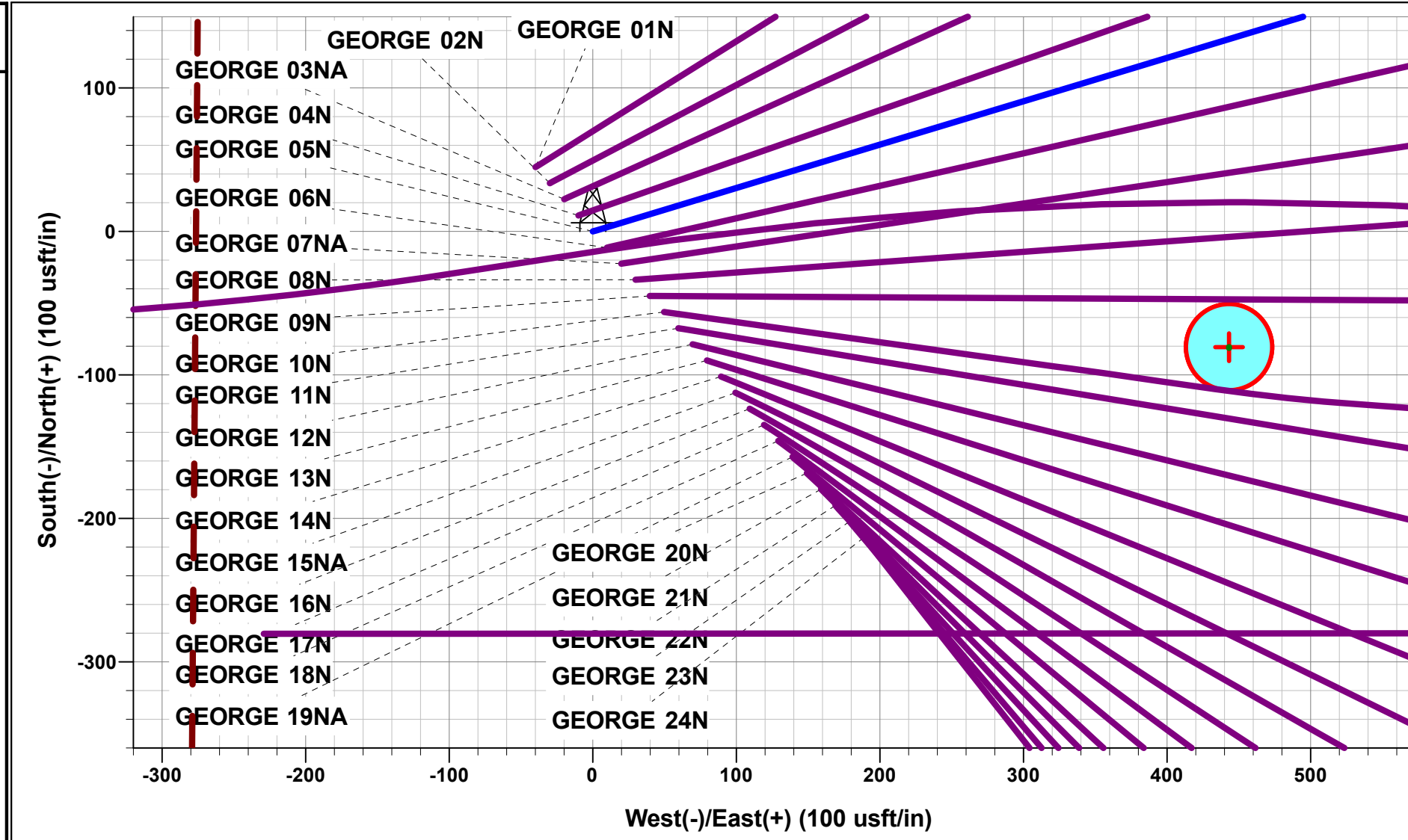




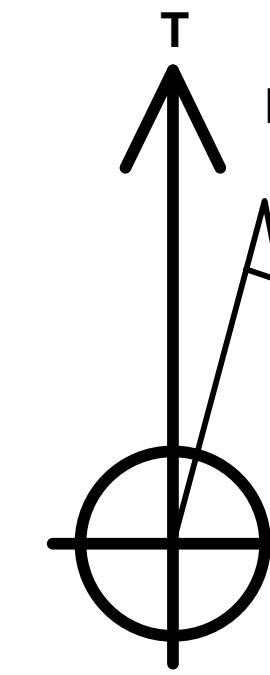
Project: WELD COUNTY, COLORADO (TRUE)
 Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
 Well: GEORGE 05N
 Wellbore: ORIGINAL WELLBORE
 Design: PROPOSAL #1

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	V Sect	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1816ft FNL & 2356ft FEL of Sec 21
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	START NUDDGE (3°/100ft BUR)
1874.33	35.23	73.17	1801.72	101.27	334.82	-322.84	349.80	EOB TO 35.23° INC
5542.57	35.23	73.17	4798.10	713.91	2360.26	-2275.82	2465.86	END OF TANGENT
6716.91	0.00	0.00	5899.82	815.18	2695.08	-2598.66	2815.67	EOD TO VERTICAL
6816.91	0.00	0.00	5999.82	815.18	2695.08	-2598.66	2815.67	KOP (8°/100ft BUR)
7754.40	75.00	269.99	6691.61	815.09	2164.25	-2070.57	3346.50	EP: 996ft FNL & 200ft FEL of Sec 21
7937.65	89.66	269.99	6716.00	815.06	1983.14	-1890.39	3527.61	HZ LANDING POINT
14380.40	89.66	269.99	6754.23	813.97	-4459.50	4519.01	9970.25	END OF TANGENT
14454.91	89.66	268.50	6754.67	812.98	-4534.00	4593.03	10044.76	EOT TO 268.5° AZ
14554.91	89.66	268.50	6755.26	810.37	-4633.97	4692.21	10144.76	END OF TANGENT
14629.41	89.66	269.99	6755.70	809.39	-4708.46	4766.22	10219.25	EOT TO 269.99° AZ
14702.41	89.65	271.45	6756.14	810.30	-4781.45	4838.93	10292.25	EOT TO 271.45° AZ
14802.41	89.65	271.45	6756.74	812.83	-4881.41	4938.64	10392.25	END OF TANGENT
14875.41	89.65	269.99	6757.18	813.75	-4954.40	5011.34	10465.25	EOT TO 269.99° AZ
17909.84	89.64	269.99	6776.00	813.26	-7988.78	8030.07	13499.62	BHL: 997ft FNL & 200ft FWL of Sec 20



PROPOSED LOCAL COORDINATES:
 SHL: 1816ft FNL & 2356ft FEL of Sec 21
 EP: 996ft FNL & 200ft FEL of Sec 21
 BHL: 997ft FNL & 200ft FWL of Sec 20

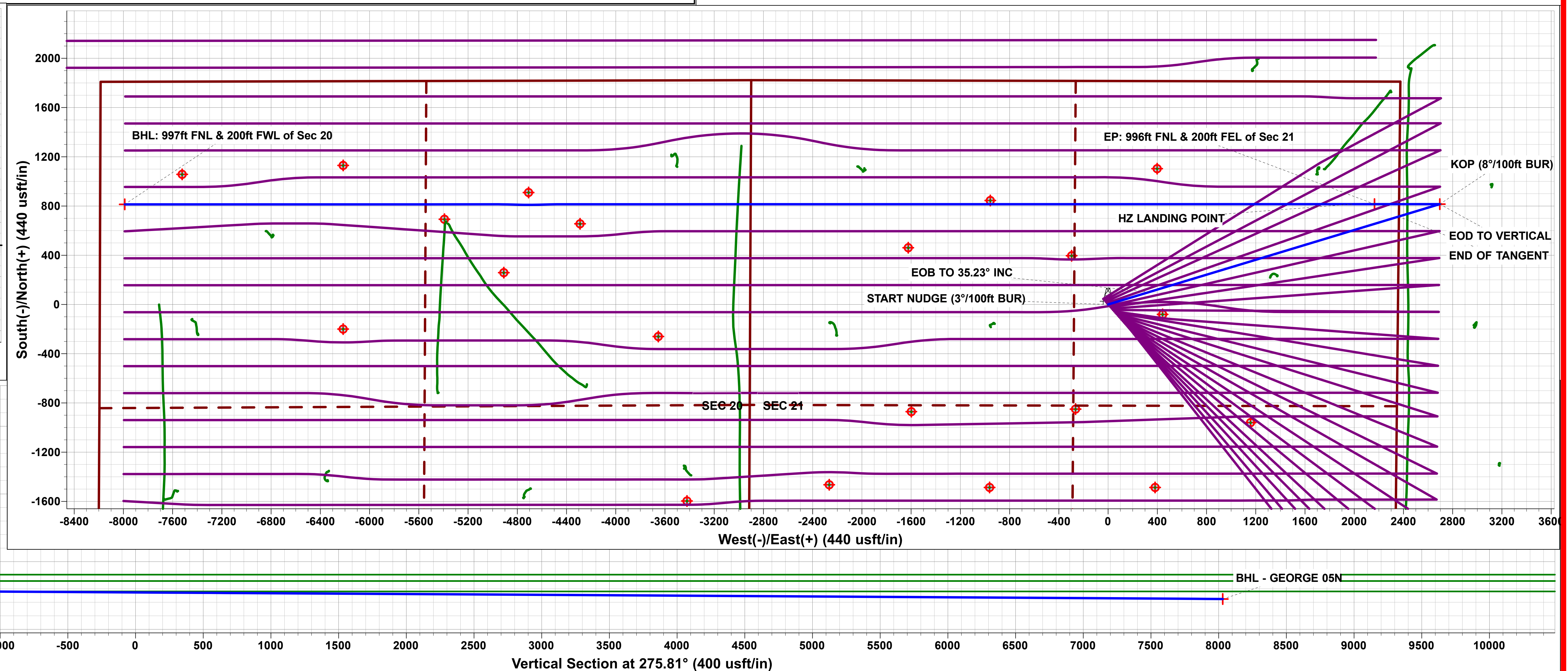
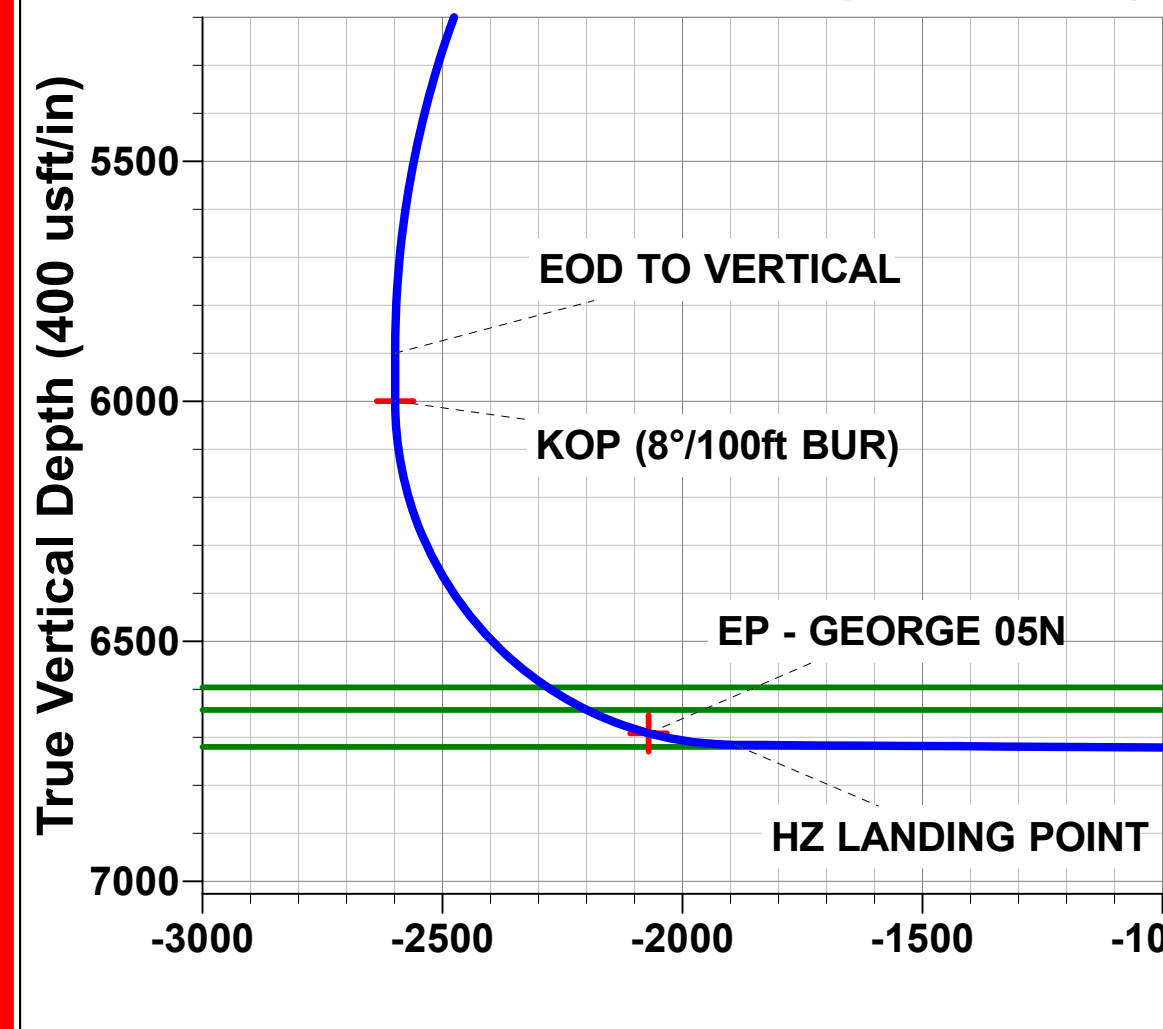
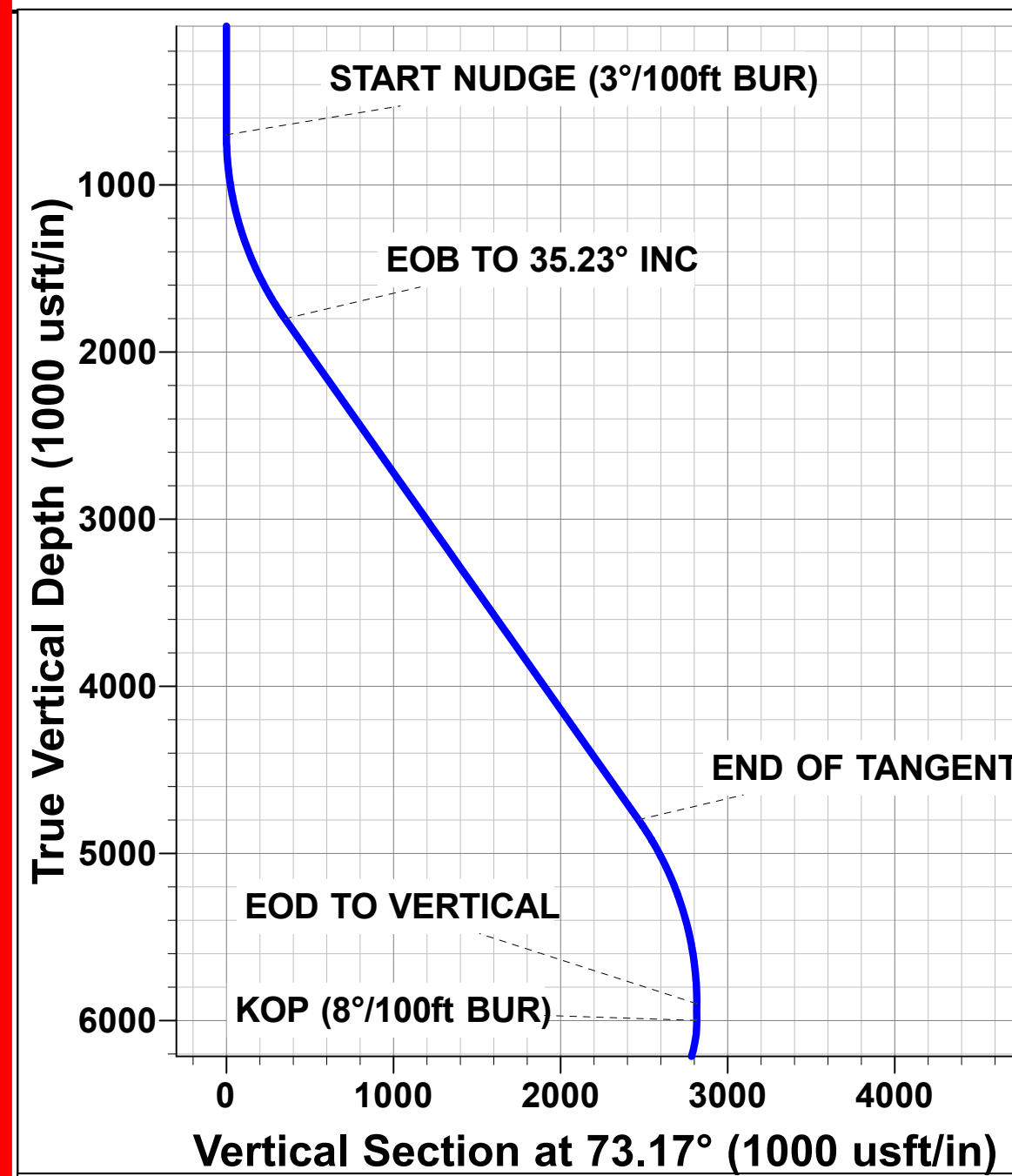


Azimuths to True North
 Magnetic North: 7.74°

Magnetic Field
 Strength: 51929.7nT
 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 05N	6776.00	813.26	-7988.78	1354330.35	3255648.14	40.302410	-104.583391
EP - GEORGE 05N	6691.61	815.09	2164.25	1354440.40	3265800.14	40.302418	-104.546990
KOP - GEORGE 05N	5999.82	815.18	2695.08	1354446.15	3266330.92	40.302418	-104.545087



PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
GEORGE 05N**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 May, 2021

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 05N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 05N	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	17,909.84	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 #	15,393.14	6,997.11	2,918.14	2,673.42	11.925	CC
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,500.00	6,996.08	2,920.09	2,672.33	11.786	ES
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,900.00	6,992.21	2,961.82	2,705.52	11.556	SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	4,303.65	2,529.00	4,733.74	4,692.85	115.761	CC
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	5,300.00	3,604.07	4,737.72	4,679.61	81.537	ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,900.00	6,125.97	4,782.49	4,706.78	63.172	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,661.73	1,483.40	3,997.47	3,979.79	226.137	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,800.00	1,573.68	3,998.45	3,979.02	205.746	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,850.00	6,066.99	4,257.60	4,193.24	66.156	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	730.18	762.71	3,674.26	3,671.91	1,561.618	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	12,900.00	6,826.41	4,432.14	4,255.52	25.095	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	2,374.76	2,216.73	3,152.88	3,134.62	172.581	CC
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	2,500.00	2,309.64	3,153.85	3,133.80	157.297	ES
