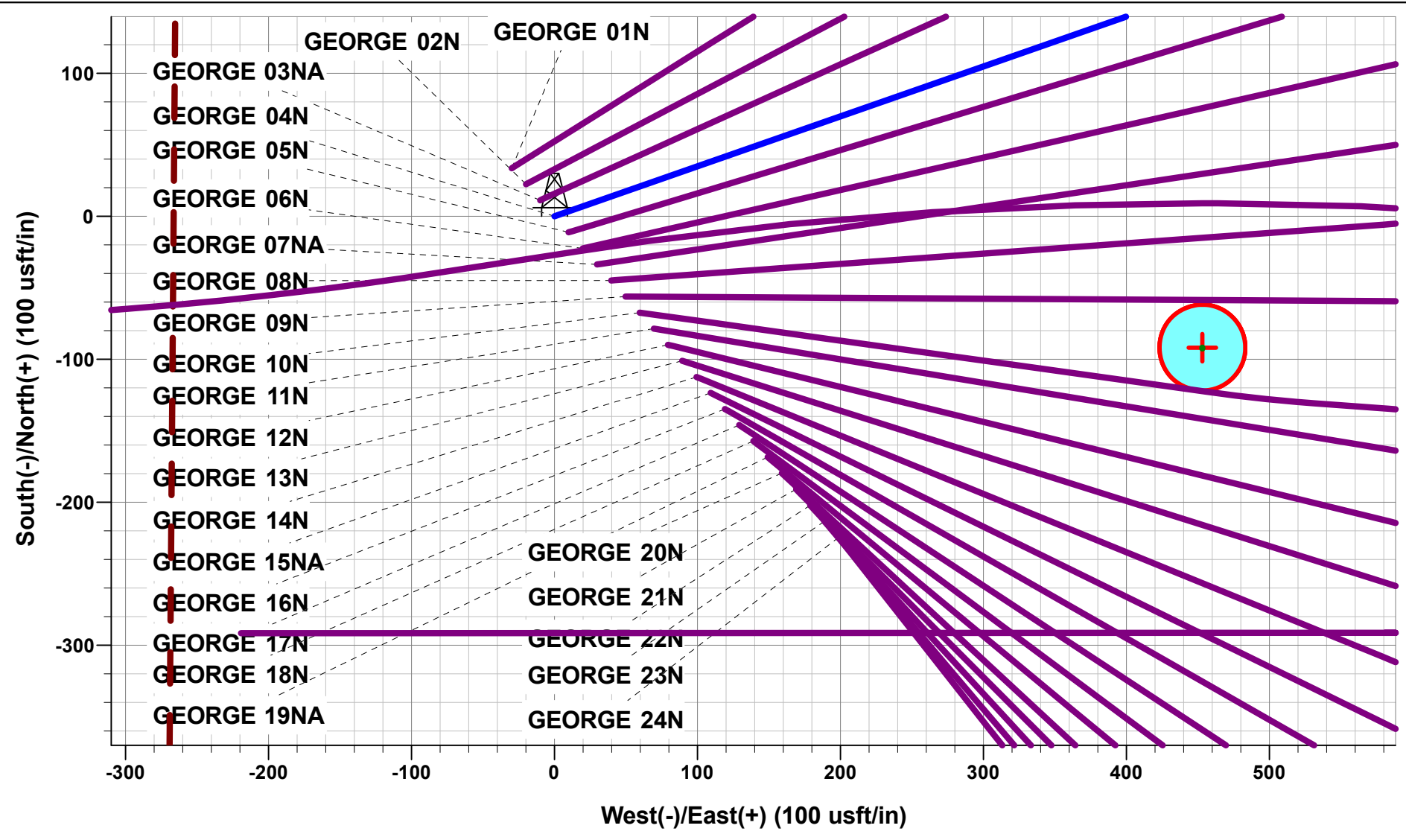




Project: WELD COUNTY, COLORADO (TRUE)
Site: SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
Well: GEORGE 04N
Wellbore: ORIGINAL WELLBORE
Design: PROPOSAL #1

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: 1805ft FNL & 2366ft FEL of Sec 21
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	START NUDGE (3°/100ft BUR)
1746.92	34.41	70.74	1679.22	110.22	315.45	-300.33	334.15	EOB TO 34.41° INC
5639.33	34.41	70.74	4890.60	835.69	2391.88	-2277.17	2533.67	END OF TANGENT
6786.25	0.00	0.00	5969.82	945.91	2707.33	-2577.49	2867.82	EOD TO VERTICAL
6886.25	0.00	0.00	6069.82	945.91	2707.33	-2577.49	2867.82	KOP (8°/100ft BUR)
7823.75	75.00	269.99	6761.61	945.82	2176.50	-2050.35	3398.65	EP *NEW*: 854.03ft FNL & 200ft FEL of Sec 21
8006.62	89.63	269.99	6786.00	945.79	1995.76	-1870.86	3579.39	HZ LANDING POINT
9076.62	89.63	269.99	6792.91	945.61	925.78	-808.31	4649.37	END OF TANGENT
9499.60	89.63	278.45	6795.64	976.71	504.34	-386.14	5072.33	EOT TO 278.45° AZ
9599.60	89.63	278.45	6796.29	991.40	405.43	-286.18	5172.33	END OF TANGENT
10022.59	89.63	269.99	6799.03	1022.50	-16.02	136.00	5595.31	EOT TO 269.99° AZ
16426.33	89.63	269.99	6840.63	1021.38	-6419.63	6495.16	11998.92	END OF TANGENT
16850.82	89.62	261.50	6843.41	989.91	-6842.55	6911.46	12423.40	EOT TO 261.5° AZ
16950.82	89.62	261.50	6844.06	975.13	-6941.45	7007.94	12523.40	END OF TANGENT
17375.31	89.62	269.99	6846.88	943.67	-7364.37	7424.24	12947.88	EOT TO 269.99° AZ
17988.98	89.62	269.99	6851.00	943.56	-7978.03	8033.63	13561.53	BHL *NEW*: 852.35ft FNL & 200ft FWL of Sec 20



