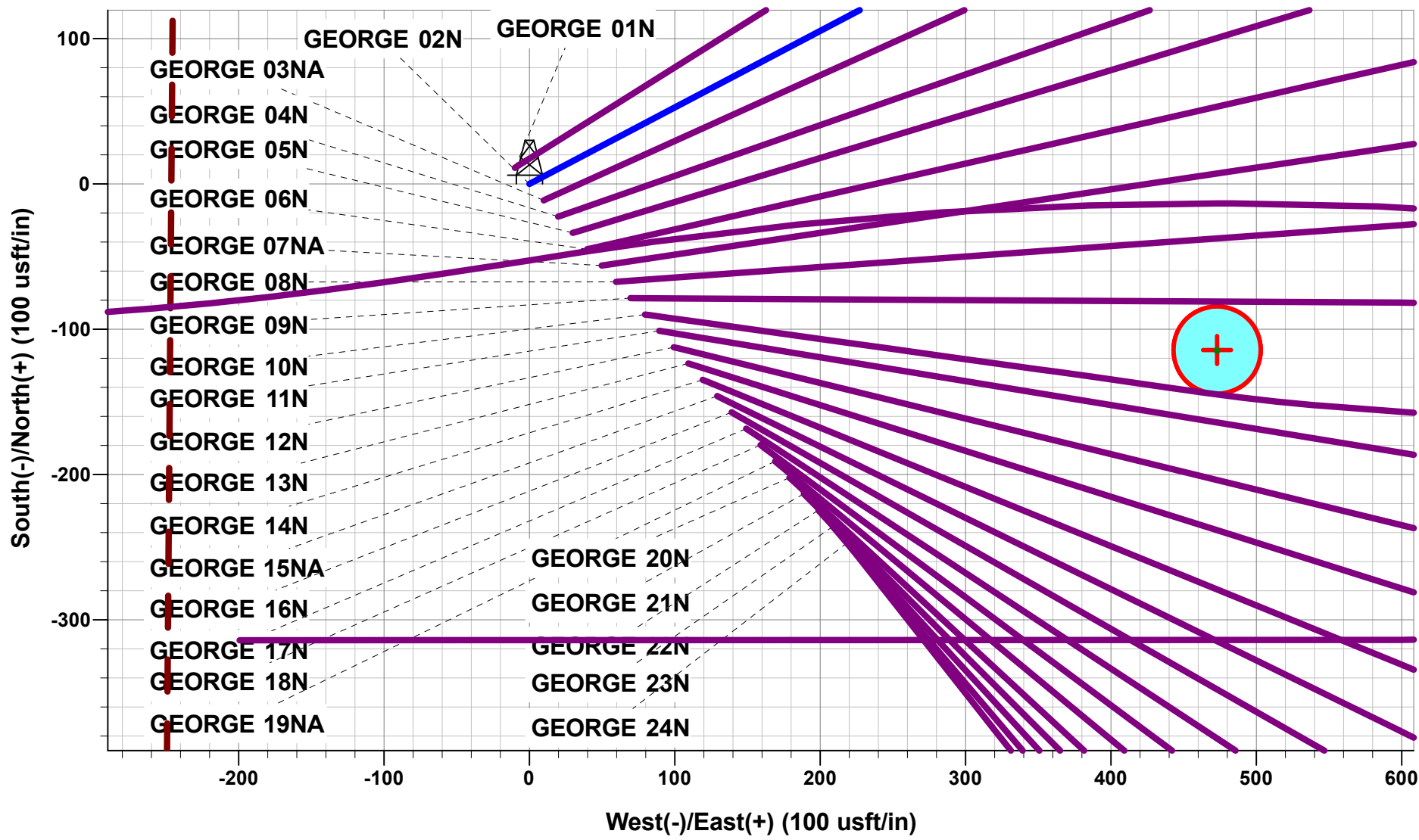




Project: WELD COUNTY, COLORADO (TRUE)
Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
Well: GEORGE 02N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

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: 1783ft FNL & 2386ft FEL of Sec 21
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	START NUDGE (3°/100ft BUR)
1599.08	35.97	62.23	1521.84	169.67	322.27	-286.99	364.21	EOB TO 35.97° INC
5615.06	35.97	62.23	4771.98	1268.62	2409.62	-2145.81	2723.17	END OF TANGENT
6814.14	0.00	0.00	5893.82	1438.29	2731.89	-2432.80	3087.38	EOD TO VERTICAL
6914.14	0.00	0.00	5993.82	1438.29	2731.89	-2432.80	3087.38	KOP (8°/100ft BUR)
7851.63	75.00	269.99	6685.62	1438.20	2201.06	-1910.44	3618.20	EP: 339ft FNL & 200ft FEL of Sec 21
8033.77	89.57	269.99	6710.00	1438.17	2021.06	-1733.31	3798.21	HZ LANDING POINT
18011.63	89.57	269.99	6785.00	1436.87	-7956.52	8085.22	13775.79	BHL: 339ft FNL & 200ft FWL of Sec 20

