

EXTRACTION OIL & GAS

Weld County

Sec 21-T5N-R65W

AD-DOUBLE CLUTCH 3-20-24

ORIGINAL WELLBORE

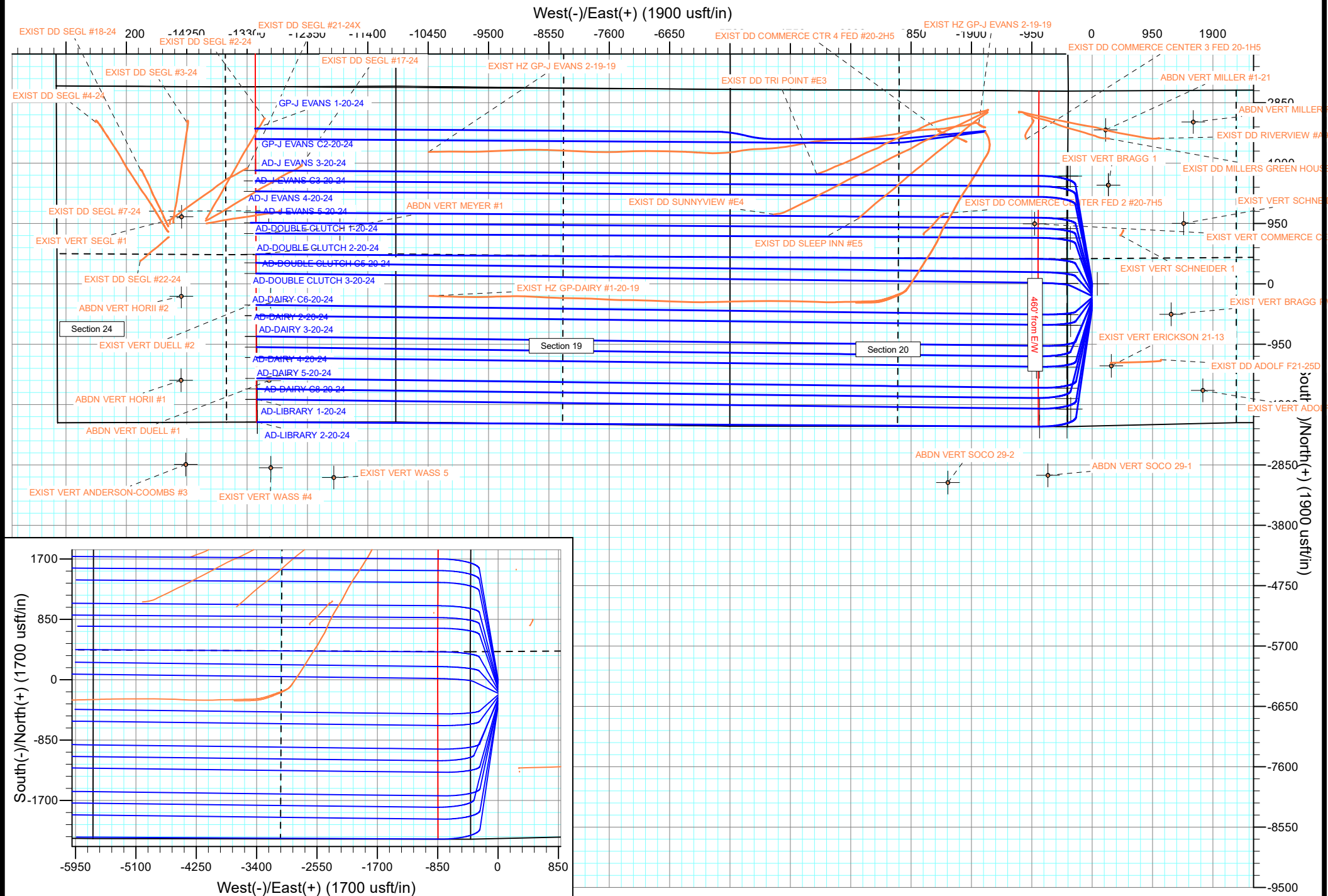
PROPOSAL #1

Anticollision Report

09 February, 2017



Project: Weld County
Site: Sec 21-T5N-R65W
Well: ARDREY SPIDER
ORIGINAL WELLBORE
PROPOSAL #1



Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well AD-DOUBLE CLUTCH 3-20-24
Project:	Weld County	TVD Reference:	KB-EST @ 4655.0usft (Original Well Elev)
Reference Site:	Sec 21-T5N-R65W	MD Reference:	KB-EST @ 4655.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	AD-DOUBLE CLUTCH 3-20-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
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 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	2/9/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,614.5	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD OWSG Rev 2	OWSG 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						
Sec 20-T5N-R65W						
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,304.8	7,144.0	719.6	263.2	1.577	CC, ES, SF
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	7,523.4	7,102.3	2,261.5	2,213.2	46.805	CC
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	7,600.0	7,101.8	2,262.8	2,213.1	45.515	ES
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	8,800.0	7,094.0	2,596.9	2,525.8	36.516	SF
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	8,804.2	7,047.4	1,070.0	992.5	13.798	CC, ES
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,000.0	7,049.6	1,087.8	1,006.2	13.331	SF
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	8,880.2	7,128.8	2,369.7	2,289.5	29.574	CC
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	8,900.0	7,128.4	2,369.7	2,289.1	29.385	ES
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	9,800.0	7,112.8	2,541.9	2,442.6	25.595	SF
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	6,628.1	6,823.7	2,391.7	2,336.7	43.466	CC
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	6,650.0	6,845.3	2,391.8	2,336.6	43.366	ES
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	7,350.0	7,242.7	2,547.9	2,486.5	41.523	SF
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	4,693.0	5,026.9	2,588.5	2,534.4	47.787	CC
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	4,700.0	5,029.8	2,588.5	2,534.3	47.746	ES
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	6,700.0	7,193.7	2,721.7	2,652.1	39.099	SF
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,140.4	7,716.6	990.5	853.0	7.203	CC, ES, SF
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,439.6	8,102.5	1,033.0	833.7	5.183	CC, ES, SF
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	10,793.2	7,808.9	1,679.4	1,511.9	10.027	CC
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	10,800.0	7,810.3	1,679.4	1,511.8	10.020	ES
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,000.0	7,851.2	1,691.6	1,521.5	9.949	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,175.9	8,210.3	381.2	246.3	2.827	CC
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,200.0	8,205.0	382.3	244.9	2.782	ES, SF
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	9,623.0	7,708.3	311.3	209.8	3.067	CC
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	16,900.0	15,000.0	342.7	-137.2	0.714	Level 1, ES, SF
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	16,923.1	13,082.0	1,945.8	1,448.3	3.911	CC, ES
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,000.0	13,082.0	1,947.4	1,448.5	3.903	SF
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,373.6	7,015.0	929.3	757.8	5.418	CC
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,400.0	7,015.0	929.7	757.7	5.406	ES
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,500.0	7,015.0	937.9	764.2	5.400	SF
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	11,504.6	8,957.6	2,216.5	2,003.5	10.408	CC
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	17,087.8	2,285.2	1,628.3	3.479	ES, SF
GP-J EVANS C2-20-24 - ORIGINAL WELLBORE - PROP	19,614.5	17,256.9	2,116.9	1,459.7	3.221	CC, ES, SF

