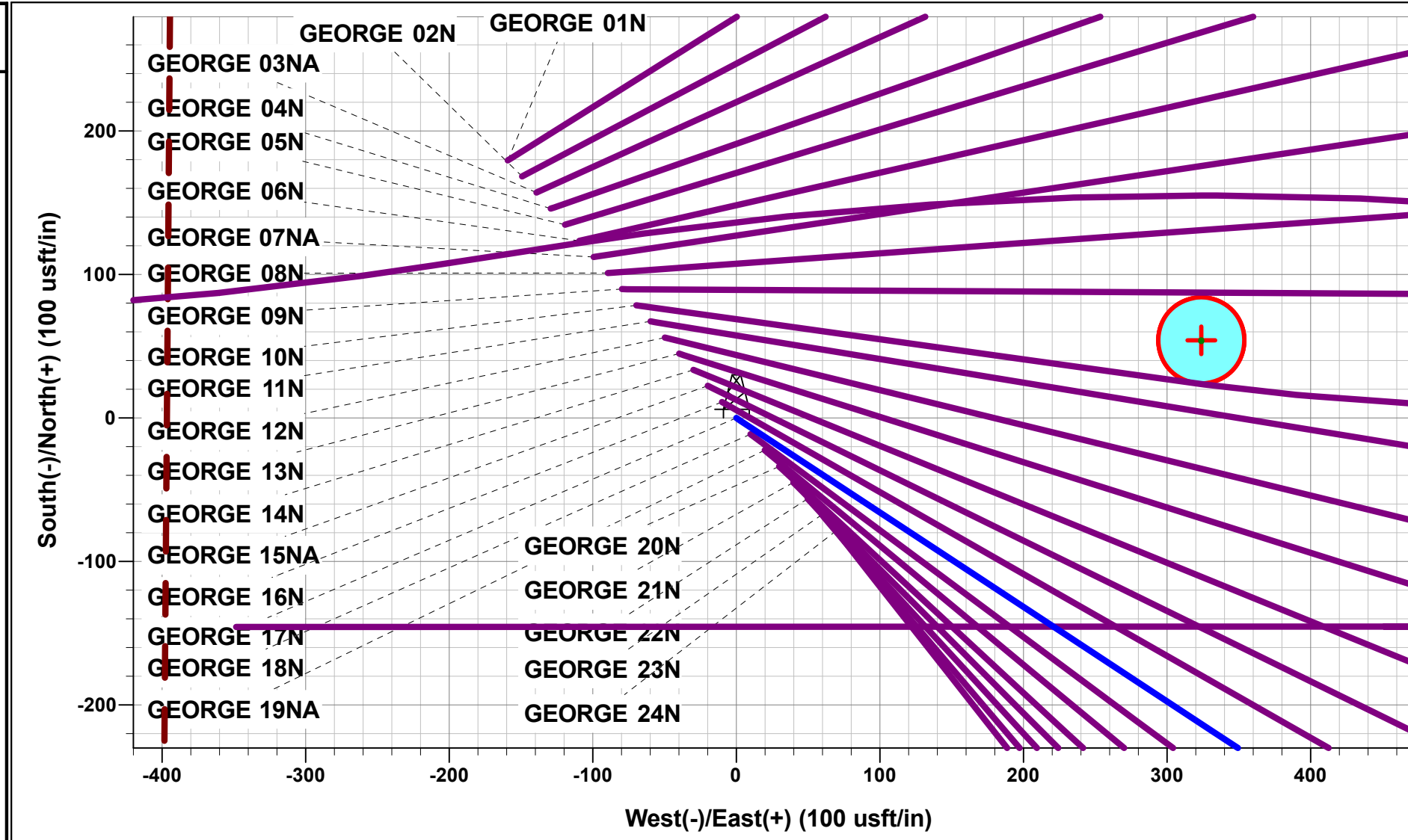




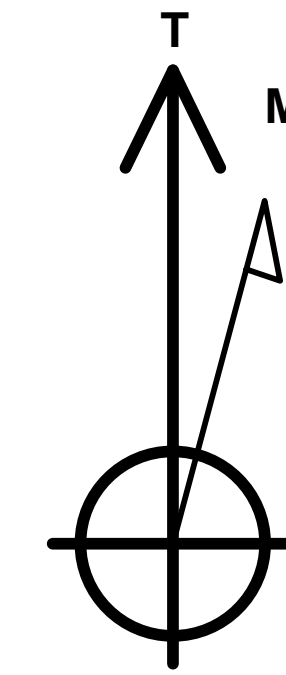
Project: WELD COUNTY, COLORADO (TRUE)  
 Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
 Well: GEORGE 17N  
 Wellbore: ORIGINAL WELLBORE  
 Design: PROPOSAL #1

