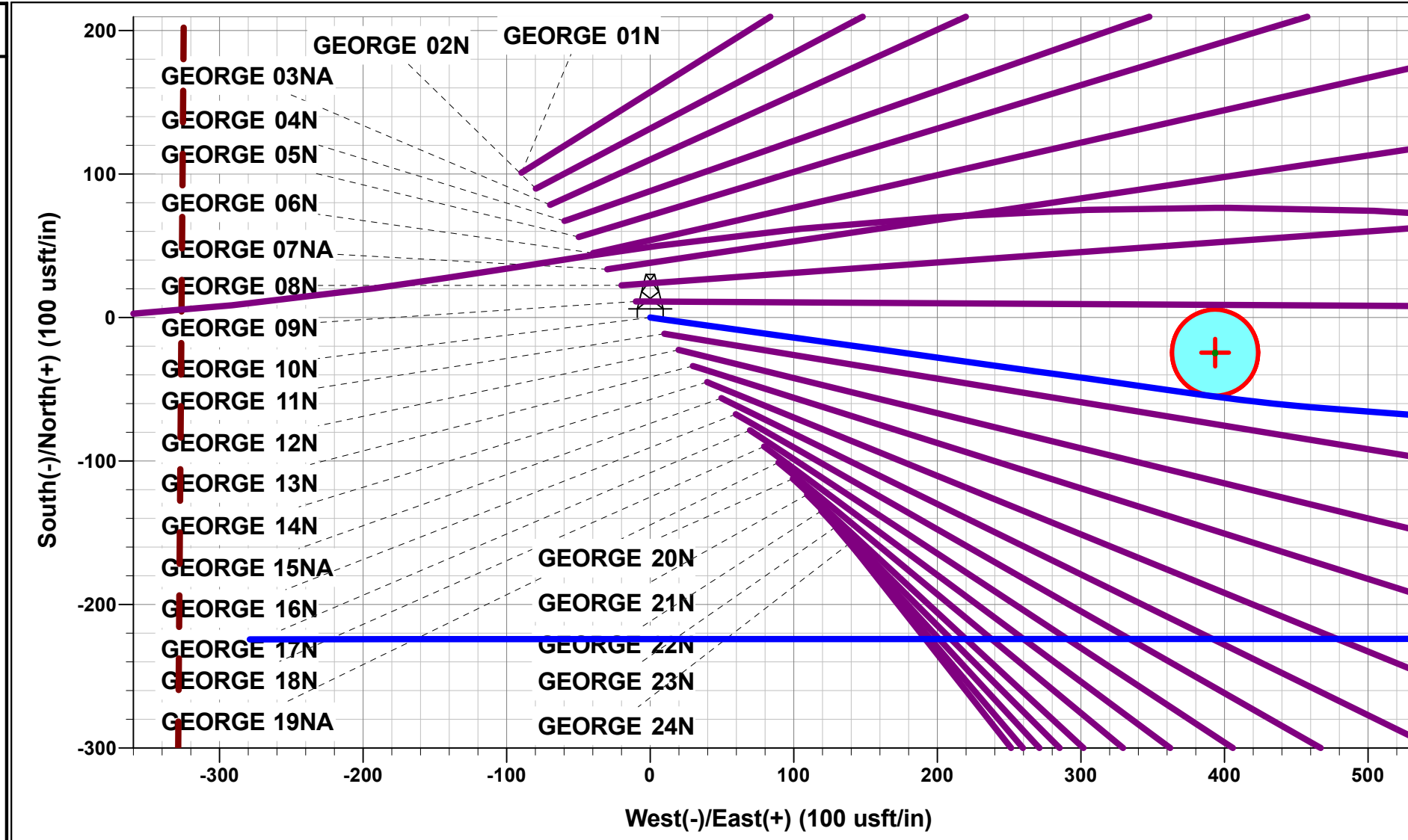




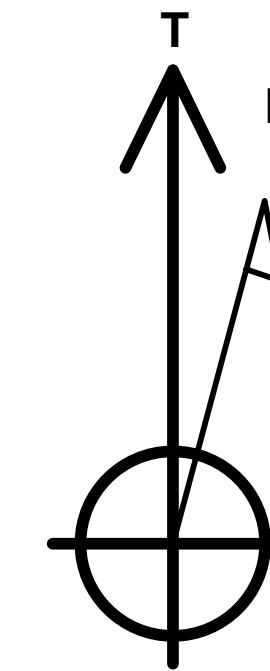
Project: WELD COUNTY, COLORADO (TRUE)
 Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
 Well: GEORGE 10N
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1

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: 1872ft FNL & 2306ft FEL of Sec 21
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	START NUDDGE (4°/100ft BUR)
2700.00	40.00	97.95	2620.73	-46.35	331.90	-330.46	335.12	EOB TO 40° INC
2800.00	40.00	97.95	2697.33	-55.24	395.56	-393.85	399.40	END OF TANGENT
2919.63	40.00	94.23	2788.98	-63.39	471.99	-470.02	476.29	EOT TO 94.23° AZ
5770.29	40.00	94.23	4972.68	-198.47	2299.41	-2292.93	2308.70	END OF TANGENT
6770.32	0.00	0.00	5893.43	-223.18	2633.64	-2626.33	2643.83	EOD TO VERTICAL
6878.70	0.00	0.00	6001.81	-223.18	2633.64	-2626.33	2643.83	KOP (8°/100ft BUR)
7816.19	75.00	269.98	6693.60	-223.37	2102.81	-2095.71	3174.66	EP: 2091ft FNL & 200ft FEL of Sec 21
7999.82	89.69	269.98	6717.99	-223.43	1921.32	-1914.28	3356.15	HZ LANDING POINT
11216.82	89.69	269.98	6735.40	-224.58	-1295.64	1301.43	6573.10	END OF TANGENT
11650.79	89.69	261.30	6737.77	-257.54	-1727.93	1734.48	7007.07	EOT TO 261.3° AZ
11750.79	89.69	261.30	6738.32	-272.67	-1826.78	1833.72	7107.07	END OF TANGENT
12184.79	89.68	269.98	6740.71	-305.63	-2259.10	2266.79	7541.05	EOT TO 269.98° AZ
13629.79	89.68	269.98	6748.73	-306.13	-3704.07	3711.21	8986.03	END OF TANGENT
14030.78	89.68	278.00	6750.97	-278.25	-4103.76	4109.96	9387.02	EOT TO 278° AZ
14130.78	89.68	278.00	6751.54	-264.34	-4202.79	4208.56	9487.02	END OF TANGENT
14531.77	89.68	269.98	6753.78	-236.46	-4602.48	4607.30	9888.00	EOT TO 269.98° AZ
15766.32	89.68	269.98	6760.65	-236.89	-5837.01	5841.36	11122.54	END OF TANGENT
15930.32	89.68	266.70	6761.56	-241.64	-6000.91	6005.33	11286.53	EOT TO 266.7° AZ
16030.32	89.68	266.70	6762.12	-247.40	-6100.74	6105.29	11386.53	END OF TANGENT
16194.32	89.68	269.98	6763.04	-252.15	-6264.65	6269.26	11550.52	EOT TO 269.98° AZ
16425.31	89.68	274.60	6764.33	-242.92	-6495.39	6499.65	11781.52	EOT TO 274.6° AZ
16525.31	89.68	274.60	6764.89	-234.90	-6595.07	6599.07	11881.51	END OF TANGENT
16756.31	89.68	269.98	6766.18	-225.67	-6825.82	6829.46	12112.51	EOT TO 269.98° AZ
17973.12	89.68	269.98	6773.00	-226.05	-8042.60	8045.78	13329.30	BHL: 2092ft FNL & 200ft FWL of Sec 20



PROPOSED LOCAL COORDINATES:
 SHL: 1872ft FNL & 2306ft FEL of Sec 21
 EP: 2091ft FNL & 200ft FEL of Sec 21
 BHL: 2092ft FNL & 200ft FWL of Sec 20

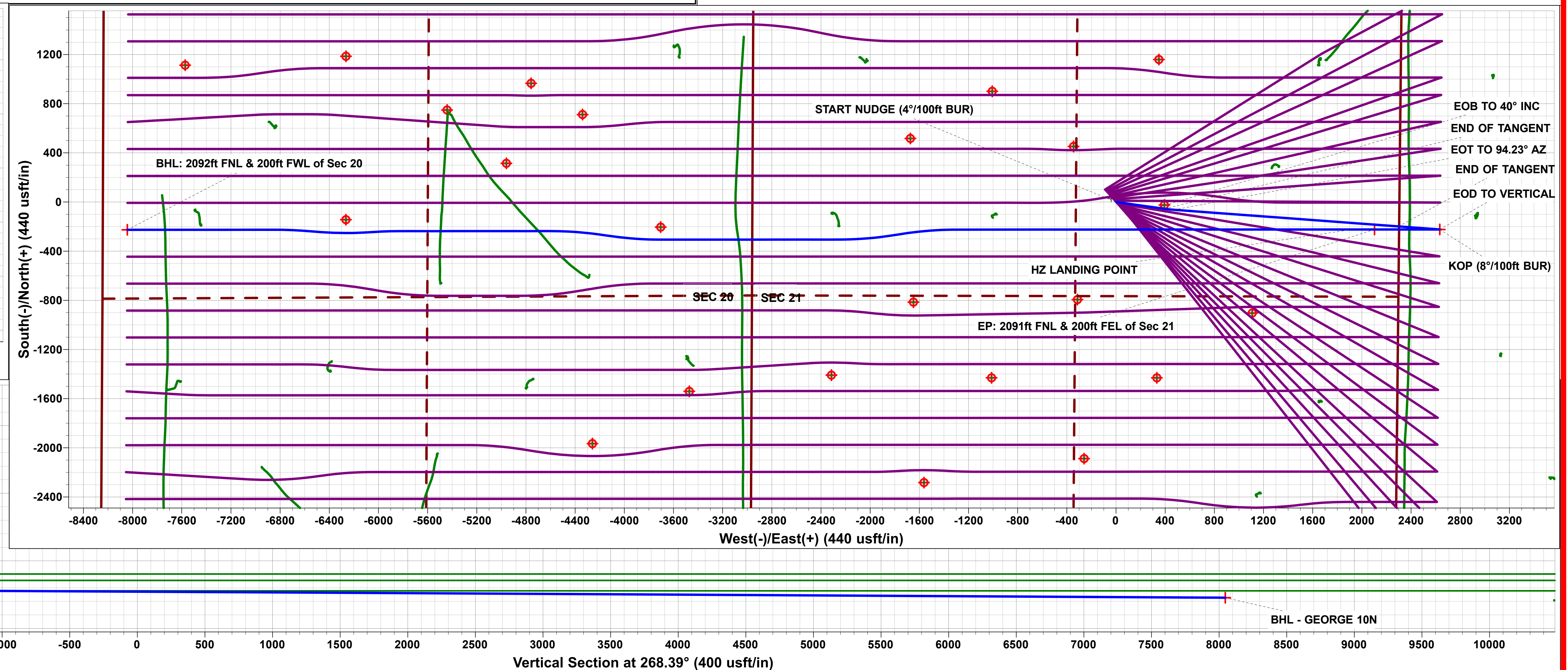
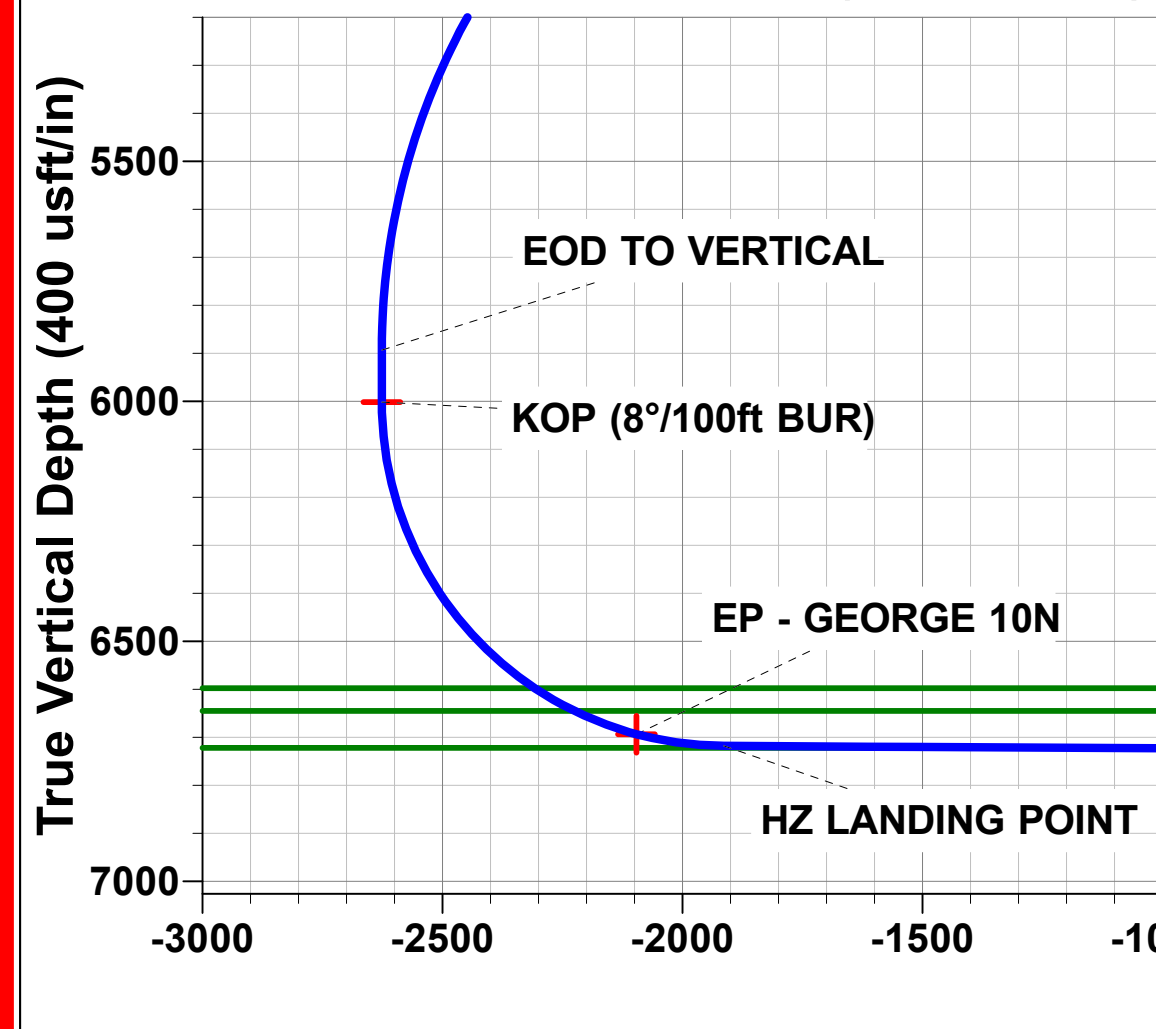
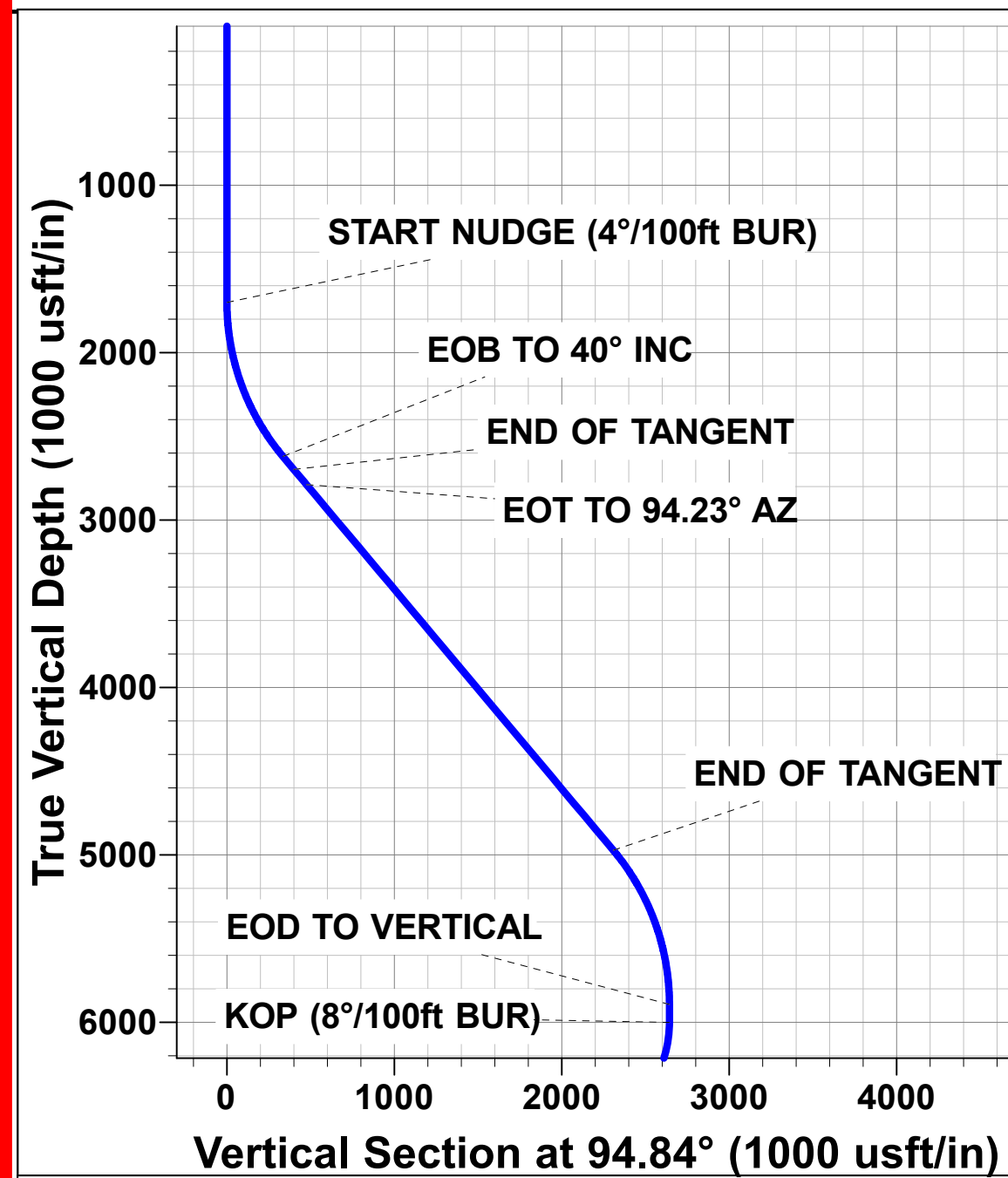


Azimuths to True North
 Magnetic North: 7.73°

Magnetic Field
 Strength: 51929.1nT
 Dip Angle: 66.61°
 Date: 2021-05-29
 Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - GEORGE 10N	6773.00	-226.05	-8042.60	1353234.96	3255655.73	40.299403	-104.583404
EP - GEORGE 10N	6693.60	-223.37	2102.81	1353345.80	3265800.11	40.299414	-104.547032
KOP - GEORGE 10N	6001.81	-223.18	2633.64	1353351.64	3266330.88	40.299414	-104.545129



PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
GEORGE 10N**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 May, 2021

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 10N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4743.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4743.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 10N	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	17,973.03	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
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,451.57	6,975.00	1,811.73	1,562.34	7.265	CC
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,500.00	6,975.00	1,812.38	1,561.61	7.227	ES
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,700.00	6,975.00	1,828.68	1,574.07	7.182	SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,759.84	5,911.54	3,876.84	3,816.17	63.897	CC