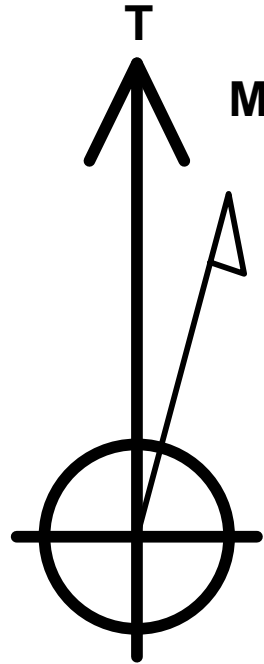


PROPOSED LOCAL COORDINATES:

SHL: 1783ft FNL & 2386ft FEL of Sec 21

EP: 339ft FNL & 200ft FEL of Sec 21

BHL: 339ft FNL & 200ft FWL of Sec 20

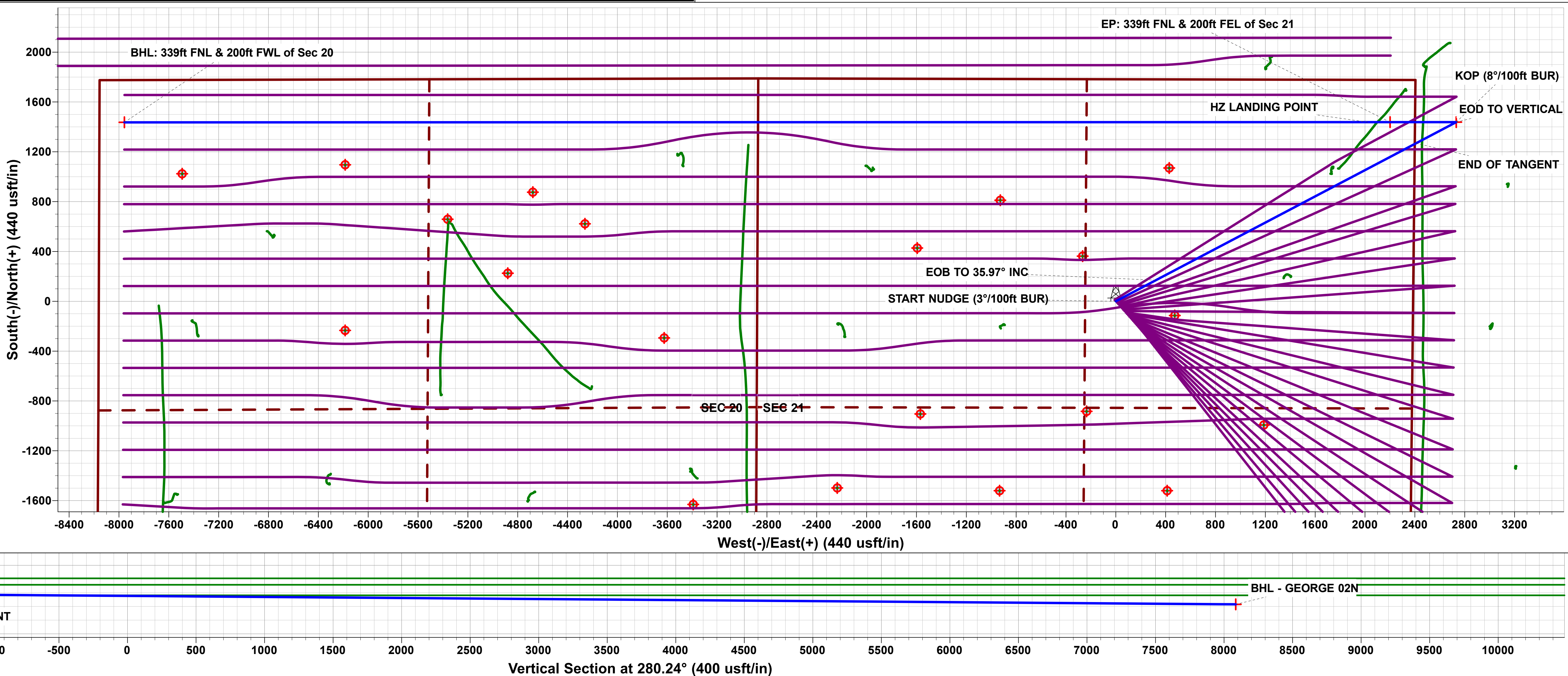
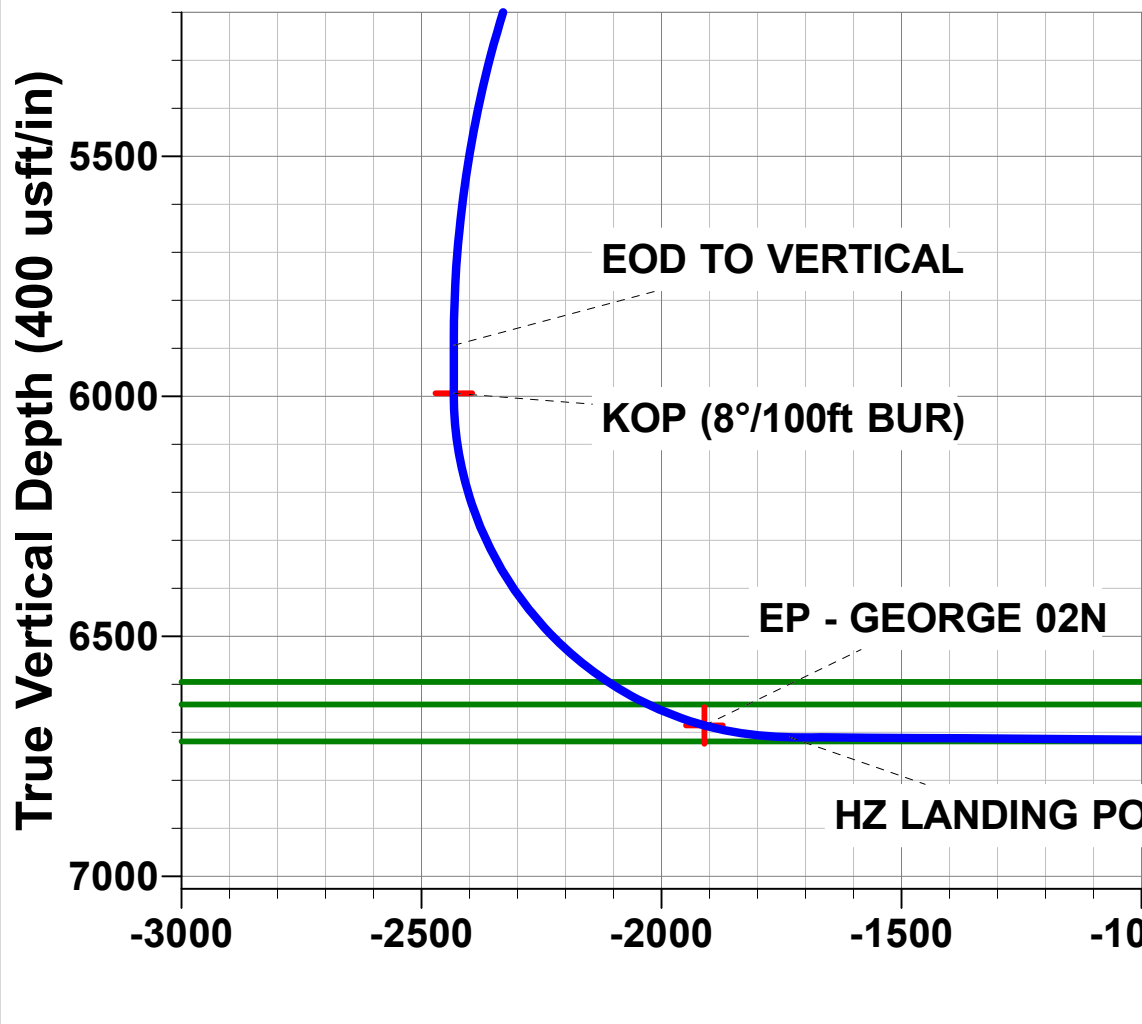
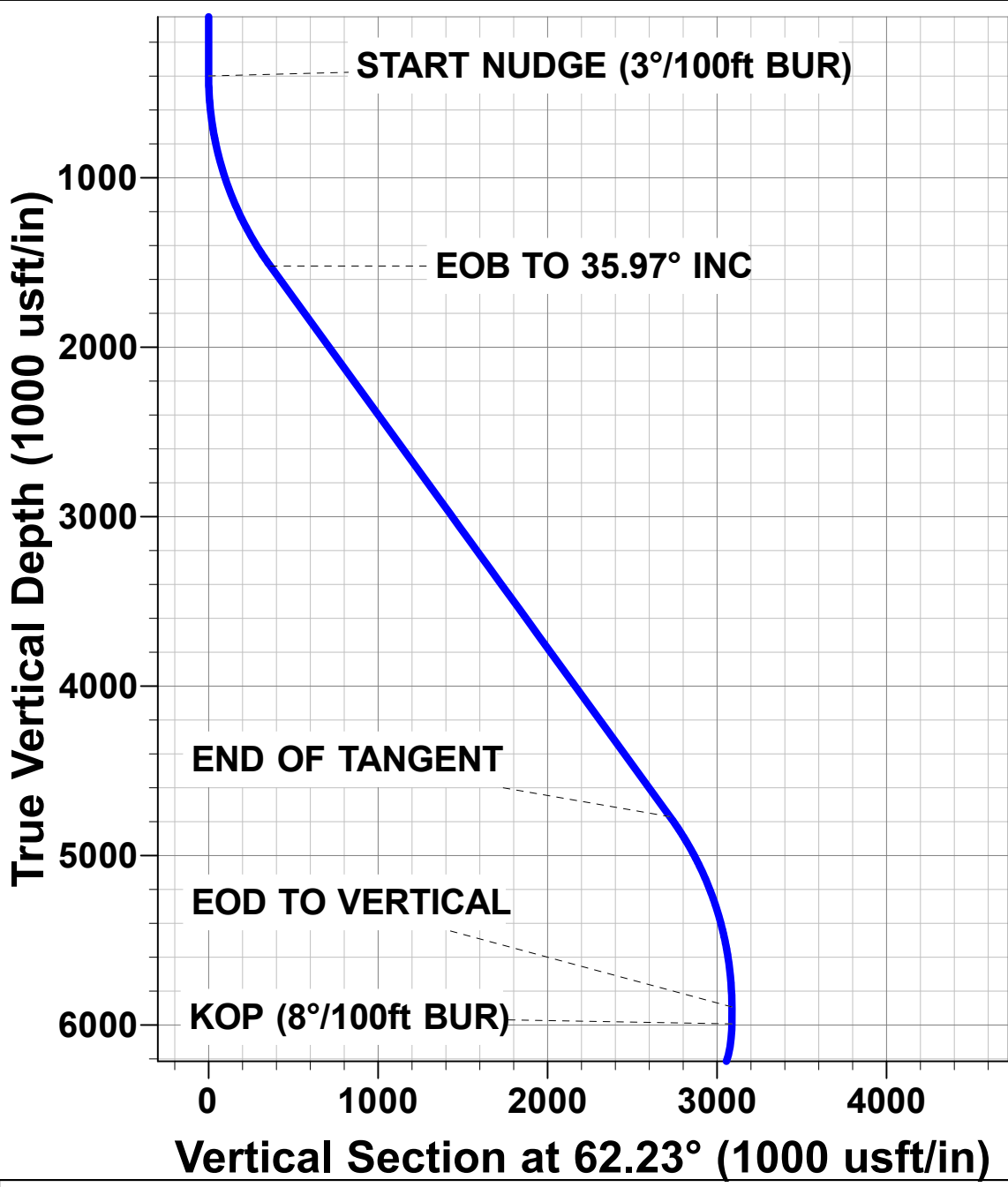