**ANNOTATIONS**

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Dep	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL: 1951ft FNL & 2235ft FEL of Sec 21
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	START NUDDGE (4°/100ft BUR)
1951.03	38.04	123.35	1882.68	-167.30	254.17	-214.97	304.29	EOB TO 38.04° INC
5913.17	38.04	123.35	5003.14	-1509.75	2293.57	-1939.88	2745.87	END OF TANGENT
6864.21	0.00	0.00	5885.82	-1677.05	2547.74	-2154.85	3050.16	EOD TO VERTICAL
6964.21	0.00	0.00	5985.82	-1677.05	2547.74	-2154.85	3050.16	KOP (8°/100ft BUR)
7901.70	75.00	269.98	6677.61	-1677.24	2016.91	-1635.01	3580.99	EP: 1653ft FSL & 200ft FEL of Sec 21
8084.20	89.60	269.98	6702.00	-1677.31	1836.54	-1458.37	3761.36	HZ LANDING POINT
18041.17	89.59	269.98	6772.00	-1681.09	-8120.18	8292.37	13718.08	BHL: 1654ft FSL & 200ft FWL of Sec 20



**PROPOSED LOCAL COORDINATES:**  
 SHL: 1951ft FNL & 2235ft FEL of Sec 21  
 EP: 1653ft FSL & 200ft FEL of Sec 21  
 BHL: 1654ft FSL & 200ft FWL of Sec 20

