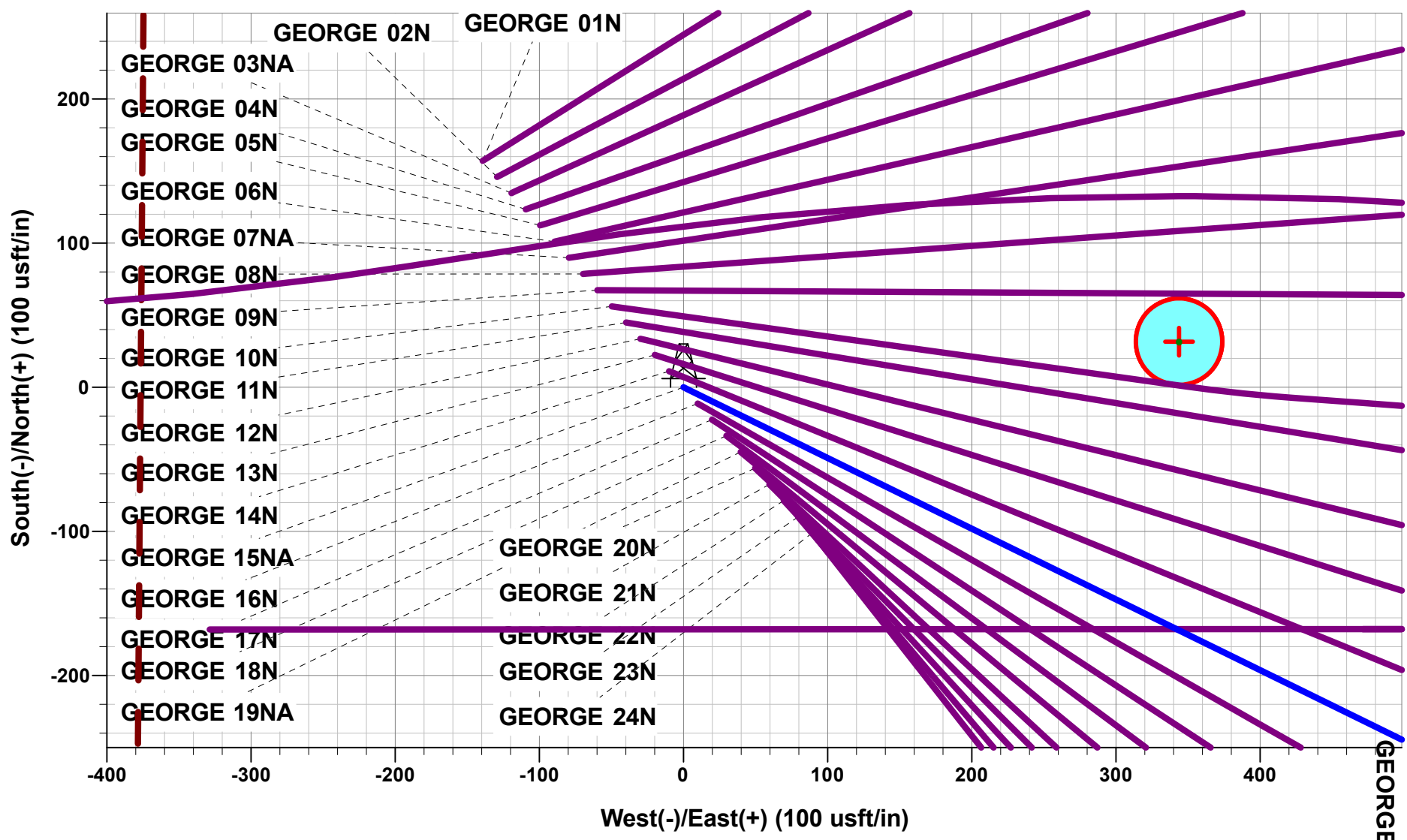




Project: WELD COUNTY, COLORADO (TRUE)  
Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
Well: GEORGE 15NA  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