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,770.32	5,922.59	3,876.87	3,816.17	63.870	ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,950.00	6,111.14	3,879.70	3,818.66	63.555	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,815.75	5,966.22	3,203.99	3,144.12	53.515	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,878.71	6,029.19	3,204.01	3,144.11	53.486	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,900.00	6,052.31	3,204.10	3,144.20	53.484	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,877.61	6,875.96	3,062.03	2,900.53	18.959	CC
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,900.00	6,875.47	3,062.20	2,900.30	18.914	ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	12,200.00	6,868.50	3,096.86	2,930.35	18.599	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,186.88	6,698.45	2,648.92	2,570.59	33.817	CC
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,200.00	6,698.96	2,648.95	2,570.54	33.781	ES
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,800.00	6,721.48	2,718.88	2,636.03	32.816	SF
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,669.80	6,750.74	1,204.54	991.58	5.656	CC
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,700.00	6,750.89	1,204.92	991.26	5.640	ES, SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,397.17	6,739.44	1,234.79	922.50	3.954	CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,400.00	6,739.46	1,234.79	922.43	3.953	ES
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,500.00	6,740.01	1,239.06	924.71	3.942	SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,545.72	6,822.01	2,518.29	2,227.12	8.649	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,600.00	6,822.64	2,518.87	2,226.31	8.610	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,800.00	6,824.99	2,531.10	2,234.73	8.540	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	17,973.12	6,867.46	1,668.14	1,414.93	6.588	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	1,700.00	1,675.00	569.04	532.02	15.372	CC
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,266.58	6,705.26	676.27	442.21	2.889	ES
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,300.00	6,705.44	677.10	442.26	2.883	SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,515.30	6,724.03	761.68	498.81	2.898	CC, ES
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,600.00	6,724.49	767.61	501.65	2.886	SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	10,940.88	6,747.91	3,844.85	3,594.28	15.344	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,000.00	6,748.23	3,845.31	3,593.36	15.263	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	12,000.00	6,753.69	3,914.87	3,643.87	14.446	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,279.99	6,774.36	1,047.49	791.23	4.088	CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,300.00	6,774.53	1,047.76	790.83	4.078	ES, SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,918.58	6,822.08	3,365.40	2,956.42	8.229	CC
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,000.00	6,822.53	3,366.39	2,955.28	8.189	ES

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 10N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4743.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4743.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 10N	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 JOHNSON C29-29 - Wellbore #1 - Design	17,300.00	6,824.21	3,386.95	2,969.55	8.114	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,647.33	6,634.65	2,563.92	2,475.92	29.135	CC
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,700.00	6,635.75	2,564.46	2,475.49	28.824	ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	10,400.00	6,650.86	2,672.07	2,572.92	26.948	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	10,946.78	6,748.94	2,540.64	2,289.96	10.135	CC
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,000.00	6,749.23	2,541.20	2,289.32	10.089	ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,500.00	6,751.94	2,586.41	2,325.80	9.924	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	10,930.54	6,716.99	107.52	-7.49	0.935	Level 3, CC, ES, SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,192.63	6,774.03	1,437.95	1,049.76	3.704	CC