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	10,100.00	6,748.71	4,226.94	4,127.15	42.356	SF
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,619.58	6,746.79	2,306.61	2,098.14	11.064	CC
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,629.41	6,746.84	2,306.65	2,097.91	11.050	ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,900.00	6,748.33	2,328.90	2,114.41	10.858	SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,342.59	6,742.07	2,411.13	2,103.41	7.835	CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,400.00	6,742.41	2,411.81	2,102.54	7.798	ES
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,700.00	6,744.19	2,437.47	2,121.86	7.723	SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,486.38	6,829.13	3,613.68	3,327.29	12.618	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,600.00	6,830.53	3,615.47	3,326.08	12.493	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,909.84	6,834.36	3,638.41	3,342.44	12.293	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	17,909.84	6,855.95	913.99	834.65	11.521	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,216.81	6,706.53	418.78	189.70	1.828	CC, ES, SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,544.24	6,726.40	353.29	92.34	1.354	Level 3, CC, ES, SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	700.00	716.00	4,237.65	4,222.14	273.083	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	800.00	815.95	4,238.97	4,221.21	238.800	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	12,500.00	6,759.07	5,195.68	4,915.79	18.563	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,252.99	6,784.52	2,167.56	1,915.02	8.583	CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,300.00	6,784.97	2,168.07	1,914.28	8.543	ES
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,500.00	6,786.90	2,181.59	1,924.01	8.470	SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,858.95	6,826.43	4,460.71	4,056.43	11.034	CC
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,000.00	6,827.31	4,462.94	4,054.88	10.937	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,600.00	6,831.06	4,521.84	4,101.11	10.748	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	507.94	481.94	2,828.06	2,826.66	2,024.542	CC

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 05N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 05N	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 Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	700.00	670.06	2,828.20	2,826.29	1,479.320	ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	11,300.00	6,640.35	4,035.59	3,922.60	35.714	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	700.00	717.00	2,984.98	2,969.50	192.857	CC
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	800.00	816.95	2,986.51	2,968.80	168.625	ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,800.00	6,755.92	3,746.42	3,481.12	14.122	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	934.20			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	10,900.00	6,702.64	987.75	875.67	8.813	ES
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,000.00	6,702.67	994.75	880.44	8.702	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,135.56	6,777.94	316.12	-67.04	0.825	Level 3, CC, ES, SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,365.18	6,826.59	934.77	651.52	3.300	CC
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,400.00	6,826.41	935.42	651.43	3.294	ES, SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,469.07	6,703.52	396.09	218.09	2.225	CC, ES, SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,819.72	6,752.85	554.65	207.33	1.597	CC, ES, SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,604.02	6,839.08	4,943.07	4,518.10	11.631	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,700.00	6,839.68	4,944.01	4,516.42	11.563	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,909.84	6,841.00	4,952.53	4,519.64	11.441	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	17,909.84	6,868.41	2,363.29	2,088.37	8.596	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,459.48	4,554.00	5,443.89	5,103.96	16.015	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,600.00	4,554.00	5,445.70	5,102.30	15.858	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,909.84	4,554.00	5,462.49	5,112.04	15.587	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,821.10	7,086.28	3,029.41	2,737.88	10.392	CC
