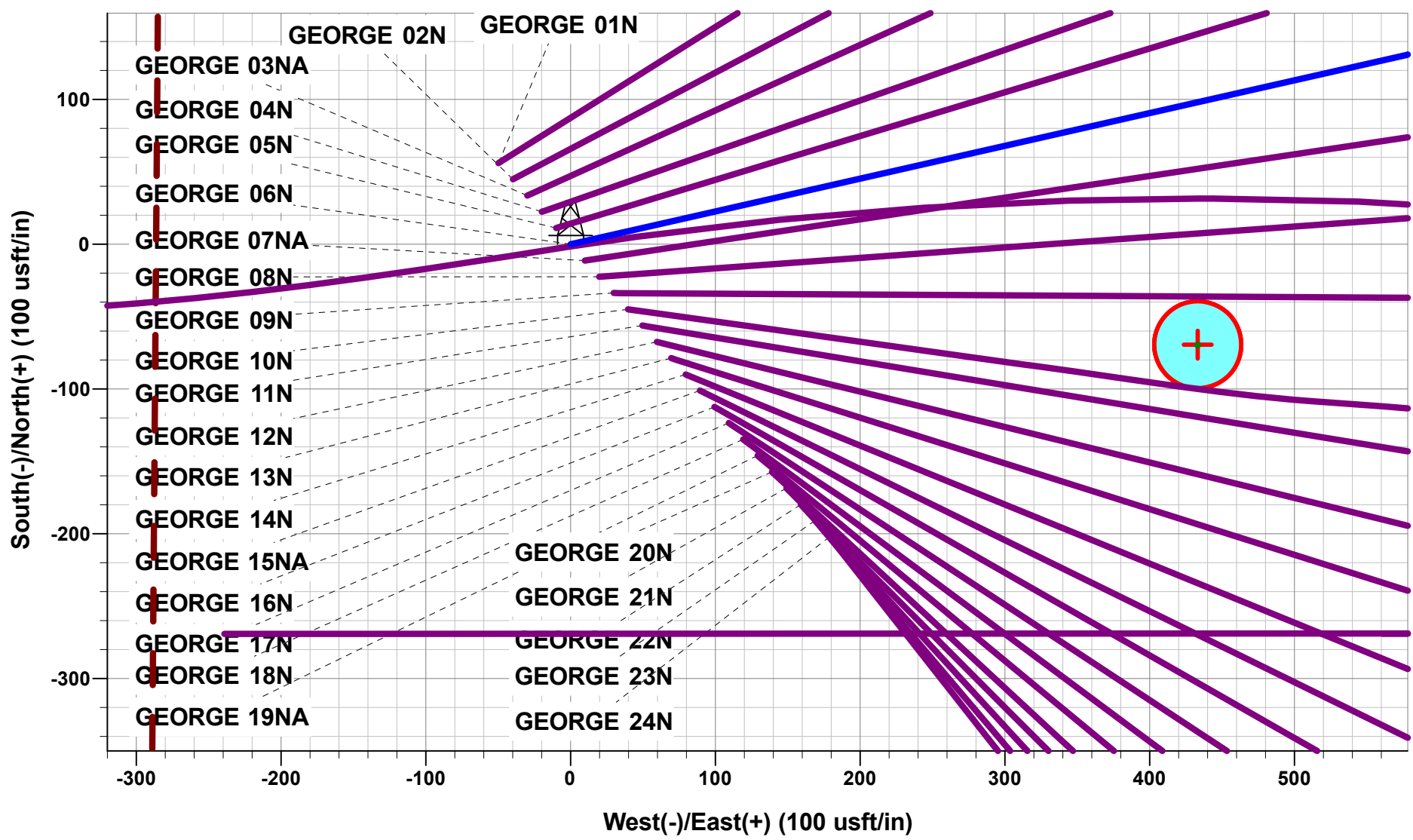




Project: WELD COUNTY, COLORADO (TRUE)  
Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)  
Well: GEORGE 06N  
Wellbore: ORIGINAL WELLBORE  
Design: PROPOSAL #1

