

EXTRACTION OIL & GAS

Weld County

Sec 21-T5N-R65W

AD-DAIRY C8-20-24

ORIGINAL WELLBORE

PROPOSAL #1

Anticollision Report

27 June, 2017

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well AD-DAIRY C8-20-24
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 C8-20-24	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	6/27/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	20,020.5	PROPOSAL #1 (ORIGINAL WELLBORE)	MWD OWSG	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	18,745.3	7,354.0	2,520.3	2,058.7	5.460	CC
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,800.0	7,354.0	2,520.9	2,058.2	5.449	ES
ABDN VERT MEYER #1 - Wellbore #1 - Design #1	18,900.0	7,354.0	2,525.0	2,060.8	5.439	SF
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	300.0	325.0	3,112.1	3,110.9	2,663.588	CC, ES
EXIST DD COMMERCE CENTER 3 FED 20-1H5 - Wellb	10,800.0	7,240.0	4,952.2	4,858.6	52.905	SF
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,246.5	7,233.5	2,872.8	2,793.3	36.140	CC
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	9,300.0	7,234.2	2,873.3	2,792.8	35.695	ES
EXIST DD COMMERCE CENTER FED 2 #20-7H5 - Wel	10,300.0	7,245.5	3,059.9	2,964.0	31.917	SF
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	300.0	329.0	3,287.4	3,286.2	2,679.901	CC, ES
EXIST DD COMMERCE CTR 4 FED #20-2H5 - Wellbore	11,400.0	7,300.0	4,659.2	4,541.4	39.535	SF
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	897.7	1,549.6	3,230.1	3,222.5	423.491	CC
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	900.0	1,550.6	3,230.1	3,222.5	422.717	ES
EXIST DD MILLERS GREEN HOUSE #A10 - Wellbore #	9,800.0	7,437.4	5,151.5	5,065.3	59.713	SF
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	319.6	354.8	3,275.1	3,273.8	2,564.335	CC
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	1,600.0	2,325.4	3,283.3	3,267.1	202.535	ES
EXIST DD RIVERVIEW #A9 - Wellbore #1 - Wellbore #1	6,900.0	7,314.2	4,192.7	4,119.5	57.251	SF
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,591.6	7,840.0	2,776.3	2,636.4	19.848	CC
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	10,600.0	7,840.0	2,776.3	2,636.3	19.834	ES
EXIST DD SLEEP INN #E5 - Wellbore #1 - Wellbore #1	11,000.0	7,840.0	2,806.2	2,662.7	19.555	SF
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	11,917.6	8,315.0	2,828.4	2,626.0	13.976	CC, ES
EXIST DD SUNNYVIEW #E4 - Wellbore #1 - Wellbore #	12,100.0	8,315.0	2,834.2	2,630.3	13.894	SF
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,250.6	7,893.0	3,466.3	3,296.2	20.374	CC
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,300.0	7,893.0	3,466.7	3,295.7	20.277	ES
EXIST DD TRI POINT #E3 - Wellbore #1 - Wellbore #1	11,900.0	7,893.0	3,526.7	3,348.0	19.742	SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,600.0	8,205.0	1,497.2	1,358.8	10.817	ES, SF
EXIST HZ GP-DAIRY #1-20-19 - ORIGINAL WELLBORE	10,611.1	8,205.0	1,497.1	1,358.9	10.827	CC
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	13,156.9	10,827.2	1,461.6	1,190.2	5.386	CC
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	17,300.0	14,964.4	1,514.6	1,022.8	3.080	ES
EXIST HZ GP-DAIRY #1-20-19 - SIDETRACK - SIDETR	17,400.0	15,000.0	1,516.5	1,024.0	3.079	SF
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	0.0	17.6	3,283.8			
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,400.0	13,082.0	3,755.2	3,257.1	7.539	ES
EXIST HZ GP-J EVANS 2-19-19 - MWD SURVEYS - MW	17,600.0	13,082.0	3,762.5	3,261.4	7.508	SF
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	0.0	17.6	3,283.8			
EXIST HZ GP-J EVANS 2-19-19 - SURFACE GYROS - S	14,700.0	1,163.0	9,551.6	9,457.3	101.214	SF
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	300.0	305.0	1,585.1	1,579.0	262.102	CC
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	400.0	405.0	1,586.3	1,577.9	188.175	ES
EXIST VERT COMMERCE CENTER #1 - Wellbore #1 - D	8,400.0	7,200.0	2,791.5	2,606.5	15.087	SF