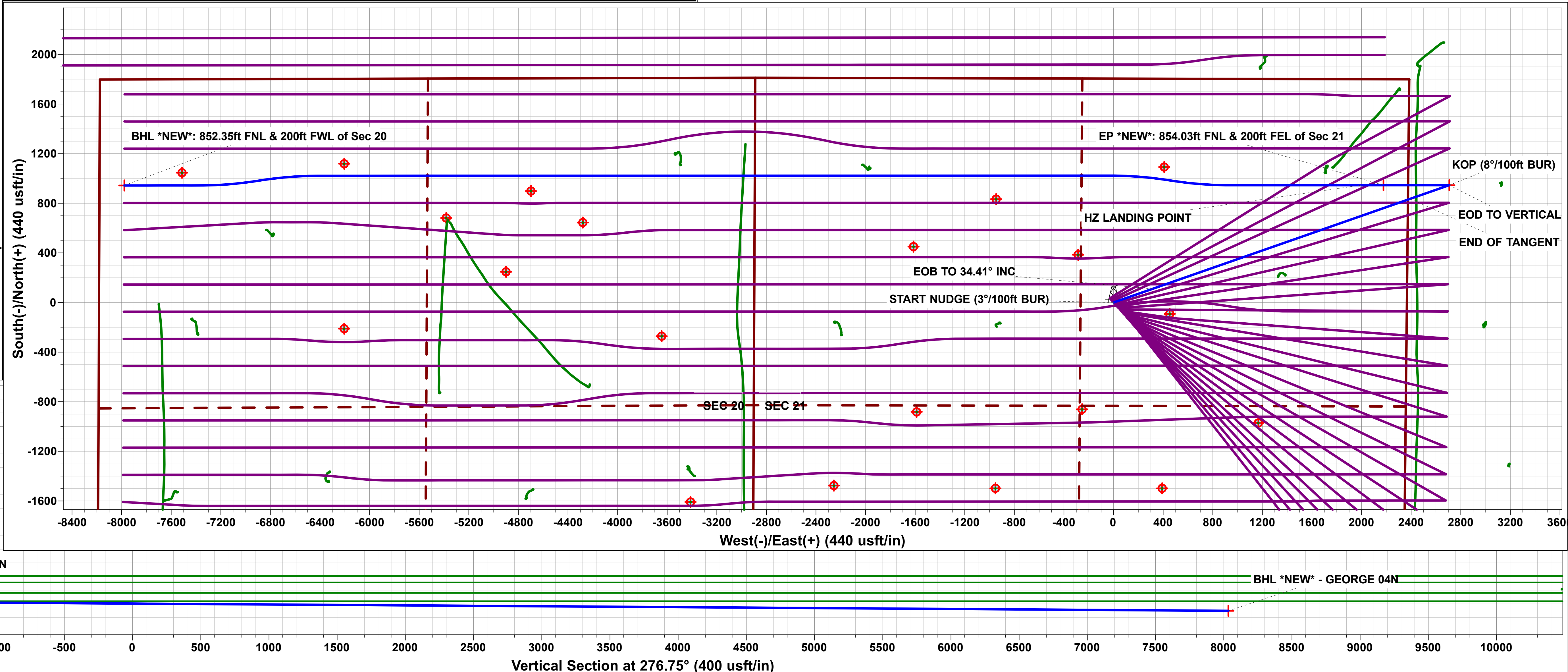
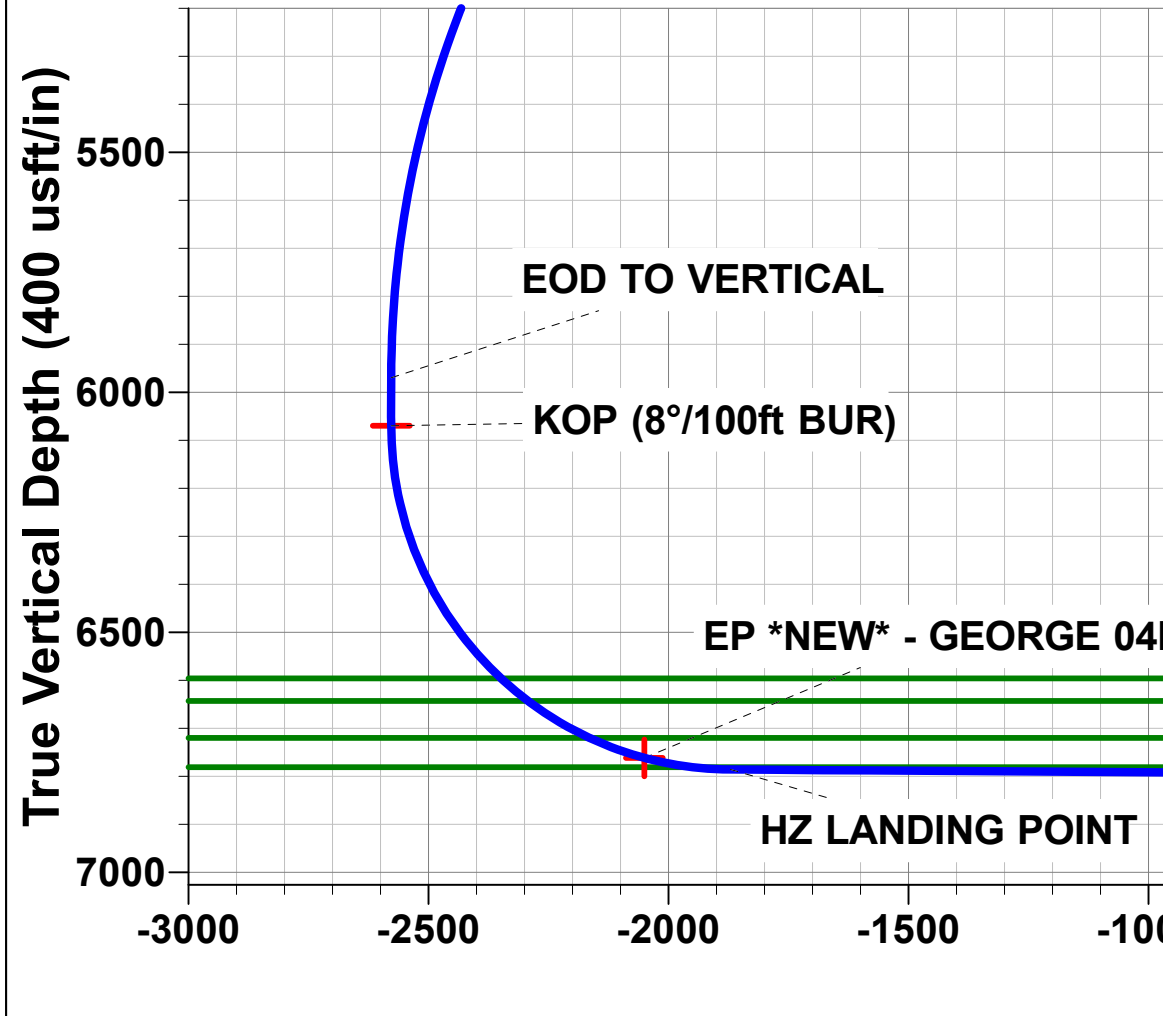
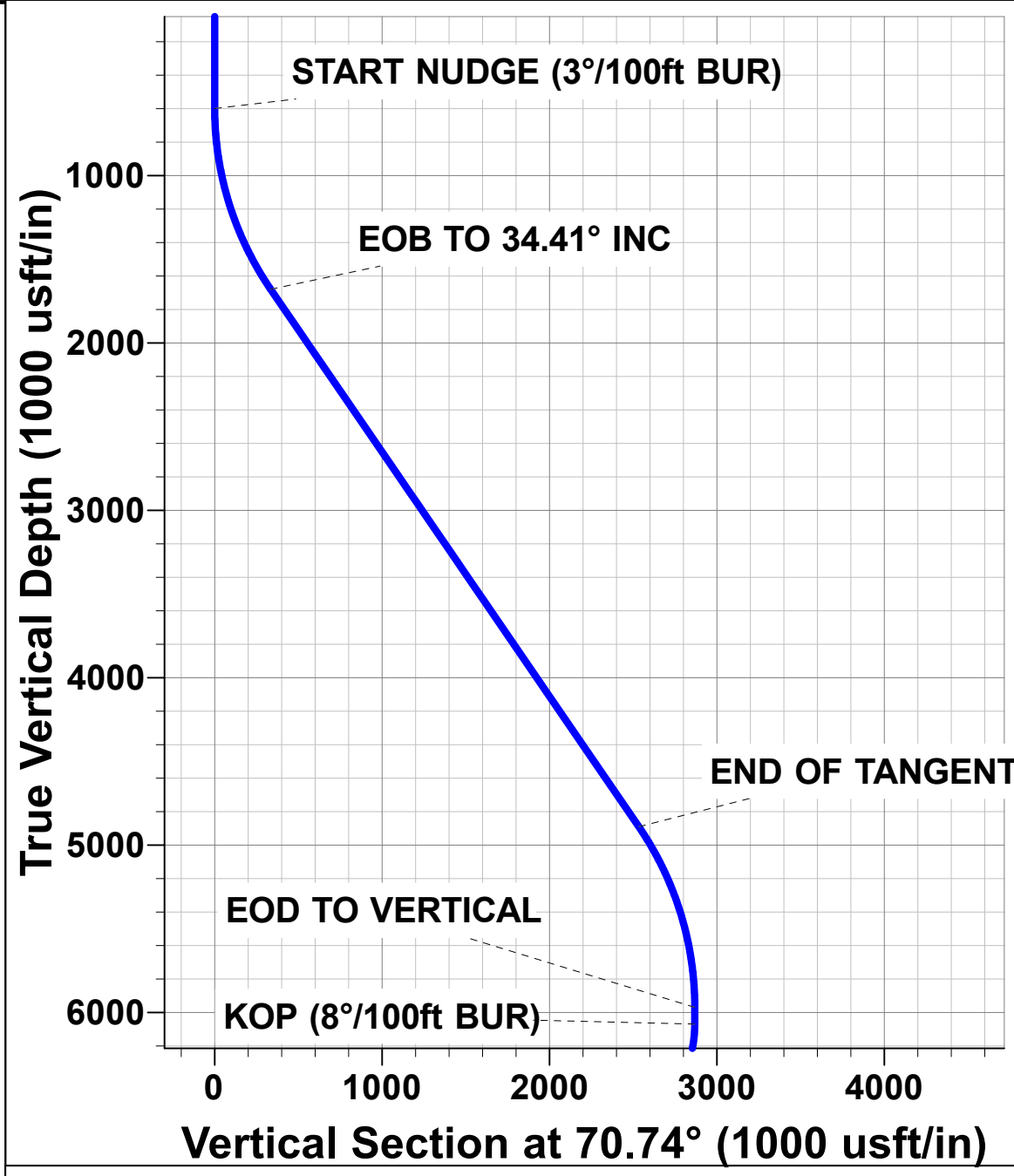
PROPOSED LOCAL COORDINATES:
SHL: 1805ft FNL & 2366ft FEL of Sec 21
EP *NEW*: 854.03ft FNL & 200ft FEL of Sec 21
BHL *NEW*: 852.35ft FNL & 200ft FWL of Sec 20

