

EXTRACTION OIL & GAS

Weld County

Sec 21-T5N-R65W

AD-DAIRY C6-20-24

ORIGINAL WELLBORE

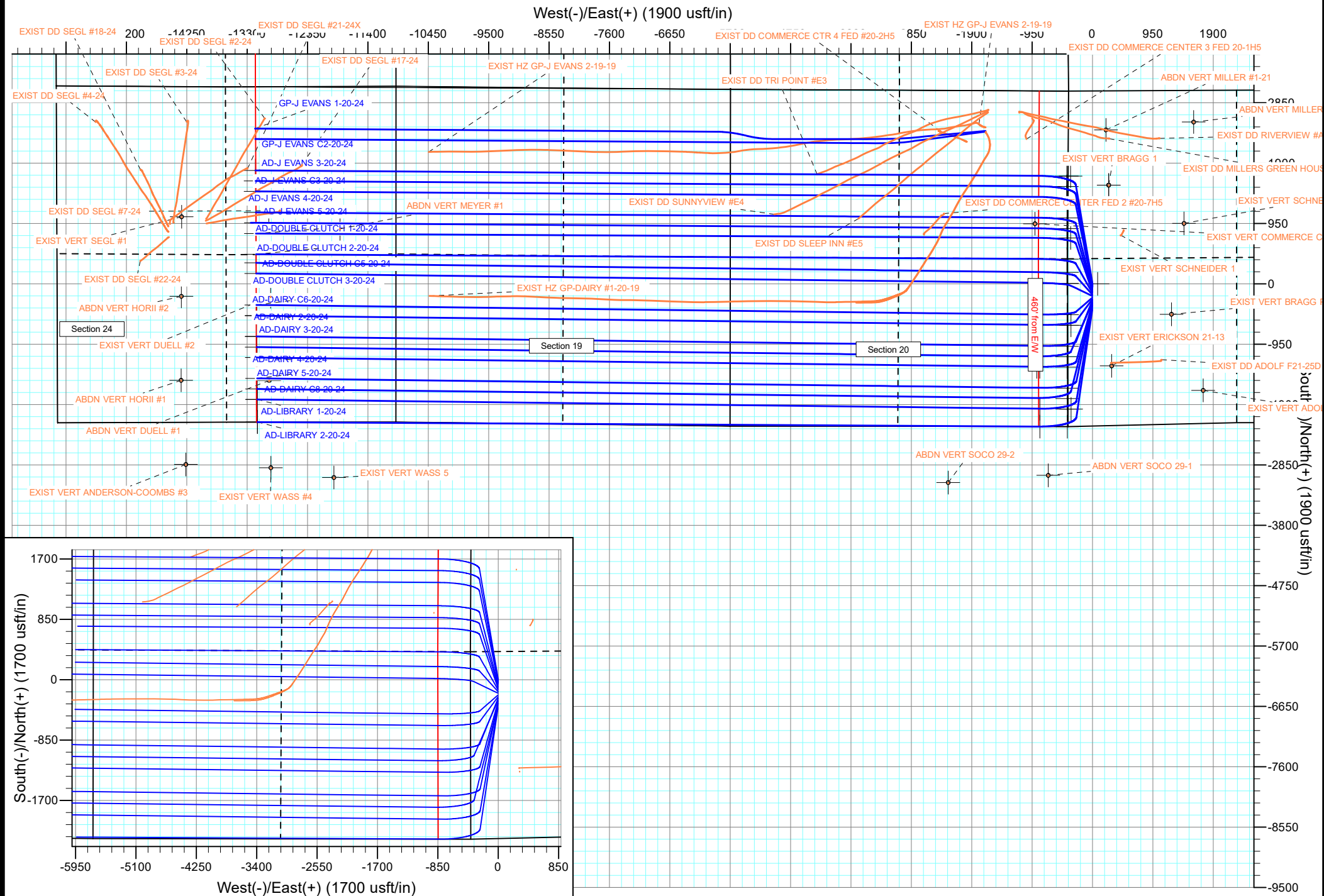
PROPOSAL #1

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-DAIRY C6-20-24
Project:	Weld County	TVD Reference:	KB-EST @ 4654.0usft (Original Well Elev)
Reference Site:	Sec 21-T5N-R65W	MD Reference:	KB-EST @ 4654.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	AD-DAIRY C6-20-24	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	19,898.7	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	18,597.8	7,355.0	1,215.5	753.8	2.633	CC
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,600.0	7,355.0	1,215.5	753.8	2.633	ES, SF
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	7,815.2	7,240.0	2,756.9	2,707.6	55.926	CC
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	7,900.0	7,240.0	2,758.2	2,707.4	54.369	ES
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	9,500.0	7,311.3	3,230.1	3,152.9	41.854	SF
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,099.2	7,251.8	1,570.8	1,491.8	19.896	CC
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,100.0	7,251.8	1,570.8	1,491.8	19.892	ES
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,500.0	7,256.3	1,621.1	1,535.3	18.900	SF
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	9,169.9	7,300.0	2,865.5	2,784.2	35.230	CC
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	9,200.0	7,300.0	2,865.7	2,783.6	34.922	ES
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	10,400.0	7,300.0	3,118.4	3,013.8	29.821	SF
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	4,496.7	4,898.0	2,576.4	2,536.7	64.928	CC
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	4,500.0	4,901.0	2,576.4	2,536.7	64.879	ES
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	8,300.0	7,446.9	3,306.7	3,238.1	48.237	SF
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	4,207.4	4,620.8	2,626.0	2,577.3	53.930	CC, ES
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	6,800.0	7,320.4	3,041.2	2,971.1	43.373	SF
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,444.2	7,840.0	1,473.8	1,334.2	10.562	CC, ES
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,500.0	7,840.0	1,474.8	1,335.0	10.547	SF
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,770.1	8,315.0	1,525.6	1,323.4	7.547	CC, ES
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,800.0	8,315.0	1,525.9	1,323.6	7.544	SF
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,103.3	7,893.0	2,163.6	1,993.8	12.738	CC, ES
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,300.0	7,893.0	2,172.6	2,000.0	12.590	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,400.0	8,170.0	398.6	331.6	5.950	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,463.3	8,205.0	395.1	330.3	6.104	CC, ES
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	13,055.1	10,873.1	322.3	190.8	2.451	CC
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	17,100.0	14,918.1	371.3	107.5	1.408	Level 3, ES, SF
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	15,400.0	15,400.0	2,511.6	2,001.2	4.921	SF