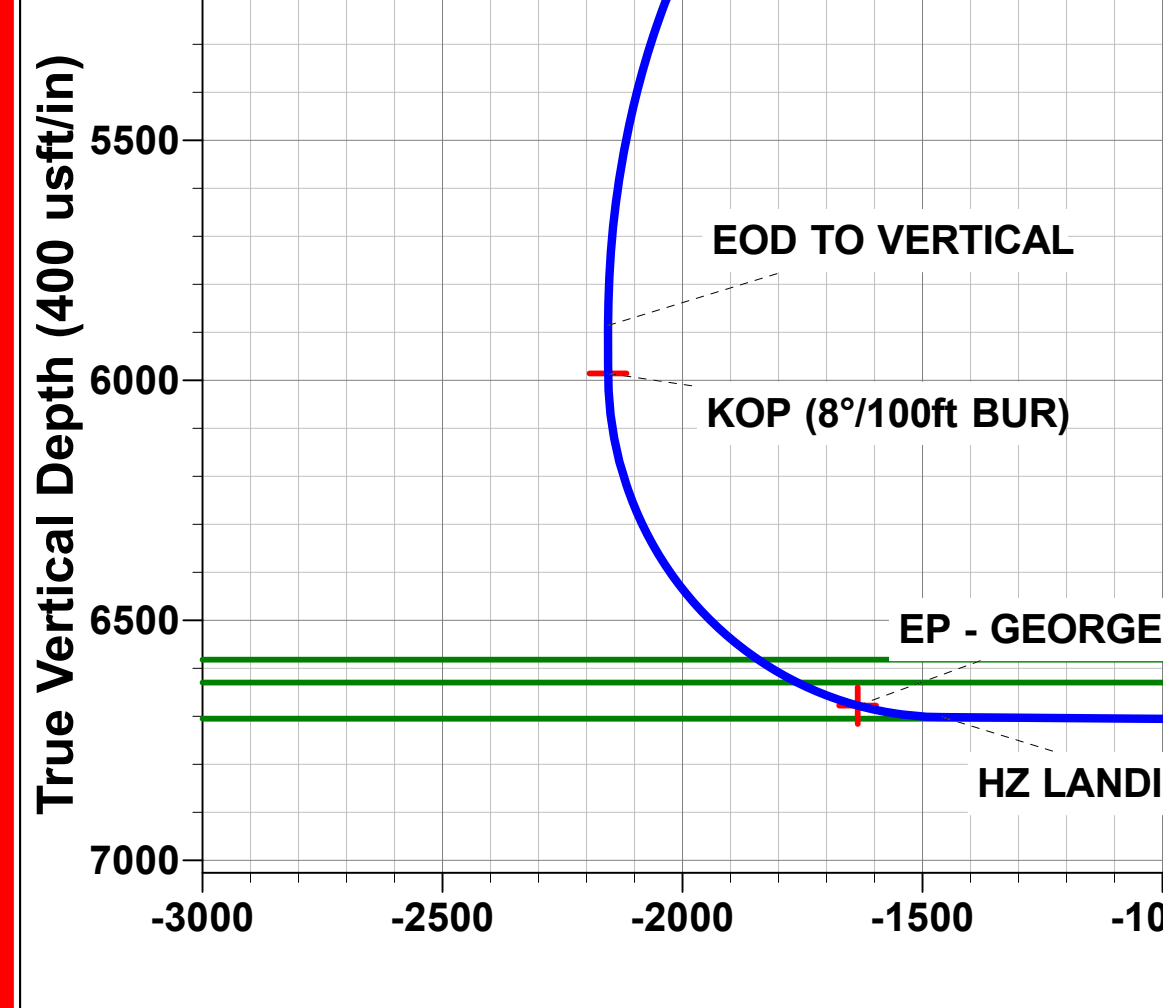
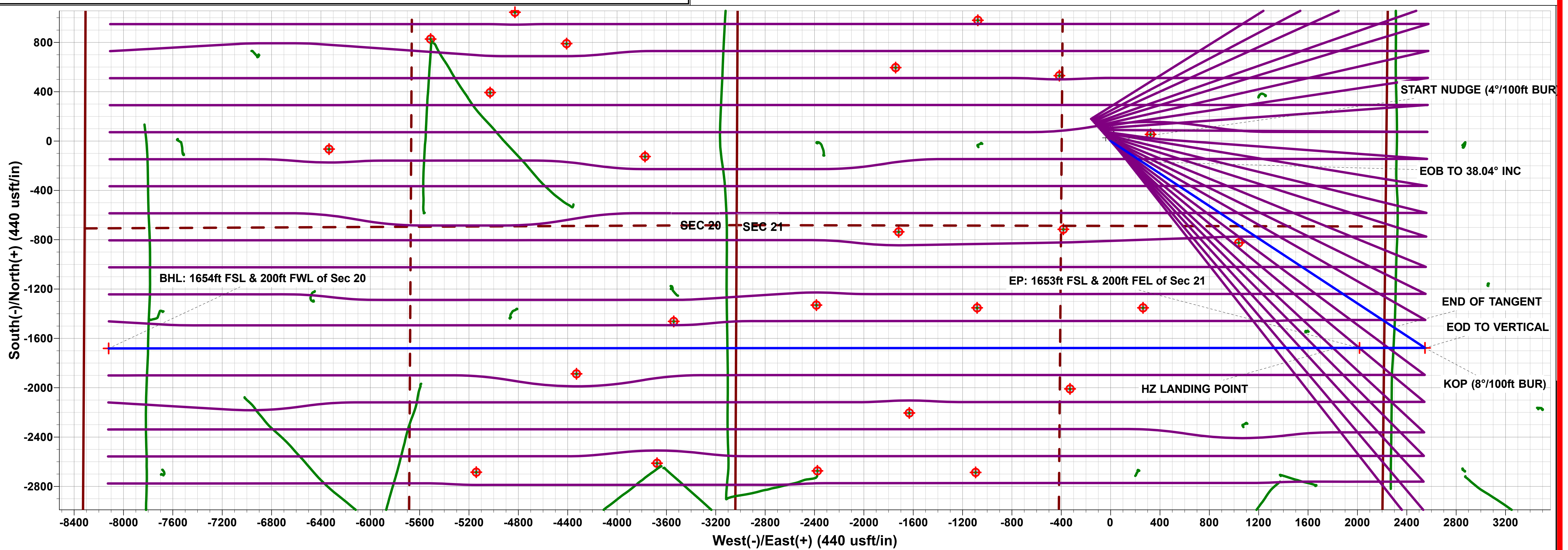
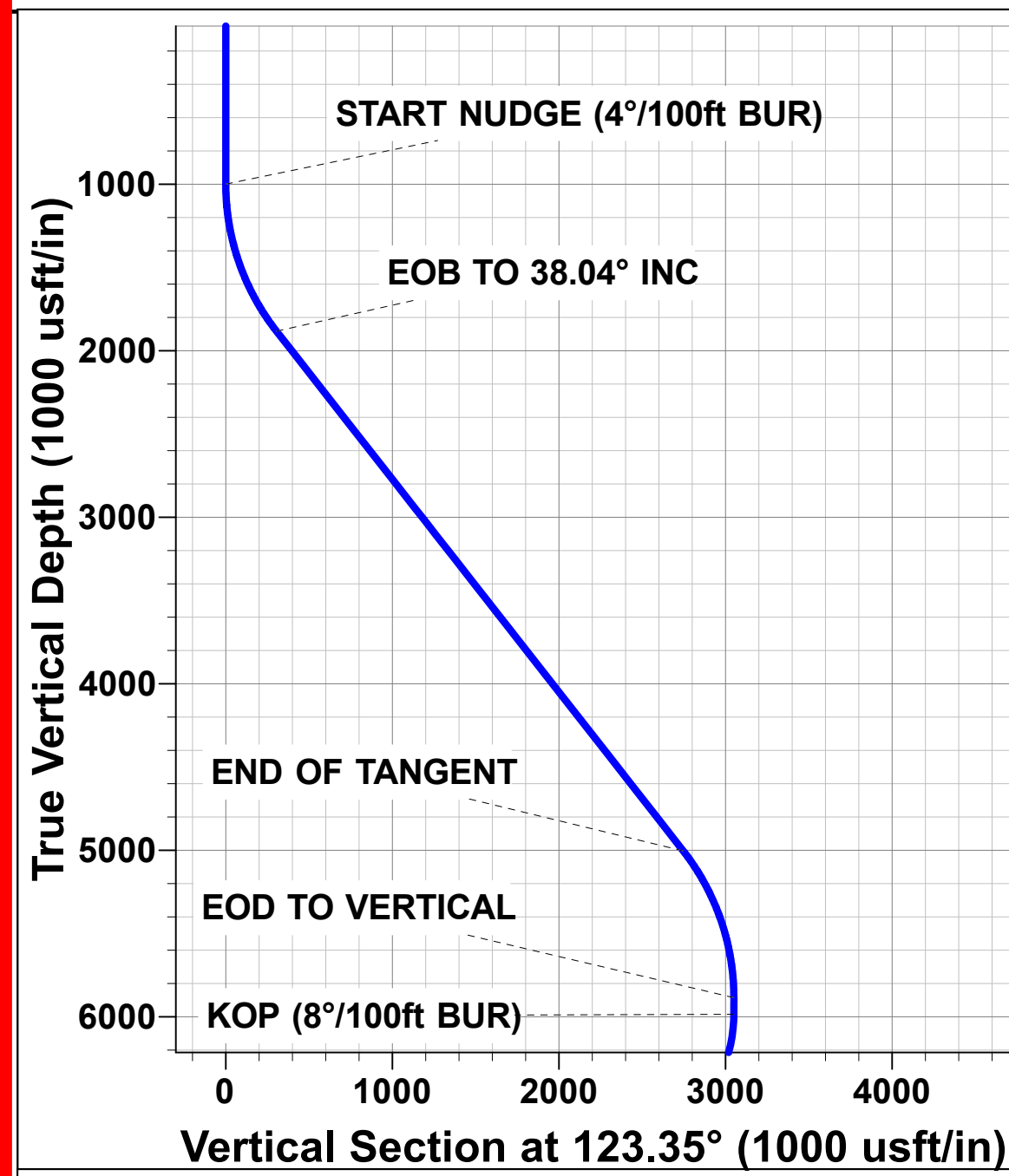


