

EXTRACTION OIL & GAS

Weld County

Sec 21-T5N-R65W

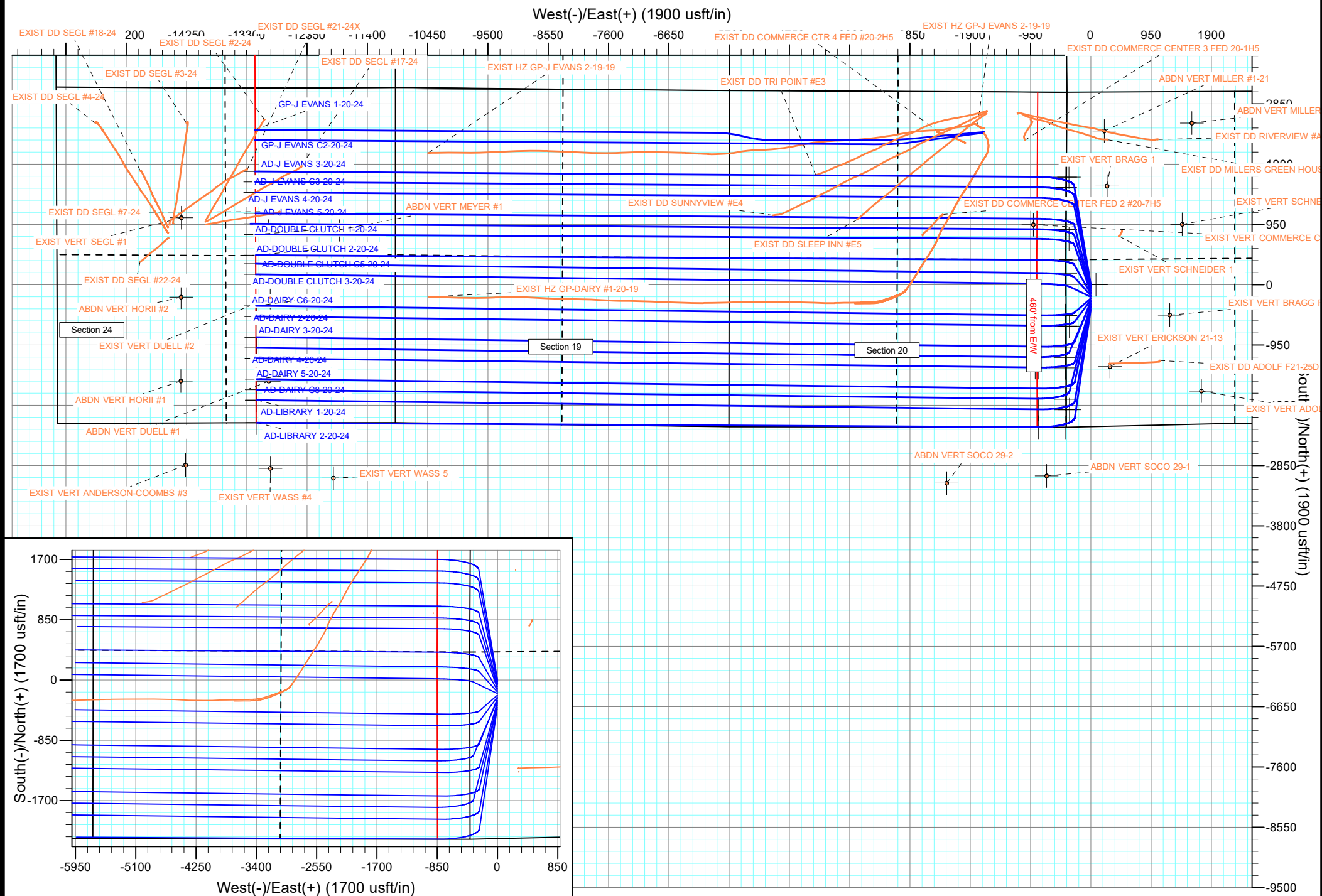
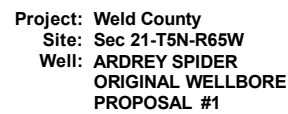
AD-DAIRY 2-20-24