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,216.5	13,082.0	2,455.5	1,959.4	4.949	CC, ES
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	0.0	18.6	3,163.9			
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	13,900.0	1,163.0	8,625.0	8,547.8	111.713	SF
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,666.3	7,200.0	1,427.6	1,251.7	8.118	CC
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,700.0	7,200.0	1,428.0	1,251.7	8.099	ES
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,800.0	7,200.0	1,433.9	1,256.1	8.066	SF
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	11,797.9	8,957.9	2,733.0	2,520.4	12.854	CC
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	19,898.7	17,082.0	2,799.0	2,145.3	4.282	ES, SF
GP-J EVANS C2-20-24 - ORIGINAL WELLBORE - PROP	19,898.7	17,251.0	2,617.0	1,960.0	3.984	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-DAIRY C6-20-24
Project:	Weld County	TVD Reference:	KB-EST @ 4654.0usft (Original Well Elev)
Reference Site:	Sec 21-T5N-R65W	MD Reference:	KB-EST @ 4654.0usft (Original Well Elev)
Site Error:	0.0 usft	North Reference:	True
Reference Well:	AD-DAIRY C6-20-24	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	4,167.0	4,171.0	2,648.0	2,550.3	27.085	CC
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	4,300.0	4,304.0	2,650.3	2,549.4	26.270	ES
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	7,200.0	7,107.2	2,980.2	2,812.1	17.729	SF
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	4,167.0	4,158.0	3,190.0	3,092.3	32.672	CC
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	4,200.0	4,209.0	3,190.1	3,091.4	32.297	ES
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	7,100.0	7,027.2	3,619.1	3,453.6	21.863	SF
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,455.9	7,190.0	2,531.7	2,358.9	14.648	CC
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,500.0	7,190.0	2,532.3	2,358.8	14.600	ES
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	8,100.0	7,190.0	2,622.9	2,439.1	14.275	SF
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	8,981.7	7,197.0	2,662.1	2,457.9	13.040	CC
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,000.0	7,197.0	2,662.1	2,457.5	13.010	ES
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,700.0	7,197.0	2,757.3	2,536.6	12.494	SF
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	800.0	801.0	25.5	20.2	4.790	CC
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	19,898.7	19,612.5	269.4	-195.3	0.580	Level 1, ES, SF
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	700.0	701.0	47.4	42.8	10.281	CC
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	19,898.7	19,633.0	538.5	-112.7	0.827	Level 1, ES, SF
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	500.0	501.0	94.7	91.5	29.873	CC, ES
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	19,898.7	19,658.2	853.4	171.1	1.251	Level 3, SF
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	400.0	401.0	120.2	117.8	48.994	CC, ES
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	19,898.7	19,715.3	1,173.9	482.1	1.697	SF
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	1,700.0	1,701.0	72.9	61.1	6.187	CC