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well AD-DOUBLE CLUTCH 3-20-24
Project:	Weld County	TVD Reference:	KB-EST @ 4655.0usft (Original Well Elev)
Reference Site:	Sec 21-T5N-R65W	MD Reference:	KB-EST @ 4655.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	AD-DOUBLE CLUTCH 3-20-24	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
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						
Sec 21-T5N-R65W						
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	6,651.7	6,619.6	2,510.2	2,353.5	16.015	CC
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	6,700.0	6,664.7	2,510.7	2,352.8	15.902	ES
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	7,150.0	6,971.3	2,578.1	2,410.4	15.375	SF
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	4,106.0	4,104.0	3,167.9	3,071.6	32.885	CC
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	5,400.0	5,375.4	3,187.8	3,061.1	25.165	ES
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	6,950.0	6,853.1	3,313.7	3,150.5	20.305	SF
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	4,106.0	4,102.0	2,907.3	2,811.0	30.211	CC
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	4,400.0	4,404.5	2,910.4	2,807.0	28.160	ES
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	8,100.0	7,006.0	3,183.9	3,000.6	17.370	SF
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	8,689.1	7,011.0	3,160.0	2,960.5	15.844	CC
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	8,800.0	7,011.0	3,161.9	2,959.9	15.649	ES
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,600.0	7,011.0	3,288.6	3,069.8	15.029	SF
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	3,500.0	3,500.0	51.0	26.3	2.067	CC
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	19,607.5	19,702.1	662.9	-40.3	0.943	Level 1, ES, SF
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	2,104.3	2,104.3	72.9	58.2	4.966	CC
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	2,200.0	2,198.7	73.4	58.0	4.782	ES
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	19,614.5	19,719.6	990.9	287.9	1.410	Level 3, SF
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	700.0	700.0	120.2	115.6	26.129	CC, ES
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	19,614.5	19,741.5	1,322.4	619.6	1.881	SF
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	400.0	400.0	145.7	143.3	59.473	CC, ES
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	19,614.5	19,791.8	1,650.3	947.4	2.348	SF
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	4,106.0	4,105.0	25.5	-3.5	0.879	Level 1, CC
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	19,907.2	538.4	-114.4	0.825	Level 1, ES, SF
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	1,700.0	1,700.0	98.4	86.6	8.355	CC, ES
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	19,866.3	1,177.3	486.0	1.703	SF
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	300.0	300.0	167.6	165.9	96.599	CC, ES
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	19,943.7	1,829.9	1,132.9	2.625	SF
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	1,700.0	1,699.0	69.2	57.4	5.881	CC
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	19,614.5	19,734.1	630.2	-73.1	0.896	Level 1, ES, SF
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	3,000.0	2,999.0	47.4	26.3	2.246	CC
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	19,614.5	19,707.3	302.4	-401.0	0.430	Level 1, ES, SF
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	3,900.0	3,901.0	21.9	-5.7	0.793	Level 1, CC
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	19,614.5	19,901.8	269.4	-193.9	0.581	Level 1, ES, SF
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	100.0	99.0	189.5	189.2	632.348	CC, ES
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	19,866.8	1,621.0	917.5	2.304	SF
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	300.0	299.0	142.1	140.4	82.073	CC, ES
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	19,809.2	1,293.2	589.8	1.838	SF
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	400.0	399.0	120.2	117.8	49.101	CC, ES
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	19,614.5	19,755.7	961.7	258.3	1.367	Level 3, SF
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	200.0	199.0	167.6	166.6	165.212	CC, ES
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	19,614.5	20,040.9	1,472.3	776.3	2.115	SF
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	1,100.0	1,099.0	94.7	87.3	12.685	CC, ES
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	19,614.5	19,949.6	825.2	144.3	1.212	Level 2, SF
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	200.0	200.0	193.1	192.1	189.671	CC, ES
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	19,614.5	19,845.8	1,981.8	1,279.1	2.820	SF
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	100.0	100.0	218.6	218.3	725.949	CC, ES
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	19,614.5	19,903.3	2,338.8	1,636.3	3.329	SF
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	777.6	772.6	1,093.8	1,089.7	269.039	CC
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	900.0	886.1	1,094.3	1,089.5	230.509	ES
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	6,600.0	6,654.0	1,857.9	1,817.3	45.721	SF
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	4,106.0	4,105.0	2,291.4	2,195.1	23.779	CC
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	4,200.0	4,189.0	2,292.9	2,194.5	23.306	ES
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,750.0	6,704.3	2,719.0	2,561.0	17.205	SF