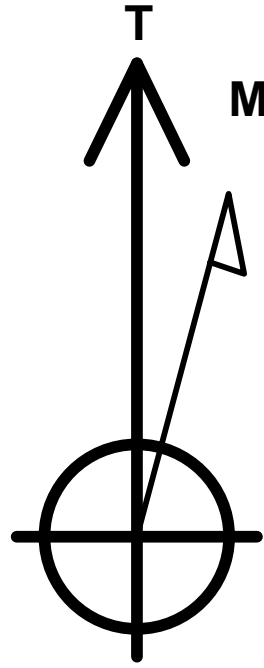
ANNOTATIONS

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: 1828ft FNL & 2346ft FEL of Sec 21
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	START NUDGE (3°/100ft BUR)
1956.68	34.70	77.24	1887.26	75.02	331.30	-324.69	339.69	EOB TO 34.7° INC
5595.12	34.70	77.24	4878.56	532.47	2351.47	-2304.58	2411.00	END OF TANGENT
6751.81	0.00	0.00	5965.82	607.49	2682.77	-2629.28	2750.69	EOD TO VERTICAL
6851.81	0.00	0.00	6065.82	607.49	2682.77	-2629.28	2750.69	KOP (8°/100ft BUR)
7789.30	75.00	269.99	6757.61	607.40	2151.94	-2099.97	3281.52	EP: 1215ft FNL & 200ft FEL of Sec 21
7972.18	89.63	269.99	6782.00	607.37	1971.20	-1919.75	3462.26	HZ LANDING POINT
13546.18	89.63	269.99	6817.99	606.41	-3602.68	3638.17	9036.14	END OF TANGENT
13845.68	89.63	264.00	6819.94	590.71	-3901.63	3935.08	9335.64	EOT TO 264° AZ
13945.68	89.63	264.00	6820.59	580.26	-4001.08	4033.46	9435.64	END OF TANGENT
14245.17	89.62	269.99	6822.55	564.57	-4300.02	4330.36	9735.12	EOT TO 269.99° AZ
14745.17	89.62	269.99	6825.83	564.48	-4800.01	4828.92	10235.11	END OF TANGENT
14945.66	89.62	274.00	6827.15	571.46	-5000.34	5029.20	10435.60	EOT TO 274° AZ
16249.13	89.62	274.00	6835.69	662.38	-6300.60	6332.62	11739.04	END OF TANGENT
16449.63	89.62	269.99	6837.01	669.36	-6500.93	6532.91	11939.54	EOT TO 269.99° AZ
16735.70	89.62	269.99	6838.90	669.31	-6787.00	6818.15	12225.60	END OF TANGENT
16896.70	89.62	266.77	6839.97	664.76	-6947.91	6978.26	12386.60	EOT TO 266.77° AZ
17950.05	89.62	266.77	6847.01	605.41	-7999.56	8022.44	13439.92	BHL: 1216ft FNL & 200ft FWL of Sec 20



PROPOSED LOCAL COORDINATES:

SHL: 1828ft FNL & 2346ft FEL of Sec 21  
EP: 1215ft FNL & 200ft FEL of Sec 21  
BHL: 1216ft FNL & 200ft FWL of Sec 20