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	19,898.7	19,866.3	663.0	-39.6	0.944	Level 1, ES, SF
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	300.0	301.0	142.1	140.4	81.735	CC, ES
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	19,898.7	19,943.7	1,322.4	620.0	1.883	SF
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	1,700.0	1,700.0	94.7	82.9	8.046	CC, ES
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	19,898.7	19,729.3	1,145.1	451.4	1.651	SF
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	3,000.0	3,000.0	72.9	51.8	3.454	CC, ES
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	19,898.7	19,703.8	825.0	141.5	1.207	Level 2, SF
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	4,100.0	4,101.0	25.5	-3.5	0.880	Level 1, CC
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	19,898.7	19,606.2	538.4	-113.9	0.825	Level 1, ES, SF
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	3,900.0	3,900.0	47.4	19.8	1.719	CC
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	19,898.7	19,893.6	662.9	-41.4	0.941	Level 1, ES, SF
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	100.0	100.0	215.0	214.7	713.865	CC, ES
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	19,898.7	19,861.1	2,126.8	1,425.3	3.032	SF
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	300.0	300.0	167.6	165.9	96.599	CC, ES
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	19,898.7	19,803.9	1,800.9	1,100.7	2.572	SF
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	400.0	400.0	145.7	143.3	59.430	CC, ES
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	19,898.7	19,750.1	1,472.2	774.2	2.109	SF
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	200.0	200.0	193.1	192.1	189.675	CC, ES
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	19,898.7	20,035.4	1,952.5	1,248.3	2.773	SF
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	1,100.0	1,100.0	120.2	112.8	16.093	CC, ES
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	19,898.7	19,943.6	1,293.2	589.1	1.837	SF
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	200.0	201.0	167.6	166.6	164.048	CC, ES
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	19,898.7	19,845.8	1,501.3	803.6	2.152	SF
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	100.0	101.0	193.1	192.8	638.079	CC, ES
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	19,898.7	19,903.3	1,855.4	1,155.7	2.652	SF
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	775.3	771.3	1,069.2	1,065.2	263.705	CC
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	900.0	886.9	1,069.8	1,065.0	225.258	ES
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	6,850.0	6,903.2	1,558.9	1,517.6	37.780	SF
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	4,167.0	4,157.0	2,275.0	2,177.3	23.303	CC
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	4,581.9	4,570.4	2,279.9	2,172.6	21.244	ES
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,950.0	6,904.5	2,396.5	2,233.3	14.691	SF
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	4,167.0	4,148.0	1,789.1	1,691.6	18.343	CC