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

13 February, 2017



Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well AD-DAIRY 2-20-24
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-DAIRY 2-20-24	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	2/13/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	19,696.1	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	18,399.6	7,144.0	1,382.6	925.4	3.024	CC
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,400.0	7,144.0	1,382.6	925.4	3.024	ES
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,500.0	7,144.0	1,386.3	927.5	3.022	SF
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	3,783.2	3,977.4	2,825.4	2,803.8	130.506	CC
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	3,800.0	3,989.8	2,825.5	2,803.7	130.001	ES
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	9,400.0	7,102.7	3,424.0	3,346.2	44.019	SF
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	8,898.5	7,038.6	1,732.3	1,654.2	22.184	CC
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	8,900.0	7,038.6	1,732.3	1,654.2	22.174	ES
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,400.0	7,044.3	1,803.5	1,717.2	20.897	SF
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	8,974.2	7,136.3	3,032.0	2,951.3	37.549	CC
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	9,000.0	7,135.9	3,032.1	2,950.8	37.269	ES
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	10,300.0	7,113.1	3,309.1	3,203.7	31.374	SF
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	3,891.8	4,348.5	2,666.4	2,632.4	78.314	CC
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	3,900.0	4,354.7	2,666.5	2,632.3	78.163	ES
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	8,300.0	7,240.8	3,552.4	3,482.4	50.729	SF
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	3,746.7	4,285.2	2,678.3	2,634.7	61.512	CC, ES
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	6,600.0	7,077.4	3,179.3	3,109.9	45.843	SF
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,239.1	7,757.8	1,650.4	1,511.7	11.895	CC, ES
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,300.0	7,761.6	1,651.6	1,512.4	11.867	SF
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,537.4	8,119.6	1,695.6	1,495.3	8.465	CC, ES
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,600.0	8,129.9	1,696.8	1,496.1	8.456	SF
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	10,899.7	7,868.1	2,339.6	2,170.7	13.848	CC
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	10,900.0	7,868.2	2,339.6	2,170.7	13.847	ES
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,200.0	7,893.0	2,358.3	2,185.4	13.639	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,265.4	8,205.0	350.3	222.6	2.744	CC, ES, SF
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	12,815.7	10,831.7	305.8	39.1	1.147	Level 2, CC
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	17,000.0	15,000.0	361.4	-115.7	0.758	Level 1, ES, SF
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,017.9	13,082.0	2,608.8	2,110.3	5.233	CC
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,100.0	13,082.0	2,610.1	2,110.2	5.221	ES
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,200.0	13,082.0	2,615.2	2,114.1	5.219	SF
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	0.0	17.6	3,185.6			
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	13,500.0	1,163.0	8,412.3	8,334.2	107.678	SF
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	3,507.0	3,512.0	1,492.3	1,410.2	18.170	CC
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	3,700.0	3,704.9	1,494.1	1,407.5	17.243	ES
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	7,700.0	7,015.0	1,608.1	1,433.3	9.198	SF
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	11,598.7	8,957.4	2,878.2	2,664.4	13.461	CC
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	17,078.2	2,947.1	2,289.5	4.482	ES, SF

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

Anticollision Report

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Reference Well:	AD-DAIRY 2-20-24	Survey Calculation Method:	Minimum Curvature
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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 20-T5N-R65W						
GP-J EVANS C2-20-24 - ORIGINAL WELLBORE - PROP	19,696.1	17,247.2	2,779.8	2,122.1	4.227	CC, ES, SF