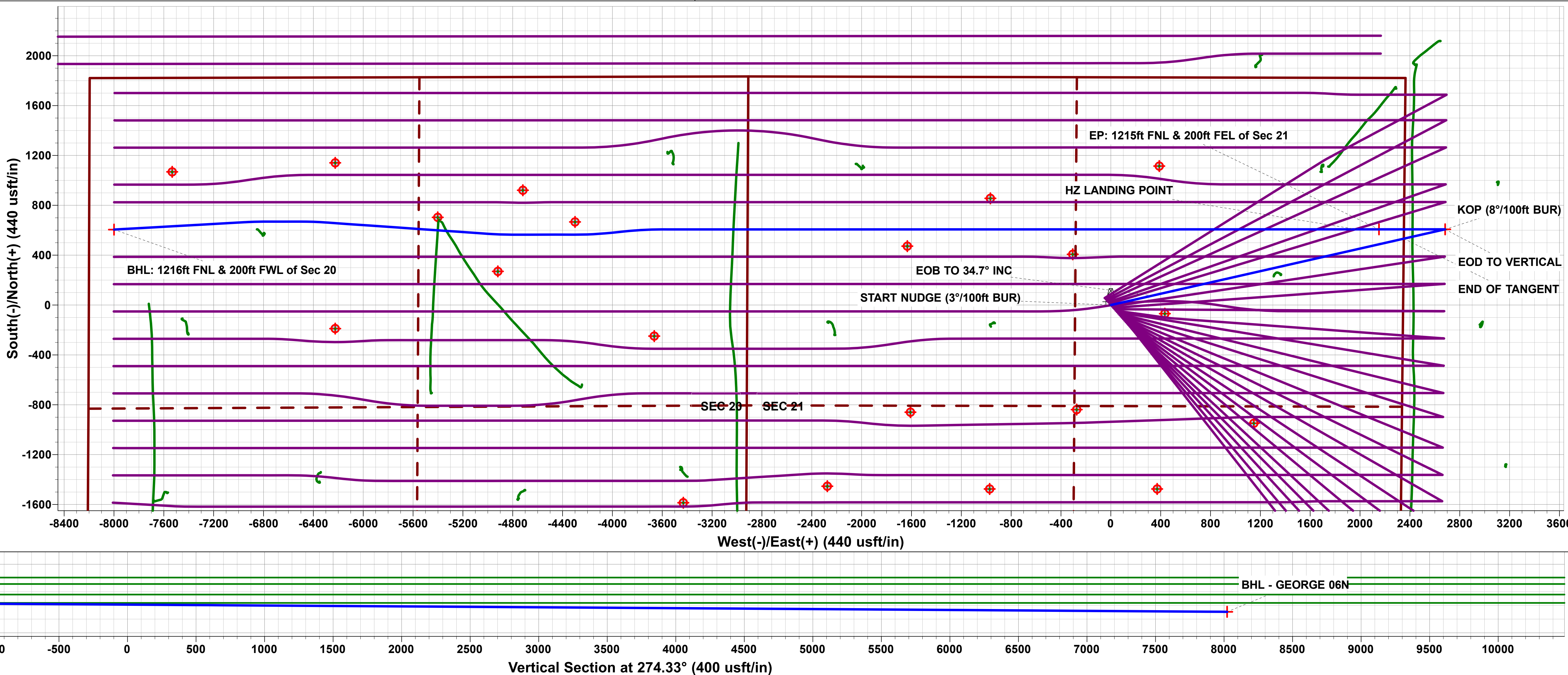
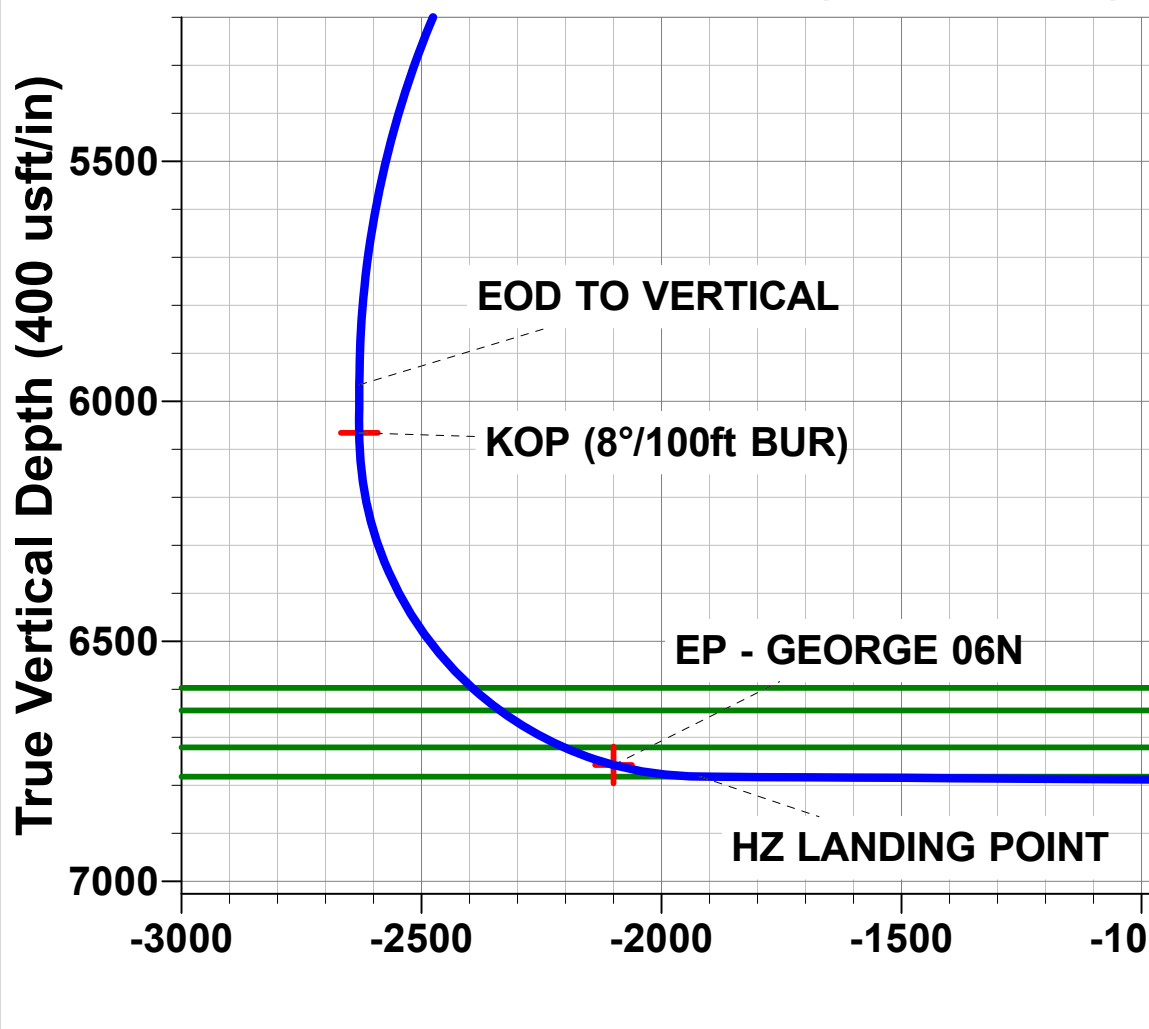