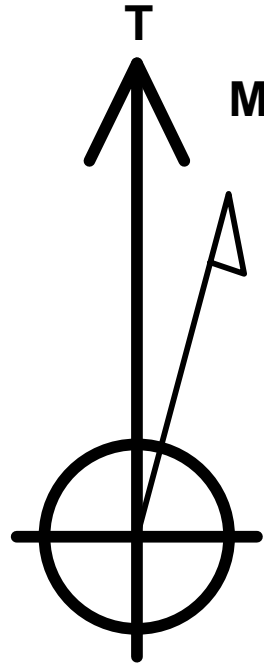
ANNOTATIONS

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: 1928ft FNL & 2255ft FEL of Sec 21
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	START NUDGE (4°/100ft BUR)
2149.45	37.98	116.13	2081.43	-133.56	272.32	-248.44	303.31	EOB TO 37.98° INC
5819.53	37.98	116.13	4974.38	-1128.04	2299.99	-2098.26	2561.72	END OF TANGENT
6768.98	0.00	0.00	5855.81	-1261.60	2572.31	-2346.70	2865.03	EOD TO VERTICAL
6868.98	0.00	0.00	5955.81	-1261.60	2572.31	-2346.70	2865.03	KOP (8°/100ft BUR)
7806.48	75.00	269.98	6647.60	-1261.79	2041.48	-1822.20	3395.86	EP: 2091ft FSL & 200ft FEL of Sec 21
7990.48	89.72	269.98	6672.00	-1261.85	1859.61	-1642.51	3577.73	HZ LANDING POINT
11813.28	89.72	269.98	6690.68	-1263.20	-1963.14	2134.62	7400.48	END OF TANGENT
11964.28	89.72	273.00	6691.42	-1259.27	-2114.08	2283.14	7551.49	EOT TO 273° AZ
12064.28	89.72	273.00	6691.92	-1254.04	-2213.94	2381.00	7651.49	END OF TANGENT
12215.28	89.71	269.98	6692.67	-1250.11	-2364.87	2529.51	7802.48	EOT TO 269.98° AZ
12394.28	89.71	266.40	6693.57	-1255.76	-2543.74	2707.12	7981.48	EOT TO 266.4° AZ
13159.28	89.71	266.40	6697.44	-1303.80	-3307.22	3468.86	8746.47	END OF TANGENT
13338.28	89.71	269.98	6698.35	-1309.45	-3486.10	3646.46	8925.46	EOT TO 269.98° AZ
15788.28	89.71	269.98	6710.79	-1310.31	-5936.07	6067.19	11375.43	END OF TANGENT
16103.77	89.71	276.29	6712.41	-1293.06	-6250.93	6375.61	11690.92	EOT TO 276.29° AZ
16203.77	89.71	276.29	6712.92	-1282.11	-6350.33	6472.13	11790.92	END OF TANGENT
16519.27	89.70	269.98	6714.56	-1264.86	-6665.19	6780.55	12106.41	EOT TO 269.98° AZ
17951.74	89.70	269.98	6722.02	-1265.36	-8097.63	8195.90	13538.86	BHL: 2092ft FSL & 200ft FWL of Sec 20



PROPOSED LOCAL COORDINATES:

SHL: 1928ft FNL & 2255ft FEL of Sec 21  
EP: 2091ft FSL & 200ft FEL of Sec 21  
BHL: 2092ft FSL & 200ft FWL of Sec 20