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

Anticollision Report

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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 C8-20-24	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						

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Offset Well - Wellbore - Design						
Sec 21-T5N-R65W						
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	300.0	303.0	2,789.9	2,783.9	463.013	CC
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	400.0	403.0	2,791.6	2,783.2	331.977	ES
ABDN VERT MILLER #1-21 - Wellbore #1 - Design #1	7,350.0	7,120.0	4,248.1	4,078.2	25.000	SF
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	300.0	290.0	3,315.1	3,309.2	563.828	CC
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	400.0	390.0	3,316.8	3,308.5	401.114	ES
ABDN VERT MILLER F 21-3 - Wellbore #1 - Design #1	7,300.0	7,077.1	4,768.5	4,599.6	28.225	SF
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,601.0	7,190.0	1,231.2	1,056.4	7.045	CC, ES
ABDN VERT SOCO 29-1 - Wellbore #1 - Design #1	7,800.0	7,190.0	1,252.3	1,073.3	6.995	SF
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,130.3	7,197.0	1,360.0	1,155.1	6.638	CC
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,200.0	7,197.0	1,361.8	1,154.6	6.571	ES
ABDN VERT SOCO 29-2 - Wellbore #1 - Design #1	9,400.0	7,197.0	1,386.5	1,173.3	6.502	SF
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	116.6	114.9	67.209	CC, ES
AD-DAIRY 2-20-24 - ORIGINAL WELLBORE - PROPOS	20,020.6	19,675.4	1,156.8	465.3	1.673	SF
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	94.8	93.0	54.615	CC, ES
AD-DAIRY 3-20-24 - ORIGINAL WELLBORE - PROPOS	20,020.6	19,706.3	836.6	155.4	1.228	Level 2, SF
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	47.4	45.7	27.371	CC
AD-DAIRY 4-20-24 - ORIGINAL WELLBORE - PROPOS	20,020.6	19,733.8	522.4	-124.6	0.807	Level 1, ES, SF
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	300.0	300.0	22.0	20.3	12.713	CC
AD-DAIRY 5-20-24 - ORIGINAL WELLBORE - PROPOS	20,020.6	19,790.1	258.4	-180.2	0.589	Level 1, ES, SF
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	300.0	301.0	142.1	140.4	81.735	CC, ES
AD-DAIRY C6-20-24 - ORIGINAL WELLBORE - PROPO	20,020.6	19,872.9	1,305.2	602.3	1.857	SF
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	300.0	300.0	69.3	67.5	39.929	CC
AD-DAIRY C7-20-24 - ORIGINAL WELLBORE - PROPO	20,020.6	19,853.4	642.2	-59.2	0.916	Level 1, ES, SF
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	300.0	301.0	236.8	235.1	136.207	CC, ES
AD-DOUBLE CLUTCH 1-20-24 - ORIGINAL WELLBORE	20,020.6	19,712.8	2,439.9	1,739.3	3.483	SF
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	300.0	301.0	215.0	213.2	123.639	CC, ES
AD-DOUBLE CLUTCH 2-20-24 - ORIGINAL WELLBORE	20,020.6	19,682.6	2,113.4	1,413.7	3.020	SF
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	300.0	300.0	167.6	165.9	96.599	CC, ES
AD-DOUBLE CLUTCH 3-20-24 - ORIGINAL WELLBORE	20,020.6	19,580.5	1,812.7	1,115.4	2.600	SF
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	300.0	301.0	189.5	187.7	108.970	CC, ES
AD-DOUBLE CLUTCH C5-20-24 - ORIGINAL WELLBOR	20,020.6	19,868.3	1,968.1	1,265.2	2.800	SF
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	100.0	99.0	357.1	356.8	1,191.737	CC, ES
AD-J EVANS 3-20-24 - ORIGINAL WELLBORE - PROPO	20,020.6	19,842.4	3,428.1	2,726.2	4.884	SF
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	300.0	299.0	309.7	308.0	178.872	CC, ES
AD-J EVANS 4-20-24 - ORIGINAL WELLBORE - PROPO	20,020.6	19,781.5	3,100.9	2,399.4	4.420	SF
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	300.0	301.0	287.8	286.1	165.541	CC, ES
AD-J EVANS 5-20-24 - ORIGINAL WELLBORE - PROPO	20,020.6	19,731.6	2,770.3	2,069.2	3.951	SF
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	200.0	199.0	335.2	334.2	330.420	CC, ES
AD-J EVANS C3-20-24 - ORIGINAL WELLBORE - PROP	20,020.6	20,016.9	3,257.8	2,554.8	4.634	SF
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	300.0	301.0	262.3	260.6	150.876	CC, ES
AD-J EVANS C4-20-24 - ORIGINAL WELLBORE - PROP	20,020.6	19,925.7	2,598.4	1,895.5	3.697	SF
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	200.0	200.0	25.5	24.5	25.048	CC
AD-LIBRARY 1-20-24 - ORIGINAL WELLBORE - PROP	20,020.6	19,845.8	277.2	-212.0	0.567	Level 1, ES, SF
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	100.0	100.0	51.0	50.7	169.374	CC
AD-LIBRARY 2-20-24 - ORIGINAL WELLBORE - PROP	19,900.0	93,942.4	576.7	-1,961.3	0.227	Level 1, ES, SF
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	1,995.3	1,866.9	784.5	772.0	62.711	CC
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	2,000.0	1,871.5	784.5	772.0	62.519	ES
EXIST DD ADOLF F21-25D - Wellbore #1 - Wellbore #1	6,850.0	6,782.3	1,425.5	1,378.4	30.269	SF
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	5,123.8	5,009.3	1,960.9	1,836.2	15.725	CC
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,200.0	6,060.2	1,974.5	1,823.2	13.050	ES
EXIST VERT ADOLF F 21-14 - Wellbore #1 - Design #1	6,950.0	6,808.8	2,013.6	1,843.5	11.842	SF
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	300.0	280.0	1,930.2	1,924.4	334.609	CC
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	400.0	380.0	1,931.9	1,923.7	236.686	ES