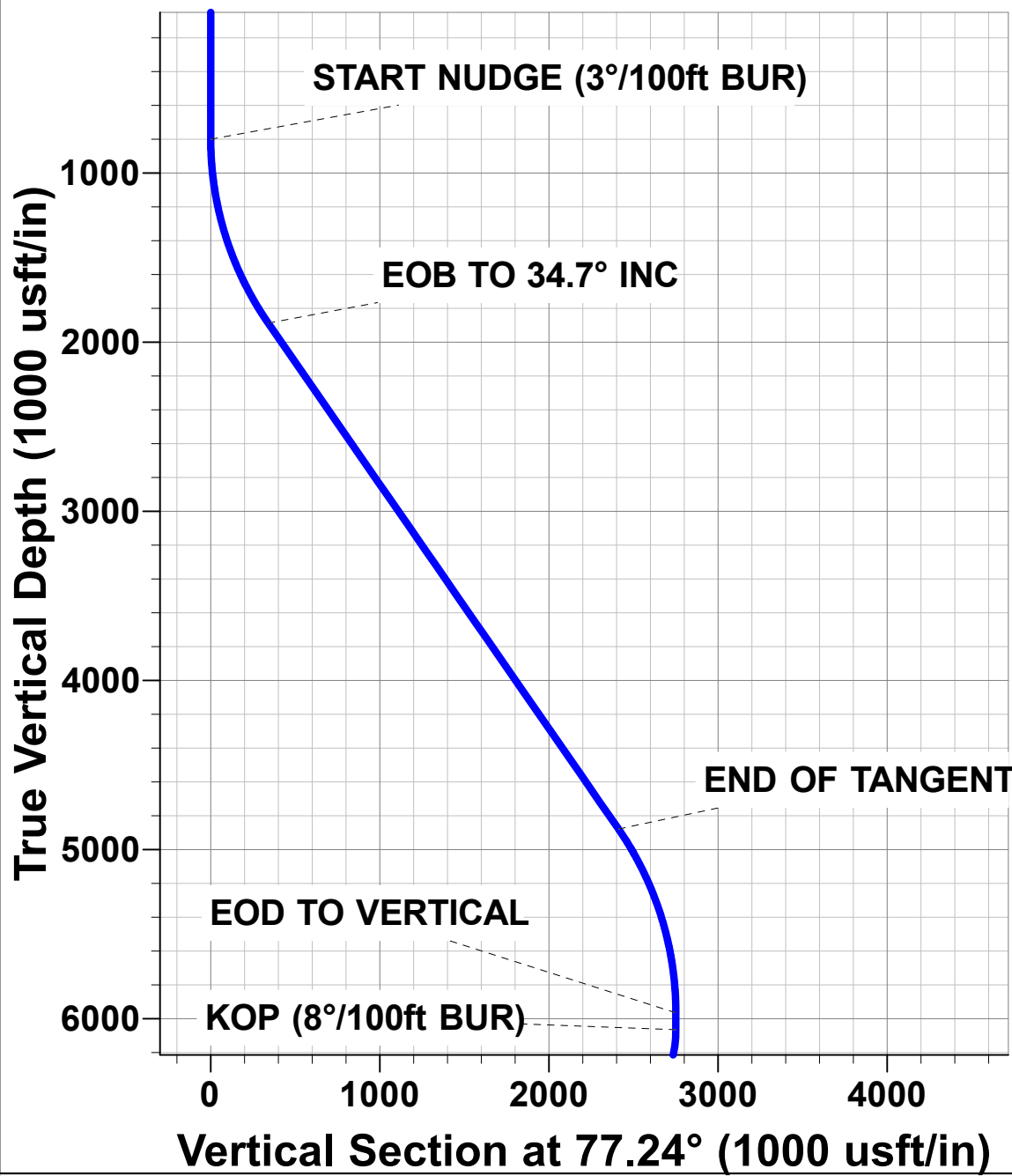