Azimuths to True North  
 Magnetic North: 7.73°

Magnetic Field  
 Strength: 51929.3nT  
 Dip Angle: 66.61°  
 Date: 2021-05-28  
 Model: IGRF2020

**DESIGN TARGET DETAILS**

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL - GEORGE 17N	6772.00	-1681.09	-8120.18	1351701.37	3255664.08	40.295193	-104.583431
EP - GEORGE 17N	6677.61	-1677.24	2016.91	1351813.33	3265800.12	40.295207	-104.547091
KOP - GEORGE 17N	5985.82	-1677.05	2547.74	1351819.18	3266330.89	40.295208	-104.545188



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)  
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
GEORGE 17N**

**ORIGINAL WELLBORE  
PROPOSAL #1**

## **Anticollision Report**

**29 May, 2021**

Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 17N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 17N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	2021-05-29		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	18,041.17	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD	MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured	Offset Measured	Distance		Separation Factor	Warning
	Depth (usft)	Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,512.54	6,953.11	290.11	45.00	1.184	Level 3, CC, ES, SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,852.51	5,899.55	2,848.44	2,813.88	82.413	CC, ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	7,100.00	6,157.77	2,860.67	2,825.49	81.306	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,884.72	5,934.69	1,812.74	1,776.95	50.646	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,900.00	5,949.35	1,812.74	1,776.94	50.627	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,964.21	6,011.98	1,812.81	1,776.95	50.553	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,614.54	6,892.54	1,576.19	1,425.92	10.489	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	11,700.00	6,891.03	1,578.51	1,427.23	10.434	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,000.00	6,683.41	1,145.12	1,066.56	14.575	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	8,255.57	6,697.61	1,116.40	1,042.58	15.122	CC, ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,730.50	6,755.42	317.34	108.67	1.521	CC, ES, SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,461.40	6,732.68	217.06	-89.31	0.708	Level 3, CC, ES, SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,605.36	6,818.02	984.70	697.45	3.428	CC, ES, SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	18,041.17	6,899.56	3,088.03	2,801.62	10.782	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	1,000.00	976.00	673.76	652.39	31.524	CC, ES
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,800.00	6,696.99	2,257.12	2,016.13	9.366	SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	1,000.00	988.00	1,841.69	1,820.04	85.086	CC, ES
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	12,100.00	6,718.11	2,316.18	2,044.16	8.515	SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,009.59	6,737.46	2,312.37	2,066.83	9.417	CC, ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	11,300.00	6,739.50	2,330.53	2,080.53	9.322	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,371.51	6,762.81	461.05	207.87	1.821	CC, ES, SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	16,978.21	6,820.48	1,831.86	1,426.87	4.523	CC
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,000.00	6,820.63	1,831.99	1,426.47	4.518	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,100.00	6,821.34	1,835.90	1,428.52	4.507	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,700.00	6,662.59	1,031.75	948.67	12.418	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	9,716.54	6,662.95	1,031.62	948.56	12.420	CC, ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,015.46	6,738.50	1,008.16	762.59	4.105	CC, ES, SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	1,040.43			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,400.00	6,728.31	1,688.25	1,566.64	13.882	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,253.67	6,771.36	2,944.79	2,560.59	7.665	CC
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,300.00	6,771.69	2,945.15	2,559.64	7.640	ES
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,600.00	6,773.81	2,965.08	2,572.70	7.557	SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,483.69	6,810.50	1,694.16	1,410.06	5.963	CC
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,500.00	6,810.45	1,694.23	1,409.67	5.954	ES
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,600.00	6,810.14	1,698.14	1,411.38	5.922	SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,587.03	6,637.64	3,023.49	2,845.14	16.953	CC

