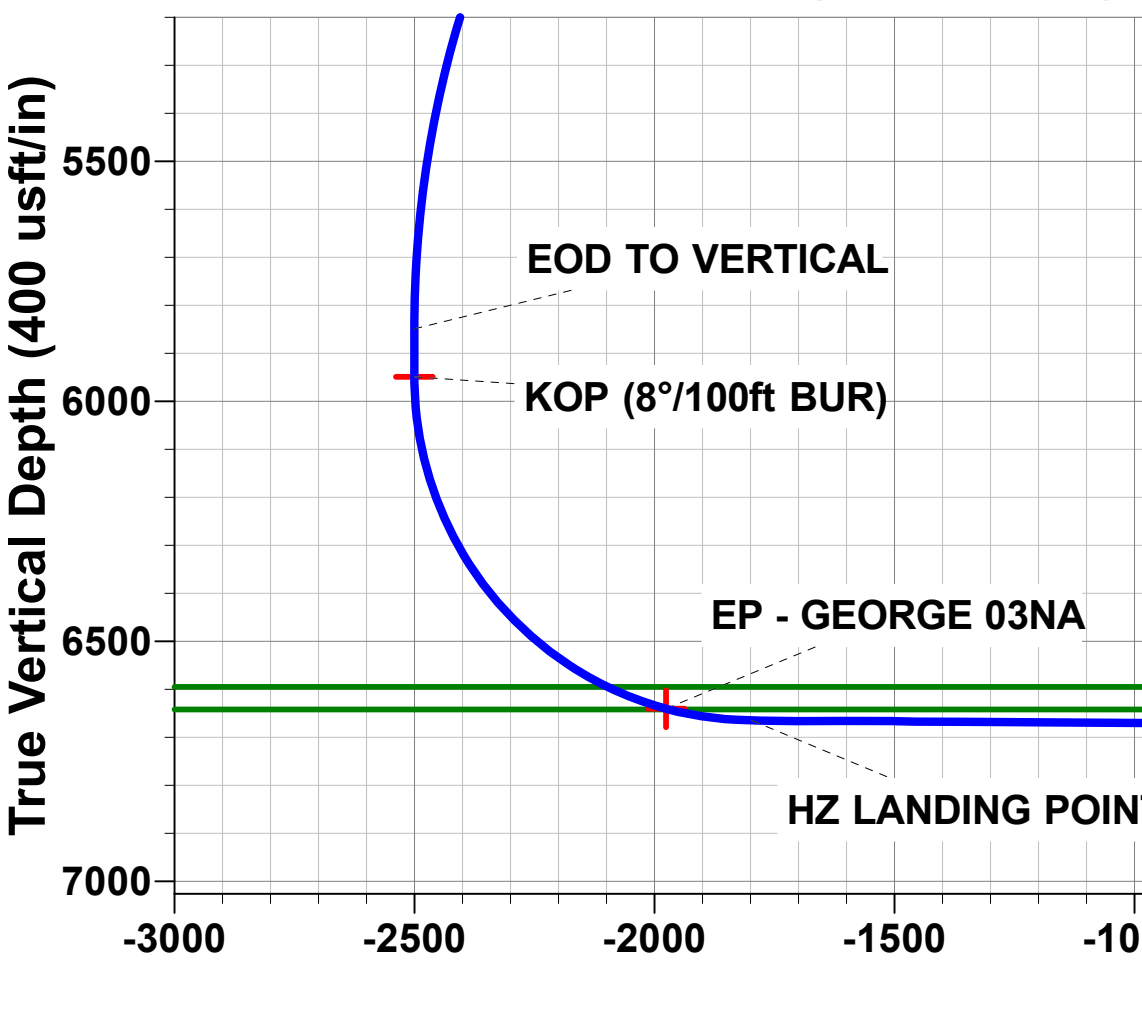
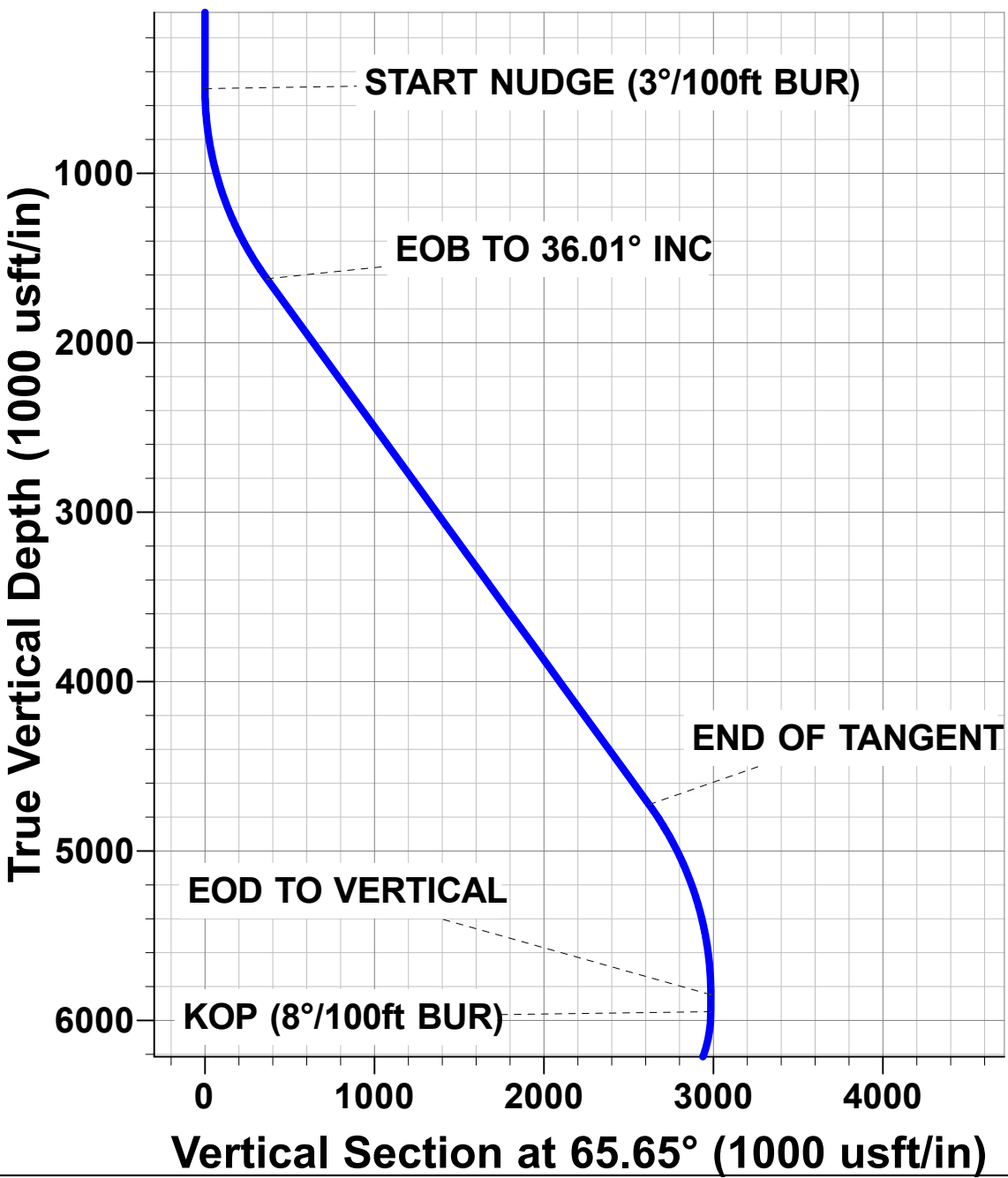


Azimuths to True North  
Magnetic North: 7.74°

Magnetic Field  
Strength: 51929.8nT  
Dip Angle: 66.61°  
Date: 2021-05-27  
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - GEORGE 03NA	6730.00	1229.00	-7967.24	1354768.51	3255645.12	40.303613	-104.583385
EP - GEORGE 03NA	6640.61	1230.51	2188.81	1354878.27	3265800.15	40.303620	-104.546973
KOP - GEORGE 03NA	5948.82	1230.60	2719.64	1354884.02	3266330.92	40.303620	-104.545070



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)**

**SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)**

**GEORGE 03NA**

**ORIGINAL WELLBORE**

**PROPOSAL #1**

## **Anticollision Report**

**29 May, 2021**

# Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 03NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4740.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4740.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 03NA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<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 100.00usft	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum centre distance of 9,999.98usft	<b>Error Surface:</b>	Ellipsoid Separation
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	2021-05-29		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	17,952.51	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 #	15,438.10	6,975.00	3,357.02	3,113.89	13.808	CC
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,500.00	6,975.00	3,357.59	3,112.67	13.709	ES
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	16,100.00	6,975.00	3,421.65	3,163.50	13.255	SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	3,310.61	1,782.52	4,892.21	4,862.03	162.097	CC
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	3,500.00	1,931.00	4,893.37	4,860.33	148.132	ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,900.00	6,053.15	5,163.19	5,083.11	64.473	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,155.43	1,234.49	4,069.47	4,055.30	287.030	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,200.00	1,246.59	4,069.76	4,055.03	276.131	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,850.00	5,991.48	4,684.19	4,618.31	71.104	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	516.88	543.72	3,695.26	3,693.63	2,266.826	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	13,700.00	6,731.27	5,158.03	4,972.12	27.744	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	1,457.84	1,423.24	3,240.25	3,232.47	416.322	CC
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	1,600.00	1,548.98	3,241.07	3,231.56	340.963	ES
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	10,600.00	6,708.41	4,840.58	4,732.66	44.855	SF
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,656.05	6,700.00	2,748.87	2,542.19	13.300	CC
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,700.00	6,700.00	2,749.22	2,541.35	13.226	ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	15,100.00	6,700.65	2,784.49	2,568.45	12.889	SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,793.29	6,697.78	2,906.21	2,591.46	9.233	CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,800.00	6,697.83	2,906.23	2,591.36	9.230	ES
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	14,000.00	6,699.12	2,920.98	2,602.97	9.185	SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,530.55	6,784.94	4,051.97	3,767.16	14.227	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,600.00	6,785.82	4,052.56	3,765.88	14.136	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,952.53	6,790.29	4,073.88	3,779.09	13.820	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	17,952.53	6,798.41	854.34	816.10	22.339	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	500.00	478.00	464.39	454.19	45.543	CC