Azimuths to True North  
Magnetic North: 7.74°

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 06N	6847.00	605.39	-7999.56	1354111.27	3255649.65	40.301809	-104.583393
EP - GEORGE 06N	6757.61	607.40	2151.94	1354221.49	3265800.12	40.301817	-104.546998
KOP - GEORGE 06N	6065.82	607.49	2682.77	1354227.24	3266330.90	40.301818	-104.545095



# **PDC ENERGY**

**WELD COUNTY, COLORADO (TRUE)**

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

**GEORGE 06N**

**ORIGINAL WELLBORE**

**PROPOSAL #1**

## **Anticollision Report**

**29 May, 2021**

# Anticollision Report

<b>Company:</b>	PDC ENERGY	<b>Local Co-ordinate Reference:</b>	Well GEORGE 06N
<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 06N	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	ORIGINAL WELLBORE	<b>Database:</b>	Database 1
<b>Reference Design:</b>	PROPOSAL #1	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	2021-05-29		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.00	17,950.05	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 #	15,238.85	7,060.00	2,690.89	2,452.11	11.269	CC
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,349.13	7,052.47	2,693.13	2,450.58	11.103	ES
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,800.00	7,048.95	2,748.75	2,494.80	10.824	SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,733.64	5,982.48	4,592.61	4,519.84	63.107	CC
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,751.81	6,001.52	4,592.64	4,519.82	63.071	ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,900.00	6,157.31	4,593.78	4,520.66	62.827	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	3,533.99	2,300.00	3,940.65	3,913.25	143.843	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	3,600.00	2,338.65	3,940.92	3,912.68	139.535	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,856.99	6,106.34	4,044.93	3,981.59	63.852	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	833.37	863.27	3,663.70	3,660.97	1,338.369	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	12,800.00	6,924.49	4,184.23	4,010.10	24.028	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	2,799.83	2,562.46	3,087.72	3,064.57	133.394	CC
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	2,900.00	2,644.95	3,088.25	3,063.66	125.565	ES
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	9,900.00	6,805.35	3,926.35	3,830.60	41.007	SF
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,645.64	6,822.36	2,050.87	1,842.50	9.843	CC
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,700.00	6,822.66	2,051.59	1,841.76	9.778	ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,900.00	6,823.77	2,070.72	1,856.95	9.686	SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,375.12	6,809.89	2,192.20	1,882.84	7.086	CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,400.00	6,810.05	2,192.34	1,882.30	7.071	ES
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,700.00	6,811.99	2,212.05	1,895.80	6.995	SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,717.59	6,900.96	3,412.91	3,121.30	11.704	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,800.00	6,902.00	3,413.91	3,120.55	11.637	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,950.05	6,903.89	3,420.80	3,124.74	11.555	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	17,950.05	6,939.10	1,013.91	878.95	7.513	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,249.33	6,772.70	199.86	-30.16	0.869	Level 3, CC, ES, SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,576.76	6,793.28	134.37	-126.98	0.514	Level 3, CC, ES, SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	800.00	815.00	4,229.03	4,211.29	238.398	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	900.00	914.95	4,230.18	4,210.21	211.825	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	12,400.00	6,825.59	4,946.81	4,668.41	17.768	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,150.33	6,855.07	2,002.78	1,754.29	8.060	CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,200.00	6,855.34	2,003.40	1,753.15	8.006	ES
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,500.00	6,856.85	2,022.65	1,765.61	7.869	SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,138.29	6,897.58	4,294.03	3,881.78	10.416	CC
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,200.00	6,898.00	4,294.47	3,880.80	10.381	ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,700.00	6,901.34	4,330.61	3,907.73	10.241	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	509.03	482.03	2,815.74	2,814.34	2,012.084	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 06N
<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 06N	<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 LEONARD #1 - Wellbore #1 - Wellbore #1	900.00	880.28	2,816.12	2,813.70	1,166.837	ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	11,100.00	6,732.88	3,741.91	3,632.99	34.357	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	800.00	816.00	2,977.65	2,959.95	168.237	CC
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	900.00	915.95	2,979.04	2,959.11	149.475	ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	11,700.00	6,822.07	3,502.82	3,238.89	13.272	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	10,912.73	6,773.49	769.59	657.82	6.885	CC, ES
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,000.00	6,773.37	774.52	660.87	6.815	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,200.00	6,847.37	482.68	97.31	1.253	Level 3, ES, SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,206.63	6,847.41	482.63	97.51	1.253	Level 3, CC
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,444.73	6,899.13	744.75	460.67	2.622	CC, ES, SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,501.36	6,766.63	616.44	438.15	3.457	CC, ES, SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,853.40	6,821.55	296.82	-50.89	0.854	Level 3, CC, ES, SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,909.09	6,910.74	4,733.77	4,300.15	10.917	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,950.05	6,911.00	4,733.93	4,299.34	10.893	ES, SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	17,950.05	6,900.00	2,159.91	1,889.81	7.997	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,763.47	4,554.00	5,292.64	4,950.62	15.474	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,900.00	4,554.00	5,294.40	4,949.51	15.351	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,950.05	4,554.00	5,295.91	4,950.00	15.310	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,020.25	7,155.55	2,866.43	2,571.39	9.715	CC
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,100.00	7,156.42	2,867.54	2,571.36	9.682	ES
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,200.00	7,157.50	2,872.06	2,574.80	9.662	SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	0.00	6.96	3,677.30			
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	800.00	802.00	3,677.85	3,675.30	1,441.112	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	11,900.00	6,823.65	4,462.95	4,323.49	32.000	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,809.78	6,990.36	3,963.65	3,787.38	22.486	CC
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,900.00	6,991.67	3,964.68	3,786.16	22.209	ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	14,000.00	7,007.09	4,108.17	3,909.98	20.729	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,223.93	6,960.50	3,879.24	3,665.06	18.112	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,300.00	6,960.39	3,880.47	3,664.14	17.938	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	15,000.00	6,959.48	3,972.20	3,740.20	17.122	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,307.81	7,067.25	1,307.45	1,066.91	5.435	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,349.13	7,067.05	1,308.11	1,065.94	5.402	ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,500.00	7,066.30	1,321.50	1,075.37	5.369	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,206.93	7,215.75	1,212.88	992.26	5.498	CC, ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,245.17	7,215.44	1,213.74	992.85	5.495	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	1,808.64	1,478.04	3,229.01	3,219.15	327.515	CC
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	1,900.00	1,515.64	3,229.46	3,218.53	295.480	ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	11,100.00	6,895.00	4,660.72	4,537.02	37.678	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	12,971.58	10,175.71	112.16	32.76	1.413	Level 3, CC, ES
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	13,000.00	10,174.27	115.70	33.41	1.406	Level 3, SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,707.34	10,175.00	700.21	439.13	2.682	CC, ES, SF
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,866.80	6,897.73	3,813.77	3,505.82	12.384	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,950.05	6,897.88	3,814.66	3,504.88	12.314	ES, SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,829.06	10,884.00	4,584.66	4,411.52	26.479	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,900.00	10,884.00	4,585.21	4,410.49	26.242	ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	14,900.00	10,884.00	4,995.81	4,768.37	21.965	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,114.21	6,857.81	843.86	460.70	2.202	CC, ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,200.00	6,858.37	848.21	462.05	2.197	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,457.83	6,888.72	435.93	15.91	1.038	Level 3, CC, ES, SF