Azimuths to True North
Magnetic North: 7.74°

Magnetic Field
Strength: 51930.1nT
Dip Angle: 66.61°
Date: 2021-05-26
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - GEORGE 02N	6785.00	1436.87	-7956.52	1354987.59	3255643.58	40.304214	-104.583383
EP - GEORGE 02N	6685.62	1438.20	2201.06	1355097.18	3265800.14	40.304221	-104.546965
KOP - GEORGE 02N	5993.82	1438.29	2731.89	1355102.93	3266330.91	40.304221	-104.545061



PDC ENERGY

WELD COUNTY, COLORADO (TRUE)

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

GEORGE 02N

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

29 May, 2021

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4740.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4740.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 9,999.98usft	Error Surface:	Ellipsoid Separation
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2021-05-29		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,011.63	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 #	15,497.32	7,009.91	3,574.90	3,331.78	14.704	CC
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,600.00	7,009.09	3,576.38	3,330.31	14.534	ES
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	16,300.00	7,003.45	3,663.90	3,403.05	14.046	SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	2,918.58	1,528.57	4,951.63	4,925.60	190.181	CC
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	3,000.00	1,557.22	4,952.16	4,925.04	182.623	ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	7,000.00	6,125.18	5,358.45	5,276.41	65.316	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	1,961.49	1,200.00	4,103.47	4,090.46	315.465	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,000.00	1,200.00	4,103.65	4,090.16	304.336	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	10,300.00	6,727.54	6,207.33	6,122.07	72.803	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	412.38	435.91	3,705.67	3,704.40	2,905.917	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	13,400.00	6,800.71	5,182.99	4,999.56	28.256	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	576.53	561.28	3,263.62	3,261.84	1,830.397	CC
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	1,100.00	1,086.34	3,264.62	3,259.78	674.031	ES
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	10,900.00	6,761.09	5,140.99	5,029.31	46.033	SF
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,715.95	6,748.13	2,967.93	2,761.36	14.368	CC
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,800.00	6,748.73	2,969.12	2,760.30	14.218	ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	15,300.00	6,752.17	3,024.85	2,806.42	13.848	SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,446.98	6,745.63	3,067.91	2,761.81	10.022	CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,500.00	6,746.03	3,068.37	2,760.81	9.976	ES
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	14,000.00	6,749.78	3,117.36	2,798.79	9.786	SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,590.86	6,839.93	4,270.57	3,985.64	14.988	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,700.00	6,841.41	4,271.97	3,984.10	14.840	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	18,011.63	6,845.76	4,291.62	3,996.54	14.544	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	18,011.63	6,857.95	904.84	828.17	11.801	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	400.00	378.00	449.46	441.52	56.607	CC
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	600.00	577.63	451.14	438.70	36.274	ES
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,400.00	6,705.76	1,078.44	848.36	4.687	SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,648.61	6,727.13	1,010.07	750.69	3.894	CC
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,700.00	6,727.52	1,011.38	750.42	3.876	ES, SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	400.00	417.00	4,263.77	4,254.97	484.795	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	500.00	516.95	4,265.47	4,254.43	386.265	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	13,000.00	6,764.28	5,945.22	5,657.76	20.682	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,357.40	6,794.88	2,824.43	2,573.44	11.253	CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,400.00	6,800.00	2,824.76	2,572.60	11.202	ES
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,800.00	6,800.00	2,858.90	2,599.00	11.000	SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,963.33	6,835.02	5,117.63	4,714.69	12.701	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 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4740.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4740.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 02N	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	17,100.00	6,836.05	5,119.45	4,712.81	12.590	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	18,000.00	6,842.80	5,221.57	4,795.96	12.269	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	419.32	405.73	2,865.34	2,864.17	2,434.622	CC, ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	12,000.00	6,634.01	4,889.39	4,766.03	39.633	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	400.00	418.00	3,007.31	2,998.55	343.512	CC
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	500.00	517.95	3,009.19	2,998.19	273.494	ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	12,300.00	6,760.02	4,484.90	4,212.31	16.453	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	911.25			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,300.00	6,693.99	1,674.17	1,556.90	14.275	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,239.88	6,785.59	340.81	-40.66	0.893	Level 3, CC, ES, SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,469.41	6,840.58	1,591.63	1,309.84	5.648	CC
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,500.00	6,840.45	1,591.92	1,309.34	5.633	ES