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	700.00	677.63	466.70	452.02	31.798	ES
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,300.00	6,658.13	858.64	629.44	3.746	SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,568.80	6,678.32	791.15	532.04	3.053	CC
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,600.00	6,678.52	791.77	531.65	3.044	ES, SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	500.00	517.00	4,255.03	4,243.98	385.157	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	600.00	616.95	4,256.61	4,243.32	320.326	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	12,200.00	6,709.42	5,575.24	5,302.07	20.409	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,297.34	6,745.44	2,606.04	2,355.07	10.384	CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,400.00	6,746.20	2,608.06	2,354.45	10.284	ES
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,600.00	6,747.71	2,623.56	2,366.05	10.188	SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,903.38	6,781.08	4,898.90	4,497.09	12.192	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 GEORGE 03NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4740.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4740.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 03NA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,000.00	6,781.72	4,899.85	4,495.42	12.115	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,800.00	6,786.99	4,980.27	4,558.59	11.810	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	501.41	477.03	2,852.77	2,851.38	2,066.292	CC, ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	11,675.38	6,574.04	4,581.56	4,462.02	38.327	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	500.00	518.00	2,999.80	2,988.80	272.530	CC
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	600.00	617.95	3,001.59	2,988.34	226.564	ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,900.00	6,708.47	4,198.18	3,932.18	15.783	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	918.70			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,200.00	6,653.15	1,454.88	1,337.81	12.427	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,179.96	6,732.33	122.08	-256.64	0.322	Level 3, CC, ES, SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,410.07	6,779.99	1,373.10	1,091.40	4.874	CC, ES
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,500.00	6,779.66	1,376.05	1,092.54	4.854	SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,516.33	6,667.92	121.79	-33.98	0.782	Level 3, ES, SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,532.31	6,667.91	120.74	-7.88	0.939	Level 3, CC
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,874.91	6,706.81	993.28	648.06	2.877	CC
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,900.00	6,706.97	993.60	647.70	2.872	ES, SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,648.47	6,793.99	5,381.26	4,958.74	12.736	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,800.00	6,794.99	5,383.40	4,956.78	12.619	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,952.53	6,796.00	5,389.85	4,959.37	12.521	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	17,952.53	6,830.14	2,776.51	2,495.94	9.896	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,503.43	4,554.00	5,827.12	5,482.98	16.932	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,600.00	4,554.00	5,827.92	5,481.33	16.815	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,952.53	4,554.00	5,844.40	5,489.50	16.468	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,865.52	7,048.16	3,468.05	3,178.12	11.962	CC
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,900.00	7,048.41	3,468.22	3,177.50	11.930	ES
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,300.00	7,051.21	3,495.16	3,197.45	11.740	SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	0.00	8.94	3,707.22			