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

## Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 17N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 17N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,700.00	6,638.25	3,025.60	2,844.08	16.668	ES
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	14,300.00	6,641.42	3,106.41	2,912.77	16.042	SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,948.82	6,745.15	2,073.29	1,725.13	5.955	CC
ABDN VERT TODD #2 - Wellbore #1 - Design #1	15,000.00	6,745.51	2,073.92	1,724.28	5.931	ES
ABDN VERT TODD #2 - Wellbore #1 - Design #1	15,200.00	6,746.93	2,088.45	1,734.41	5.899	SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,723.44	6,833.75	2,314.04	1,888.26	5.435	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,800.00	6,834.29	2,315.31	1,887.71	5.415	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,900.00	6,835.00	2,320.77	1,891.33	5.404	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	18,041.17	6,823.06	962.41	857.48	9.171	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,577.04	4,554.00	3,245.85	2,976.44	12.048	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,600.00	4,554.00	3,245.93	2,976.08	12.029	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	18,041.17	4,554.00	3,278.87	3,001.97	11.842	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	16,939.81	7,053.79	400.77	109.74	1.377	Level 3, CC, ES, SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,250.89	6,744.45	1,702.85	1,596.24	15.973	CC, ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	10,400.00	6,744.25	1,709.36	1,601.30	15.818	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,894.87	6,874.94	1,555.76	1,379.63	8.833	CC
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,900.00	6,875.08	1,555.77	1,379.56	8.829	ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	13,000.00	6,877.64	1,559.30	1,381.93	8.791	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,280.70	6,879.97	1,511.51	1,297.82	7.073	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,300.00	6,879.98	1,511.64	1,297.45	7.058	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,400.00	6,880.02	1,516.21	1,300.06	7.014	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,483.58	6,978.55	1,095.65	851.57	4.489	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,500.00	6,978.48	1,095.78	851.21	4.480	ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,600.00	6,978.07	1,101.82	855.41	4.472	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,277.29	7,030.97	1,149.69	929.03	5.210	CC
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,300.00	7,030.80	1,149.91	928.12	5.185	ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,400.00	7,030.06	1,156.22	930.55	5.124	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	9,049.74	6,791.40	1,734.21	1,647.60	20.023	CC, ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	9,200.00	6,792.53	1,740.71	1,653.63	19.989	SF
<b>EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb</b>	<b>13,026.23</b>	<b>7,762.06</b>	<b>32.19</b>	<b>-32.25</b>	<b>0.500</b>	<b>Level 3, CC, ES, SF</b>
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,700.00	8,353.77	430.24	329.87	4.287	SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,724.85	8,353.39	429.52	329.75	4.305	CC, ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,732.85	6,829.89	1,392.87	1,089.92	4.598	CC, ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,800.00	6,830.03	1,394.49	1,090.30	4.584	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,916.34	10,884.00	2,174.72	2,001.41	12.549	CC, ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,600.00	10,884.00	2,279.64	2,088.79	11.944	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,254.53	6,782.37	1,615.08	1,230.65	4.201	CC
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,300.00	6,782.69	1,615.72	1,230.01	4.189	ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,400.00	6,783.39	1,621.61	1,233.89	4.182	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,561.87	6,813.61	2,872.81	2,451.89	6.825	CC
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,600.00	6,813.88	2,873.07	2,451.07	6.808	ES
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,900.00	6,816.00	2,892.64	2,464.12	6.750	SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,597.58	6,756.64	932.98	620.95	2.990	CC
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,600.00	6,756.65	932.98	620.91	2.990	ES, SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,249.97	6,753.23	207.66	-120.20	0.633	Level 3, CC, ES, SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,062.23	6,775.95	1,005.02	653.33	2.858	CC, ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,100.00	6,776.22	1,005.73	653.46	2.855	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,479.71	6,747.77	491.78	316.54	2.806	CC
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,500.00	6,748.23	492.20	316.17	2.796	ES, SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,964.21	5,924.82	1,645.52	1,459.22	8.833	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,000.00	5,960.60	1,646.16	1,459.14	8.802	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,100.00	6,059.80	1,654.71	1,465.83	8.760	SF