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,511.06	6,833.77	3,342.27	3,028.85	10.664	CC
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,945.68	6,836.59	3,344.41	3,020.83	10.336	ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	14,200.00	6,838.25	3,371.70	3,043.68	10.279	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 06N
<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 06N	<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 BALBOA C20-23 - Wellbore #1 - Design #1	14,203.08	6,830.27	2,575.95	2,244.34	7.768	CC
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,245.17	6,830.55	2,576.61	2,243.89	7.744	ES
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,500.00	6,832.22	2,597.03	2,258.84	7.679	SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	14,851.74	6,851.53	3,377.22	3,028.11	9.674	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	14,900.00	6,851.85	3,377.97	3,027.41	9.636	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,349.13	6,854.79	3,428.22	3,066.51	9.478	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,392.94	6,745.67	1,918.72	1,743.77	10.967	CC
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,400.00	6,745.79	1,918.73	1,743.58	10.955	ES
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,700.00	6,751.06	1,939.03	1,757.97	10.709	SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,851.81	6,004.82	1,702.25	1,528.37	9.790	CC, ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,000.00	6,151.96	1,712.60	1,535.99	9.697	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,851.81	5,986.82	2,679.26	2,503.42	15.237	CC, ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,100.00	6,230.08	2,705.29	2,525.07	15.011	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,496.53	5,629.36	1,962.99	1,901.12	31.727	CC
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,600.00	5,732.42	1,963.10	1,901.01	31.616	ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,851.81	5,988.95	1,963.73	1,901.40	31.508	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,851.81	5,979.82	1,753.21	1,611.50	12.372	CC, ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,000.00	6,126.96	1,767.66	1,622.99	12.218	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design #1	13,409.90	6,843.11	4,571.46	4,260.54	14.703	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design #1	13,945.68	6,846.59	4,576.72	4,252.65	14.122	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Design #1	14,500.00	6,850.22	4,658.68	4,323.82	13.913	SF
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Design #1	6,851.81	5,998.82	3,764.82	3,585.04	20.941	CC
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Design #1	6,900.00	6,046.98	3,765.52	3,584.76	20.832	ES
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Design #1	7,300.00	6,418.33	3,824.66	3,637.57	20.442	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,958.28	2,673.71	1,178.49	1,104.40	15.907	CC
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	3,100.00	2,790.22	1,181.25	1,103.03	15.103	ES
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	9,000.00	6,751.64	1,568.99	1,362.26	7.590	SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,260.49	6,844.05	4,846.97	4,701.71	33.367	CC
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	12,400.00	6,845.43	4,848.98	4,700.10	32.570	ES
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	14,200.00	6,860.12	5,181.61	4,998.72	28.332	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design #1	11,551.97	6,808.12	1,466.28	1,203.96	5.590	CC
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design #1	11,600.00	6,808.43	1,467.06	1,203.48	5.566	ES
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Design #1	11,700.00	6,809.07	1,473.73	1,207.98	5.546	SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design #1	800.00	797.00	882.46	865.10	50.843	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design #1	900.00	896.95	883.80	864.21	45.121	ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Design #1	10,400.00	6,794.68	1,457.23	1,222.70	6.214	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design #1	800.00	798.00	2,144.11	2,126.74	123.463	CC
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design #1	900.00	897.95	2,144.95	2,125.35	109.451	ES
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Design #1	10,700.00	6,797.61	2,791.82	2,551.25	11.605	SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	5,412.90	4,686.47	3,365.89	3,312.29	62.795	CC
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	5,500.00	4,756.34	3,366.26	3,311.53	61.501	ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,900.00	6,041.98	3,399.26	3,337.39	54.940	SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,851.81	5,997.82	1,266.02	1,110.09	8.119	CC, ES
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,950.00	6,095.71	1,272.38	1,114.51	8.060	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,400.00	5,500.00	3,031.16	2,969.72	49.336	CC
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,600.00	5,724.71	3,031.23	2,969.29	48.935	ES
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,851.81	5,975.79	3,032.61	2,970.46	48.791	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	4,231.94	3,711.83	4,095.85	3,984.53	36.796	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	4,600.00	4,014.43	4,101.20	3,979.09	33.586	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	8,100.00	6,736.82	4,291.38	4,094.86	21.837	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Design #1	6,851.81	6,004.82	5,001.81	4,820.85	27.641	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Design #1	6,900.00	6,052.98	5,002.33	4,820.41	27.497	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 06N
<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 06N	<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 HERBST, CONRAD #1 - Wellbore #1 - Design	7,500.00	6,568.08	5,097.20	4,906.35	26.708	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,639.04	6,858.46	2,131.30	1,842.05	7.368	CC
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,700.00	6,858.41	2,132.17	1,841.91	7.346	ES
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,800.00	6,858.32	2,137.37	1,846.05	7.337	SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,435.73	6,867.36	3,918.94	3,554.20	10.744	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,600.00	6,868.44	3,922.39	3,552.59	10.607	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,200.00	6,872.37	3,992.77	3,608.40	10.388	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,788.17	6,874.12	4,641.57	4,293.42	13.332	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,800.00	6,874.19	4,641.61	4,293.12	13.319	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,700.00	6,880.09	4,774.98	4,405.53	12.925	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,862.52	6,003.46	559.56	525.48	16.421	CC, ES, SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	800.00	828.00	2,781.51	2,763.53	154.776	CC
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	11,500.00	6,832.78	2,935.00	2,673.44	11.221	ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	12,000.00	6,836.01	2,982.97	2,710.43	10.945	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,211.08	6,835.37	3,404.58	3,125.08	12.181	CC
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,300.00	6,835.95	3,405.74	3,123.92	12.085	ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,900.00	6,839.82	3,473.58	3,178.85	11.786	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,219.09	6,811.42	2,060.29	1,781.03	7.378	CC
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,300.00	6,811.95	2,061.88	1,780.52	7.328	ES
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,500.00	6,813.24	2,079.35	1,793.83	7.283	SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	4,447.76	3,880.27	4,824.38	4,706.90	41.069	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	4,900.00	4,252.07	4,831.24	4,700.50	36.953	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	7,950.00	6,726.51	4,986.82	4,791.30	25.505	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,155.28	6,779.55	846.64	703.87	5.930	CC, ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,200.00	6,779.82	847.82	703.92	5.892	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	800.00	821.00	1,767.29	1,749.44	99.007	CC
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	900.00	920.95	1,769.18	1,749.10	88.102	ES
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,200.00	6,823.84	2,101.68	1,848.16	8.290	SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,075.40	1,957.86	163.38	114.79	3.363	CC