Azimuths to True North
Magnetic North: 7.74°

Magnetic Field
Strength: 51929.8nT
Dip Angle: 66.61°
Date: 2021-05-27
Model: IGRF2020

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
BHL *NEW* - GEORGE 04N	6851.00	943.56	-7978.03	1354471.83	3255647.46	40.302798	-104.583388
EP *NEW* - GEORGE 04N	6761.61	945.82	2176.50	1354582.33	3265800.95	40.302808	-104.546981
KOP - GEORGE 04N	6069.82	945.91	2707.33	1354588.08	3266331.73	40.302808	-104.545078



PDC ENERGY

**WELD COUNTY, COLORADO (TRUE)
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)
GEORGE 04N**

**ORIGINAL WELLBORE
PROPOSAL #1**

Anticollision Report

29 May, 2021

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 04N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 04N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	2021-05-29		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,988.97	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 #	15,467.79	7,060.00	3,136.29	2,892.10	12.844	CC
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	15,600.00	7,060.00	3,139.07	2,891.24	12.666	ES
ABDN DD BALBOA C20-24D - Wellbore #1 - Wellbore #	16,100.00	7,060.00	3,199.37	2,941.60	12.412	SF
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	4,080.28	2,444.00	4,803.62	4,764.77	123.627	CC
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	4,200.00	2,498.78	4,804.43	4,763.95	118.695	ES
ABDN DD DINNEL C27-28D - Wellbore #1 - Wellbore #1	6,950.00	6,179.97	4,903.88	4,826.68	63.524	SF
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,376.52	1,300.00	4,022.96	4,007.73	264.244	CC
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	2,500.00	1,365.38	4,023.83	4,007.10	240.525	ES
ABDN DD DINNEL C27-29D - Wellbore #1 - Wellbore #1	6,900.00	6,119.33	4,395.26	4,330.50	67.874	SF
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	623.73	652.91	3,684.76	3,682.77	1,850.154	CC, ES
ABDN DD HANSCOME C28-29D - Wellbore #1 - Wellbo	13,100.00	6,919.89	4,680.80	4,502.85	26.304	SF
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	2,072.85	1,959.26	3,191.83	3,176.87	213.228	CC
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	2,200.00	2,063.97	3,192.64	3,175.89	190.646	ES
ABDN DD LEONARD C21-16 - Wellbore #1 - Wellbore #	10,400.00	6,818.00	4,525.74	4,423.30	44.176	SF
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,687.33	6,826.85	2,530.48	2,322.89	12.190	CC
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	14,700.00	6,826.93	2,530.51	2,322.58	12.170	ES
ABDN VERT BALBOA 20-3 - Wellbore #1 - Wellbore #1	15,100.00	6,829.49	2,563.90	2,348.27	11.890	SF
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,418.47	6,815.09	2,630.08	2,321.57	8.525	CC
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,500.00	6,815.62	2,631.34	2,320.71	8.471	ES
ABDN VERT BALBOA C20-2 - Wellbore #1 - Design #1	13,800.00	6,817.57	2,657.60	2,340.76	8.388	SF
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,566.90	6,904.26	3,755.02	3,469.35	13.145	CC
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,700.00	6,905.96	3,757.37	3,468.20	12.993	ES
ABDN VERT CHENOWETH #2 - Wellbore #1 - Wellbore	17,988.98	6,909.65	3,778.66	3,483.26	12.792	SF
ABDN VERT CPC OSTER 19-1 - Wellbore #1 - Wellbore	17,988.98	6,937.82	869.02	819.41	17.517	CC, ES, SF
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	600.00	577.00	479.36	466.94	38.579	CC
ABDN VERT HANSCOME C21-18 - Wellbore #1 - Desig	10,300.00	6,777.83	637.78	407.60	2.771	ES, SF
ABDN VERT HANSCOME C21-19 - Wellbore #1 - Desig	11,620.10	6,798.41	572.25	310.46	2.186	CC, ES, SF
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	600.00	616.00	4,246.29	4,233.02	319.891	CC
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	700.00	715.95	4,247.69	4,232.18	273.863	ES
ABDN VERT HANSCOME C28-1 - Wellbore #1 - Design	12,700.00	6,832.42	5,442.55	5,159.73	19.244	SF
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,328.97	6,864.31	2,386.17	2,134.14	9.468	CC
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,400.00	6,864.56	2,387.23	2,133.41	9.405	ES
ABDN VERT HIGHLAND 11-20 - Wellbore #1 - Wellbore	16,700.00	6,865.50	2,401.88	2,143.36	9.291	SF
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,208.12	6,902.77	4,614.95	4,203.00	11.203	CC, ES
ABDN VERT JOHNSON C29-29 - Wellbore #1 - Design	17,800.00	6,906.74	4,682.06	4,258.40	11.052	SF
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	507.84	481.84	2,840.36	2,838.96	2,033.809	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 04N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 04N	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 LEONARD #1 - Wellbore #1 - Wellbore #1	600.00	572.34	2,840.42	2,838.78	1,727.879	ES
ABDN VERT LEONARD #1 - Wellbore #1 - Wellbore #1	11,500.00	6,739.39	4,287.53	4,173.11	37.471	SF
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	600.00	617.00	2,992.33	2,979.10	226.110	CC