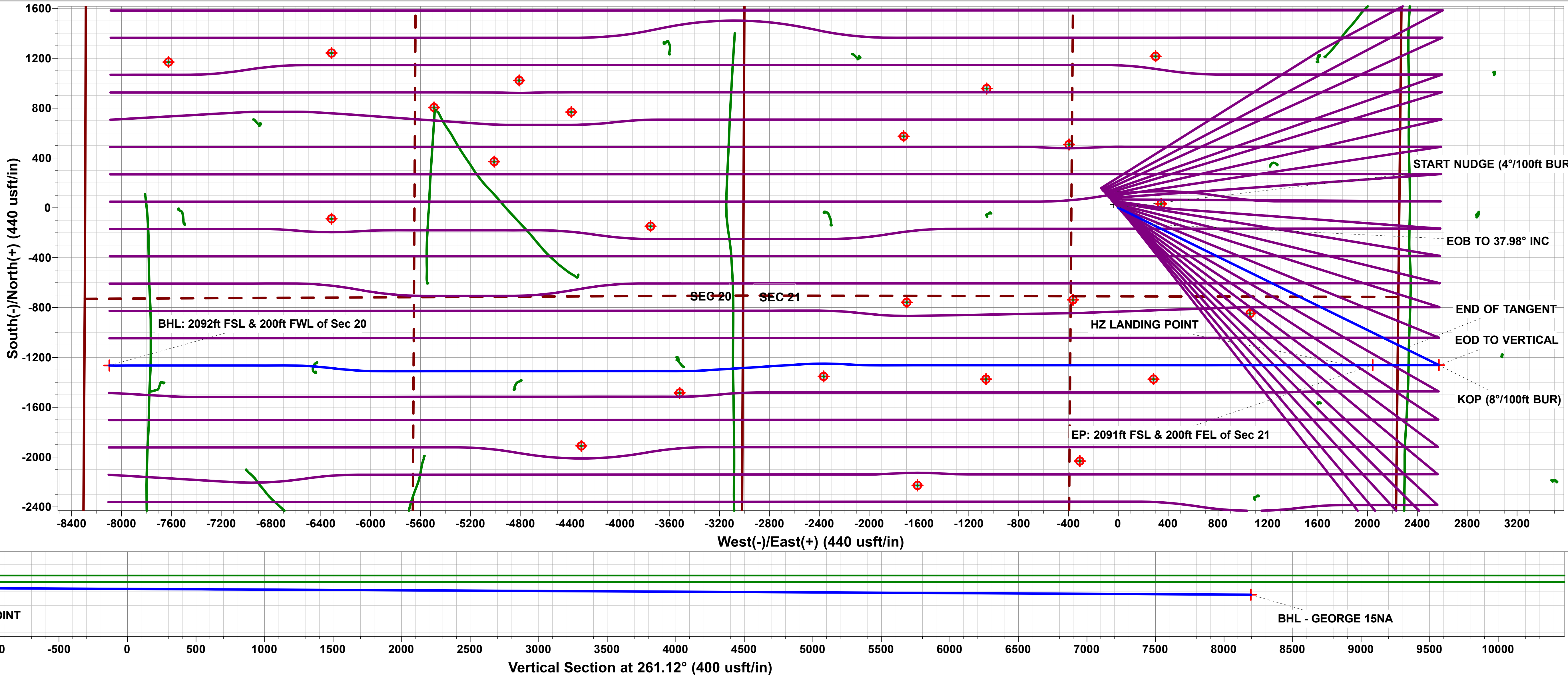
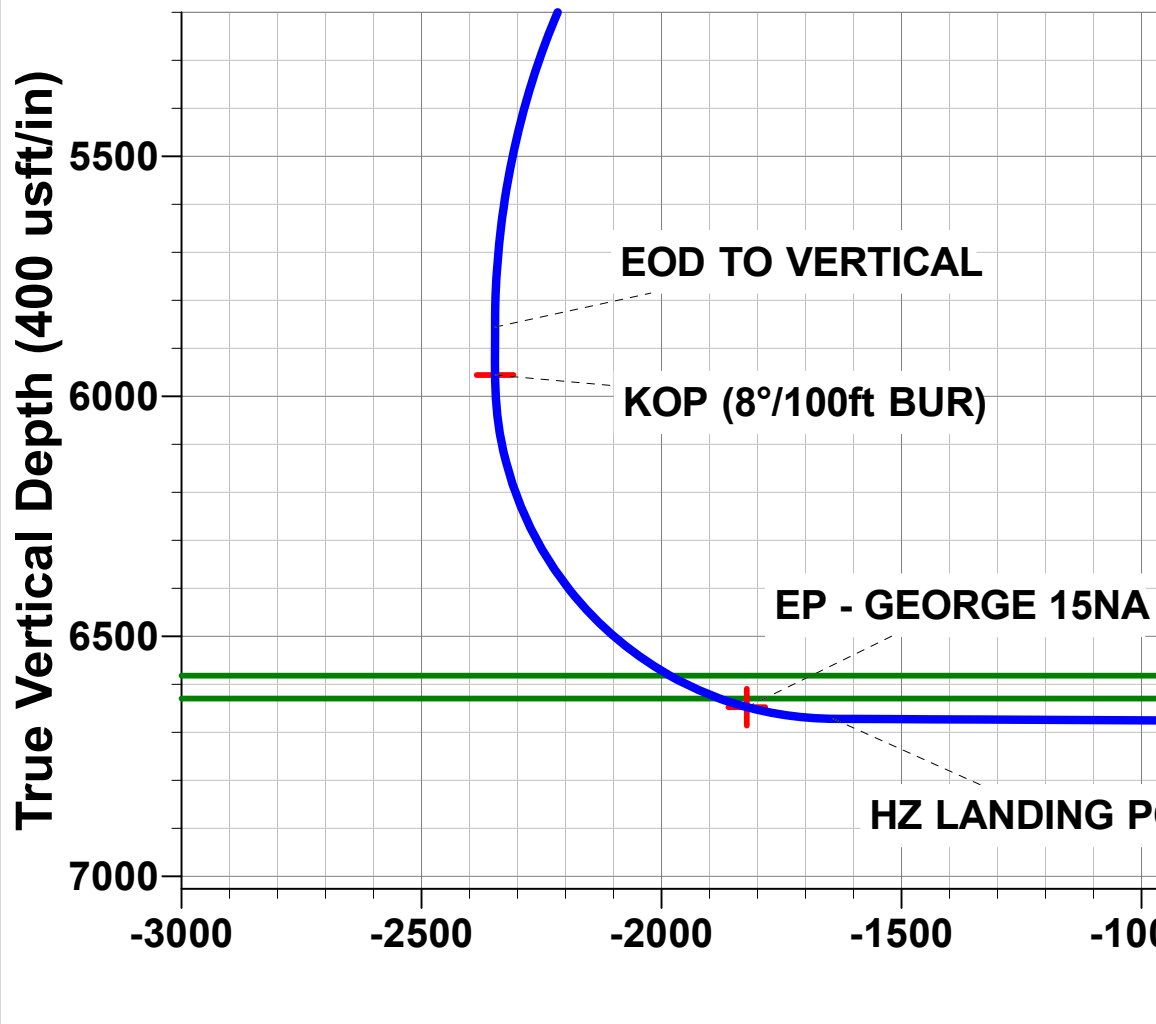
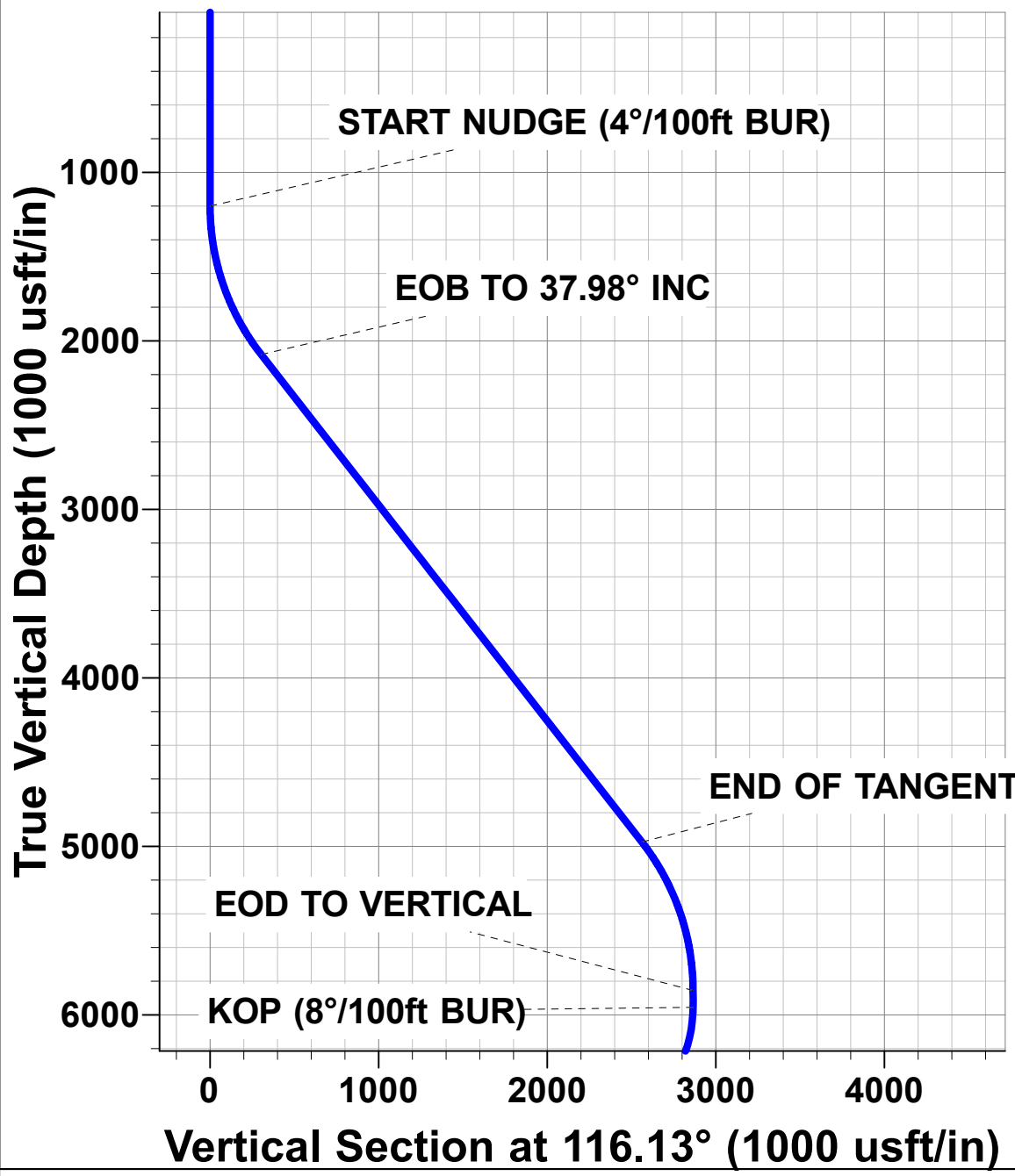