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,200.00	6,774.07	1,437.96	1,049.57	3.702	ES
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,300.00	6,774.63	1,439.94	1,049.61	3.689	SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,424.24	6,816.79	160.59	-122.19	0.568	Level 3, CC, ES, SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,523.09	6,675.36	1,572.12	1,389.55	8.611	CC, ES
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,700.00	6,675.90	1,581.19	1,395.35	8.508	SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,888.25	6,749.76	551.40	199.03	1.565	CC
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,900.00	6,749.83	551.53	198.88	1.564	ES, SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,663.60	6,834.25	3,847.65	3,417.98	8.955	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,800.00	6,835.02	3,850.07	3,416.87	8.887	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,973.12	6,836.00	3,860.09	3,423.00	8.831	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	17,973.12	6,846.60	1,402.18	1,177.07	6.229	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,520.54	4,554.00	4,470.61	4,143.86	13.682	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,600.00	4,554.00	4,471.32	4,142.72	13.607	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,973.12	4,554.00	4,493.47	4,157.24	13.364	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,880.38	7,071.12	1,934.21	1,637.99	6.530	CC
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,900.00	7,071.25	1,934.31	1,637.75	6.522	ES
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,000.00	7,071.92	1,937.91	1,640.12	6.508	SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,182.10	6,758.33	3,235.29	3,123.73	28.999	CC
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,200.00	6,758.27	3,235.34	3,123.40	28.902	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	11,300.00	6,756.00	3,421.84	3,291.63	26.279	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,831.15	6,909.28	3,007.42	2,826.96	16.665	CC
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,900.00	6,911.38	3,008.21	2,826.13	16.522	ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	13,400.00	6,926.17	3,060.72	2,869.68	16.021	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	13,917.14	6,889.10	2,992.82	2,784.71	14.381	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,000.00	6,889.04	2,995.16	2,784.16	14.195	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,800.00	6,888.31	3,088.32	2,858.06	13.412	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,422.89	6,988.90	426.23	178.05	1.717	CC, ES, SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,171.09	7,085.86	351.23	127.02	1.567	CC, ES, SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	3,429.75	2,655.19	3,097.54	3,071.53	119.132	CC
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	3,500.00	2,705.56	3,097.96	3,070.74	113.825	ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	10,300.00	6,821.76	3,522.75	3,411.73	31.733	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	12,996.75	9,214.97	31.33	-41.95	0.427	Level 3, CC
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	13,000.00	9,215.42	31.49	-42.41	0.426	Level 3, ES, SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,600.00	9,887.63	424.85	314.64	3.855	SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,668.38	9,890.15	419.32	310.97	3.870	CC, ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,673.10	6,825.40	2,926.48	2,619.65	9.538	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,700.00	6,825.42	2,926.60	2,619.06	9.516	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,973.12	6,825.61	2,941.82	2,628.58	9.392	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,852.01	10,884.00	3,626.56	3,448.96	20.419	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,900.00	10,884.00	3,626.88	3,448.28	20.308	ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	14,100.00	10,884.00	3,870.29	3,659.27	18.341	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,194.28	6,785.04	108.24	-280.18	0.279	Level 3, CC
