

EXTRACTION OIL & GAS

Weld County

Sec 21-T5N-R65W

AD-LIBRARY 1-20-24

ORIGINAL WELLBORE

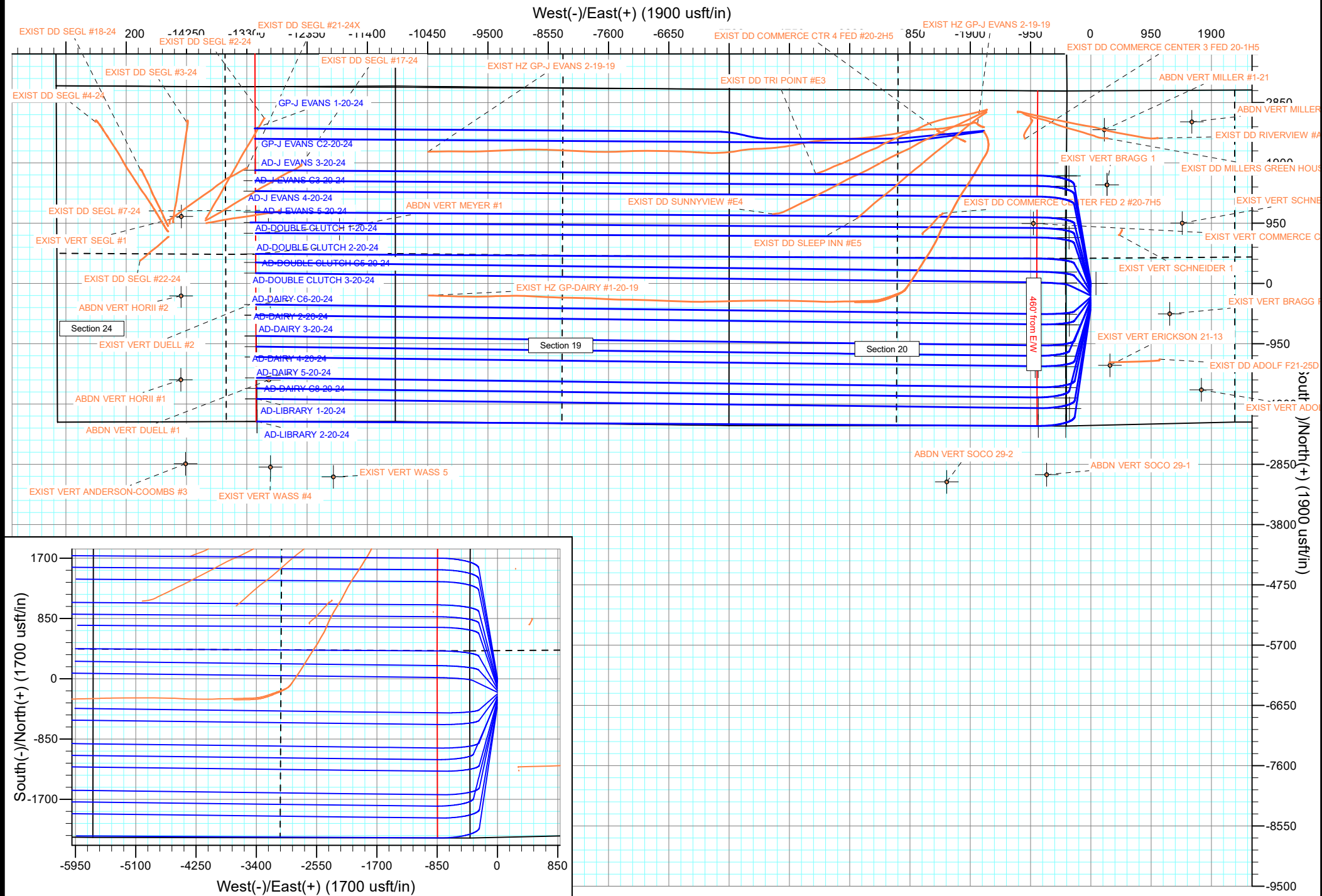
PROPOSAL #1

Anticollision Report

13 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-LIBRARY 1-20-24
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-LIBRARY 1-20-24	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	19,845.8	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	18,575.3	7,144.0	2,701.2	2,243.8	5.906	CC
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,600.0	7,144.0	2,701.3	2,243.4	5.900	ES
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,800.0	7,144.0	2,710.5	2,249.5	5.880	SF
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	200.0	225.0	3,136.4	3,135.7	4,372.307	CC, ES
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	10,800.0	7,118.6	5,199.5	5,103.7	54.283	SF
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	200.0	207.0	2,886.4	2,885.7	4,073.975	CC
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	300.0	307.0	2,886.9	2,885.7	2,513.037	ES
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	10,300.0	7,035.1	3,287.9	3,190.3	33.685	SF
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	200.0	229.0	3,307.7	3,306.9	4,357.655	CC, ES
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	11,400.0	7,111.6	4,897.9	4,777.9	40.826	SF
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	840.6	1,525.9	3,273.7	3,266.4	445.270	CC, ES
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	9,900.0	7,237.6	5,460.1	5,370.8	61.154	SF
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	213.2	242.5	3,299.5	3,298.7	4,183.134	CC, ES
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	13,300.0	13,300.0	8,656.5	8,488.7	51.580	SF
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,421.1	7,833.8	2,965.3	2,825.3	21.188	CC, ES
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,900.0	7,840.0	3,003.6	2,859.2	20.798	SF
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,718.6	8,149.1	3,013.8	2,812.7	14.992	CC, ES