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Anticollision Report

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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						
Sec 21-T5N-R65W						
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	6,583.0	6,530.3	1,690.8	1,536.0	10.918	CC
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	6,650.0	6,605.0	1,692.3	1,535.6	10.801	ES
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	6,900.0	6,808.1	1,726.9	1,564.6	10.643	SF
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	4,106.0	4,106.0	1,277.8	1,181.0	13.203	CC
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	4,200.0	4,188.0	1,279.3	1,180.6	12.953	ES
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	6,600.0	6,554.9	1,661.8	1,507.0	10.735	SF
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,106.0	4,106.0	1,141.3	1,044.9	11.840	CC
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,200.0	4,188.0	1,142.3	1,044.0	11.612	ES
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,650.0	6,603.0	1,437.7	1,281.7	9.217	SF
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	4,986.2	4,996.3	1,063.7	1,044.2	54.587	CC
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	5,000.0	5,009.0	1,063.7	1,044.2	54.432	ES
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	6,650.0	6,611.6	1,128.7	1,102.4	42.997	SF
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	4,106.0	4,106.0	1,839.6	1,743.2	19.085	CC
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	4,300.0	4,287.9	1,842.5	1,741.8	18.291	ES
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	6,750.0	6,705.3	2,083.4	1,924.8	13.134	SF
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,355.6	7,069.0	3,195.6	2,738.6	6.993	CC
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,400.0	7,069.0	3,195.9	2,737.8	6.976	ES
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,700.0	7,069.0	3,214.1	2,749.9	6.925	SF
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,028.8	7,069.0	4,503.4	4,055.3	10.050	CC
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,100.0	7,069.0	4,504.0	4,054.1	10.010	ES
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,700.0	7,069.0	4,553.2	4,090.8	9.847	SF
SW NE SEC. 26 T5N R66W 6th P.M.						
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,392.3	7,102.0	1,682.5	1,195.1	3.452	CC
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,400.0	7,102.0	1,682.5	1,195.0	3.451	ES
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,500.0	7,102.0	1,685.9	1,196.5	3.445	SF
ABDN VERT HORII #1 - Wellbore #1 - Design #1	19,614.5	7,154.0	2,054.7	1,621.3	4.741	CC, ES, SF
ABDN VERT HORII #2 - Wellbore #1 - Design #1	19,614.5	7,143.0	1,231.8	976.4	4.824	CC, ES, SF
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,427.0	7,146.0	929.3	440.5	1.901	CC, ES, SF
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	18,914.4	7,398.6	1,716.8	1,352.6	4.714	CC, ES
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,000.0	7,398.8	1,718.9	1,353.3	4.702	SF
EXIST DD SEGL #18-24 - Wellbore #1 - Wellbore #1	19,614.5	7,318.1	2,444.5	2,197.1	9.879	CC, ES, SF
EXIST DD SEGL #21-24X - Wellbore #1 - Wellbore #1	19,614.5	7,465.8	1,658.8	1,281.3	4.395	CC, ES, SF
EXIST DD SEGL #22-24 - Wellbore #1 - Wellbore #1	19,614.5	7,216.1	1,835.1	1,774.6	30.339	CC, ES, SF
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,510.8	7,515.1	2,443.1	2,070.9	6.563	CC
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,600.0	7,515.4	2,444.7	2,070.8	6.538	ES
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,614.5	7,515.5	2,445.3	2,071.2	6.536	SF
EXIST DD SEGL #3-24 - Wellbore #1 - Wellbore #1	19,614.5	7,563.0	2,632.4	2,293.1	7.758	CC, ES, SF
EXIST DD SEGL #4-24 - Wellbore #1 - Wellbore #1	19,614.5	7,725.4	3,479.5	3,221.1	13.464	CC, ES, SF
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,255.0	7,367.7	995.5	627.7	2.707	CC, ES
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,300.0	7,367.9	996.5	627.9	2.704	SF
EXIST VERT ANDERSON-COOMBS #2 - Wellbore #1 -	19,614.5	7,100.0	4,460.7	4,118.5	13.036	CC, ES, SF
EXIST VERT ANDERSON-COOMBS #3 - Wellbore #1 -	19,614.5	7,139.0	3,202.5	2,728.0	6.749	CC, ES, SF
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,385.1	7,125.0	362.1	-125.3	0.743	Level 1, CC, ES, SF
EXIST VERT SEGL #1 - Wellbore #1 - Design #1	19,614.5	7,163.0	1,476.0	1,125.5	4.212	CC, ES, SF
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,348.9	7,105.0	4,325.1	3,838.9	8.896	CC
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,500.0	7,105.0	4,327.8	3,837.8	8.832	ES
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,614.5	7,105.0	4,333.3	3,840.7	8.797	SF
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,349.2	7,101.3	3,053.7	2,567.5	6.281	CC
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,400.0	7,101.3	3,054.1	2,566.6	6.265	ES
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,614.5	7,101.3	3,065.2	2,573.3	6.232	SF

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