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	700.00	716.95	2,993.95	2,978.48	193.530	ES
ABDN VERT LEONARD 21-1414 - Wellbore #1 - Design	12,000.00	6,828.87	3,989.42	3,721.17	14.872	SF
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	0.00	0.00	926.38			
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	100.00	76.08	926.53	926.37	5,604.173	ES
ABDN VERT LEONARD 21-614 - Wellbore #1 - Wellbore	11,100.00	6,772.64	1,216.05	1,101.94	10.657	SF
ABDN VERT PREBISH #1 - Wellbore #1 - Design #1	16,211.34	6,852.24	97.05	-285.75	0.254	Level 3, CC, ES, SF
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,444.25	6,907.80	1,075.69	793.23	3.808	CC, ES
ABDN VERT PREBISH #2 - Wellbore #1 - Wellbore #1	17,500.00	6,907.46	1,077.13	793.58	3.799	SF
ABDN VERT TODD #1 - Wellbore #1 - Wellbore #1	13,544.71	6,781.35	178.79	1.56	1.009	Level 3, CC, ES, SF
ABDN VERT TODD #2 - Wellbore #1 - Design #1	14,906.29	6,826.76	774.16	425.59	2.221	CC, ES, SF
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,684.12	6,913.96	5,084.57	4,658.86	11.944	CC
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,800.00	6,914.74	5,085.89	4,657.03	11.859	ES
ABDN VERT UPRC #29-4H - Wellbore #1 - Design #1	17,988.98	6,916.00	5,093.70	4,660.06	11.746	SF
ABDN VERT VICTOR C19-9 - Wellbore #1 - Wellbore #1	17,988.98	6,900.00	2,494.72	2,217.79	9.009	CC, ES, SF
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,538.00	4,554.00	5,603.72	5,264.82	16.535	CC
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,700.00	4,554.00	5,606.06	5,263.16	16.349	ES
ABDN VERT VICTOR C29-4 - Wellbore #1 - Design #1	17,988.98	4,554.00	5,621.83	5,272.34	16.086	SF
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,150.82	7,166.14	3,188.75	2,893.14	10.787	CC, ES
EXIST DD CHENOWETH C20-25D - Wellbore #1 - Wellb	17,300.00	7,167.65	3,196.11	2,898.56	10.741	SF
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	0.00	7.95	3,697.18			
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	600.00	604.16	3,697.49	3,695.61	1,964.171	ES
EXIST DD HANSCOME C28-28D - Wellbore #1 - Wellbo	12,300.00	6,828.85	5,007.61	4,862.55	34.523	SF
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	12,853.25	6,999.42	4,401.43	4,226.08	25.102	CC
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	13,000.00	7,001.50	4,403.87	4,224.93	24.611	ES
EXIST DD HANSCOME C28-30D - Wellbore #1 - Wellbo	14,200.00	7,018.29	4,602.81	4,402.11	22.934	SF
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,236.82	6,966.14	4,358.64	4,146.05	20.503	CC
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	14,400.00	6,965.87	4,361.69	4,144.63	20.094	ES
EXIST DD HANSCOME C29-27D - Wellbore #1 - Wellbo	15,400.00	6,964.29	4,511.18	4,273.77	19.002	SF
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,439.82	7,074.60	1,751.47	1,508.47	7.208	CC
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,500.00	7,074.27	1,752.51	1,507.96	7.166	ES
EXIST DD LONG C20-21D - Wellbore #1 - Wellbore #1	15,600.00	7,073.72	1,758.78	1,512.25	7.134	SF
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,232.37	7,227.00	1,691.09	1,471.17	7.690	CC, ES
EXIST DD LONG C20-22D - Wellbore #1 - Wellbore #1	14,300.00	7,227.00	1,692.44	1,471.65	7.665	SF
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	1,355.42	1,206.38	3,268.68	3,262.04	492.717	CC
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	1,400.00	1,228.55	3,268.80	3,261.80	466.557	ES
EXIST DD NOVACEK C28-27D - Wellbore #1 - Wellbore	11,500.00	6,904.48	5,214.64	5,085.07	40.246	SF
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	12,990.86	10,614.78	113.33	30.46	1.367	Level 3, CC
EXIST HZ HANSCOME C21-79HN - Wellbore #1 - Wellb	13,000.00	10,614.18	113.69	30.22	1.362	Level 3, ES, SF
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,714.08	10,175.00	1,014.23	727.05	3.532	CC, ES
EXIST HZ KLINGENBERG C20-780 - SIDETRACK - SID	17,800.00	10,175.00	1,017.86	729.13	3.525	SF
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,693.33	6,901.21	4,163.64	3,862.24	13.814	CC
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,800.00	6,901.40	4,165.01	3,860.75	13.689	ES
EXIST HZ KLINGENBERG C20-780 - VERTICAL PILOT	17,988.98	6,901.75	4,174.13	3,865.32	13.517	SF
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	12,872.37	10,884.00	5,022.56	4,850.39	29.172	CC
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	13,000.00	10,884.00	5,024.18	4,849.10	28.697	ES
EXIST HZ THOMPSON C28-79HN - Wellbore #1 - Wellb	15,400.00	10,884.00	5,622.72	5,387.01	23.854	SF
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,211.90	6,863.24	1,232.66	847.89	3.204	CC, ES
EXIST VERT API #20-614 - Wellbore #1 - Design #1	16,300.00	6,863.81	1,235.81	849.47	3.199	SF
EXIST VERT API 20-414 - Wellbore #1 - Design #1	17,523.73	6,893.88	102.33	-316.88	0.244	Level 3, CC, ES, SF