Azimuths to True North  
Magnetic North: 7.73°

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 15NA	6722.00	-1265.32	-8097.63	1352139.54	3255662.06	40.296396	-104.583422
EP - GEORGE 15NA	6647.60	-1261.79	2041.48	1352251.19	3265800.13	40.296409	-104.547074
KOP - GEORGE 15NA	5955.81	-1261.60	2572.31	1352257.04	3266330.90	40.296410	-104.545171



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)**

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

**GEORGE 15NA**

**ORIGINAL WELLBORE**

**PROPOSAL #1**

## **Anticollision Report**

**29 May, 2021**



# Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 15NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 15NA	<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	17,951.71	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 #	15,424.61	6,919.12	683.34	436.97	2.774	CC, ES, SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,757.56	5,869.03	3,099.82	3,062.23	82.450	CC, ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,950.00	6,072.33	3,104.46	3,066.43	81.637	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,831.70	5,946.89	2,191.09	2,146.17	48.777	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,868.98	5,982.39	2,191.11	2,146.16	48.749	ES, SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,525.22	6,842.64	2,013.58	1,861.77	13.265	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,800.00	6,836.27	2,032.23	1,876.83	13.078	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	7,950.00	6,647.67	1,568.54	1,491.69	20.412	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,164.19	6,656.38	1,553.89	1,478.61	20.643	CC, ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,641.95	6,709.29	74.66	-116.66	0.390	Level 3, CC, ES, SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,372.96	6,691.53	175.19	-132.08	0.570	Level 3, CC, ES, SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,518.40	6,769.81	1,422.92	1,134.46	4.933	CC, ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,600.00	6,770.73	1,425.26	1,135.37	4.917	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	17,951.74	6,814.82	2,670.63	2,387.96	9.448	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	1,200.00	1,176.00	643.86	618.01	24.907	CC, ES
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,500.00	6,660.26	1,789.14	1,552.54	7.562	SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	1,200.00	1,188.00	1,815.68	1,789.56	69.507	CC
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,600.00	6,677.64	1,836.80	1,574.11	6.992	ES
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,813.28	6,678.68	1,852.34	1,584.22	6.909	SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	10,919.11	6,701.31	2,750.28	2,503.91	11.163	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,000.00	6,701.70	2,751.46	2,503.55	11.099	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,400.00	6,703.66	2,792.00	2,537.56	10.973	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,287.28	6,718.70	32.15	-118.46	0.213	Level 3, CC, ES, SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,891.51	6,772.49	2,269.95	1,864.66	5.601	CC
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,900.00	6,772.54	2,269.97	1,864.46	5.598	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,100.00	6,773.58	2,279.50	1,870.13	5.568	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,625.49	6,615.06	1,468.51	1,383.83	17.342	CC, ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,700.00	6,616.41	1,470.40	1,385.20	17.259	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	10,925.01	6,702.34	1,446.06	1,199.63	5.868	CC, ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,000.00	6,702.70	1,448.01	1,200.56	5.852	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	1,021.29			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,100.00	6,685.46	1,217.73	1,099.33	10.285	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,331.77	6,725.58	2,518.26	2,129.52	6.478	CC, ES
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,500.00	6,726.46	2,528.79	2,137.00	6.454	SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,397.64	6,765.45	1,255.92	970.56	4.401	CC
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,400.00	6,765.44	1,255.92	970.49	4.400	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 15NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 15NA	<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 PREBISH #2 - Wellbore #1 - Wellbore #1	17,500.00	6,764.99	1,260.08	972.79	4.386	SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,498.88	6,604.98	2,630.43	2,450.81	14.644	CC
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,600.00	6,605.41	2,632.37	2,450.00	14.434	ES
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	14,000.00	6,607.09	2,677.74	2,487.37	14.066	SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,860.43	6,701.08	1,680.99	1,332.48	4.823	CC
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,900.00	6,701.28	1,681.45	1,331.83	4.809	ES
ABDN VERT TODD #2 - Wellbore #1 - Design #1	15,000.00	6,701.79	1,686.77	1,334.94	4.794	SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,636.70	6,784.38	2,752.17	2,326.14	6.460	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,700.00	6,784.71	2,752.90	2,325.28	6.438	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,900.00	6,785.75	2,764.74	2,333.25	6.407	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	17,951.74	6,779.80	863.03	826.94	23.911	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,494.81	4,554.00	3,540.26	3,246.51	12.052	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,600.00	4,554.00	3,541.82	3,245.96	11.971	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,951.74	4,554.00	3,569.64	3,267.87	11.829	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellbore #1	16,853.05	7,012.26	839.39	546.19	2.863	CC, ES, SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbore #1	10,160.71	6,712.59	2,140.82	2,032.68	19.797	CC
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbore #1	10,200.00	6,712.47	2,141.18	2,032.46	19.694	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbore #1	10,600.00	6,711.24	2,185.43	2,071.95	19.258	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbore #1	12,928.23	6,827.12	1,972.04	1,792.58	10.989	CC, ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbore #1	13,100.00	6,831.71	1,979.50	1,798.33	10.926	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbore #1	14,192.45	6,842.00	1,903.88	1,689.00	8.860	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbore #1	14,200.00	6,842.00	1,903.90	1,688.80	8.851	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbore #1	14,400.00	6,837.72	1,915.16	1,695.83	8.732	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,395.62	6,936.11	703.17	457.92	2.867	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,400.00	6,936.09	703.19	457.80	2.866	ES, SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,189.42	7,002.61	756.32	534.53	3.410	CC