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	500.00	505.76	3,707.44	3,705.90	2,394.630	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	12,100.00	6,715.36	5,177.66	5,032.90	35.767	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	515.42	573.38	4,474.66	4,473.00	2,690.964	CC, ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	14,300.00	6,918.30	4,853.07	4,649.98	23.896	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	501.35	527.41	4,480.42	4,478.84	2,835.980	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,300.00	6,847.61	4,578.97	4,364.74	21.374	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	15,500.00	6,847.37	4,757.31	4,517.71	19.855	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,409.83	6,951.03	1,971.17	1,729.30	8.150	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,500.00	6,950.64	1,973.23	1,728.97	8.078	ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,700.00	6,949.78	1,992.41	1,744.50	8.037	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,202.68	7,108.76	1,916.19	1,697.12	8.747	CC, ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,400.00	7,106.03	1,926.32	1,704.75	8.694	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	0.00	0.00	3,287.52			
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	700.00	654.44	3,288.19	3,285.48	1,210.208	ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	11,700.00	6,795.25	5,528.98	5,393.71	40.873	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	12,900.00	10,869.00	107.06	-77.10	0.581	Level 3, ES, SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	12,933.85	10,869.00	101.76	-72.12	0.585	Level 3, CC
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,679.24	10,175.00	1,334.03	1,047.15	4.650	CC
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,700.00	10,175.00	1,334.19	1,046.84	4.643	ES
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,800.00	10,175.00	1,339.48	1,050.20	4.630	SF
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,658.28	6,780.05	4,459.95	4,159.56	14.847	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,800.00	6,780.31	4,462.20	4,158.04	14.671	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,952.53	6,780.59	4,469.65	4,161.80	14.519	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,077.91	10,884.00	5,321.37	5,164.58	33.939	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,800.00	10,884.00	5,354.94	5,157.88	27.175	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 GEORGE 03NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4740.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4740.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 03NA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	15,500.00	10,884.00	5,876.50	5,637.36	24.573	SF
EXIST VERT API #20-6I4 - Wellbore #1 - Design #1	16,180.52	6,743.34	1,451.79	1,070.47	3.807	CC
EXIST VERT API #20-6I4 - Wellbore #1 - Design #1	16,200.00	6,743.47	1,451.93	1,070.07	3.802	ES
EXIST VERT API #20-6I4 - Wellbore #1 - Design #1	16,300.00	6,744.12	1,456.70	1,072.96	3.796	SF
EXIST VERT API 20-4I4 - Wellbore #1 - Design #1	17,488.16	6,773.93	194.37	-221.74	0.467	Level 3, CC, ES, SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,916.22	6,721.58	4,032.20	3,712.95	12.630	CC, ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	14,400.00	6,724.72	4,094.28	3,765.53	12.454	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,186.63	6,715.34	3,274.12	2,947.19	10.015	CC
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,300.00	6,716.07	3,276.45	2,946.50	9.930	ES