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

Anticollision Report

Company:	PDC ENERGY	Local Co-ordinate Reference:	Well GEORGE 04N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 04N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	Database 1
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,554.41	6,838.97	3,780.14	3,467.59	12.094	CC
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	13,700.00	6,839.92	3,782.95	3,466.60	11.958	ES
EXIST VERT BALBOA 20-1 - Wellbore #1 - Design #1	14,300.00	6,843.82	3,852.97	3,524.14	11.717	SF
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,206.95	6,835.21	3,054.96	2,725.06	9.260	CC
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,300.00	6,835.82	3,056.38	2,724.05	9.197	ES
EXIST VERT BALBOA C20-23 - Wellbore #1 - Design #1	14,700.00	6,838.42	3,094.49	2,754.01	9.089	SF
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,019.02	6,857.49	3,852.49	3,500.40	10.942	CC
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,100.00	6,858.01	3,853.35	3,499.10	10.878	ES
EXIST VERT BALBOA C20-4 - Wellbore #1 - Design #1	15,700.00	6,861.91	3,912.21	3,545.35	10.664	SF
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,436.10	6,738.43	2,356.53	2,182.57	13.546	CC
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,500.00	6,739.49	2,357.40	2,181.76	13.422	ES
EXIST VERT BALBOA C20-9X - Wellbore #1 - Wellbore	13,800.00	6,744.47	2,384.45	2,202.85	13.130	SF
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,886.25	6,009.82	1,980.76	1,799.98	10.957	CC
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	6,900.00	6,023.57	1,980.83	1,799.77	10.940	ES
EXIST VERT BORYS C22-20 - Wellbore #1 - Design #1	7,100.00	6,220.41	1,999.21	1,814.58	10.828	SF
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,886.25	5,991.82	2,971.64	2,790.59	16.413	CC
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	6,900.00	6,005.57	2,971.71	2,790.38	16.388	ES
EXIST VERT CANTRELL #1 - Wellbore #1 - Design #1	7,200.00	6,295.63	3,009.04	2,822.54	16.134	SF
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	5,593.26	4,734.81	2,291.84	2,234.65	40.071	CC
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	5,700.00	4,839.40	2,292.36	2,233.84	39.173	ES
EXIST VERT CANTRELL 22-12 - Wellbore #1 - Wellbore	6,900.00	6,007.68	2,314.18	2,250.49	36.336	SF
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,886.25	5,984.82	1,666.59	1,522.23	11.544	CC
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	6,900.00	5,998.57	1,666.72	1,522.07	11.522	ES
EXIST VERT CONRAD #1 - Wellbore #1 - Design #1	7,050.00	6,147.15	1,685.09	1,537.35	11.406	SF
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,453.25	6,848.32	5,009.34	4,699.28	16.156	CC
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	13,600.00	6,849.27	5,011.49	4,697.56	15.964	ES
EXIST VERT CPC-JOHNSON 29-1 - Wellbore #1 - Desig	14,700.00	6,856.42	5,162.15	4,824.78	15.301	SF
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	6,886.25	6,003.82	4,092.24	3,909.41	22.382	CC
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	6,900.00	6,017.57	4,092.29	3,909.18	22.348	ES
EXIST VERT DARLENE DINNEL #1 - Wellbore #1 - Des	7,400.00	6,474.63	4,164.44	3,973.25	21.782	SF
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,539.48	2,297.11	1,301.62	1,238.31	20.558	CC
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	2,700.00	2,429.54	1,304.78	1,236.82	19.200	ES
EXIST VERT HAMLIN C21-22 - Wellbore #1 - Design #1	9,100.00	6,757.06	1,934.80	1,727.10	9.315	SF
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	0.00	38.57	4,905.85			
EXIST VERT HANSCOME 28-4 - Wellbore #1 - Wellbore	14,400.00	6,867.03	5,685.37	5,499.71	30.622	SF
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	600.00	604.00	1,816.80	1,803.80	139.736	CC
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,600.00	6,813.27	1,904.16	1,642.54	7.278	ES
EXIST VERT HANSCOME C21-20 - Wellbore #1 - Desig	11,800.00	6,814.57	1,915.12	1,648.86	7.193	SF
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	600.00	598.00	897.95	885.06	69.660	CC
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	700.00	697.95	899.48	884.35	59.461	ES
EXIST VERT HANSCOME C21-21 - Wellbore #1 - Desig	10,500.00	6,800.13	1,898.76	1,663.58	8.074	SF
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	600.00	599.00	2,164.47	2,151.57	167.780	CC
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	700.00	698.95	2,165.56	2,150.42	143.064	ES
EXIST VERT HANSCOME C21-24 - Wellbore #1 - Desig	10,900.00	6,803.73	3,252.39	3,009.19	13.373	SF
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	4,579.80	3,981.60	3,633.56	3,589.25	82.000	CC
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	4,700.00	4,070.59	3,634.42	3,588.59	79.289	ES
EXIST VERT HERBST #1 - Wellbore #1 - Wellbore #1	6,950.00	6,064.02	3,758.76	3,696.49	60.365	SF
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,886.25	6,002.82	1,420.43	1,249.53	8.311	CC
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	6,900.00	6,016.57	1,420.55	1,249.36	8.298	ES
EXIST VERT HERBST 22-614 - Wellbore #1 - Design #1	7,000.00	6,116.09	1,428.01	1,254.95	8.251	SF
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	5,943.48	5,113.68	3,363.22	3,302.46	55.354	CC
EXIST VERT HERBST C22-25 - Wellbore #1 - Wellbore	6,000.00	5,153.58	3,363.39	3,302.20	54.968	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 04N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 04N	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 C22-25 - Wellbore #1 - Wellbore	6,900.00	5,991.24	3,378.04	3,314.08	52.815	SF
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	3,229.96	2,857.78	4,282.31	4,199.07	51.449	CC
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	3,600.00	3,163.08	4,287.41	4,193.40	45.607	ES
EXIST VERT HERBST C27-30 - Wellbore #1 - Design #1	8,700.00	6,745.48	4,759.82	4,557.42	23.516	SF
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,019.29	5,163.30	5,340.81	5,177.40	32.682	CC
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	6,950.00	6,073.48	5,343.83	5,159.43	28.979	ES
EXIST VERT HERBST, CONRAD #1 - Wellbore #1 - Des	7,600.00	6,611.15	5,450.94	5,256.96	28.102	SF
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,560.42	6,864.60	2,471.01	2,185.68	8.660	CC
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,600.00	6,864.58	2,471.32	2,184.94	8.629	ES
EXIST VERT HIGHLAND 12-20 - Wellbore #1 - Wellbore	17,800.00	6,864.43	2,482.59	2,192.13	8.547	SF
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,750.13	6,874.24	4,347.66	3,975.50	11.682	CC
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	15,900.00	6,875.21	4,350.24	3,974.15	11.567	ES
EXIST VERT JOHNSON C29-28 - Wellbore #1 - Design	16,900.00	6,881.73	4,459.25	4,065.17	11.315	SF
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	14,899.54	6,879.71	5,120.32	4,770.89	14.653	CC