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,600.00	6,840.02	1,596.98	1,312.65	5.617	SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,573.51	6,721.56	260.46	84.20	1.478	Level 3, CC, ES, SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,934.82	6,758.80	1,212.01	865.82	3.501	CC, ES
ABDN VERT TODD #2 - Wellbore #1 - Design #1	15,000.00	6,759.29	1,213.76	865.99	3.490	SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,708.44	6,848.61	5,599.99	5,176.28	13.217	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,900.00	6,850.05	5,603.26	5,174.40	13.065	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	18,011.63	6,851.00	5,608.56	5,176.86	12.992	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	18,011.63	6,888.49	2,984.53	2,701.39	10.541	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,560.95	4,554.00	6,050.10	5,705.23	17.543	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,700.00	4,554.00	6,051.70	5,703.31	17.371	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	18,011.63	4,554.00	6,067.25	5,711.51	17.055	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,925.58	7,100.95	3,686.21	3,396.16	12.709	CC
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,000.00	7,101.67	3,686.96	3,395.21	12.637	ES
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,500.00	7,106.61	3,730.69	3,430.70	12.436	SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	0.00	8.94	3,717.26			
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	400.00	406.37	3,717.41	3,716.19	3,064.887	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	12,800.00	6,758.56	5,607.63	5,453.68	36.425	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	412.29	463.52	4,474.71	4,473.40	3,420.634	CC, ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	14,500.00	6,970.38	5,103.58	4,897.69	24.788	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	401.07	426.52	4,479.74	4,478.50	3,608.722	CC, ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	15,700.00	6,902.13	5,006.45	4,764.01	20.651	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,469.14	7,007.45	2,189.68	1,947.77	9.052	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,500.00	7,007.32	2,189.89	1,947.12	9.020	ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,800.00	7,006.08	2,214.53	1,965.54	8.894	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,261.62	7,202.55	2,132.10	1,913.21	9.740	CC
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,300.00	7,202.21	2,132.44	1,912.84	9.710	ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,500.00	7,200.44	2,145.38	1,923.17	9.655	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	0.00	0.00	3,302.06			
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	600.00	573.06	3,302.75	3,300.43	1,424.787	ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	12,000.00	6,843.24	5,828.54	5,689.47	41.912	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	13,000.00	10,869.00	187.11	18.45	1.109	Level 3, ES, SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	13,003.44	10,869.00	187.08	18.79	1.112	Level 3, CC
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,739.19	10,175.00	1,525.88	1,231.62	5.186	CC
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,800.00	10,175.00	1,527.09	1,231.40	5.165	ES
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,900.00	10,175.00	1,534.33	1,236.64	5.154	SF
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,717.96	6,834.10	4,678.85	4,378.27	15.566	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,800.00	6,834.31	4,679.57	4,376.76	15.454	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	18,011.63	6,834.96	4,688.43	4,380.33	15.217	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,901.29	10,884.00	5,459.59	5,288.27	31.868	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,000.00	10,884.00	5,460.48	5,286.85	31.448	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 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4740.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4740.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 02N	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 HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	15,700.00	10,884.00	6,135.14	5,892.71	25.307	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,240.44	6,796.59	1,670.52	1,288.12	4.368	CC
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,300.00	6,797.04	1,671.59	1,287.66	4.354	ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,400.00	6,797.79	1,678.13	1,292.48	4.351	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,548.09	6,828.41	413.09	-5.50	0.987	Level 3, CC, ES, SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,582.91	6,769.65	4,217.98	3,907.83	13.600	CC
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,700.00	6,770.53	4,219.61	3,906.28	13.467	ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	14,500.00	6,776.53	4,316.52	3,985.65	13.046	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,235.46	6,766.55	3,492.81	3,165.30	10.665	CC
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,300.00	6,767.03	3,493.40	3,164.12	10.609	ES
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,900.00	6,771.53	3,555.46	3,213.25	10.390	SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,047.53	6,789.64	4,290.35	3,940.63	12.268	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,200.00	6,790.79	4,293.05	3,939.24	12.134	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,900.00	6,796.04	4,374.21	4,005.53	11.864	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,463.58	6,672.53	2,792.21	2,619.26	16.145	CC
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,500.00	6,673.20	2,792.44	2,618.48	16.052	ES
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	14,100.00	6,684.41	2,863.79	2,677.79	15.397	SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,914.14	5,934.82	2,417.12	2,231.81	13.043	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,950.00	5,970.67	2,417.55	2,231.51	12.995	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,200.00	6,213.16	2,444.17	2,253.65	12.829	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,914.14	5,916.82	3,412.55	3,227.57	18.448	CC