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,194.32	6,785.04	108.24	-280.20	0.279	Level 3, 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 10N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4743.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4743.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 10N	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 API 20-414 - Wellbore #1 - Design #1	17,502.57	6,814.35	1,339.22	914.38	3.152	CC, ES
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,600.00	6,814.89	1,342.76	916.12	3.147	SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,533.31	6,763.20	2,384.83	2,068.50	7.539	CC
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,600.00	6,763.57	2,385.76	2,067.71	7.501	ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,800.00	6,764.68	2,404.71	2,082.43	7.462	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	13,980.05	6,757.69	1,693.56	1,367.03	5.186	CC
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,030.78	6,757.97	1,694.77	1,366.18	5.158	ES
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,200.00	6,758.93	1,710.37	1,376.34	5.120	SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,001.53	6,780.39	2,526.91	2,171.01	7.100	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,100.00	6,780.94	2,528.83	2,170.47	7.057	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,300.00	6,782.05	2,544.48	2,182.29	7.025	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,414.68	6,710.52	959.58	780.23	5.350	CC, ES
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,500.00	6,712.11	963.36	782.50	5.326	SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,878.70	5,939.81	1,219.30	1,077.12	8.575	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,900.00	5,961.11	1,219.61	1,076.97	8.551	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,000.00	6,060.53	1,229.04	1,084.45	8.500	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,878.70	5,921.81	2,060.45	1,905.19	13.271	CC
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,900.00	5,943.11	2,060.70	1,905.00	13.236	ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,050.00	6,091.48	2,076.65	1,918.27	13.111	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,754.68	5,797.90	1,139.58	1,084.57	20.716	CC, ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,878.70	5,926.04	1,139.93	1,084.84	20.692	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,878.70	5,914.81	2,206.50	2,041.80	13.397	CC
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,900.00	5,936.11	2,206.74	2,041.60	13.363	ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,050.00	6,084.48	2,221.95	2,054.12	13.239	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,432.37	6,772.64	3,614.04	3,300.19	11.515	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,500.00	6,773.01	3,614.68	3,299.05	11.452	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,900.00	6,775.24	3,656.75	3,332.00	11.260	SF
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Des	6,878.70	5,933.81	3,001.28	2,832.19	17.500	CC
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Des	6,900.00	5,955.11	3,001.45	2,831.93	17.705	ES
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Des	7,200.00	6,244.44	3,039.99	2,865.64	17.436	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	8,813.49	6,684.40	679.80	473.97	3.303	CC, ES, SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,282.80	6,767.75	3,889.37	3,739.75	25.995	CC
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,400.00	6,768.97	3,891.13	3,738.56	25.503	ES
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	13,500.00	6,779.20	4,075.36	3,902.20	23.535	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,650.79	6,739.77	562.76	297.23	2.119	ES, SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,656.09	6,739.80	562.74	297.33	2.120	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,235.24	6,726.09	569.66	335.83	2.436	CC, ES, SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	10,181.32	6,726.80	1,863.69	1,631.04	8.011	CC