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,900.00	7,086.91	3,030.43	2,737.23	10.336	ES
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,200.00	7,089.31	3,053.01	2,755.27	10.254	SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	0.00	7.95	3,687.24			
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	700.00	703.57	3,687.66	3,685.45	1,662.738	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	12,100.00	6,756.39	4,756.72	4,613.17	33.137	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,776.00	6,898.62	4,183.42	4,007.57	23.790	CC
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,900.00	6,901.02	4,185.26	4,006.31	23.388	ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	14,000.00	6,953.01	4,358.64	4,159.26	21.860	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,161.44	6,894.35	4,139.85	3,926.66	19.419	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,300.00	6,894.25	4,142.17	3,925.10	19.082	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	15,200.00	6,893.70	4,267.98	4,031.98	18.084	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,364.91	6,997.49	1,532.79	1,289.28	6.295	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,400.00	6,997.29	1,533.19	1,288.70	6.271	ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,500.00	6,996.75	1,538.73	1,292.12	6.239	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,157.51	7,146.05	1,476.47	1,255.97	6.696	CC, ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,200.00	7,145.55	1,477.08	1,256.03	6.682	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	1,516.73	1,310.52	3,252.24	3,244.72	432.124	CC
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	1,600.00	1,365.58	3,252.50	3,244.14	388.676	ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	11,300.00	6,835.21	4,963.35	4,835.32	38.766	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	12,928.19	10,394.62	40.79	-40.38	0.503	Level 3, CC, ES, SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,634.39	10,175.00	913.51	642.15	3.366	CC, ES
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,700.00	10,175.00	915.86	643.52	3.363	SF
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,613.63	6,826.69	4,021.91	3,719.88	13.316	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,700.00	6,826.80	4,022.84	3,718.48	13.218	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,909.84	6,827.08	4,032.80	3,723.42	13.035	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,796.97	10,884.00	4,802.80	4,629.81	27.764	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,900.00	10,884.00	4,803.91	4,628.56	27.397	ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	15,100.00	10,884.00	5,326.27	5,093.84	22.915	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,136.11	6,788.95	1,013.60	629.78	2.641	CC, ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,200.00	6,789.34	1,015.61	630.58	2.638	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,443.76	6,819.08	243.82	-175.54	0.581	Level 3, CC, ES, SF

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 05N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 05N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,478.52	6,765.88	3,561.20	3,249.43	11.423	CC
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,600.00	6,766.60	3,563.27	3,248.26	11.312	ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	14,200.00	6,770.16	3,633.54	3,305.96	11.092	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,131.06	6,761.75	2,836.02	2,506.90	8.617	CC