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	2,100.00	1,978.08	163.98	114.70	3.328	ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	9,600.00	6,765.51	682.43	465.10	3.140	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	1,175.92	1,154.50	1,521.32	1,495.85	59.725	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	1,500.00	1,465.43	1,523.98	1,490.80	45.930	ES
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	9,900.00	6,775.45	2,108.40	1,885.07	9.441	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	2,503.26	2,322.21	2,617.85	2,601.97	164.907	CC
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	2,600.00	2,400.00	2,618.45	2,601.33	152.961	ES
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	10,100.00	6,723.86	3,319.29	3,230.99	37.592	SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,245.17	6,801.55	102.30	-228.68	0.309	Level 3, ES, SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,245.21	6,801.55	102.30	-228.65	0.309	Level 3, CC
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,349.13	6,834.79	103.92	-257.44	0.288	Level 3, ES, SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,355.38	6,834.84	103.73	-253.48	0.290	Level 3, CC
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,452.80	5,567.68	810.59	749.91	13.357	CC, ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,600.00	5,702.90	812.93	751.68	13.274	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	2,482.43	2,270.49	4,496.43	4,436.47	75.000	CC
EXIST VERT NIX #1 - Wellbore #1 - Design #1	2,900.00	2,613.80	4,502.71	4,430.56	62.412	ES
EXIST VERT NIX #1 - Wellbore #1 - Design #1	10,100.00	6,746.74	5,165.06	4,941.26	23.080	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	800.00	785.00	4,131.41	4,114.28	241.118	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	1,100.00	1,083.77	4,134.73	4,110.89	173.469	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	11,200.00	6,787.84	4,988.36	4,739.77	20.067	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #	17,950.05	6,913.00	1,033.43	695.84	3.061	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,744.21	6,887.96	102.19	-148.16	0.408	Level 3, CC, ES, SF
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	3,616.54	3,374.63	1,995.49	1,965.16	65.801	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 06N
<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 06N	<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 THOUTT #2 - Wellbore #1 - Wellbore #1	3,700.00	3,438.24	1,996.13	1,964.73	63.578	ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	9,000.00	6,898.63	2,401.55	2,329.79	33.469	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,663.51	6,817.30	356.37	12.73	1.037	Level 3, CC, ES, SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,634.16	6,808.56	854.54	538.35	2.703	CC, ES
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,700.00	6,808.99	856.32	539.37	2.702	SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,759.95	3,312.35	43.41	11.33	1.353	Level 3, CC, ES, SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	17,950.05	6,926.00	3,506.25	3,080.55	8.236	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	518.92	517.39	73.94	71.87	35.743	CC, ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,121.45	1,095.58	505.50	1.857	SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	635.17	633.75	58.24	55.65	22.481	CC, ES
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,000.00	878.19	289.88	1.493	Level 3, SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	727.13	725.65	42.97	39.98	14.352	CC, ES
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	17,950.05	17,952.53	667.27	107.28	1.192	Level 3, SF
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	808.20	807.62	27.71	24.37	8.278	CC
GEORGE 04N - ORIGINAL WELLBORE - PROPOSAL #	17,300.00	17,345.05	324.26	-202.04	0.616	Level 3, ES, SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	860.08	859.30	13.70	10.13	3.836	CC
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	16,800.00	16,762.83	170.85	-113.43	0.601	Level 3, SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,909.84	230.01	-142.28	0.618	Level 3, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	974.08	973.79	13.30	9.22	3.261	CC
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	17,950.05	17,840.53	252.24	-49.28	0.837	Level 3, ES, SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	1,031.81	1,031.17	26.32	21.97	6.053	CC
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,877.09	444.56	-51.24	0.897	Level 3, ES, SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,087.77	1,087.68	39.45	34.84	8.546	CC
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	1,100.00	1,099.77	39.50	34.82	8.450	ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,048.53	657.35	60.31	1.101	Level 3, SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	1,132.52	1,131.84	52.59	47.75	10.865	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,970.04	879.58	287.75	1.486	Level 3, SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,171.64	1,170.30	65.77	60.73	13.042	CC, ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,996.27	1,095.47	498.60	1.835	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,207.19	1,205.11	78.93	73.70	15.089	CC, ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,948.31	1,316.69	722.02	2.214	SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,240.03	1,237.14	92.07	86.65	16.979	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,994.03	1,533.66	938.14	2.575	SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,270.67	1,266.92	105.25	99.65	18.790	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	17,957.14	1,753.62	1,158.36	2.946	SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	1,255.14	1,248.04	119.45	113.97	21.765	CC, ES
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	17,950.05	17,944.65	1,975.80	1,382.39	3.330	SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,196.84	1,187.09	137.49	132.37	26.835	CC
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,200.00	1,189.97	137.49	132.35	26.757	ES
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,062.11	2,190.96	1,596.83	3.688	SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,100.22	1,089.89	157.87	153.25	34.170	CC, ES
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,029.46	2,411.18	1,817.86	4.064	SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	964.59	957.47	177.91	173.90	44.310	CC, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,130.65	2,629.11	2,036.59	4.437	SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	800.00	799.00	194.96	191.64	58.766	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	17,950.05	18,103.37	2,850.77	2,258.45	4.813	SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	700.00	699.00	209.99	207.12	73.218	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,241.32	3,067.31	2,475.80	5.186	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	599.00	224.95	222.53	93.011	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,234.02	3,287.24	2,696.51	5.565	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	498.00	239.98	238.02	122.024	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,290.53	3,506.39	2,915.72	5.936	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 06N
<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 06N	<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 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	398.00	254.94	253.42	168.037	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,417.36	3,724.58	3,134.51	6.312	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	297.00	269.92	268.86	253.357	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	17,950.05	18,450.28	3,944.47	3,355.58	6.698	SF
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	11,931.88	6,755.99	502.00	365.09	3.667	CC, ES, SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	10,910.31	6,787.97	249.09	3.00	1.012	Level 3, CC, ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,750.00	18,757.30	1,553.94	1,191.50	4.287	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	16,737.37	9,800.24	1,484.80	1,157.57	4.538	CC, ES
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	16,737.34	9,971.09	1,267.73	938.22	3.847	CC, ES
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	16,800.00	9,908.43	1,268.41	938.55	3.845	SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,450.00	6,652.36	1,140.99	1,063.85	14.791	SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,643.98	6,764.06	1,129.92	1,054.57	14.994	CC, ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,543.48	7,681.40	82.39	55.78	3.096	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,550.00	7,681.48	82.68	54.95	2.982	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,600.00	7,682.02	101.72	60.90	2.492	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,554.68	6,761.22	507.49	291.51	2.350	CC, ES, SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,777.58	6,731.56	1,305.29	1,235.94	18.822	CC, ES
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,900.00	6,731.59	1,311.01	1,241.04	18.735	SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,200.00	6,726.80	463.97	400.35	7.293	SF
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,253.89	6,726.47	460.83	397.72	7.302	CC, ES