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,950.00	5,952.67	3,412.98	3,227.27	18.378	ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,300.00	6,284.29	3,461.73	3,270.03	18.058	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	4,815.49	4,075.24	2,667.75	2,617.09	52.664	CC
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	4,900.00	4,147.48	2,668.18	2,616.43	51.556	ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,950.00	5,954.09	2,819.07	2,754.08	43.374	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,914.14	5,909.82	1,677.02	1,514.67	10.330	CC, ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,050.00	6,044.87	1,689.65	1,524.62	10.238	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	400.00	428.00	5,274.07	5,265.11	588.789	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,600.00	6,779.78	5,448.46	5,137.60	17.527	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	15,000.00	6,790.29	5,654.80	5,313.39	16.563	SF
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	5,244.98	4,407.48	4,531.69	4,388.42	31.631	CC
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	5,615.06	4,706.98	4,536.90	4,382.86	29.453	ES
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	7,500.00	6,451.50	4,652.83	4,458.45	23.937	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	1,980.04	1,795.16	1,432.14	1,383.51	29.449	CC
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,100.00	1,892.24	1,433.87	1,381.77	27.520	ES
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	9,400.00	6,685.26	2,488.91	2,277.68	11.783	SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	0.00	39.38	4,915.92			
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	14,800.00	6,800.00	6,231.79	6,038.94	32.314	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	400.00	405.00	1,810.56	1,802.04	212.479	CC, ES
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	12,000.00	6,744.77	2,372.00	2,103.87	8.847	SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	400.00	399.00	914.23	905.82	108.715	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	500.00	498.95	916.00	905.35	85.940	ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,700.00	6,729.01	2,357.48	2,120.22	9.936	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	400.00	400.00	2,185.12	2,176.71	259.526	CC
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	500.00	499.95	2,186.53	2,175.86	204.954	ES
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	11,200.00	6,733.77	3,741.96	3,494.47	15.120	SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	3,354.43	2,916.21	3,920.15	3,888.66	124.473	CC
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	3,500.00	3,039.00	3,920.93	3,887.54	117.432	ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	10,000.00	6,607.77	5,184.90	5,102.13	62.641	SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,914.14	5,927.82	1,750.78	1,567.74	9.565	CC
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,950.00	5,963.67	1,751.39	1,567.63	9.531	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 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4740.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4740.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 02N	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 22-614 - Wellbore #1 - Design #1	7,100.00	6,111.61	1,767.14	1,580.69	9.478	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	4,696.82	4,003.39	3,756.34	3,707.23	76.487	CC
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	4,900.00	4,185.54	3,758.06	3,706.32	72.632	ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,950.00	5,941.12	3,875.90	3,809.93	58.751	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	1,886.30	1,710.29	4,437.75	4,392.03	97.053	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	2,300.00	2,045.10	4,444.40	4,386.68	76.999	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	9,500.00	6,677.01	5,487.66	5,275.35	25.848	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	4,218.85	3,583.03	5,712.97	5,599.51	50.354	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	4,700.00	3,972.42	5,719.96	5,592.48	44.872	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,700.00	6,572.22	5,953.90	5,757.70	30.347	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,585.24	6,802.07	2,986.65	2,702.00	10.492	CC
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,700.00	6,802.14	2,988.86	2,701.26	10.392	ES
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	18,000.00	6,802.31	3,015.31	2,722.23	10.288	SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,778.64	6,807.13	4,785.52	4,415.73	12.941	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,900.00	6,808.04	4,787.06	4,413.98	12.831	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,800.00	6,814.79	4,893.29	4,501.14	12.478	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,928.04	6,811.75	5,558.17	5,211.12	16.015	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,100.00	6,813.04	5,560.83	5,209.13	15.811	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	16,300.00	6,822.04	5,724.98	5,347.42	15.163	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,673.71	5,665.80	658.18	592.13	9.965	CC
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,700.00	5,691.60	658.23	592.09	9.952	ES
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,914.14	5,913.05	659.79	593.35	9.931	SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	400.00	430.00	2,797.90	2,788.87	309.901	CC, ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	12,500.00	6,773.52	3,930.07	3,650.94	14.079	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	400.00	428.00	3,611.41	3,602.45	403.172	CC, ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	13,400.00	6,778.28	4,423.64	4,122.42	14.686	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	400.00	404.00	2,691.29	2,682.78	316.215	CC