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

## Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 17N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 17N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,964.21	5,906.82	1,674.08	1,506.47	9.988	CC, ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,100.00	6,041.80	1,686.73	1,516.45	9.905	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,964.29	5,913.29	718.29	649.30	10.411	CC, ES, SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,040.15	5,020.47	3,412.82	3,247.48	20.642	CC
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,000.00	5,935.60	3,421.04	3,233.29	18.222	ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,350.00	6,267.23	3,471.68	3,277.72	17.899	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,496.69	6,765.93	2,162.20	1,852.63	6.984	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,500.00	6,765.95	2,162.20	1,852.55	6.983	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,700.00	6,767.36	2,171.73	1,858.31	6.929	SF
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Des	6,964.21	5,918.82	1,912.12	1,771.77	13.625	CC, ES
EXIST VERT DARLENE DINNELL #1 - Wellbore #1 - Des	7,200.00	6,150.38	1,945.03	1,799.90	13.402	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	3,600.74	3,144.94	118.16	24.83	1.266	Level 3, CC, ES, SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,347.13	6,767.98	2,437.54	2,292.14	16.765	CC
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,400.00	6,768.62	2,438.11	2,291.62	16.643	ES
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,800.00	6,773.29	2,479.24	2,326.46	16.228	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,638.09	6,729.87	942.60	681.89	3.616	CC
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,700.00	6,730.30	944.63	681.73	3.593	ES, SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	1,459.33	1,448.50	808.31	776.14	25.127	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,303.88	6,714.52	962.81	734.22	4.212	ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,400.00	6,715.19	967.60	735.38	4.167	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	10,249.98	6,715.14	331.22	104.35	1.460	Level 3, CC, ES, SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,967.79	5,925.19	1,025.47	978.37	21.771	CC, ES, SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,393.54	5,355.58	2,341.70	2,166.78	13.388	CC
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,000.00	5,953.60	2,343.42	2,155.17	12.449	ES
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,250.00	6,196.09	2,372.84	2,180.01	12.306	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,841.82	5,777.91	1,039.05	1,015.11	43.394	CC, ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,964.21	5,904.98	1,040.53	1,016.52	43.330	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,450.11	6,389.30	1,833.04	1,647.47	9.878	CC, ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	7,500.00	6,427.02	1,833.33	1,647.70	9.876	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,964.21	5,924.82	2,848.65	2,698.30	18.947	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,000.00	5,960.60	2,849.17	2,698.09	18.859	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,250.00	6,203.09	2,881.56	2,726.55	18.589	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,599.71	6,775.07	299.19	12.63	1.044	Level 3, CC
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,600.00	6,775.07	299.19	12.57	1.044	Level 3, ES, SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,793.44	6,793.11	1,500.02	1,128.22	4.034	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,800.00	6,793.16	1,500.04	1,128.08	4.033	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,900.00	6,793.86	1,503.80	1,130.17	4.025	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,943.02	6,798.11	2,272.87	1,923.82	6.512	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,000.00	6,798.51	2,273.58	1,923.21	6.489	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,200.00	6,799.93	2,287.35	1,933.47	6.464	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	4,559.76	3,871.13	2,572.11	2,526.96	56.963	CC
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	4,600.00	3,902.88	2,572.23	2,526.50	56.256	ES
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	7,900.00	6,627.15	2,935.71	2,867.82	43.242	SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,552.55	6,754.27	525.95	267.00	2.031	CC, ES, SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,297.61	6,757.50	995.57	717.57	3.581	CC
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,300.00	6,757.52	995.57	717.55	3.581	ES, SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,305.34	6,733.55	348.72	71.22	1.257	Level 3, CC, ES, SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	6,964.21	5,930.82	2,519.49	2,343.96	14.353	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,150.00	6,114.54	2,520.77	2,342.05	14.105	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,450.00	6,380.21	2,532.12	2,350.73	13.960	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,241.35	6,709.58	1,562.60	1,419.76	10.940	CC
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,300.00	6,709.97	1,563.70	1,419.04	10.809	ES