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,700.00	6,718.67	3,315.81	2,977.32	9.796	SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	14,987.64	6,737.54	4,071.62	3,722.87	11.675	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,100.00	6,738.28	4,073.17	3,721.40	11.579	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,800.00	6,742.85	4,151.87	3,785.39	11.329	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,781.44	6,640.35	2,629.83	2,448.02	14.465	CC
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,800.00	6,640.72	2,629.95	2,447.84	14.441	ES
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	14,000.00	6,644.57	2,647.18	2,462.33	14.321	SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,836.71	5,889.82	2,227.66	2,045.29	12.215	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,850.00	5,903.11	2,227.73	2,045.08	12.197	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,100.00	6,147.22	2,252.57	2,065.45	12.039	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,836.71	5,871.82	3,222.57	3,040.44	17.694	CC
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,850.00	5,885.11	3,222.63	3,040.23	17.668	ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,200.00	6,219.73	3,268.77	3,080.35	17.349	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	5,103.04	4,300.00	2,514.43	2,460.75	46.840	CC
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	5,200.00	4,357.25	2,515.52	2,460.57	45.777	ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,850.00	5,886.55	2,603.75	2,539.16	40.309	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,836.71	5,864.82	1,653.44	1,501.22	10.862	CC
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,850.00	5,878.11	1,653.57	1,501.07	10.843	ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,000.00	6,026.70	1,671.95	1,516.46	10.752	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,923.03	6,731.62	5,265.43	4,945.75	16.471	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	14,000.00	6,732.12	5,267.02	4,945.55	16.384	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	14,800.00	6,737.32	5,407.03	5,069.56	16.022	SF
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	5,815.56	4,897.97	4,359.82	4,200.82	27.419	CC
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	6,900.00	5,947.03	4,366.29	4,182.40	23.744	ES
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	7,400.00	6,390.81	4,446.58	4,254.77	23.182	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,215.72	2,004.77	1,380.20	1,325.45	25.208	CC
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,300.00	2,072.95	1,381.09	1,323.88	24.142	ES
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	9,200.00	6,638.03	2,250.47	2,042.16	10.803	SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	0.00	39.36	4,910.87			
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	14,600.00	6,749.56	5,975.44	5,785.55	31.469	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	500.00	505.00	1,813.62	1,802.84	168.325	CC, ES
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,800.00	6,694.82	2,141.12	1,875.95	8.074	SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	500.00	499.00	906.01	895.35	84.967	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	600.00	598.95	907.70	894.79	70.338	ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,600.00	6,681.07	2,138.47	1,902.26	9.054	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	500.00	500.00	2,174.79	2,164.11	203.758	CC
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	600.00	599.95	2,176.07	2,163.16	168.497	ES
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	11,000.00	6,684.65	3,499.96	3,255.51	14.318	SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	3,957.85	3,475.84	3,813.35	3,774.85	99.035	CC
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	4,100.00	3,591.61	3,814.23	3,773.87	94.503	ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	9,600.00	6,565.88	4,824.34	4,746.03	61.607	SF
