

NM OIL CONSERVATION

ARTESIA DISTRICT

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Yates Petroleum

Eddy County , N.M. NAD 83

Section 25/36-26S-27E Chamaeleon BIN State Com

2H

Chamaeleon BIN State Com #2H

Original Hole

Original Hole

Anticollision Risk Report

17 September, 2014

30-015-42059

Stryker Directional

Anticollision Risk Report

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well Chamaeleon BIN State Com #2H
Project:	Eddy County , N.M. NAD 83	TVD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Reference Site:	Section 25/36-26S-27E Chamaeleon BIN State Com 2H	MD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Chamaeleon BIN State Com #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	Stryker_EDM
Reference Design:	Original Hole	Offset TVD Reference:	Offset Datum

Reference	Original Hole		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.0usf	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Risk Settings	
Vertical Depth for Analysis:	usft (Below TVD Reference Datum)
Level of Acceptable Risk (1 in):	
Minimum Separation:	0 usft

Survey Program	Date 9/17/2014			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	260.0	MS Gyro Survey (Original Hole)	Gyro	Gyro
260.0	14,596.0	Stryker MWD (Original Hole)	MWD	MWD v3:standard declination

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Section 24-26S-27E Cassiopeia						
Cassiopeia BQD State Com #2H - Wellbore #1 - Wellbor	594.2	593.2	14.7	14.2	27.371 CC, ES	
Cassiopeia BQD State Com #2H - Wellbore #1 - Wellbor	6,546.0	6,548.2	93.9	80.9	7.224 SF	

Offset Design	Section 24-26S-27E Cassiopeia - Cassiopeia BQD State Com #2H - Wellbore #1 - Wellbore #1											Offset Site Error:	0.0usft
Survey Program:	100-Reference											Offset Well Error:	0.0usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-0.63	19.9				0		
100.0	100.0	99.1	99.1	0.0	0.0	151.09	20.0	20.0	0.0	10,000.000	0		
200.0	200.0	199.2	199.2	0.0	0.0	133.41	19.8	19.8	0.0	10,000.000	0		
260.0	260.0	259.3	259.3	0.0	0.0	20.87	19.2	19.2	0.0	10,000.000	0		
453.0	453.0	452.2	452.2	0.2	0.0	77.32	16.2	16.0	0.2	74.443	0		
539.0	539.0	538.2	538.1	0.4	0.0	79.65	15.1	14.7	0.4	36.666	0		
594.2	594.2	593.2	593.2	0.5	0.0	94.20	14.7	14.2	0.5	27.371	0		CC, ES
629.0	629.0	627.9	627.8	0.6	0.0	105.95	14.9	14.3	0.6	24.251	0		
717.0	717.0	715.3	715.0	0.8	0.0	128.13	18.3	17.5	0.8	22.480	0		
803.0	802.9	800.7	800.2	1.0	0.0	138.38	25.1	24.1	1.0	24.941	0		
888.0	887.9	885.4	884.6	1.2	0.0	144.11	32.7	31.5	1.2	27.302	0		
978.0	977.8	974.2	973.1	1.4	0.0	139.17	42.9	41.5	1.4	30.555	0		
1,072.0	1,071.6	1,066.4	1,064.9	1.6	0.0	134.87	55.9	54.3	1.6	34.571	0		
1,166.0	1,165.5	1,160.7	1,158.8	1.9	0.0	127.52	67.3	65.5	1.8	36.828	0		
1,261.0	1,260.5	1,255.9	1,253.6	2.1	0.0	-147.92	76.6	74.6	2.0	37.682	0		
1,355.0	1,354.5	1,350.3	1,347.8	2.3	0.0	-157.98	85.4	83.2	2.2	38.247	0		
1,449.0	1,448.5	1,443.3	1,440.6	2.5	0.0	-151.20	94.3	91.9	2.4	38.730	0		
1,543.0	1,542.4	1,536.1	1,533.1	2.7	0.0	-112.73	103.1	100.5	2.6	39.230	0		