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,400.00	6,746.77	2,938.02	2,659.05	10.532	ES
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,800.00	6,749.77	2,979.80	2,691.83	10.348	SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	1,767.18	1,604.89	5,173.25	5,131.15	122.900	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	2,200.00	1,955.17	5,179.49	5,124.86	94.818	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	9,800.00	6,670.26	6,341.58	6,125.32	29.323	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,227.13	6,711.12	1,722.13	1,581.33	12.231	CC
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,300.00	6,711.64	1,723.67	1,580.83	12.067	ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,500.00	6,713.07	1,743.61	1,596.58	11.859	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	400.00	423.00	1,783.81	1,774.91	200.280	CC, ES
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,600.00	6,759.77	3,020.75	2,762.58	11.700	SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,601.04	1,498.43	321.51	283.60	8.483	CC, ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	9,800.00	6,698.26	1,567.41	1,349.31	7.187	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	400.00	383.00	1,575.26	1,567.16	194.648	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	600.00	582.63	1,577.57	1,564.98	125.293	ES
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	10,400.00	6,710.76	3,053.55	2,823.52	13.275	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	869.98	869.90	2,757.94	2,755.21	1,007.998	CC
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	1,000.00	988.25	2,758.42	2,755.00	806.639	ES
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	11,000.00	6,660.23	4,471.53	4,368.70	43.486	SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,315.45	6,738.15	815.14	486.04	2.477	CC, ES, SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,417.22	6,772.42	778.31	418.84	2.165	CC, ES, SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,389.24	4,514.98	1,567.20	1,509.03	26.941	CC
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,400.00	4,523.29	1,567.21	1,508.90	26.876	ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,100.00	5,115.86	1,610.71	1,546.78	25.195	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	400.00	353.00	4,597.75	4,590.27	614.643	CC
EXIST VERT NIX #1 - Wellbore #1 - Design #1	800.00	750.08	4,602.77	4,586.20	277.755	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 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4740.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4740.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 02N	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 NIX #1 - Wellbore #1 - Design #1	11,000.00	6,685.27	6,289.86	6,051.69	26.409	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	400.00	387.00	4,179.63	4,171.44	510.665	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	500.00	486.95	4,180.63	4,170.19	400.654	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	11,900.00	6,726.02	6,027.60	5,767.86	23.207	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #1	18,011.63	6,853.00	1,787.60	1,382.20	4.410	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,811.51	6,841.92	915.48	652.09	3.476	CC, ES, SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	2,298.61	2,229.37	2,323.29	2,305.31	129.243	CC
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	2,400.00	2,300.00	2,324.40	2,305.12	120.575	ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	9,900.00	6,831.09	3,529.18	3,444.35	41.602	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,733.76	6,754.29	561.07	220.45	1.647	CC, ES, SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,679.77	6,744.38	1,731.21	1,418.94	5.544	CC
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,700.00	6,744.53	1,731.33	1,418.48	5.534	ES
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,900.00	6,746.03	1,745.16	1,428.03	5.503	SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,259.71	2,819.21	459.83	429.50	15.162	CC, ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,400.00	2,930.48	467.55	435.95	14.796	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	18,011.63	6,866.00	4,362.19	3,935.91	10.233	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	397.96	398.00	14.78	13.28	9.800	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,121.45	231.58	-125.00	0.649	Level 3, ES, SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	515.44	515.36	14.56	12.52	7.154	CC
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	18,000.00	17,940.43	225.50	-162.86	0.581	Level 3, SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	18,011.63	17,952.06	225.89	-162.89	0.581	Level 3, ES
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	565.04	565.83	29.15	26.89	12.881	CC
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,986.84	519.87	-26.07	0.952	Level 3, ES, SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	602.29	602.91	43.68	41.24	17.950	CC, ES
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,907.37	657.35	67.61	1.115	Level 3, SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	633.71	635.12	58.24	55.65	22.483	CC, ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	18,000.00	17,885.42	875.80	291.80	1.500	Level 3, SF
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	661.35	662.54	72.84	70.12	26.730	CC, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	18,011.63	17,831.47	1,097.35	507.59	1.861	SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	686.21	687.14	87.35	84.51	30.678	CC