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,200.00	7,002.53	756.39	533.94	3.400	ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,300.00	7,001.71	764.36	538.18	3.379	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore #1	8,959.27	6,762.28	2,172.29	2,084.17	24.652	CC, ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore #1	9,400.00	6,765.02	2,216.54	2,124.80	24.160	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellbore #1	12,943.76	8,173.38	8.70	-57.41	0.132	Level 3, CC, ES, SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SIDETRACK	17,600.00	8,799.11	477.69	375.69	4.683	SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SIDETRACK	17,622.23	8,798.58	477.17	375.65	4.700	CC, ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,646.41	6,779.00	1,830.84	1,526.73	6.020	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,700.00	6,779.02	1,831.62	1,526.30	5.999	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,800.00	6,779.07	1,837.27	1,530.46	5.988	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellbore #1	12,989.21	10,884.00	2,588.37	2,410.63	14.563	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellbore #1	13,100.00	10,884.00	2,590.74	2,410.37	14.364	ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellbore #1	13,800.00	10,884.00	2,744.95	2,544.95	13.725	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,270.91	6,736.27	1,192.25	805.43	3.082	CC, ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,300.00	6,736.42	1,192.76	805.77	3.082	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,475.39	6,764.54	2,434.70	2,013.51	5.781	CC
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,500.00	6,764.66	2,434.82	2,012.94	5.771	ES
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,700.00	6,765.71	2,445.03	2,018.68	5.735	SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,509.10	6,715.22	1,325.24	1,012.75	4.241	CC, ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,600.00	6,715.68	1,328.35	1,014.33	4.230	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,161.50	6,710.53	599.94	270.12	1.819	CC, ES, SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	14,973.71	6,731.66	1,397.33	1,045.28	3.969	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,000.00	6,731.79	1,397.57	1,044.94	3.963	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,100.00	6,732.30	1,403.02	1,048.97	3.963	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore #1	13,390.37	6,693.02	100.94	-64.09	0.612	Level 3, CC, ES, SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,868.98	5,894.81	1,370.95	1,196.54	7.861	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 15NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 15NA	<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 BORYS C22-20 - Wellbore #1 - Design #1	6,900.00	5,925.82	1,371.52	1,196.49	7.836	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,000.00	6,025.10	1,381.17	1,204.30	7.809	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,868.98	5,876.81	1,653.91	1,506.30	11.204	CC, ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,050.00	6,055.91	1,676.56	1,525.22	11.078	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,762.87	5,775.23	510.05	470.09	12.764	CC, ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,868.98	5,882.52	510.31	470.31	12.758	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,868.98	5,869.81	3,044.52	2,861.72	16.655	CC
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,900.00	5,900.82	3,044.89	2,861.46	16.600	ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,200.00	6,189.17	3,086.62	2,897.96	16.360	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design	13,408.16	6,724.70	2,554.45	2,244.44	8.240	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design	13,500.00	6,725.17	2,556.10	2,243.98	8.189	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design	13,700.00	6,726.19	2,571.07	2,255.13	8.138	SF
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Design	6,868.98	5,888.81	2,169.30	2,025.33	15.068	CC
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Design	6,900.00	5,919.82	2,169.80	2,025.20	15.005	ES
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Design	7,100.00	6,115.85	2,197.13	2,049.06	14.838	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	3,806.89	3,350.92	294.79	196.79	3.008	CC, ES
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	8,800.00	6,638.95	414.86	213.12	2.056	SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,437.04	6,732.19	2,885.85	2,735.22	19.158	CC
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,500.00	6,733.04	2,886.54	2,734.71	19.012	ES
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	13,000.00	6,739.50	2,940.24	2,781.31	18.501	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design	11,547.68	6,692.38	504.68	243.26	1.931	CC, ES
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design	11,600.00	6,692.64	507.38	244.13	1.927	SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design	10,213.48	6,679.86	524.92	295.55	2.288	CC, ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design	10,300.00	6,680.28	532.00	299.34	2.287	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design	10,159.56	6,680.60	769.11	540.84	3.369	CC, ES, SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,880.19	5,905.34	1,448.62	1,394.55	26.790	CC, ES, SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,868.98	5,887.81	1,979.88	1,797.48	10.855	CC
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,900.00	5,918.82	1,980.30	1,797.27	10.820	ES
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,050.00	6,066.91	1,993.98	1,808.21	10.733	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,748.05	5,747.59	1,300.10	1,270.16	43.431	CC, ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,800.00	5,798.97	1,300.68	1,270.71	43.394	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,362.51	6,365.20	2,270.89	2,084.73	12.199	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,400.00	6,393.50	2,271.02	2,084.64	12.185	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,500.00	6,462.30	2,272.96	2,086.13	12.166	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Design	6,868.98	5,894.81	3,213.34	3,055.85	20.404	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Design	6,900.00	5,925.82	3,213.69	3,055.57	20.325	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Design	7,200.00	6,214.17	3,252.40	3,089.74	19.995	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,513.41	6,727.45	139.10	-131.81	0.513	Level 3, CC, ES, SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,704.90	6,747.37	1,892.36	1,520.26	5.086	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,788.28	6,747.79	1,894.20	1,520.23	5.065	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,800.00	6,747.85	1,894.77	1,520.58	5.064	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,854.46	6,754.05	2,665.17	2,315.78	7.628	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,900.00	6,754.28	2,665.56	2,315.04	7.605	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,200.00	6,755.81	2,687.48	2,331.16	7.542	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbore	5,251.04	4,436.85	2,301.08	2,248.19	43.501	CC
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbore	5,300.00	4,470.71	2,301.32	2,247.72	42.935	ES
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbore	6,950.00	5,981.02	2,376.99	2,312.15	36.657	SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,462.10	6,716.96	963.87	704.01	3.709	CC, ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,500.00	6,717.15	964.61	704.37	3.707	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,199.39	6,718.59	1,446.71	1,168.10	5.193	CC
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,215.28	6,718.67	1,446.75	1,167.85	5.187	ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,300.00	6,719.10	1,448.44	1,168.25	5.170	SF