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Offset Well - Wellbore - Design						
Sec 21-T5N-R65W						
EXIST VERT BRAGG 1 - Wellbore #1 - Design #1	7,350.0	7,103.0	3,403.6	3,234.0	20.062	SF
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	300.0	288.0	1,253.6	1,247.3	200.712	CC
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	800.0	785.5	1,258.2	1,240.1	69.281	ES
EXIST VERT BRAGG PM F 21-11 - Wellbore #1 - Design	6,950.0	6,809.8	1,945.5	1,779.3	11.704	SF
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,601.1	4,502.1	473.9	362.1	4.238	CC
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	4,800.0	4,707.9	475.8	358.9	4.069	ES
EXIST VERT ERICKSON 21-13 - Wellbore #1 - Design #	5,600.0	5,473.3	520.5	384.9	3.840	SF
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	285.9	283.9	1,299.9	1,298.8	1,251.420	CC
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	300.0	297.5	1,299.9	1,298.8	1,180.852	ES
EXIST VERT SCHNEIDER 1 - Wellbore #1 - Wellbore #1	8,900.0	7,114.0	3,539.7	3,499.6	88.296	SF
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	300.0	288.0	1,950.1	1,944.3	332.944	CC
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	400.0	388.0	1,951.5	1,943.3	236.634	ES
EXIST VERT SCHNEIDER 22-21 - Wellbore #1 - Design	6,950.0	6,809.8	3,155.7	2,992.2	19.306	SF
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,795.6	7,279.0	1,394.9	932.7	3.018	CC
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,800.0	7,279.0	1,394.9	932.5	3.017	ES
EXIST VERT WASS 5 - Wellbore #1 - Design #1	18,900.0	7,279.0	1,398.8	933.6	3.007	SF
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,468.7	7,279.0	2,702.7	2,249.4	5.962	CC
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,500.0	7,279.0	2,702.9	2,248.6	5.949	ES
EXIST VERT WASS 6 - Wellbore #1 - Design #1	18,800.0	7,279.0	2,722.9	2,261.2	5.897	SF
SW NE SEC. 26 T5N R66W 6th P.M.						
ABDN VERT DUELL #1 - Wellbore #1 - Design #1	19,832.5	7,312.0	118.1	-374.5	0.240	Level 1, CC, ES, SF
ABDN VERT HORII #1 - Wellbore #1 - Design #1	20,020.6	7,364.0	1,201.1	995.6	5.844	CC, ES, SF
ABDN VERT HORII #2 - Wellbore #1 - Design #1	20,020.6	7,335.0	1,871.2	1,446.1	4.402	CC, ES, SF
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,867.6	7,356.0	2,729.8	2,235.8	5.526	CC
ABDN VERT RKW #1 - Wellbore #1 - Design #1	19,900.0	7,356.0	2,730.0	2,235.4	5.519	ES