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Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary						
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Offset Well - Wellbore - Design						
Sec 21-T5N-R65W						
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	3,507.0	3,510.0	2,673.5	2,591.4	32.560	CC
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	3,600.0	3,603.0	2,674.7	2,590.4	31.730	ES
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	7,200.0	6,987.1	3,189.2	3,022.9	19.170	SF
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	3,507.0	3,503.0	3,212.1	3,130.0	39.125	CC
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	3,600.0	3,590.0	3,213.6	3,129.4	38.182	ES
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	6,900.0	6,816.7	3,752.1	3,591.7	23.383	SF
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,267.0	7,003.8	2,368.1	2,199.5	14.050	CC
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,300.0	7,001.3	2,368.4	2,199.5	14.017	ES
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,900.0	7,006.0	2,464.2	2,284.4	13.707	SF
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	8,784.6	7,011.0	2,497.6	2,297.6	12.486	CC
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	8,800.0	7,011.0	2,497.7	2,297.2	12.460	ES
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,400.0	7,011.0	2,572.3	2,357.6	11.977	SF
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	2,104.4	2,104.4	21.9	7.2	1.490	Level 3, CC
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	19,696.1	19,719.6	327.9	-375.8	0.466	Level 1, ES, SF
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	700.0	700.0	69.2	64.6	15.044	CC
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	19,638.3	32,227.7	659.3	-381.1	0.634	Level 1, ES, SF
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	400.0	400.0	94.7	92.3	38.658	CC, ES
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	19,696.1	19,791.8	987.3	283.7	1.403	Level 3, SF
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	3,507.0	3,506.0	25.5	0.8	1.031	Level 2, CC
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	19,894.0	269.4	-196.3	0.579	Level 1, ES, SF
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	1,700.0	1,700.0	47.4	35.6	4.023	CC
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	19,866.3	538.1	-112.8	0.827	Level 1, ES, SF
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	300.0	300.0	116.6	114.9	67.209	CC, ES
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	19,943.7	1,173.8	482.5	1.698	SF
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	1,700.0	1,699.0	120.2	108.4	10.215	CC, ES
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	19,696.1	19,725.8	1,293.2	589.5	1.838	SF
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	3,000.0	2,999.0	98.4	77.3	4.664	CC, ES
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	19,696.1	19,697.0	965.4	261.6	1.372	Level 3, SF
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	3,507.0	3,507.0	51.0	26.3	2.063	CC
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	19,696.1	19,601.5	662.9	-40.0	0.943	Level 1, ES, SF
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	3,507.0	3,506.0	72.9	48.1	2.947	CC, ES
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	19,696.1	19,889.0	856.8	173.1	1.253	Level 3, SF
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	100.0	99.0	240.5	240.2	802.559	CC, ES
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	19,857.3	2,284.0	1,580.2	3.245	SF
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	300.0	299.0	193.1	191.4	111.525	CC, ES
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	19,797.3	1,956.2	1,252.4	2.780	SF
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	400.0	399.0	171.2	168.8	69.932	CC, ES
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	19,696.1	19,746.3	1,624.7	921.0	2.309	SF
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	200.0	199.0	218.6	217.6	215.480	CC, ES
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	19,696.1	20,031.6	2,130.5	1,430.3	3.043	SF
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	1,100.0	1,099.0	145.7	138.3	19.516	CC, ES
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	19,696.1	19,939.7	1,475.9	779.2	2.118	SF
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	200.0	200.0	142.1	141.1	139.582	CC, ES
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	19,620.9	35,928.0	1,318.5	181.5	1.160	Level 2, SF
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	100.0	100.0	167.6	167.3	556.592	CC, ES
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	19,696.1	19,903.3	1,675.8	972.6	2.383	SF
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	775.0	770.0	1,044.8	1,040.7	257.903	CC
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	900.0	885.9	1,045.3	1,040.6	220.209	ES
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	6,650.0	6,696.5	1,491.7	1,451.5	37.126	SF
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	4,480.3	4,461.2	2,255.7	2,151.0	21.541	CC
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,525.2	6,481.7	2,277.5	2,124.1	14.849	ES
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,750.0	6,705.6	2,321.4	2,162.5	14.610	SF
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	3,507.0	3,487.0	1,814.3	1,732.4	22.159	CC

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Reference Design:	PROPOSAL #1	Offset TVD Reference:	Offset Datum