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

Anticollision Report

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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						
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	4,300.0	4,281.0	1,791.4	1,690.8	17.798	ES
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	7,100.0	7,017.2	2,129.6	1,963.8	12.847	SF
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	4,167.0	4,156.0	1,272.3	1,174.3	12.982	CC
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	4,300.0	4,289.0	1,274.2	1,173.1	12.600	ES
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	6,800.0	6,763.8	1,513.2	1,353.5	9.475	SF
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,754.0	6,718.8	1,019.2	860.6	6.425	CC
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,800.0	6,763.8	1,020.3	860.6	6.387	ES
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,900.0	6,858.5	1,030.5	868.4	6.357	SF
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	4,310.3	4,360.9	1,110.1	1,093.3	66.059	CC, ES
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	6,800.0	6,773.8	1,404.9	1,379.1	54.507	SF
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	4,167.0	4,156.0	1,855.6	1,757.9	19.009	CC
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	4,200.0	4,189.0	1,855.7	1,757.4	18.860	ES
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	6,850.0	6,811.8	2,221.2	2,061.1	13.870	SF
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,647.0	7,280.0	2,699.7	2,237.5	5.841	CC
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,700.0	7,280.0	2,700.2	2,236.6	5.824	ES
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,900.0	7,280.0	2,711.5	2,243.6	5.794	SF
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,319.7	7,280.0	4,007.5	3,554.1	8.840	CC
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,400.0	7,280.0	4,008.3	3,552.7	8.799	ES
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,900.0	7,280.0	4,049.3	3,583.0	8.685	SF
SW NE SEC. 26 T5N R66W 6th P.M.						
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,684.3	7,313.0	1,187.1	694.4	2.410	CC
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,700.0	7,313.0	1,187.2	694.1	2.408	ES, SF
ABDN VERT HORII #1 - Wellbore #1 - Design #1	19,898.7	7,365.0	1,675.7	1,279.2	4.226	CC, ES, SF
ABDN VERT HORII #2 - Wellbore #1 - Design #1	19,898.7	7,335.0	1,189.2	991.3	6.009	CC, ES, SF
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,720.1	7,357.0	1,424.7	930.6	2.884	CC, ES
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,800.0	7,357.0	1,426.9	931.4	2.880	SF
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,208.6	7,613.1	2,217.0	1,851.5	6.066	CC, ES
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,300.0	7,612.5	2,218.9	1,851.9	6.046	SF
EXIST DD SEGL #18-24 - Wellbore #1 - Wellbore #1	19,898.7	7,496.0	2,800.1	2,515.9	9.854	CC, ES, SF
EXIST DD SEGL #21-24X - Wellbore #1 - Wellbore #1	19,898.7	7,650.0	2,147.7	1,768.3	5.660	CC, ES, SF
EXIST DD SEGL #22-24 - Wellbore #1 - Wellbore #1	19,898.7	7,430.3	1,953.1	1,808.5	13.509	CC, ES, SF
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,804.7	7,729.2	2,939.6	2,566.1	7.869	CC
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,898.7	7,728.9	2,941.2	2,565.9	7.837	ES, SF
EXIST DD SEGL #3-24 - Wellbore #1 - Wellbore #1	19,898.7	7,724.0	3,086.1	2,735.5	8.801	CC, ES, SF
EXIST DD SEGL #4-24 - Wellbore #1 - Wellbore #1	19,898.7	7,860.0	3,832.8	3,547.6	13.440	CC, ES, SF
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,550.2	7,591.5	1,489.6	1,120.6	4.036	CC
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,600.0	7,592.1	1,490.5	1,120.5	4.028	ES, SF
EXIST VERT ANDERSON-COOMBS #2 - Wellbore #1 -	19,898.7	7,100.0	3,992.6	3,654.9	11.821	CC, ES, SF
EXIST VERT ANDERSON-COOMBS #3 - Wellbore #1 -	19,898.7	7,350.0	2,744.0	2,274.7	5.847	CC, ES, SF
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,677.6	7,336.0	133.3	-359.4	0.271	Level 1, CC, ES, SF
EXIST VERT SEGL #1 - Wellbore #1 - Design #1	19,898.7	7,323.0	1,821.4	1,407.8	4.403	CC, ES, SF
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,639.8	7,316.0	3,829.7	3,338.2	7.793	CC
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,700.0	7,316.0	3,830.2	3,337.1	7.768	ES
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,898.7	7,316.0	3,838.4	3,340.5	7.709	SF
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,640.6	7,312.3	2,558.2	2,066.8	5.206	CC
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,700.0	7,312.3	2,558.9	2,065.9	5.190	ES
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,898.7	7,312.3	2,571.2	2,074.2	5.173	SF

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