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	700.00	700.77	87.38	84.46	29.964	ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,873.26	1,314.64	722.24	2.219	SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	709.19	710.84	101.95	98.99	34.350	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,044.87	1,534.46	938.97	2.577	SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	730.68	732.03	116.52	113.44	37.761	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,966.19	1,752.81	1,157.36	2.944	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	750.49	751.53	131.10	127.91	41.035	CC, ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,992.49	1,972.60	1,377.84	3.317	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	769.42	770.12	145.68	142.38	44.149	CC
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	800.00	800.08	145.81	142.34	42.010	ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,944.58	2,190.98	1,596.68	3.687	SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	787.63	787.97	160.25	156.85	47.118	CC
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	800.00	800.08	160.27	156.80	46.182	ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,990.61	2,410.65	1,817.19	4.062	SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	804.94	804.91	174.85	171.35	49.944	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	17,957.14	2,629.14	2,035.33	4.428	SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	821.60	820.18	189.37	185.77	52.558	CC, ES
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	18,011.63	17,941.50	2,848.95	2,256.21	4.806	SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	837.67	835.85	203.94	200.24	55.056	CC, ES
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,062.11	3,067.82	2,475.64	5.181	SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	853.15	850.91	218.46	214.66	57.462	CC, ES
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,025.42	3,286.42	2,694.78	5.555	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 02N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4740.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4740.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 02N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	867.98	865.31	233.05	229.15	59.822	CC
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	900.00	896.31	233.19	229.09	56.878	ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,126.63	3,505.91	2,915.44	5.937	SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	824.53	818.95	248.13	244.52	68.802	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	18,011.63	18,103.37	3,725.10	3,134.23	6.304	SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	740.85	733.91	264.86	261.75	85.091	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,237.23	3,943.98	3,354.47	6.690	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	640.43	634.12	282.19	279.59	108.655	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,229.73	4,162.78	3,573.89	7.069	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	525.74	521.22	299.19	297.12	144.646	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,286.30	4,381.89	3,793.12	7.443	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	400.00	314.91	313.39	206.952	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,413.26	4,601.20	4,013.18	7.825	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	299.00	329.90	328.83	308.346	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	18,011.63	18,446.15	4,820.07	4,233.08	8.211	SF
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	12,002.99	6,704.12	374.63	239.73	2.777	CC, ES, SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	10,982.16	6,721.13	626.61	383.59	2.578	CC
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	11,000.00	6,721.27	626.86	383.12	2.572	ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,950.00	18,655.01	682.35	327.20	1.921	ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	18,011.63	8,593.53	673.93	338.29	2.008	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	18,011.63	8,764.40	452.63	115.22	1.341	Level 3, CC, ES, SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,650.00	6,663.59	260.67	180.74	3.261	SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,700.00	6,687.66	254.66	179.99	3.410	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,715.09	6,694.33	254.30	181.59	3.498	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,596.18	6,772.03	67.19	48.01	3.503	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,600.00	6,773.23	67.30	47.81	3.452	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,650.00	6,787.62	86.22	53.44	2.630	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,626.52	6,692.96	368.20	155.54	1.731	CC, ES, SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,800.00	6,660.74	432.59	363.29	6.242	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,849.87	6,660.77	429.71	362.09	6.355	CC, ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	4,433.86	3,762.45	134.61	88.88	2.943	CC, ES, 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	
Reference				Reference	Offset	Highside			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	38.78	38.78	0.00	0.04	-120.05	-3,341.35	-5,775.79	6,672.66					
100.00	100.00	138.20	138.20	0.09	0.15	-120.05	-3,341.39	-5,775.77	6,672.66	6,672.43	0.24	N/A		
200.00	200.00	1,539.30	1,518.30	0.31	4.48	-118.91	-3,160.49	-5,721.97	6,660.80	6,656.42	4.37	1,523.182		
300.00	300.00	1,607.73	1,584.16	0.54	4.80	-118.79	-3,142.49	-5,717.38	6,641.84	6,637.06	4.79	1,387.838		
400.00	400.00	1,723.08	1,695.37	0.76	5.33	-118.60	-3,112.90	-5,709.46	6,623.18	6,617.78	5.40	1,225.946		
500.00	499.95	1,803.09	1,772.50	0.98	5.72	179.30	-3,092.53	-5,703.49	6,606.75	6,600.87	5.89	1,122.379		
600.00	599.63	1,858.42	1,825.85	1.22	5.99	179.40	-3,078.29	-5,699.92	6,596.22	6,589.93	6.29	1,049.004		
700.00	698.77	1,941.74	1,906.28	1.48	6.39	179.55	-3,057.14	-5,694.77	6,591.39	6,584.56	6.83	965.279		
764.72	762.51	2,071.23	2,031.41	1.69	7.01	179.76	-3,025.10	-5,685.55	6,590.73	6,583.25	7.48	880.791		
800.00	797.08	2,147.79	2,105.35	1.81	7.39	179.88	-3,006.27	-5,679.35	6,591.04	6,583.18	7.86	838.091		
900.00	894.31	2,278.39	2,231.06	2.22	8.07	-179.91	-2,972.38	-5,669.05	6,595.05	6,586.39	8.66	761.339		

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