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

## Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 17N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 17N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,500.00	6,711.30	1,583.86	1,434.61	10.612	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,002.63	6,743.41	326.29	81.29	1.332	Level 3, CC, ES, SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,842.74	1,767.96	223.31	181.80	5.380	CC, ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,951.03	1,855.68	232.14	187.80	5.235	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,658.07	6,694.00	325.77	111.91	1.523	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,700.00	6,694.29	328.45	110.95	1.510	ES, SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,700.00	6,678.14	648.05	576.59	9.069	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	8,852.21	6,678.57	629.92	562.13	9.292	CC, ES
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,329.36	6,724.79	2,470.03	2,138.97	7.461	CC
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,400.00	6,725.29	2,471.04	2,137.95	7.419	ES
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,700.00	6,727.40	2,497.68	2,157.97	7.352	SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,431.11	6,758.56	2,507.11	2,145.63	6.936	CC
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,500.00	6,759.04	2,508.05	2,144.63	6.901	ES
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,700.00	6,760.45	2,521.48	2,153.48	6.852	SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,376.42	4,510.85	1,569.68	1,512.67	27.533	CC
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	5,400.00	4,531.21	1,569.74	1,512.40	27.376	ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,000.00	4,995.95	1,616.59	1,552.73	25.315	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,300.00	6,654.50	2,446.05	2,250.81	12.528	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	8,414.76	6,655.31	2,443.36	2,248.49	12.538	CC, ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,684.11	6,698.18	2,315.43	2,100.11	10.753	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,700.00	6,698.29	2,315.49	2,100.00	10.745	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	9,900.00	6,699.69	2,325.48	2,107.99	10.693	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #1	18,041.17	6,838.00	1,770.46	1,363.26	4.348	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,826.36	6,774.34	2,369.50	2,103.86	8.920	CC
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,900.00	6,773.64	2,370.64	2,102.99	8.857	ES
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	17,100.00	6,771.77	2,385.24	2,113.59	8.780	SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,337.00	6,825.61	126.93	70.26	2.240	CC, ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	8,400.00	6,825.98	141.70	70.48	1.990	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,747.61	6,740.74	2,724.19	2,381.56	7.951	CC
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,800.00	6,741.11	2,724.69	2,380.56	7.918	ES
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	15,100.00	6,743.22	2,746.88	2,395.76	7.823	SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,693.89	6,731.32	1,553.82	1,239.65	4.946	CC
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,700.00	6,731.36	1,553.83	1,239.46	4.943	ES
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,800.00	6,732.06	1,557.43	1,240.30	4.911	SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	2,813.87	2,504.60	999.61	979.30	49.219	CC, ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	9,500.00	6,633.44	2,179.15	2,096.03	26.218	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	18,041.17	6,851.00	1,299.75	947.55	3.690	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	687.73	688.40	236.66	233.68	79.420	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	700.00	700.40	236.68	233.63	77.592	ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,121.45	3,506.67	2,915.64	5.933	SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	850.91	853.15	218.46	214.66	57.462	CC, ES
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,000.00	3,286.16	2,694.40	5.553	SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	984.71	988.01	200.56	196.13	45.202	CC
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	1,000.00	1,002.77	200.60	196.07	44.245	ES
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	18,041.17	17,952.53	3,067.59	2,475.61	5.182	SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	1,045.75	1,054.00	182.18	177.56	39.425	CC, ES
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,988.98	2,771.78	2,179.24	4.678	SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	1,073.43	1,082.71	169.47	164.85	36.683	CC, ES
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,909.84	2,629.14	2,035.54	4.429	SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	1,089.89	1,100.22	157.87	153.25	34.171	CC
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,110.57	157.89	153.23	33.818	ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,950.05	2,411.21	1,817.56	4.062	SF

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

### Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 17N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 17N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	1,071.46	1,078.69	147.40	142.88	32.619	CC, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	18,041.17	17,841.50	2,191.52	1,596.44	3.683	SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,000.00	134.98	130.76	31.995	CC, ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,878.45	1,971.86	1,376.35	3.311	SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,001.00	119.95	115.73	28.417	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,050.99	1,753.97	1,155.75	2.932	SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,001.00	104.95	100.73	24.863	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,973.12	1,533.67	935.16	2.562	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	0.00	1.00	89.95			
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,001.00	89.95	85.73	21.310	ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,000.53	1,316.44	719.61	2.206	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,001.00	74.95	70.72	17.755	CC, ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,953.18	1,095.48	498.10	1.834	SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,001.00	59.94	55.72	14.201	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,999.44	879.18	286.45	1.483	Level 3, SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,001.00	44.91	40.69	10.641	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	17,957.14	657.59	61.89	1.104	Level 3, SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	1,000.00	1,000.00	29.96	25.74	7.101	CC
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	18,041.17	17,951.74	441.04	-85.00	0.838	Level 3, ES, SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	1,000.00	14.96	10.74	3.545	CC
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,390.91	17,411.90	199.34	-131.73	0.602	Level 3, ES, SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	900.00	900.00	15.01	11.24	3.982	CC
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,142.07	230.00	-137.28	0.626	Level 3, ES, SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	800.00	799.00	30.01	26.70	9.047	CC
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	18,041.17	18,103.37	440.50	-106.56	0.805	Level 3, ES, SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	700.00	699.00	45.04	42.17	15.705	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,253.05	660.48	83.97	1.146	Level 3, SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	599.00	60.00	57.58	24.808	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,245.87	876.37	284.52	1.481	Level 3, SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	498.00	75.04	73.07	38.154	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,302.57	1,095.47	503.49	1.851	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	398.00	89.99	88.48	59.316	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,429.12	1,316.15	726.58	2.232	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	297.00	104.98	103.91	98.533	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	18,041.17	18,462.12	1,533.65	943.61	2.599	SF