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						Rule Assigned:						Offset Well Error: 0.00 usft	
Reference	Offset	Reference	Offset	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	36.80	36.80	0.00	0.04	-119.55	-3,296.46	-5,815.57	6,684.87						
100.00	100.00	136.25	136.25	0.09	0.15	-119.55	-3,296.50	-5,815.56	6,684.88	6,684.64	0.24	N/A			
200.00	200.00	1,531.90	1,511.18	0.31	4.44	-118.41	-3,117.56	-5,762.26	6,674.30	6,669.95	4.35	1,533.095			
300.00	300.00	1,598.32	1,575.10	0.54	4.76	-118.30	-3,100.06	-5,757.78	6,655.47	6,650.71	4.76	1,397.646			
400.00	400.00	1,695.38	1,668.65	0.76	5.20	-118.13	-3,075.06	-5,751.23	6,636.99	6,631.68	5.31	1,250.399			
500.00	500.00	1,797.34	1,766.97	0.99	5.69	-117.96	-3,049.11	-5,743.68	6,618.13	6,612.23	5.91	1,120.729			
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-117.88	-3,036.86	-5,740.52	6,599.92	6,593.61	6.30	1,047.133			
700.00	700.00	1,931.00	1,895.90	1.44	6.34	-117.73	-3,014.94	-5,735.22	6,582.22	6,575.37	6.86	960.016			
800.00	800.00	2,130.65	2,088.81	1.66	7.30	-117.40	-2,965.65	-5,720.54	6,564.04	6,556.19	7.86	835.437			
900.00	899.95	2,253.63	2,207.26	1.88	7.94	165.70	-2,934.06	-5,710.76	6,547.35	6,538.78	8.57	764.425			
1,000.00	999.63	2,342.00	2,292.21	2.10	8.39	165.96	-2,910.71	-5,703.88	6,535.51	6,526.38	9.13	715.803			
1,100.00	1,098.77	2,427.60	2,374.53	2.34	8.83	166.18	-2,888.18	-5,697.37	6,529.01	6,519.31	9.70	672.870			
1,189.53	1,186.83	2,567.98	2,509.39	2.60	9.56	166.50	-2,850.63	-5,686.78	6,527.54	6,517.03	10.51	621.246			
1,200.00	1,197.08	2,578.12	2,519.11	2.64	9.62	166.52	-2,847.90	-5,685.96	6,527.57	6,516.99	10.58	617.261			
1,300.00	1,294.31	2,700.00	2,635.90	3.00	10.28	166.78	-2,814.46	-5,676.04	6,530.41	6,519.05	11.36	574.659			
1,400.00	1,390.18	2,811.07	2,742.02	3.45	10.89	167.00	-2,782.86	-5,667.42	6,538.33	6,526.18	12.15	538.201			
1,500.00	1,484.43	2,893.07	2,820.40	4.01	11.34	167.13	-2,759.61	-5,660.97	6,551.40	6,538.57	12.83	510.777			
1,600.00	1,576.81	2,957.00	2,881.49	4.69	11.69	167.18	-2,741.47	-5,655.96	6,569.74	6,556.29	13.45	488.430			
1,700.00	1,667.06	3,002.29	2,924.82	5.48	11.94	167.14	-2,728.72	-5,652.65	6,593.79	6,579.77	14.02	470.348			
1,800.00	1,754.93	3,042.00	2,962.93	6.40	12.15	167.05	-2,717.83	-5,650.11	6,623.77	6,609.18	14.59	454.075			
1,900.00	1,840.18	3,198.95	3,113.59	7.45	12.98	167.28	-2,675.16	-5,639.56	6,658.70	6,643.01	15.69	424.480			

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