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,200.00	6,762.16	2,836.85	2,505.88	8.571	ES
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,554.91	6,764.26	2,863.98	2,525.47	8.460	SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	14,943.25	6,783.60	3,633.42	3,282.15	10.344	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,000.00	6,783.95	3,633.87	3,281.06	10.300	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,600.00	6,787.64	3,692.30	3,326.79	10.102	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,359.56	6,684.13	2,135.55	1,960.87	12.226	CC
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,400.00	6,684.86	2,135.93	1,960.15	12.151	ES
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,700.00	6,690.33	2,162.51	1,980.65	11.891	SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,816.91	5,939.82	1,868.15	1,690.99	10.545	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,850.00	5,972.90	1,868.62	1,690.79	10.508	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,000.00	6,120.93	1,882.53	1,702.03	10.430	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,816.91	5,921.82	2,855.05	2,677.12	16.046	CC
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,850.00	5,954.90	2,855.49	2,676.88	15.988	ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,100.00	6,197.60	2,886.79	2,703.90	15.784	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	5,907.93	5,036.77	2,168.87	2,108.56	35.958	CC
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,000.00	5,124.77	2,169.14	2,108.17	35.574	ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,850.00	5,957.20	2,176.11	2,112.77	34.356	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,816.91	5,914.82	1,692.50	1,552.42	12.083	CC, ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,000.00	6,095.93	1,715.28	1,571.46	11.926	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design #1	13,377.36	6,775.28	4,790.39	4,481.11	15.489	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design #1	13,500.00	6,776.01	4,791.96	4,479.40	15.331	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design #1	14,600.00	6,782.52	4,939.69	4,603.58	14.697	SF
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Design #1	6,816.91	5,933.82	3,962.97	3,782.49	21.959	CC
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Design #1	6,850.00	5,966.90	3,963.28	3,782.13	21.879	ES
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Design #1	7,300.00	6,381.11	4,028.96	3,840.60	21.389	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,707.16	2,446.01	1,253.72	1,186.16	18.558	CC
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,800.00	2,521.85	1,254.86	1,184.59	17.858	ES
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	9,000.00	6,686.30	1,790.28	1,584.11	8.684	SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	0.00	38.56	4,900.92			
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	14,200.00	6,781.77	5,435.90	5,251.52	29.482	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design #1	11,519.45	6,741.26	1,685.20	1,424.49	6.464	CC
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design #1	11,600.00	6,741.73	1,687.12	1,424.28	6.419	ES
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design #1	11,700.00	6,742.33	1,694.84	1,429.80	6.395	SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design #1	700.00	698.00	890.12	874.99	58.814	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design #1	800.00	797.95	891.59	874.22	51.335	ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design #1	10,400.00	6,728.61	1,678.51	1,444.57	7.175	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design #1	700.00	699.00	2,154.28	2,139.13	142.246	CC
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design #1	800.00	798.95	2,155.28	2,137.90	124.022	ES