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	12,000.0	8,194.5	3,026.5	2,822.7	14.849	SF
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	0.0	40.6	3,521.7			
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,100.0	7,893.0	3,654.4	3,483.9	21.443	ES
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,800.0	7,893.0	3,724.5	3,544.9	20.739	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,400.0	8,205.0	1,640.7	1,497.4	11.449	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,441.1	8,205.0	1,640.2	1,497.2	11.469	CC, ES
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	12,976.2	10,816.4	1,614.6	1,337.8	5.833	CC
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	17,200.0	15,000.0	1,664.6	1,160.4	3.302	ES, SF
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	0.0	17.6	3,305.7			
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,500.0	13,082.0	3,939.1	3,435.9	7.828	SF
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	0.0	17.6	3,305.7			
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	14,400.0	1,163.0	9,421.5	9,325.4	98.021	SF
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	200.0	205.0	1,606.1	1,602.5	444.721	CC
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	300.0	305.0	1,607.4	1,601.4	266.415	ES
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	8,300.0	7,015.0	2,983.0	2,800.9	16.376	SF
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	200.0	234.0	3,255.6	3,254.7	3,598.901	CC, ES
GP-J EVANS 1-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	17,058.9	4,264.6	3,607.8	6.493	SF
GP-J EVANS C2-20-24 - ORIGINAL WELLBORE - PROP	0.0	33.0	3,246.3			
GP-J EVANS C2-20-24 - ORIGINAL WELLBORE - PROP	100.0	122.7	3,246.3	3,246.0	10,000.000	ES
GP-J EVANS C2-20-24 - ORIGINAL WELLBORE - PROP	19,845.8	17,227.8	4,098.3	3,441.7	6.241	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-LIBRARY 1-20-24
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-LIBRARY 1-20-24	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						