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 15NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 15NA	<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 KLEIN 21-12 - Wellbore #1 - Design #1	12,215.18	6,694.67	102.44	-173.59	0.371	Level 3, CC
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,215.28	6,694.67	102.44	-173.63	0.371	Level 3, ES, SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	6,868.98	5,900.81	2,956.71	2,780.18	16.749	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,100.00	6,127.85	2,958.40	2,777.91	16.391	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,450.00	6,420.16	2,973.90	2,790.05	16.175	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,169.14	6,669.43	1,112.08	967.16	7.673	CC
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,200.00	6,669.57	1,112.68	966.81	7.628	ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,300.00	6,670.04	1,122.72	974.68	7.584	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	10,900.00	6,707.21	112.29	-133.42	0.457	Level 3, ES, SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	10,912.21	6,707.27	111.62	-131.49	0.459	Level 3, CC
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,135.47	2,043.37	179.87	131.46	3.716	CC
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,149.45	2,054.43	180.07	131.28	3.690	ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,200.00	2,094.28	184.19	134.08	3.676	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,567.66	6,660.70	112.11	-98.50	0.532	Level 3, CC, ES, SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,700.00	6,643.29	1,069.16	999.19	15.280	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,761.90	6,643.48	1,067.37	997.74	15.330	CC, ES
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,240.99	6,681.93	2,077.75	1,746.30	6.269	CC
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,300.00	6,682.23	2,078.59	1,745.50	6.240	ES
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,500.00	6,683.25	2,093.83	1,756.49	6.207	SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,342.74	6,713.53	2,114.78	1,752.99	5.845	CC
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,400.00	6,713.82	2,115.56	1,752.19	5.822	ES
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,600.00	6,714.84	2,130.37	1,762.99	5.799	SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	7,003.66	6,075.96	1,241.54	1,175.77	18.876	CC, ES, SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,324.33	6,624.63	2,881.22	2,685.56	14.725	CC, ES
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,400.00	6,625.00	2,882.21	2,686.40	14.719	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,593.66	6,664.83	2,753.31	2,537.08	12.733	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,600.00	6,664.86	2,753.32	2,537.01	12.728	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	10,000.00	6,666.82	2,783.14	2,561.64	12.565	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #	17,951.74	6,788.00	1,376.79	991.17	3.570	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,740.58	6,740.26	1,930.81	1,663.87	7.233	CC
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,800.00	6,739.75	1,931.73	1,663.17	7.193	ES
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,900.00	6,738.90	1,937.38	1,666.77	7.159	SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,200.00	6,792.80	314.27	248.48	4.777	SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,246.64	6,793.02	310.79	248.19	4.965	CC, ES
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,659.24	6,697.06	2,331.89	1,988.91	6.799	CC
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,700.00	6,697.27	2,332.25	1,988.12	6.777	ES
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,900.00	6,698.28	2,344.29	1,995.56	6.722	SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,605.49	6,689.71	1,161.56	846.97	3.692	CC, ES
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,700.00	6,690.19	1,165.40	848.47	3.677	SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,236.37	2,881.06	875.46	851.60	36.683	CC, ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	9,100.00	6,603.48	1,664.55	1,586.52	21.332	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	17,951.74	6,801.00	1,659.64	1,271.53	4.276	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	662.94	663.12	207.12	204.28	73.036	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	700.00	699.38	207.25	204.20	68.020	ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,121.45	3,070.52	2,478.88	5.190	SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	820.19	821.60	189.37	185.77	52.558	CC, ES
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,000.00	2,848.67	2,255.97	4.806	SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	949.38	951.58	171.95	167.74	40.829	CC, ES
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	17,951.74	17,952.53	2,629.16	2,035.98	4.432	SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	1,085.55	1,089.90	152.65	147.79	31.375	CC
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,103.85	152.70	147.74	30.809	ES
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,988.98	2,336.06	1,743.24	3.941	SF