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design #1	10,800.00	6,731.99	3,033.40	2,791.47	12.538	SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	4,858.11	4,199.18	3,535.13	3,487.29	73.893	CC
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	5,000.00	4,301.75	3,536.31	3,486.61	71.158	ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,850.00	5,965.25	3,617.06	3,554.84	58.129	SF
EXIST VERT HERBST 22-6I4 - Wellbore #1 - Design #1	6,816.91	5,932.82	1,350.76	1,186.56	8.226	CC, ES
EXIST VERT HERBST 22-6I4 - Wellbore #1 - Design #1	6,950.00	6,065.15	1,361.69	1,194.98	8.168	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,122.53	5,236.01	3,234.55	3,172.82	52.400	CC
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,200.00	5,300.00	3,234.90	3,172.78	52.077	ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,816.91	5,914.78	3,241.42	3,178.00	51.108	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	3,601.98	3,167.94	4,215.18	4,121.55	45.017	CC

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 05N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 05N	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 C27-30 - Wellbore #1 - Design #1	4,000.00	3,493.06	4,221.43	4,116.12	40.086	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	8,500.00	6,674.34	4,590.68	4,391.09	23.000	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,816.91	5,939.82	5,208.63	5,027.56	28.766	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,850.00	5,972.90	5,208.86	5,027.12	28.661	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,500.00	6,523.96	5,310.22	5,118.70	27.726	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,480.92	6,790.14	2,329.78	2,043.66	8.143	CC
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,500.00	6,790.13	2,329.85	2,043.22	8.128	ES
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,700.00	6,790.02	2,340.05	2,049.29	8.048	SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,674.32	6,800.09	4,128.59	3,757.34	11.121	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,800.00	6,800.87	4,130.50	3,755.89	11.026	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,400.00	6,804.58	4,191.88	3,804.60	10.824	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,701.11	6,805.13	4,899.27	4,554.10	14.194	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,000.00	6,806.95	4,904.41	4,551.09	13.881	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,900.00	6,812.49	5,018.02	4,645.62	13.475	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,823.13	5,931.30	447.77	425.35	19.972	CC, ES, SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	700.00	729.00	2,785.49	2,769.74	176.858	CC
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	800.00	828.95	2,787.48	2,769.50	155.006	ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	12,100.00	6,769.70	3,223.37	2,949.55	11.772	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	700.00	727.00	3,603.57	3,587.90	229.829	CC
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,300.00	6,768.89	3,625.54	3,344.47	12.899	ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	13,000.00	6,773.04	3,715.44	3,419.49	12.554	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,186.56	6,744.21	2,279.21	2,001.57	8.209	CC
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,200.00	6,744.29	2,279.25	2,001.24	8.198	ES
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,500.00	6,746.07	2,300.66	2,015.80	8.076	SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	3,724.80	3,259.26	4,950.59	4,853.54	51.008	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	4,200.00	3,647.43	4,958.18	4,847.18	44.669	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	8,700.00	6,666.52	5,377.20	5,175.74	26.691	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,122.77	6,711.65	1,065.35	922.88	7.478	CC, ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,200.00	6,712.08	1,068.14	923.75	7.397	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	700.00	722.00	1,771.24	1,755.61	113.332	CC