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	10,200.00	6,726.90	1,863.79	1,630.76	7.998	ES
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	10,400.00	6,727.98	1,876.48	1,639.99	7.935	SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,882.76	5,940.76	2,528.36	2,466.30	40.738	CC, ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,900.00	5,955.69	2,528.39	2,466.32	40.736	SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,878.70	5,932.81	1,293.88	1,143.24	8.589	CC
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,900.00	5,954.11	1,294.17	1,143.09	8.566	ES
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,000.00	6,053.53	1,303.45	1,150.46	8.520	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,739.15	5,769.14	2,213.19	2,157.16	39.499	CC, ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,878.70	5,917.06	2,214.30	2,158.20	39.472	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,390.87	6,424.43	3,365.48	3,175.83	17.746	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,450.00	6,467.42	3,365.72	3,175.31	17.676	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,850.00	6,654.58	3,387.79	3,193.43	17.430	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,878.70	5,939.81	4,186.89	4,012.58	24.020	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,900.00	5,961.11	4,187.01	4,012.27	23.961	ES

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 10N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4743.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4743.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 10N	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 HERBST, CONRAD #1 - Wellbore #1 - Des	7,350.00	6,377.82	4,247.37	4,065.73	23.383	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,540.15	6,781.28	1,234.40	943.51	4.244	CC, ES
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,600.00	6,781.22	1,235.85	943.83	4.232	SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,732.72	6,796.46	3,021.95	2,646.01	8.038	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,000.00	6,797.95	3,025.08	2,642.99	7.917	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,100.00	6,798.51	3,030.69	2,646.82	7.895	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,882.27	6,802.73	3,794.76	3,441.51	10.742	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,000.00	6,803.39	3,796.58	3,440.28	10.655	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,500.00	6,806.17	3,844.71	3,478.01	10.485	SF
EXIST VERT JOHNSON #22-4 - Wellbore #1 - Wellbor	6,900.00	5,956.97	1,313.64	1,252.23	21.393	SF
EXIST VERT JOHNSON #22-4 - Wellbore #1 - Wellbor	6,902.14	5,959.09	1,313.64	1,252.23	21.393	CC, ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,775.57	6,765.45	2,027.56	1,758.14	7.526	CC
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,800.00	6,765.59	2,027.82	1,758.05	7.517	ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,900.00	6,766.14	2,034.07	1,763.11	7.507	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,233.35	6,765.98	2,447.37	2,164.91	8.664	CC
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,300.00	6,766.35	2,448.28	2,164.15	8.617	ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,600.00	6,768.02	2,474.68	2,184.50	8.528	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,241.13	6,742.03	1,103.08	820.86	3.909	CC, ES
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,300.00	6,742.35	1,104.65	821.15	3.896	SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	6,878.70	5,945.81	4,050.34	3,869.78	22.432	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,150.00	6,210.67	4,051.98	3,866.48	21.844	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,816.19	6,637.60	4,098.60	3,905.28	21.201	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,176.86	6,713.36	110.76	-36.32	0.753	Level 3, CC, ES, SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	10,933.97	6,753.87	1,206.20	955.68	4.815	CC, ES