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 15NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 15NA	<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)						
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	1,186.11	1,190.49	136.29	130.99	25.754	CC
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,203.89	136.33	130.96	25.352	ES
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,909.84	2,191.64	1,597.12	3.686	SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	1,248.09	1,255.19	119.45	113.97	21.764	CC, ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,950.05	1,975.81	1,382.21	3.328	SF
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL #	1,297.99	1,306.37	105.67	100.05	18.824	CC
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL #	1,300.00	1,308.39	105.67	100.04	18.787	ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,841.50	1,752.76	1,156.30	2.939	SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	1,328.84	1,337.39	95.04	89.37	16.743	CC, ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,878.45	1,534.48	938.25	2.574	SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,201.00	89.99	84.87	17.576	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,050.99	1,319.59	723.18	2.213	SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,201.00	74.99	69.87	14.646	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,973.12	1,096.62	497.98	1.832	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	0.00	1.00	59.99			
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,201.00	59.99	54.87	11.717	ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,000.53	884.56	297.83	1.508	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,201.00	44.99	39.87	8.786	CC, ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,953.18	659.19	68.52	1.116	Level 3, SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,201.00	29.99	24.87	5.856	CC
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,999.44	454.33	-9.65	0.979	Level 3, ES, SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,201.00	14.96	9.84	2.921	CC
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	17,956.97	230.01	-143.59	0.616	Level 3, ES, SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,100.00	15.00	10.33	3.214	CC
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,900.00	18,020.87	252.12	-62.94	0.800	Level 3, ES, SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,000.00	29.96	25.74	7.101	CC
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,037.99	441.02	-80.25	0.846	Level 3, ES, SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	900.00	900.00	44.97	41.20	11.930	CC, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,138.88	668.13	113.99	1.206	Level 3, SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL #	800.00	799.00	59.97	56.65	18.077	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,103.37	876.40	281.61	1.473	Level 3, SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	700.00	699.00	75.00	72.13	26.151	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,249.83	1,101.47	514.58	1.877	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	599.00	89.96	87.54	37.196	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,242.52	1,315.50	723.49	2.222	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	498.00	105.00	103.03	53.386	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,299.29	1,534.30	941.88	2.590	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	398.00	119.95	118.43	79.063	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,425.89	1,756.50	1,166.39	2.977	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	297.00	134.94	133.87	126.653	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	17,951.74	18,458.88	1,972.34	1,381.60	3.339	SF