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	800.00	821.95	1,773.23	1,755.37	99.273	ES
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,300.00	6,757.95	2,338.70	2,083.94	9.180	SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,962.96	1,848.12	205.49	159.39	4.457	CC, ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	9,600.00	6,699.87	903.73	686.95	4.169	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	700.00	682.00	1,535.10	1,520.28	103.572	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	1,200.00	1,176.31	1,539.23	1,513.08	58.863	ES
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	10,000.00	6,710.24	2,347.28	2,122.67	10.451	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	2,092.09	1,970.86	2,671.85	2,660.06	226.707	CC
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	2,200.00	2,062.00	2,672.49	2,659.32	203.038	ES
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	10,300.00	6,665.09	3,614.40	3,522.04	39.135	SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,211.04	6,733.23	158.35	-171.07	0.481	Level 3, CC, ES, SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,312.90	6,765.87	121.38	-238.16	0.338	Level 3, CC, ES, SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,321.59	5,421.98	1,010.17	947.70	16.170	CC, ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,500.00	5,575.75	1,012.92	949.90	16.073	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	1,829.77	1,717.03	4,544.06	4,502.18	108.495	CC
EXIST VERT NIX #1 - Wellbore #1 - Design #1	2,200.00	2,019.74	4,549.06	4,496.53	86.606	ES
EXIST VERT NIX #1 - Wellbore #1 - Design #1	10,300.00	6,682.02	5,452.34	5,225.36	24.021	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	700.00	686.00	4,143.44	4,128.53	277.852	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	900.00	885.63	4,145.61	4,126.23	213.950	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	11,400.00	6,722.55	5,272.51	5,020.68	20.937	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #	17,909.84	6,843.00	1,206.59	840.18	3.293	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,707.44	6,821.29	258.82	-5.72	0.978	Level 3, CC, ES, SF

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 05N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 05N	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 Offset Well - Wellbore - Design	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	3,294.35	3,100.17	2,096.71	2,069.24	76.323	CC
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	3,400.00	3,186.08	2,097.62	2,068.78	72.725	ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	9,200.00	6,833.23	2,686.12	2,610.89	35.706	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,629.39	6,748.70	100.26	-240.36	0.294	Level 3, CC, ES, SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,575.37	6,740.46	1,074.42	760.54	3.423	CC
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,600.00	6,740.60	1,074.70	760.14	3.417	ES, SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,639.19	3,187.42	154.35	122.48	4.843	CC, ES, SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	17,909.84	6,856.00	3,719.34	3,294.31	8.751	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	495.07	494.40	59.15	57.19	30.291	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	500.00	499.31	59.15	57.17	29.945	ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,121.45	880.49	298.41	1.513	SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	602.91	602.28	43.68	41.24	17.950	CC, ES
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	17,900.00	18,000.00	657.00	68.01	1.115	Level 3, SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL #	684.83	684.11	28.64	25.85	10.247	CC