Summary

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Offset Well - Wellbore - Design						
Sec 21-T5N-R65W						
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	3,600.0	3,580.0	1,815.7	1,731.6	21.598	ES
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	6,900.0	6,806.7	2,280.7	2,120.0	14.192	SF
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	3,507.0	3,505.0	1,267.3	1,184.8	15.352	CC
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	3,700.0	3,687.9	1,270.1	1,183.3	14.621	ES
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	6,600.0	6,554.1	1,517.3	1,362.3	9.784	SF
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,559.6	6,514.7	898.2	744.0	5.826	CC
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,600.0	6,554.1	899.1	744.0	5.795	ES
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	6,650.0	6,601.9	903.1	746.7	5.776	SF
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	3,601.4	3,637.0	1,155.8	1,141.8	82.272	CC, ES
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	6,600.0	6,559.6	1,536.4	1,511.4	61.458	SF
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	3,507.0	3,505.0	1,871.7	1,789.5	22.782	CC
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	3,600.0	3,588.0	1,873.2	1,789.0	22.261	ES
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	6,750.0	6,706.6	2,356.4	2,198.7	14.944	SF
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,449.9	7,069.0	2,532.5	2,074.7	5.531	CC
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,500.0	7,069.0	2,533.0	2,073.8	5.516	ES
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,700.0	7,069.0	2,544.9	2,081.3	5.490	SF
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,123.0	7,069.0	3,840.4	3,391.4	8.553	CC
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,200.0	7,069.0	3,841.2	3,390.0	8.515	ES
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,700.0	7,069.0	3,883.5	3,421.7	8.410	SF
SW NE SEC. 26 T5N R66W 6th P.M.						
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,486.8	7,102.0	1,019.6	531.3	2.088	CC
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,500.0	7,102.0	1,019.7	531.0	2.087	ES, SF
ABDN VERT HORII #1 - Wellbore #1 - Design #1	19,696.1	7,154.0	1,563.7	1,192.4	4.211	CC, ES, SF
ABDN VERT HORII #2 - Wellbore #1 - Design #1	19,696.1	7,143.0	1,222.4	986.1	5.172	CC, ES, SF
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,521.8	7,146.0	1,592.2	1,102.5	3.252	CC, ES
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,600.0	7,146.0	1,594.1	1,103.0	3.246	SF
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	18,800.0	18,800.0	2,388.7	2,019.2	6.466	SF
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,009.3	7,379.3	2,379.5	2,014.5	6.519	CC, ES
EXIST DD SEGL #18-24 - Wellbore #1 - Wellbore #1	19,696.1	7,322.2	2,932.1	2,639.5	10.021	CC, ES, SF
EXIST DD SEGL #21-24X - Wellbore #1 - Wellbore #1	19,696.1	7,485.2	2,320.2	1,941.1	6.121	CC, ES, SF
EXIST DD SEGL #22-24 - Wellbore #1 - Wellbore #1	19,696.1	7,218.3	2,021.3	1,851.4	11.900	CC, ES, SF
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,605.8	7,510.5	3,106.0	2,732.8	8.324	CC
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,696.1	7,510.8	3,107.3	2,732.5	8.290	ES, SF
EXIST DD SEGL #3-24 - Wellbore #1 - Wellbore #1	19,696.1	7,590.0	3,248.8	2,896.1	9.210	CC, ES, SF
EXIST DD SEGL #4-24 - Wellbore #1 - Wellbore #1	19,696.1	7,747.7	3,967.4	3,675.7	13.603	CC, ES, SF
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,349.8	7,368.9	1,658.4	1,289.7	4.499	CC
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,400.0	7,369.3	1,659.1	1,289.5	4.489	ES, SF
EXIST VERT ANDERSON-COOMBS #2 - Wellbore #1 -	19,696.1	7,100.0	3,827.4	3,491.4	11.392	CC, ES, SF
EXIST VERT ANDERSON-COOMBS #3 - Wellbore #1 -	19,696.1	7,139.0	2,592.8	2,132.6	5.633	CC, ES, SF
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,479.7	7,125.0	300.8	-187.5	0.616	Level 1, CC, ES, SF
EXIST VERT SEGL #1 - Wellbore #1 - Design #1	19,696.1	7,163.0	1,953.2	1,530.0	4.615	CC, ES, SF
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,443.0	7,105.0	3,662.2	3,175.1	7.518	CC
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,500.0	7,105.0	3,662.7	3,174.0	7.495	ES
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,696.1	7,105.0	3,670.9	3,177.5	7.439	SF
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,443.4	7,101.3	2,390.8	1,903.7	4.908	CC
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,500.0	7,101.3	2,391.4	1,902.8	4.894	ES
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,600.0	7,101.3	2,395.9	1,905.0	4.881	SF

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