EXIST VERT HERBST 22-6I4 - Wellbore #1 - Design #1	6,836.71	5,882.82	1,598.69	1,421.19	9.007	CC
EXIST VERT HERBST 22-6I4 - Wellbore #1 - Design #1	6,850.00	5,896.11	1,598.78	1,421.01	8.994	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 GEORGE 03NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4740.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4740.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 03NA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,000.00	6,044.70	1,612.54	1,432.04	8.934	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	5,112.03	4,341.27	3,603.98	3,550.16	66.958	CC
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	5,200.00	4,400.00	3,604.51	3,549.53	65.563	ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,850.00	5,873.70	3,663.14	3,597.85	56.108	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	2,427.21	2,166.85	4,383.74	4,323.01	72.181	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	2,800.00	2,468.41	4,389.22	4,317.60	61.286	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	9,100.00	6,628.38	5,172.48	4,965.85	25.033	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	4,882.99	4,138.42	5,574.96	5,442.51	42.090	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	5,400.00	4,556.64	5,583.24	5,435.67	37.834	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,600.00	6,516.60	5,742.12	5,548.12	29.599	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,525.63	6,745.83	2,768.12	2,483.55	9.727	CC
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,600.00	6,745.87	2,769.12	2,482.61	9.665	ES
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,900.00	6,746.01	2,793.32	2,501.30	9.566	SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,718.72	6,754.32	4,566.79	4,198.04	12.385	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,800.00	6,754.85	4,567.51	4,196.55	12.313	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,600.00	6,760.09	4,651.04	4,262.77	11.979	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,868.15	6,759.77	5,339.44	4,993.35	15.428	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,000.00	6,760.62	5,341.07	4,991.41	15.275	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	16,200.00	6,768.47	5,503.04	5,127.82	14.666	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,705.82	5,736.21	510.34	453.51	8.981	CC, ES
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,836.71	5,869.55	510.96	453.91	8.955	SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	500.00	530.00	2,793.68	2,782.40	247.663	CC
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	600.00	629.95	2,795.87	2,782.35	206.780	ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	12,000.00	6,721.12	3,650.29	3,380.00	13.505	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	500.00	528.00	3,608.73	3,597.52	321.935	CC, ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	13,700.00	6,730.18	4,362.93	4,058.32	14.323	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	500.00	504.00	2,693.34	2,682.57	250.208	CC
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,000.00	6,695.12	2,743.63	2,474.17	10.182	ES
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,355.86	6,697.43	2,799.24	2,519.84	10.019	SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	2,383.03	2,122.11	5,122.10	5,062.85	86.447	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	2,800.00	2,459.41	5,127.96	5,056.53	71.791	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	9,500.00	6,621.96	6,053.38	5,841.68	28.593	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	11,983.74	6,661.39	1,528.47	1,392.66	11.255	CC
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,000.00	6,661.48	1,528.60	1,392.15	11.203	ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,255.86	6,662.92	1,565.15	1,420.91	10.851	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	500.00	523.00	1,779.50	1,768.34	159.471	CC