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,000.00	6,754.23	1,208.00	956.24	4.798	SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,790.24	2,661.85	30.18	-33.40	0.475	Level 3, CC, ES, SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,589.42	6,706.60	1,206.70	986.82	5.488	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,600.00	6,706.65	1,206.74	986.69	5.484	ES
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,700.00	6,707.19	1,211.75	990.36	5.473	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,783.49	6,672.80	2,162.42	2,089.47	29.642	CC
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,800.00	6,672.82	2,162.49	2,089.33	29.561	ES
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	9,300.00	6,673.57	2,223.25	2,144.81	28.343	SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,334.52	6,730.68	957.22	620.63	2.844	CC, ES, SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,370.56	6,762.45	985.20	619.56	2.694	CC
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,400.00	6,762.61	985.63	619.29	2.690	ES, SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,770.32	5,828.52	328.25	297.85	10.799	SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,900.00	5,958.18	323.42	293.64	10.860	ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,906.88	5,964.92	323.39	293.65	10.872	CC
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,346.10	6,669.87	3,975.81	3,776.22	19.920	CC
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,400.00	6,670.16	3,976.17	3,776.07	19.871	ES
EXIST VERT NIX #1 - Wellbore #1 - Design #1	9,400.00	6,675.57	4,113.12	3,901.07	19.398	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,615.43	6,710.74	3,847.90	3,627.41	17.452	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,700.00	6,711.19	3,848.83	3,626.73	17.330	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	10,600.00	6,716.06	3,971.86	3,733.96	16.695	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #1	17,973.12	6,838.00	690.29	528.34	4.262	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,766.63	6,800.00	836.20	566.56	3.101	CC, ES
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,800.00	6,800.00	836.87	566.57	3.096	SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,268.33	6,833.27	1,405.57	1,339.00	21.114	CC, ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,400.00	6,833.84	1,411.73	1,344.51	21.003	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,687.06	6,745.64	1,202.31	855.46	3.466	CC
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,700.00	6,745.72	1,202.38	855.18	3.463	ES
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,800.00	6,746.27	1,207.60	858.71	3.461	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 10N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4743.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4743.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 10N	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 TODD 20-8 - Wellbore #1 - Design #1	13,629.71	6,737.73	101.96	-216.46	0.320	Level 3, CC, ES, SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	4,155.83	3,678.75	428.64	396.99	13.544	CC, ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	8,700.00	6,658.51	505.29	433.44	7.032	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	17,973.12	6,851.00	2,663.63	2,242.36	6.323	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	593.20	591.33	133.13	130.69	54.574	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	600.00	598.05	133.13	130.66	53.814	ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,121.45	1,973.90	1,380.05	3.324	SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	732.04	730.69	116.52	113.44	37.761	CC, ES
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,000.00	1,752.53	1,157.26	2.944	SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	845.91	844.78	100.29	96.70	27.886	CC, ES
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	17,973.12	17,952.53	1,534.18	938.69	2.576	SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	961.34	961.50	83.24	79.12	20.209	CC, ES
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,988.98	1,239.54	645.48	2.087	SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	1,046.62	1,046.52	68.13	63.66	15.219	CC, ES