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	15,000.00	6,880.36	5,121.30	4,769.18	14.544	ES
EXIST VERT JOHNSON R C29-2 - Wellbore #1 - Design	16,100.00	6,887.51	5,259.16	4,883.76	14.010	SF
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,891.95	6,000.43	420.86	392.42	14.799	CC, ES
EXIST VERT JOHNSTON #22-4 - Wellbore #1 - Wellbor	6,900.00	6,008.38	420.90	392.45	14.792	SF
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	600.00	629.00	2,789.52	2,776.02	206.533	CC
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	700.00	728.95	2,791.58	2,775.84	177.327	ES
EXIST VERT JULIE C21-25 - Wellbore #1 - Design #1	12,200.00	6,842.17	3,442.65	3,167.59	12.516	SF
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	600.00	627.00	3,606.10	3,592.67	268.394	CC
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	12,400.00	6,841.47	3,845.21	3,562.81	13.616	ES
EXIST VERT KLEIN #1 - Wellbore #1 - Design #1	13,100.00	6,846.02	3,934.39	3,637.19	13.238	SF
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,262.44	6,816.58	2,498.17	2,219.75	8.973	CC
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,300.00	6,816.82	2,498.45	2,219.04	8.942	ES
EXIST VERT KLEIN 21-12 - Wellbore #1 - Design #1	12,600.00	6,818.77	2,520.87	2,234.79	8.812	SF
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	3,300.04	2,906.60	5,020.06	4,934.98	58.999	CC
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	3,800.00	3,319.09	5,028.00	4,928.36	50.460	ES
EXIST VERT LEHFELDT C27-04 - Wellbore #1 - Design	9,000.00	6,738.41	5,582.33	5,376.73	27.151	SF
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,198.61	6,783.26	1,284.54	1,142.71	9.057	CC
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,200.00	6,783.26	1,284.54	1,142.67	9.054	ES
EXIST VERT LEONARD #2 - Wellbore #1 - Wellbore #1	12,400.00	6,784.49	1,300.23	1,154.66	8.932	SF
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	600.00	622.00	1,775.29	1,761.90	132.630	CC
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	700.00	721.95	1,777.34	1,761.72	113.775	ES
EXIST VERT LEONARD #3 - Wellbore #1 - Design #1	11,400.00	6,829.98	2,558.50	2,302.49	9.994	SF
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,859.10	1,745.77	236.14	192.30	5.386	CC
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	1,900.00	1,779.51	237.27	192.28	5.274	ES
EXIST VERT LEONARD #4 - Wellbore #1 - Design #1	9,599.60	6,770.29	1,084.25	868.31	5.021	SF
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	600.00	582.00	1,548.42	1,535.84	123.116	CC
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	1,000.00	979.08	1,552.32	1,530.73	71.887	ES
EXIST VERT LEONARD 21-10 - Wellbore #1 - Design #1	10,100.00	6,781.53	2,566.79	2,340.90	11.363	SF
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	1,740.90	1,638.94	2,702.15	2,693.63	317.178	CC
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	1,800.00	1,687.25	2,702.36	2,693.13	292.880	ES
EXIST VERT LEONARD 21-1614 - Wellbore #1 - Wellbor	10,500.00	6,722.77	3,866.59	3,772.82	41.236	SF
EXIST VERT LONG C20-17 - Wellbore #1 - Design #1	14,286.92	6,806.73	377.29	45.83	1.138	Level 3, CC, ES, SF
EXIST VERT LONG C20-18 - Wellbore #1 - Design #1	15,388.67	6,839.89	340.45	-21.13	0.942	Level 3, CC, ES, SF
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,187.59	5,302.98	1,141.04	1,078.74	18.318	CC
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,200.00	5,314.22	1,141.05	1,078.68	18.296	ES
EXIST VERT LYMAN #1 - Wellbore #1 - Wellbore #1	6,500.00	5,572.85	1,147.14	1,083.70	18.084	SF
EXIST VERT NIX #1 - Wellbore #1 - Design #1	1,328.51	1,262.97	4,567.57	4,538.61	157.727	CC
EXIST VERT NIX #1 - Wellbore #1 - Design #1	1,800.00	1,675.01	4,573.20	4,531.47	109.594	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 04N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 04N	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	10,500.00	6,754.13	5,701.71	5,471.80	24.799	SF
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	600.00	586.00	4,155.45	4,142.78	328.029	CC
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	800.00	785.63	4,158.02	4,140.88	242.603	ES
EXIST VERT NOVACEK #1 - Wellbore #1 - Design #1	11,600.00	6,795.27	5,521.13	5,266.36	21.672	SF
EXIST VERT OSTER PM C19-8 - Wellbore #1 - Design #	17,988.98	6,918.00	1,325.81	945.02	3.482	CC, ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,800.00	6,899.33	452.45	188.19	1.712	ES, SF
EXIST VERT PREBISH C20-19 - Wellbore #1 - Wellbore	16,849.80	6,898.75	450.13	190.82	1.736	CC
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	3,067.43	2,902.01	2,158.62	2,133.41	85.611	CC
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	3,200.00	3,016.65	2,159.79	2,132.91	80.325	ES
EXIST VERT THOUTT #2 - Wellbore #1 - Wellbore #1	9,300.00	6,903.37	2,837.05	2,761.23	37.417	SF
EXIST VERT TODD #20-2 - Wellbore #1 - Design #1	14,705.22	6,822.45	123.22	-218.06	0.361	Level 3, CC, ES, SF
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,651.25	6,813.60	1,293.37	978.70	4.110	CC
EXIST VERT TODD 20-8 - Wellbore #1 - Design #1	13,700.00	6,813.92	1,294.29	978.42	4.098	ES, SF
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,575.60	3,132.89	226.32	194.77	7.172	CC, ES
EXIST VERT TRAVELERS 21-814 - Wellbore #1 - Wellbo	3,600.00	3,152.74	226.76	194.95	7.129	SF
EXIST VERT VICTOR C19-16 - Wellbore #1 - Design #1	17,988.98	6,931.00	3,857.38	3,430.92	9.045	CC, ES, SF
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	469.15	468.37	44.39	42.56	24.215	CC
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	500.00	499.05	44.49	42.52	22.528	ES
GEORGE 01N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,121.45	734.96	146.38	1.249	Level 3, SF
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	565.83	565.04	29.15	26.89	12.881	CC
GEORGE 02N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,000.00	519.70	-28.29	0.948	Level 3, ES, SF
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	628.74	627.86	14.38	11.84	5.663	CC
GEORGE 03NA - ORIGINAL WELLBORE - PROPOSAL	17,988.98	17,952.53	320.05	-53.29	0.857	Level 3, ES, SF
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	752.67	752.49	13.87	10.77	4.482	CC
GEORGE 05N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,909.47	160.14	-122.12	0.567	Level 3, ES, SF
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	807.62	808.20	27.71	24.37	8.278	CC
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	16,700.00	16,661.43	361.39	-153.07	0.702	Level 3, ES
GEORGE 06N - ORIGINAL WELLBORE - PROPOSAL #	16,800.00	16,758.06	350.22	-152.25	0.697	Level 3, SF
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	855.56	855.79	41.62	38.04	11.633	CC, ES
GEORGE 07NA - ORIGINAL WELLBORE - PROPOSAL	17,988.98	17,836.77	594.06	73.24	1.141	Level 3, SF