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

Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 17N
<b>Project:</b>	WELD COUNTY, COLORADO (TRUE)	<b>TVD Reference:</b>	KB 23ft @ 4742.00usft
<b>Reference Site:</b>	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	<b>MD Reference:</b>	KB 23ft @ 4742.00usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	True
<b>Reference Well:</b>	GEORGE 17N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference	Offset	Distance		Separation Factor	Warning
	Measured Depth (usft)	Measured Depth (usft)	Between Centres (usft)	Between Ellipses (usft)		
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	1,008.58	979.51	2,491.13	2,488.44	928.280	CC, ES
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	12,800.00	6,678.72	3,013.48	2,859.04	19.512	SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	1,000.00	987.00	1,455.22	1,433.58	67.262	CC, ES
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	11,600.00	6,713.60	2,725.58	2,466.08	10.503	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,850.00	18,757.30	3,963.33	3,601.95	10.967	ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	18,041.17	8,576.57	3,958.48	3,617.67	11.615	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	7,850.00	18,931.07	3,818.36	3,454.49	10.494	SF
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	18,041.17	8,747.41	3,738.95	3,395.49	10.886	CC, ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	100.00	57.71	2,048.63	2,048.48	10,000.000	CC
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	200.00	153.90	2,048.84	2,048.35	4,218.289	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	9,600.00	6,771.00	3,997.27	3,900.33	41.232	SF
<b>EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo</b>	<b>7,684.27</b>	<b>10,094.58</b>	<b>144.01</b>	<b>92.99</b>	<b>2.823</b>	<b>CC</b>
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,750.00	10,097.88	160.97	89.71	2.259	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,800.00	10,100.53	191.71	104.08	2.188	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	1,000.00	969.00	1,269.20	1,248.00	59.862	CC
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	1,100.00	1,068.92	1,270.43	1,247.01	54.246	ES
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	10,400.00	6,687.19	3,013.27	2,781.20	12.985	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	1,062.52	1,013.85	2,394.52	2,391.62	824.831	CC
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	1,100.00	1,051.53	2,394.58	2,391.58	799.962	ES
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	10,900.00	6,654.05	4,235.38	4,129.98	40.186	SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	2,511.46	2,268.69	1,920.29	1,904.05	118.201	CC
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	2,600.00	2,344.19	1,920.95	1,903.47	109.894	ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	9,800.00	6,641.47	3,218.92	3,131.93	37.002	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
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	36.82	36.82	0.00	0.04	-118.17	-3,172.93	-5,924.92	6,721.03				
100.00	100.00	136.35	136.35	0.09	0.15	-118.17	-3,172.97	-5,924.91	6,721.04	6,720.80	0.24	N/A	
200.00	200.00	1,503.00	1,483.39	0.31	4.30	-117.07	-3,001.71	-5,873.64	6,712.93	6,708.67	4.26	1,575.558	
300.00	300.00	1,589.00	1,566.12	0.54	4.72	-116.92	-2,978.98	-5,867.75	6,694.44	6,689.68	4.76	1,407.062	
400.00	400.00	1,660.10	1,634.63	0.76	5.04	-116.79	-2,960.54	-5,863.00	6,676.37	6,671.16	5.21	1,282.369	
500.00	500.00	1,785.15	1,755.21	0.99	5.63	-116.58	-2,928.70	-5,853.91	6,658.04	6,652.15	5.90	1,129.047	
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-116.47	-2,913.33	-5,849.88	6,640.13	6,633.78	6.35	1,046.075	
700.00	700.00	1,905.70	1,871.47	1.44	6.22	-116.37	-2,897.80	-5,846.14	6,622.81	6,616.00	6.80	973.373	
800.00	800.00	2,069.49	2,029.72	1.66	7.00	-116.09	-2,857.11	-5,834.82	6,605.36	6,597.69	7.67	861.126	
900.00	900.00	2,219.95	2,174.86	1.88	7.76	-115.84	-2,819.38	-5,822.75	6,586.78	6,578.27	8.51	774.248	
1,000.00	1,000.00	2,321.21	2,272.21	2.11	8.29	-115.65	-2,792.64	-5,814.85	6,567.88	6,558.72	9.16	716.948	
1,100.00	1,099.92	2,403.69	2,351.55	2.32	8.71	121.75	-2,771.00	-5,808.50	6,551.00	6,541.30	9.71	674.813	
1,200.00	1,199.35	2,496.92	2,441.15	2.52	9.19	122.44	-2,746.14	-5,801.67	6,537.99	6,527.69	10.30	634.698	
1,300.00	1,297.81	2,663.84	2,601.28	2.77	10.08	123.29	-2,700.98	-5,788.24	6,527.91	6,516.64	11.27	579.413	
1,400.00	1,394.82	2,767.06	2,700.02	3.09	10.65	123.87	-2,671.99	-5,780.22	6,521.86	6,509.81	12.05	541.377	
1,498.47	1,488.47	2,848.57	2,777.85	3.53	11.10	124.28	-2,648.65	-5,773.82	6,519.69	6,506.87	12.82	508.516	
1,500.00	1,489.91	2,849.65	2,778.88	3.54	11.11	124.29	-2,648.34	-5,773.74	6,519.69	6,506.85	12.83	508.065	
1,600.00	1,582.61	2,935.35	2,860.81	4.12	11.58	124.61	-2,624.11	-5,767.01	6,521.96	6,508.21	13.75	474.393	
1,700.00	1,672.47	2,957.00	2,881.49	4.87	11.69	124.48	-2,617.94	-5,765.32	6,528.89	6,514.38	14.51	449.897	
1,800.00	1,759.05	3,007.29	2,929.61	5.80	11.96	124.36	-2,603.81	-5,761.67	6,540.70	6,525.16	15.54	420.885	

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