Anticollision Report

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Offset Well - Wellbore - Design						
Sec 21-T5N-R65W						
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	200.0	203.0	2,815.3	2,811.7	784.595	CC
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	300.0	303.0	2,817.1	2,811.0	468.561	ES
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	8,400.0	7,013.0	4,775.6	4,594.8	26.422	SF
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	200.0	190.0	3,337.5	3,334.1	979.621	CC
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	300.0	290.0	3,339.2	3,333.3	569.230	ES
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	7,150.0	6,881.5	4,939.1	4,774.2	29.955	SF
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,431.2	7,002.4	1,050.6	879.7	6.150	CC
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,450.0	7,000.5	1,050.8	879.6	6.139	ES
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,530.9	7,006.0	1,057.3	884.1	6.105	SF
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	8,960.3	7,011.0	1,179.0	978.0	5.866	CC
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,000.0	7,011.0	1,179.7	977.2	5.827	ES
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,200.0	7,011.0	1,203.1	994.1	5.757	SF
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	200.0	200.0	142.1	141.1	139.582	CC, ES
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	19,845.8	19,670.6	1,318.6	616.1	1.877	SF
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	200.0	200.0	120.2	119.2	118.117	CC, ES
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	19,845.8	19,701.8	990.8	288.3	1.410	Level 3, SF
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	200.0	200.0	72.9	71.9	71.745	CC
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	19,845.8	19,729.1	659.3	-43.2	0.939	Level 1, ES, SF
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	200.0	200.0	47.4	46.4	46.681	CC
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	19,845.8	19,785.3	331.5	-371.1	0.472	Level 1, ES, SF
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	200.0	201.0	167.6	166.6	164.048	CC, ES
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	19,868.1	1,501.0	804.3	2.155	SF
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	200.0	200.0	94.8	93.7	93.081	CC, ES
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	19,848.5	849.5	167.2	1.245	Level 2, SF
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	200.0	200.0	25.5	24.5	25.048	CC
AD-DAIRY C8-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	19,939.1	266.4	-199.0	0.572	Level 1, ES, SF
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	200.0	201.0	262.3	261.3	256.750	CC, ES
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	19,845.8	19,709.2	2,611.9	1,909.2	3.717	SF
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	200.0	201.0	240.5	239.4	235.361	CC, ES
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	19,845.8	19,678.8	2,284.0	1,581.3	3.250	SF
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	200.0	200.0	193.1	192.1	189.671	CC, ES
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	19,845.8	19,575.7	1,981.5	1,279.9	2.824	SF
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	200.0	201.0	215.0	213.9	210.399	CC, ES
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	19,845.8	19,863.5	2,159.3	1,459.7	3.086	SF
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	100.0	99.0	382.6	382.3	1,276.840	CC, ES
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	19,838.5	3,602.6	2,899.9	5.127	SF
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	200.0	201.0	335.2	334.2	328.097	CC, ES
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	19,777.5	3,274.8	2,572.2	4.661	SF
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	200.0	201.0	313.3	312.3	306.669	CC, ES
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	19,845.8	19,727.7	2,943.3	2,240.7	4.189	SF
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	200.0	199.0	360.7	359.7	355.553	CC, ES
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	19,845.8	20,013.1	3,445.2	2,743.7	4.911	SF
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	200.0	201.0	287.8	286.8	281.714	CC, ES
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	19,845.8	19,919.9	2,787.4	2,086.6	3.978	SF
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	100.0	100.0	25.5	25.2	84.687	CC
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	19,845.8	19,907.8	357.0	-345.6	0.508	Level 1, ES, SF
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	1,955.4	1,817.3	729.3	716.7	57.926	CC
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	2,000.0	1,860.7	729.4	716.4	56.237	ES
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	6,700.0	6,596.5	1,493.7	1,446.2	31.459	SF
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	4,606.1	4,478.0	1,939.0	1,826.2	17.187	CC
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	5,400.0	5,248.4	1,948.5	1,815.9	14.693	ES
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,800.0	6,604.5	2,029.0	1,862.0	12.148	SF
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	200.0	180.0	1,955.4	1,952.2	597.923	CC