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,909.84	1,095.48	498.31	1.834	SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	1,131.84	1,132.51	52.59	47.75	10.865	CC, ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,950.05	879.58	287.70	1.486	Level 3, SF
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	1,205.96	1,206.27	37.71	32.56	7.325	CC, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	17,973.12	17,841.50	659.18	68.19	1.115	Level 3, SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	1,264.35	1,264.19	23.85	18.46	4.424	CC
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	17,970.24	17,877.35	438.19	-156.90	0.736	Level 3, ES, SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,700.00	1,700.00	15.00	7.64	2.037	CC
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	17,971.30	18,049.69	228.53	-150.11	0.604	Level 3, ES, SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,600.00	1,600.00	15.00	8.08	2.169	CC
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,999.29	230.00	-138.67	0.624	Level 3, ES, SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,500.00	1,500.00	30.00	23.54	4.640	CC
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,951.46	438.19	-117.98	0.788	Level 3, ES, SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,400.00	1,400.00	45.01	38.99	7.480	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,996.48	660.99	77.43	1.133	Level 3, SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,300.00	1,300.00	60.03	54.47	10.783	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	17,956.69	876.61	276.83	1.462	Level 3, SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	1,200.00	1,199.00	74.99	69.88	14.659	CC, ES
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	17,973.12	17,947.14	1,096.61	498.11	1.832	SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,099.00	89.99	85.33	19.286	CC, ES
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,062.11	1,316.44	719.23	2.204	SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	999.00	104.95	100.73	24.889	CC, ES
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,032.55	1,533.64	935.40	2.564	SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	900.00	899.00	119.96	116.19	31.844	CC, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,133.59	1,754.13	1,157.77	2.941	SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	800.00	798.00	134.96	131.65	40.709	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	17,973.12	18,103.37	1,972.38	1,375.11	3.302	SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	700.00	698.00	149.99	147.13	52.339	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,244.39	2,191.88	1,596.25	3.680	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	598.00	164.95	162.53	68.266	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,237.06	2,410.01	1,814.59	4.048	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	497.00	179.99	178.02	91.621	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,293.71	2,629.11	2,033.72	4.416	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	397.00	194.94	193.43	128.681	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,420.45	2,848.93	2,254.55	4.793	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	296.00	209.93	208.86	197.458	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	17,973.12	18,453.40	3,067.29	2,473.76	5.168	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 10N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4743.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4743.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 10N	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	11,732.91	6,674.59	1,439.04	1,305.00	10.736	CC
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	11,800.00	6,676.23	1,440.18	1,303.59	10.543	ES
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	12,100.00	6,683.46	1,464.29	1,320.13	10.157	SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	10,927.47	6,719.83	1,125.35	875.68	4.507	CC, ES