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	600.00	622.95	1,781.68	1,768.28	132.963	ES
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,500.00	6,710.88	2,802.39	2,545.34	10.902	SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,725.07	1,617.87	284.82	244.09	6.992	CC, ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	9,700.00	6,651.25	1,347.85	1,130.73	6.208	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	500.00	483.00	1,561.84	1,551.49	150.922	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	700.00	682.63	1,563.59	1,548.76	105.430	ES
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	10,200.00	6,662.48	2,812.37	2,585.34	12.388	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	1,283.83	1,259.47	2,736.95	2,732.07	560.375	CC
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	1,400.00	1,351.51	2,737.65	2,731.81	468.105	ES
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	10,700.00	6,626.47	4,173.83	4,074.57	42.048	SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,255.54	6,686.78	596.41	268.21	1.817	CC, ES, SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,357.31	6,719.95	559.58	201.13	1.561	CC, ES, SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,626.43	4,723.97	1,396.00	1,335.56	23.099	CC
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,700.00	4,791.38	1,396.44	1,335.27	22.830	ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,300.00	5,336.47	1,421.91	1,357.68	22.139	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	500.00	453.00	4,583.71	4,573.97	470.607	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 GEORGE 03NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4740.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4740.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 03NA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT NIX #1 - Wellbore #1 - Design #1	1,100.00	1,043.18	4,590.04	4,566.47	194.731	ES
EXIST VERT NIX #1 - Wellbore #1 - Design #1	10,700.00	6,635.71	6,000.51	5,767.19	25.718	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	500.00	487.00	4,167.55	4,157.11	399.193	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	600.00	586.95	4,168.41	4,155.72	328.697	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	11,700.00	6,676.17	5,779.92	5,523.40	22.532	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #1	17,952.53	6,798.00	1,587.34	1,191.41	4.009	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,752.69	6,782.40	697.75	434.38	2.649	CC, ES, SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	2,566.73	2,442.23	2,259.97	2,239.59	110.896	CC
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	2,700.00	2,555.87	2,261.27	2,239.15	102.222	ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	9,600.00	6,784.46	3,236.23	3,154.76	39.724	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,673.84	6,702.50	342.34	2.86	1.008	Level 3, CC, ES, SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,821.22	6,694.96	1,550.28	1,234.69	4.912	CC, ES
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,900.00	6,695.47	1,553.36	1,237.13	4.912	SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,382.72	2,934.04	363.30	332.32	11.727	CC
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,400.00	2,947.63	363.45	332.26	11.654	ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,500.00	3,026.69	370.19	338.26	11.596	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	17,952.53	6,811.00	4,147.41	3,723.01	9.772	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	437.59	437.71	29.57	27.88	17.489	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,121.45	457.07	11.48	1.026	Level 3, ES, SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	515.37	515.45	14.56	12.52	7.154	CC