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 15NA
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 15NA	<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
Offset Well - Wellbore - Design						
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	1,203.37	1,165.16	2,461.84	2,458.63	766.853	CC
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	12,100.00	6,637.06	2,466.79	2,323.59	17.226	ES
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	12,400.00	6,644.84	2,509.52	2,359.99	16.783	SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	1,200.00	1,187.00	1,425.43	1,399.32	54.589	CC, ES
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	11,300.00	6,675.17	2,254.67	1,999.45	8.834	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,750.00	18,757.30	3,527.01	3,164.74	9.736	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,800.00	18,725.71	3,526.33	3,164.53	9.746	ES
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	12,216.29	14,311.82	3,510.73	3,185.78	10.804	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	7,750.00	18,931.07	3,381.25	3,016.39	9.267	SF
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	12,216.43	14,482.41	3,290.37	2,962.47	10.035	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	17,951.74	8,750.71	3,301.26	2,956.50	9.575	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	100.00	57.68	2,051.22	2,051.07	10,000.000	CC
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	200.00	153.81	2,051.43	2,050.94	4,224.746	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	8,900.00	6,729.98	3,342.94	3,254.40	37.756	SF
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,595.10	9,656.47	179.32	132.27	3.811	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,650.00	9,656.92	189.54	129.95	3.181	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,700.00	9,657.41	214.23	141.98	2.965	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	1,200.00	1,169.00	1,251.96	1,226.28	48.753	CC
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	1,300.00	1,268.92	1,252.71	1,224.81	44.903	ES
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	10,100.00	6,651.31	2,538.37	2,310.67	11.148	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	1,852.77	1,809.75	2,378.83	2,373.05	410.939	CC
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	2,000.00	1,957.75	2,379.54	2,372.47	336.748	ES
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	10,400.00	6,615.99	3,657.42	3,559.06	37.182	SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	3,161.47	2,837.34	1,809.12	1,786.17	78.851	CC
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	3,200.00	2,871.24	1,809.24	1,785.76	77.032	ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	9,300.00	6,612.42	2,648.06	2,567.57	32.897	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	-118.42	-3,195.34	-5,905.03	6,714.14								
100.00	100.00	136.33	136.33	0.09	0.15	-118.42	-3,195.38	-5,905.02	6,714.14	6,713.91	0.24	N/A					
200.00	200.00	1,518.13	1,497.94	0.31	4.37	-117.29	-3,020.10	-5,852.68	6,705.58	6,701.26	4.32	1,552.454					
300.00	300.00	1,589.00	1,566.12	0.54	4.72	-117.17	-3,001.39	-5,847.86	6,687.04	6,682.29	4.75	1,407.182					
400.00	400.00	1,663.91	1,638.30	0.76	5.06	-117.04	-2,981.97	-5,842.86	6,668.90	6,663.69	5.21	1,278.899					
500.00	500.00	1,787.33	1,757.32	0.99	5.64	-116.83	-2,950.55	-5,833.86	6,650.47	6,644.58	5.90	1,127.472					
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-116.73	-2,935.74	-5,829.99	6,632.50	6,626.16	6.34	1,046.201					
700.00	700.00	1,909.26	1,874.91	1.44	6.23	-116.61	-2,919.31	-5,826.03	6,615.12	6,608.31	6.81	971.436					
800.00	800.00	2,073.44	2,033.54	1.66	7.02	-116.34	-2,878.55	-5,814.62	6,597.55	6,589.87	7.68	859.484					
900.00	900.00	2,225.88	2,180.57	1.88	7.79	-116.08	-2,840.24	-5,802.40	6,578.85	6,570.33	8.52	772.059					
1,000.00	1,000.00	2,324.84	2,275.70	2.11	8.30	-115.90	-2,814.10	-5,794.68	6,559.87	6,550.70	9.16	715.867					
1,100.00	1,100.00	2,407.93	2,355.63	2.33	8.73	-115.75	-2,792.28	-5,788.29	6,541.12	6,531.38	9.74	671.731					
1,200.00	1,200.00	2,503.74	2,447.70	2.56	9.22	-115.57	-2,766.74	-5,781.27	6,522.56	6,512.18	10.37	628.857					
1,300.00	1,299.92	2,669.68	2,606.87	2.77	10.11	129.19	-2,721.78	-5,767.88	6,505.15	6,493.86	11.30	575.826					
1,400.00	1,399.35	2,793.85	2,725.59	2.97	10.80	129.93	-2,686.68	-5,758.23	6,492.22	6,480.16	12.06	538.326					
1,500.00	1,497.81	2,871.00	2,799.29	3.21	11.22	130.44	-2,664.72	-5,752.17	6,483.67	6,471.02	12.65	512.650					

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