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Sec 21-T5N-R65W						
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	300.0	280.0	1,957.2	1,951.4	340.081	ES
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	7,250.0	6,924.5	3,598.9	3,432.9	21.668	SF
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	200.0	188.0	1,251.4	1,247.6	330.454	CC
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	700.0	685.5	1,256.1	1,240.3	79.402	ES
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	6,750.0	6,556.5	2,046.8	1,885.7	12.707	SF
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,031.8	3,919.8	454.3	355.9	4.615	CC
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,200.0	4,083.0	456.1	353.5	4.445	ES
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,800.0	4,665.2	490.9	374.0	4.201	SF
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	208.0	209.6	1,323.6	1,322.9	1,892.798	CC, ES
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	9,000.0	7,001.6	3,855.6	3,812.8	90.148	SF
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	200.0	188.0	1,967.4	1,964.0	582.259	CC
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	300.0	288.0	1,968.7	1,962.9	336.929	ES
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	6,900.0	6,706.5	3,344.7	3,183.0	20.688	SF
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,625.6	7,069.0	1,214.0	756.0	2.651	CC
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,700.0	7,069.0	1,216.3	755.9	2.642	ES, SF
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,298.7	7,069.0	2,521.8	2,072.7	5.615	CC
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,400.0	7,069.0	2,523.9	2,071.6	5.581	ES
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,600.0	7,069.0	2,539.8	2,082.8	5.558	SF
SW NE SEC. 26 T5N R66W 6th P.M.						
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,662.5	7,102.0	298.9	-189.4	0.612	Level 1, CC, ES, SF
ABDN VERT HORII #1 - Wellbore #1 - Design #1	19,845.8	7,154.0	1,235.1	989.0	5.019	CC, ES, SF
ABDN VERT HORII #2 - Wellbore #1 - Design #1	19,845.8	7,143.0	2,015.5	1,581.9	4.649	CC, ES, SF
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,697.6	7,146.0	2,910.7	2,421.0	5.943	CC
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,800.0	7,146.0	2,912.5	2,420.8	5.923	ES
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,845.8	7,146.0	2,914.5	2,422.0	5.918	SF
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,184.1	7,246.0	3,697.0	3,332.5	10.143	CC
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,200.0	7,246.1	3,697.0	3,332.2	10.135	ES
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,600.0	7,249.8	3,720.3	3,350.0	10.046	SF
EXIST DD SEGL #18-24 - Wellbore #1 - Wellbore #1	19,845.8	7,330.5	4,052.8	3,718.0	12.103	CC, ES, SF
EXIST DD SEGL #21-24X - Wellbore #1 - Wellbore #1	19,845.8	7,519.9	3,637.2	3,257.9	9.589	CC, ES, SF
EXIST DD SEGL #22-24 - Wellbore #1 - Wellbore #1	19,845.8	7,222.4	2,850.9	2,556.3	9.677	CC, ES, SF
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,781.5	7,501.1	4,424.5	4,051.3	11.856	CC
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,845.8	7,501.4	4,425.0	4,050.6	11.819	ES, SF
EXIST DD SEGL #3-24 - Wellbore #1 - Wellbore #1	19,845.8	7,634.9	4,513.9	4,150.2	12.412	CC, ES, SF
EXIST DD SEGL #4-24 - Wellbore #1 - Wellbore #1	19,845.8	7,789.1	5,057.4	4,727.5	15.334	CC, ES, SF
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,525.6	7,371.9	2,976.9	2,608.2	8.073	CC
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,600.0	7,372.5	2,977.9	2,607.7	8.045	ES
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,800.0	7,374.0	2,989.5	2,616.6	8.017	SF
EXIST VERT ANDERSON-COOMBS #2 - Wellbore #1 -	19,845.8	7,100.0	2,612.0	2,303.4	8.464	CC, ES, SF
EXIST VERT ANDERSON-COOMBS #3 - Wellbore #1 -	19,845.8	7,139.0	1,519.4	1,147.3	4.084	CC, ES, SF
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,655.4	7,125.0	1,619.3	1,130.9	3.316	CC
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,700.0	7,125.0	1,619.9	1,130.9	3.313	ES, SF
EXIST VERT SEGL #1 - Wellbore #1 - Design #1	19,845.8	7,163.0	3,111.8	2,640.5	6.603	CC, ES, SF
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,618.7	7,105.0	2,343.7	1,856.5	4.811	CC
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,700.0	7,105.0	2,345.1	1,855.4	4.789	ES
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,845.8	7,105.0	2,354.6	1,861.4	4.774	SF
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,619.1	7,101.3	1,072.2	585.1	2.201	CC, ES
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,700.0	7,101.3	1,075.3	585.7	2.196	SF

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