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,952.53	440.49	-101.81	0.812	Level 3, ES, SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	752.49	752.67	13.87	10.77	4.482	CC
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,988.98	160.14	-121.69	0.568	Level 3, ES, SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	859.30	860.08	13.70	10.13	3.836	CC
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	16,609.58	16,646.71	170.17	-109.77	0.608	Level 3, SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,936.35	229.60	-112.84	0.670	Level 3, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL #	916.76	917.25	27.29	23.46	7.115	CC
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,837.76	441.61	-77.15	0.851	Level 3, ES, SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	968.16	968.28	40.85	36.77	10.010	CC, ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,875.84	657.30	63.46	1.107	Level 3, SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,009.77	1,010.42	54.51	50.23	12.721	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,047.34	878.42	283.90	1.478	Level 3, SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	1,046.53	1,046.63	68.13	63.66	15.219	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,968.76	1,095.47	498.41	1.835	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,079.44	1,078.94	81.78	77.13	17.590	CC
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,099.08	81.89	77.13	17.210	ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,995.01	1,316.16	720.60	2.210	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,109.88	1,108.74	95.43	90.61	19.815	CC, ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,947.14	1,533.66	937.74	2.574	SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,138.41	1,136.57	109.05	104.06	21.876	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,992.78	1,753.95	1,159.27	2.949	SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,165.17	1,162.59	122.71	117.56	23.856	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,957.14	1,971.91	1,376.60	3.312	SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL #	1,190.49	1,186.11	136.29	130.99	25.754	CC
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,195.31	136.31	130.96	25.483	ES
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	17,943.59	2,191.62	1,597.34	3.688	SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,153.03	1,145.94	151.34	146.29	29.992	CC, ES
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,062.11	2,410.92	1,817.40	4.062	SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,082.70	1,073.42	169.47	164.85	36.683	CC, ES
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,028.06	2,629.11	2,035.87	4.432	SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	982.11	972.93	189.22	185.12	46.124	CC, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,129.20	2,848.94	2,257.01	4.813	SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL #	852.65	845.93	208.32	204.80	59.185	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,103.37	3,067.74	2,475.34	5.179	SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	700.00	700.00	224.99	222.12	78.387	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,239.87	3,286.93	2,695.95	5.562	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	600.00	239.95	237.53	99.122	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,232.43	3,505.48	2,915.02	5.937	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 05N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 05N	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	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	499.00	254.99	253.02	129.504	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,289.04	3,724.58	3,134.22	6.309	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	399.00	269.94	268.42	177.662	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,415.91	3,944.11	3,354.57	6.690	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	298.00	284.93	283.86	266.875	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	17,909.84	18,448.83	4,162.76	3,574.21	7.073	SF