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	11,000.00	6,720.23	1,127.69	876.36	4.487	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,800.00	18,747.23	2,430.93	2,066.07	6.663	ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	17,973.12	8,585.74	2,425.26	2,080.89	7.043	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	7,800.00	18,921.99	2,285.70	1,918.18	6.219	SF
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	17,973.12	8,756.60	2,205.31	1,858.25	6.354	CC, ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	4,442.14	3,558.45	1,884.53	1,842.89	45.259	CC
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	4,500.00	3,603.51	1,884.83	1,842.04	44.050	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,816.19	6,750.98	2,011.00	1,932.61	25.652	SF
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,586.10	8,559.91	134.91	99.27	3.786	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,600.00	8,560.26	135.75	97.95	3.591	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,650.00	8,561.54	151.80	104.39	3.202	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	2,436.38	2,372.37	1,196.61	1,142.83	22.249	CC
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	2,500.00	2,427.05	1,197.05	1,141.65	21.607	ES
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,700.00	6,695.19	1,389.43	1,167.70	6.266	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	3,811.99	3,450.42	2,107.46	2,080.91	79.391	CC
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	3,900.00	3,514.78	2,108.31	2,080.47	75.711	ES
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	9,400.00	6,665.43	2,263.61	2,181.84	27.685	SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	4,666.83	4,100.76	1,293.82	1,254.31	32.746	CC
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	4,700.00	4,125.28	1,294.00	1,254.01	32.360	ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,500.00	6,662.08	1,355.96	1,286.92	19.640	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 Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	35.81	35.81	0.00	0.04	-119.04	-3,251.53	-5,855.35	6,697.58						
100.00	100.00	135.29	135.29	0.09	0.15	-119.04	-3,251.57	-5,855.34	6,697.59	6,697.35	0.24		N/A		
200.00	200.00	1,525.14	1,504.68	0.31	4.41	-117.92	-3,074.43	-5,802.51	6,688.10	6,683.77	4.34	1,542.410			
300.00	300.00	1,589.00	1,566.12	0.54	4.72	-117.80	-3,057.57	-5,798.18	6,669.39	6,664.66	4.74	1,407.666			
400.00	400.00	1,674.00	1,648.03	0.76	5.10	-117.66	-3,035.58	-5,792.49	6,651.07	6,645.83	5.24	1,269.969			
500.00	500.00	1,792.37	1,762.17	0.99	5.67	-117.46	-3,005.45	-5,783.81	6,632.40	6,626.50	5.90	1,124.071			
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-117.37	-2,991.93	-5,780.30	6,614.28	6,607.96	6.32	1,046.683			
700.00	700.00	1,917.39	1,882.76	1.44	6.27	-117.24	-2,973.44	-5,775.84	6,596.72	6,589.90	6.82	967.239			
800.00	800.00	2,082.39	2,042.18	1.66	7.06	-116.96	-2,932.55	-5,764.25	6,578.85	6,571.16	7.69	855.968			
900.00	900.00	2,239.61	2,193.78	1.88	7.86	-116.70	-2,892.83	-5,751.64	6,559.86	6,551.31	8.55	767.212			
1,000.00	1,000.00	2,333.11	2,283.66	2.11	8.35	-116.53	-2,868.11	-5,744.35	6,540.66	6,531.50	9.17	713.572			
1,100.00	1,100.00	2,417.02	2,364.36	2.33	8.78	-116.38	-2,846.06	-5,737.93	6,521.72	6,511.98	9.74	669.480			
1,200.00	1,200.00	2,514.85	2,458.38	2.56	9.28	-116.20	-2,819.97	-5,730.76	6,502.93	6,492.55	10.38	626.325			
1,300.00	1,300.00	2,676.71	2,613.60	2.78	10.15	-115.90	-2,776.01	-5,717.63	6,483.04	6,471.73	11.31	573.143			
1,400.00	1,400.00	2,799.47	2,730.95	3.01	10.83	-115.65	-2,741.26	-5,708.11	6,463.27	6,451.18	12.10	534.333			
1,500.00	1,500.00	2,878.48	2,806.45	3.23	11.26	-115.49	-2,718.80	-5,701.90	6,443.41	6,430.73	12.69	507.955			
1,600.00	1,600.00	2,957.00	2,881.49	3.46	11.69	-115.33	-2,696.54	-5,695.74	6,423.71	6,410.44	13.27	483.994			
1,700.00	1,700.00	3,000.21	2,922.83	3.68	11.93	-115.25	-2,684.37	-5,692.57	6,404.67	6,390.97	13.70	467.343			
1,800.00	1,799.92	3,042.00	2,962.93	3.89	12.15	-147.23	-2,672.91	-5,689.89	6,389.54	6,375.43	14.11	452.767			

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