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	17,900.09	17,959.61	225.49	-161.82	0.582	Level 3, ES, SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	627.86	628.74	14.38	11.84	5.663	CC
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,987.30	320.05	-52.51	0.859	Level 3, ES, SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	684.12	684.83	28.64	25.85	10.247	CC
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,907.85	440.49	-97.88	0.818	Level 3, ES, SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	725.65	727.12	42.97	39.98	14.352	CC, ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,909.57	666.04	114.37	1.207	Level 3, SF
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	760.56	761.75	57.33	54.17	18.130	CC, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	17,952.53	17,833.08	876.39	284.47	1.481	Level 3, SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	791.20	792.08	71.60	68.29	21.628	CC
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	800.00	800.77	71.62	68.26	21.354	ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,873.84	1,096.19	504.10	1.851	SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	819.06	820.58	85.97	82.51	24.860	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,045.42	1,318.74	725.47	2.223	SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	844.78	845.91	100.29	96.70	27.886	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,966.73	1,534.17	938.85	2.577	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	868.36	869.08	114.64	110.92	30.781	CC, ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,993.02	1,756.19	1,162.58	2.959	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	890.69	890.98	128.98	125.14	33.537	CC
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	900.00	900.08	129.00	125.10	33.101	ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,945.20	1,972.24	1,378.02	3.319	SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	912.01	911.82	143.31	139.34	36.095	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,990.95	2,193.69	1,600.93	3.701	SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	932.22	931.54	157.67	153.58	38.508	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	17,957.10	2,410.79	1,817.21	4.061	SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	951.57	949.38	171.95	167.74	40.829	CC, ES
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	17,952.53	17,941.93	2,629.14	2,036.24	4.434	SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	970.18	967.44	186.28	181.95	43.055	CC
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	996.31	186.43	181.92	41.315	ES
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,062.11	2,850.36	2,258.62	4.817	SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	988.05	984.76	200.56	196.13	45.199	CC
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	996.31	200.59	196.08	44.457	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 GEORGE 03NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4740.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4740.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 03NA	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<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
<b>Offset Well - Wellbore - Design</b>						