ABDN VERT RKW #1 - Wellbore #1 - Design #1	20,020.6	7,356.0	2,734.1	2,237.3	5.504	SF
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,355.7	7,583.9	3,521.7	3,156.4	9.640	CC
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,400.0	7,584.2	3,522.0	3,155.8	9.619	ES
EXIST DD SEGL #17-24 - Wellbore #1 - Wellbore #1	19,700.0	7,586.0	3,538.5	3,168.2	9.555	SF
EXIST DD SEGL #18-24 - Wellbore #1 - Wellbore #1	20,020.6	7,497.4	3,889.9	3,558.4	11.734	CC, ES, SF
EXIST DD SEGL #21-24X - Wellbore #1 - Wellbore #1	20,020.6	7,650.0	3,451.7	3,072.1	9.093	CC, ES, SF
EXIST DD SEGL #22-24 - Wellbore #1 - Wellbore #1	20,020.6	7,429.8	2,713.0	2,428.3	9.529	CC, ES, SF
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	19,951.7	7,722.2	4,244.8	3,871.3	11.366	CC
EXIST DD SEGL #2-24 - Wellbore #1 - Wellbore #1	20,020.6	7,722.0	4,245.3	3,870.6	11.327	ES, SF
EXIST DD SEGL #3-24 - Wellbore #1 - Wellbore #1	20,020.6	7,724.0	4,333.6	3,970.6	11.938	CC, ES, SF
EXIST DD SEGL #4-24 - Wellbore #1 - Wellbore #1	20,020.6	7,860.0	4,895.4	4,569.0	15.000	CC, ES, SF
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,697.8	7,603.6	2,794.7	2,425.6	7.573	CC
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,700.0	7,603.6	2,794.7	2,425.6	7.572	ES
EXIST DD SEGL #7-24 - Wellbore #1 - Wellbore #1	19,900.0	7,606.1	2,802.0	2,429.7	7.526	SF
EXIST VERT ANDERSON-COOMBS #2 - Wellbore #1 -	20,020.6	7,100.0	2,781.9	2,468.0	8.862	CC, ES, SF
EXIST VERT ANDERSON-COOMBS #3 - Wellbore #1 -	20,020.6	7,349.0	1,644.8	1,246.6	4.130	CC, ES, SF
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,825.4	7,335.0	1,438.4	945.8	2.920	CC, ES
EXIST VERT DUELL #2 - Wellbore #1 - Design #1	19,900.0	7,335.0	1,440.4	946.9	2.919	SF
EXIST VERT SEGL #1 - Wellbore #1 - Design #1	20,020.6	7,323.0	2,944.7	2,473.7	6.252	CC, ES, SF
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,788.7	7,315.0	2,524.6	2,033.2	5.137	CC
EXIST VERT WASS #2 - Wellbore #1 - Design #1	19,900.0	7,315.0	2,527.0	2,032.3	5.108	ES
EXIST VERT WASS #2 - Wellbore #1 - Design #1	20,020.6	7,315.0	2,535.2	2,037.6	5.095	SF
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,789.1	7,311.3	1,253.1	761.7	2.550	CC
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,800.0	7,311.3	1,253.2	761.4	2.548	ES
EXIST VERT WASS #4 - Wellbore #1 - Design #1	19,900.0	7,311.3	1,258.0	763.7	2.545	SF

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