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	11,898.36	6,694.42	282.08	145.53	2.066	CC, ES, SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	10,877.79	6,721.45	30.17	-210.69	0.125	Level 3, CC, ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,754.40	18,744.09	1,337.67	976.27	3.701	ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	17,909.84	8,590.64	1,330.44	991.43	3.924	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	17,909.84	8,761.51	1,109.84	768.04	3.247	CC, ES, SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,450.00	6,610.13	920.94	843.25	11.854	SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,600.00	6,691.17	911.11	835.72	12.085	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,609.83	6,695.54	911.07	835.87	12.115	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,540.68	7,461.68	137.03	111.83	5.437	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,550.00	7,461.69	137.40	111.23	5.249	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,650.00	7,461.74	181.62	139.78	4.340	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,522.16	6,695.40	288.58	74.29	1.347	Level 3, CC, ES, SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,745.49	6,665.31	1,086.48	1,017.30	15.705	CC, ES, SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,200.00	6,662.23	242.96	179.15	3.808	ES, SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,222.17	6,662.04	241.94	179.30	3.862	CC

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	37.79	37.79	0.00	0.04	-119.67	-3,307.68	-5,805.61	6,681.76					
100.00	100.00	137.24	137.24	0.09	0.15	-119.67	-3,307.72	-5,805.60	6,681.76	6,681.53	0.24	N/A		
200.00	200.00	1,534.07	1,513.27	0.31	4.45	-118.54	-3,128.21	-5,752.15	6,670.77	6,666.41	4.36	1,530.142		
300.00	300.00	1,601.09	1,577.77	0.54	4.77	-118.42	-3,110.56	-5,747.64	6,651.91	6,647.14	4.77	1,394.694		
400.00	400.00	1,703.65	1,676.63	0.76	5.24	-118.25	-3,084.18	-5,740.68	6,633.39	6,628.05	5.34	1,242.935		
500.00	500.00	1,798.97	1,768.53	0.99	5.70	-118.09	-3,059.92	-5,733.60	6,614.49	6,608.58	5.91	1,119.602		
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-118.01	-3,048.08	-5,730.57	6,596.26	6,589.96	6.30	1,047.239		
700.00	700.00	1,931.00	1,895.90	1.44	6.34	-117.86	-3,026.16	-5,725.26	6,578.53	6,571.67	6.85	960.108		
800.00	799.95	2,134.40	2,092.43	1.65	7.32	169.40	-2,975.94	-5,710.27	6,562.79	6,554.95	7.85	836.517		
900.00	899.63	2,259.37	2,212.78	1.87	7.97	169.69	-2,943.77	-5,700.36	6,551.18	6,542.62	8.56	765.667		
1,000.00	998.77	2,345.68	2,295.75	2.12	8.41	169.89	-2,920.97	-5,693.63	6,544.55	6,535.42	9.13	716.744		
1,072.07	1,069.72	2,407.51	2,355.23	2.34	8.73	170.03	-2,904.73	-5,688.90	6,543.15	6,533.59	9.56	684.502		
1,100.00	1,097.08	2,431.79	2,378.56	2.43	8.85	170.08	-2,898.28	-5,687.11	6,543.36	6,533.64	9.73	672.830		
1,200.00	1,194.31	2,582.97	2,523.77	2.80	9.64	170.38	-2,857.81	-5,675.61	6,547.25	6,536.63	10.62	616.557		
1,300.00	1,290.18	2,700.00	2,635.90	3.27	10.28	170.60	-2,825.69	-5,666.08	6,555.51	6,544.10	11.41	574.675		
1,400.00	1,384.43	2,814.98	2,745.75	3.84	10.92	170.81	-2,792.97	-5,657.15	6,568.88	6,556.65	12.23	537.196		
1,500.00	1,476.81	2,897.86	2,824.98	4.52	11.37	170.93	-2,769.48	-5,650.64	6,587.44	6,574.52	12.93	509.572		
1,600.00	1,567.06	2,957.00	2,881.49	5.33	11.69	170.97	-2,752.69	-5,646.00	6,611.28	6,597.73	13.55	488.076		
1,700.00	1,654.93	3,003.15	2,925.65	6.25	11.94	170.94	-2,739.71	-5,642.63	6,640.80	6,626.67	14.13	470.050		
1,800.00	1,740.18	3,042.00	2,962.93	7.31	12.15	170.87	-2,729.06	-5,640.15	6,676.17	6,661.48	14.70	454.247		

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