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,025.91	3,067.55	2,476.00	5.186	SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	934.90	929.16	215.90	211.81	52.784	CC, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,127.05	3,288.22	2,698.09	5.572	SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	854.43	846.20	233.21	229.60	64.555	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	17,952.53	18,103.37	3,505.53	2,914.64	5.933	SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	752.84	745.27	251.38	248.29	81.295	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,237.70	3,726.04	3,136.82	6.324	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	632.19	627.87	268.94	266.40	105.720	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,230.13	3,943.86	3,355.07	6.698	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	500.00	284.97	283.00	144.568	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,286.80	4,162.89	3,574.22	7.072	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.00	299.93	298.41	197.105	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,413.73	4,383.10	3,795.30	7.457	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	299.00	314.91	313.84	294.341	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	17,952.53	18,446.63	4,601.07	4,014.17	7.840	SF
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	11,908.64	6,650.91	166.29	35.17	1.268	Level 3, CC, ES, SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	10,902.35	6,673.02	407.69	165.00	1.680	CC, ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	12,936.34	13,599.23	765.38	448.99	2.419	ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	12,938.33	13,597.25	765.38	448.99	2.419	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	12,936.34	13,770.08	539.82	217.71	1.676	ES, SF
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	12,938.18	13,768.25	539.82	217.72	1.676	CC
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,500.00	6,576.69	487.07	406.91	6.076	SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,600.00	6,632.57	474.26	398.05	6.223	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,635.37	6,648.64	473.21	398.94	6.371	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,578.10	7,007.55	153.80	132.75	7.306	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,600.00	7,009.45	155.67	132.60	6.748	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,700.00	7,016.25	203.88	165.49	5.310	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,546.72	6,646.26	149.28	-58.90	0.717	Level 3, CC, ES, SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,700.00	6,614.86	652.48	583.22	9.422	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,770.40	6,614.79	648.67	580.28	9.485	CC, ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,247.65	6,610.55	195.71	134.49	3.197	CC, ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,300.00	6,609.75	202.59	136.03	3.044	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		Highside		Offset Wellbore Centre		Rule Assigned:		Offset Well Error: 0.00 usft	
Measured Reference	Vertical	Measured	Vertical	Reference	Offset	Toolface			Distance				Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	38.78	38.78	0.00	0.04	-119.92	-3,330.13	-5,785.72	6,675.65				
100.00	100.00	138.21	138.21	0.09	0.15	-119.92	-3,330.17	-5,785.70	6,675.66	6,675.42	0.24	N/A	
200.00	200.00	1,537.77	1,516.83	0.31	4.47	-118.79	-3,149.67	-5,732.00	6,664.02	6,659.65	4.37	1,525.187	
300.00	300.00	1,605.80	1,582.29	0.54	4.80	-118.67	-3,131.77	-5,727.44	6,645.10	6,640.32	4.78	1,389.795	
400.00	400.00	1,717.49	1,689.98	0.76	5.31	-118.48	-3,103.10	-5,719.80	6,626.48	6,621.10	5.38	1,230.743	
500.00	500.00	1,801.73	1,771.19	0.99	5.71	-118.34	-3,081.65	-5,713.52	6,607.51	6,601.60	5.91	1,117.781	
600.00	599.95	1,855.75	1,823.28	1.21	5.98	176.13	-3,067.75	-5,710.01	6,591.80	6,585.49	6.31	1,044.689	
700.00	699.63	1,935.44	1,900.19	1.44	6.36	176.29	-3,047.50	-5,705.09	6,581.77	6,574.96	6.81	966.098	
800.00	798.77	2,143.08	2,100.81	1.69	7.36	176.65	-2,996.23	-5,689.66	6,576.27	6,568.44	7.83	839.392	
874.72	872.32	2,236.83	2,191.10	1.93	7.85	176.81	-2,972.16	-5,682.23	6,574.94	6,566.54	8.40	783.076	

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