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	894.96	894.79	55.45	51.68	14.722	CC
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	900.00	899.77	55.45	51.66	14.629	ES
GEORGE 08N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,875.36	802.76	218.63	1.374	Level 3, SF
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	929.89	930.25	69.36	65.41	17.556	CC, ES
GEORGE 09N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,046.86	1,017.97	421.70	1.707	SF
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	961.55	961.39	83.24	79.12	20.208	CC, ES
GEORGE 10N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,968.32	1,239.53	645.58	2.087	SF
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	990.34	989.63	97.14	92.86	22.735	CC
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	1,000.00	999.08	97.16	92.83	22.466	ES
GEORGE 11N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,994.58	1,456.08	860.42	2.444	SF
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	1,017.34	1,016.02	111.03	106.60	25.072	CC, ES
GEORGE 12N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,946.60	1,677.04	1,082.98	2.823	SF
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	1,042.85	1,040.90	124.91	120.33	27.257	CC, ES
GEORGE 13N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,992.53	1,894.26	1,299.94	3.187	SF
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	1,066.96	1,064.32	138.82	134.09	29.358	CC, ES
GEORGE 14N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	17,957.14	2,114.19	1,520.01	3.558	SF
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	1,089.85	1,085.50	152.65	147.79	31.377	CC
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	1,100.00	1,095.31	152.67	147.75	30.986	ES
GEORGE 15NA - ORIGINAL WELLBORE - PROPOSAL	17,988.98	17,943.20	2,336.04	1,743.46	3.942	SF
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	1,109.63	1,104.23	166.54	161.54	33.362	CC, ES
GEORGE 16N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,062.11	2,551.55	1,958.58	4.303	SF
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	1,054.00	1,045.75	182.18	177.56	39.425	CC, 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 04N
Project:	WELD COUNTY, COLORADO (TRUE)	TVD Reference:	KB 23ft @ 4741.00usft
Reference Site:	SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)	MD Reference:	KB 23ft @ 4741.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	GEORGE 04N	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
Offset Well - Wellbore - Design						
SW NE SEC. 21 T4N R64W 6th P.M. (GEORGE)						
GEORGE 17N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,027.71	2,771.75	2,179.59	4.681	SF
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	976.70	966.62	200.49	196.33	48.271	CC, ES
GEORGE 18N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,128.93	2,989.70	2,398.38	5.056	SF
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	874.88	864.36	219.82	216.19	60.627	CC, ES
GEORGE 19NA - ORIGINAL WELLBORE - PROPOSAL	17,988.98	18,103.37	3,211.25	2,620.03	5.432	SF
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	746.50	739.78	238.52	235.47	78.290	CC, ES
GEORGE 20N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,239.56	3,427.90	2,837.58	5.807	SF
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	600.00	600.00	254.90	252.48	105.301	CC, ES
GEORGE 21N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,232.23	3,647.84	3,058.29	6.187	SF
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	500.00	499.00	269.94	267.97	137.100	CC, ES
GEORGE 22N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,288.71	3,866.99	3,277.53	6.560	SF
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	400.00	399.00	284.90	283.38	187.505	CC, ES
GEORGE 23N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,415.60	4,085.17	3,496.30	6.937	SF
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	300.00	298.00	299.88	298.81	280.884	CC, ES
GEORGE 24N - ORIGINAL WELLBORE - PROPOSAL #	17,988.98	18,448.51	4,305.08	3,717.37	7.325	SF
SW NW SEC. 17 T4N R64W 6th P.M. (DRAKE)						
ABDN VERT CHENOWETH 21-4 - Wellbore #1 - Wellbo	11,975.43	6,768.89	64.29	-65.94	0.494	Level 3, CC, ES, SF
ABDN VERT CHENOWETH #1 - Wellbore #1 - Design #1	10,953.65	6,793.08	188.79	-55.20	0.774	Level 3, CC, ES, SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	7,800.00	18,757.30	1,192.89	830.58	3.292	SF
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	10,000.00	16,576.03	1,114.29	783.40	3.368	ES
DRAKE 23N - ORIGINAL WELLBORE - PROPOSAL #1	16,427.99	10,148.00	1,110.60	786.05	3.422	CC
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	10,000.00	16,746.80	898.37	566.21	2.705	ES, SF
DRAKE 24N - ORIGINAL WELLBORE - PROPOSAL #1	16,427.96	10,318.85	894.64	568.82	2.746	CC
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,500.00	6,667.21	783.87	705.21	9.966	SF
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,650.00	6,754.29	769.64	693.82	10.151	ES
EXIST DD CRICKET C22-30D - Wellbore #1 - Wellbore #	7,683.22	6,770.40	769.08	694.12	10.260	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,577.83	7,317.88	72.93	49.44	3.105	CC
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,600.00	7,317.97	76.55	48.36	2.716	ES
EXIST HZ STOCKLEY C22-79HN - Wellbore #1 - Wellbo	7,650.00	7,318.08	105.13	62.90	2.489	SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,599.60	6,766.29	100.83	-108.46	0.482	Level 3, ES, SF
EXIST VERT CHENOWETH #21-2 - Wellbore #1 - Desig	9,610.95	6,766.36	100.17	-104.27	0.490	Level 3, CC
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,800.00	6,735.97	944.60	875.94	13.757	SF
EXIST VERT RYANN STATE C21-27 - Wellbore #1 - We	8,816.74	6,735.97	944.45	875.81	13.759	CC, ES
EXIST VERT THOUTT #1 - Wellbore #1 - Wellbore #1	8,293.01	6,731.62	100.00	39.91	1.664	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	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				Warning
Depth (usft)	Depth (usft)	Depth (usft)	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	37.79	37.79	0.00	0.04	-119.80	-3,318.87	-5,795.68	6,678.68					
100.00	100.00	137.23	137.23	0.09	0.15	-119.80	-3,318.91	-5,795.66	6,678.69	6,678.45	0.24	N/A		
200.00	200.00	1,535.59	1,514.73	0.31	4.46	-118.66	-3,138.99	-5,742.11	6,667.47	6,663.11	4.36	1,528.109		
300.00	300.00	1,603.03	1,579.63	0.54	4.78	-118.55	-3,121.24	-5,737.58	6,648.58	6,643.80	4.77	1,392.696		
400.00	400.00	1,709.30	1,682.08	0.76	5.27	-118.37	-3,093.93	-5,730.35	6,630.01	6,624.65	5.36	1,237.959		
500.00	500.00	1,800.09	1,769.62	0.99	5.71	-118.21	-3,070.81	-5,723.59	6,611.07	6,605.16	5.91	1,118.893		
600.00	600.00	1,845.00	1,812.91	1.21	5.93	-118.14	-3,059.27	-5,720.63	6,592.81	6,586.52	6.29	1,047.378		
700.00	699.95	1,931.00	1,895.90	1.43	6.34	171.34	-3,037.35	-5,715.33	6,577.60	6,570.77	6.83	963.636		

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