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

Stryker Directional Anticollision Risk Report

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Project:	Eddy County , N.M. NAD 83	TVD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Reference Site:	Section 25/36-26S-27E Chamaeleon BIN State Com 2H	MD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Chamaeleon BIN State Com #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	Stryker_EDM
Reference Design:	Original Hole	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Section 24-26S-27E Cassiopeia - Cassiopeia BQD State Com #2H - Wellbore #1 - Wellbore #1													Offset Well Error:	0.0 usft
Survey Program: 100-														
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Riskd Separation Factor	Probability of Collision	Warning	
1,637.0	1,636.4	1,630.5	1,627.2	2.8	0.0	-46.50	110.0	107.2	2.8	39.224	0			
1,727.0	1,726.4	1,720.2	1,716.7	3.0	0.0	-35.85	114.6	111.6	3.0	38.644	0			
1,821.0	1,820.3	1,817.3	1,813.6	3.2	0.0	-32.10	117.1	114.0	3.1	37.331	0			
1,915.0	1,914.1	1,910.7	1,906.9	3.3	0.0	-25.20	117.2	113.8	3.3	35.410	0			
2,009.0	2,007.8	2,006.9	2,002.9	3.5	0.0	-21.45	114.6	111.1	3.5	32.866	0			
2,104.0	2,102.5	2,103.2	2,099.2	3.7	0.0	-15.89	109.9	106.3	3.7	29.930	0			
2,198.0	2,196.4	2,197.4	2,193.3	3.9	0.0	-13.12	106.7	102.9	3.9	27.583	0			
2,292.0	2,290.3	2,292.0	2,287.9	4.1	0.0	-6.46	105.7	101.6	4.1	26.017	0			
2,393.0	2,391.3	2,393.3	2,389.1	4.3	0.0	7.56	105.0	100.8	4.3	24.597	0			
2,493.0	2,491.3	2,493.7	2,489.5	4.5	0.0	-8.64	104.3	99.8	4.5	23.283	0			
2,591.0	2,589.3	2,591.7	2,587.5	4.7	0.0	-12.02	103.6	98.9	4.7	22.116	0			
2,686.0	2,684.3	2,686.4	2,682.2	4.9	0.0	-0.54	103.0	98.1	4.9	21.088	0			
2,780.0	2,778.3	2,780.7	2,776.5	5.1	0.0	1.77	102.2	97.2	5.1	20.122	0			
2,874.0	2,872.3	2,874.9	2,870.7	5.3	0.0	4.34	101.2	95.9	5.3	19.166	0			
2,969.0	2,967.2	2,970.1	2,965.9	5.5	0.0	-8.68	99.8	94.3	5.5	18.202	0			
3,063.0	3,061.2	3,064.3	3,060.1	5.7	0.0	-3.63	98.3	92.6	5.7	17.284	0			
3,157.0	3,155.2	3,158.4	3,154.2	5.9	0.0	-4.83	96.9	91.0	5.9	16.452	0			
3,345.0	3,343.2	3,346.5	3,342.3	6.3	0.0	19.53	94.6	88.3	6.3	15.031	0			
3,535.0	3,533.2	3,536.4	3,532.2	6.7	0.0	36.17	93.1	86.3	6.7	13.878	0			
3,723.0	3,721.2	3,724.7	3,720.5	7.1	0.0	50.74	91.9	84.8	7.1	12.923	0			
3,911.0	3,909.2	3,913.1	3,908.9	7.5	0.0	133.85	90.6	83.1	7.5	12.077	0			
4,099.0	4,097.2	4,101.1	4,096.9	7.9	0.0	145.40	90.0	82.1	7.9	11.414	0			
4,287.0	4,285.2	4,289.1	4,284.8	8.3	0.0	171.47	89.9	81.6	8.3	10.872	0			
4,293.0	4,291.2	4,295.0	4,290.8	8.3	0.0	172.79	89.9	81.6	8.3	10.856	0			
4,476.0	4,474.2	4,478.2	4,474.0	8.7	0.0	-169.03	90.6	82.0	8.7	10.471	0			
4,664.0	4,662.1	4,666.3	4,662.1	9.1	0.0	-164.53	92.1	83.0	9.0	10.188	0			
4,852.0	4,850.1	4,854.3	4,850.0	9.4	0.0	-171.37	94.1	84.7	9.4	9.992	0			
5,040.0	5,038.0	5,042.5	5,038.2	9.8	0.0	-170.10	96.8	87.0	9.8	9.871	0			
5,229.0	5,227.0	5,231.2	5,226.9	10.2	0.0	-169.06	99.9	89.7	10.2	9.786	0			
5,417.0	5,414.9	5,419.1	5,414.8	10.6	0.0	162.01	103.2	92.6	10.6	9.735	0			
5,605.0	5,602.9	5,607.5	5,603.1	11.0	0.0	104.12	103.3	92.3	11.0	9.385	0			
5,793.0	5,790.9	5,795.9	5,791.5	11.4	0.0	-117.64	101.0	89.6	11.4	8.864	0			
5,982.0	5,979.9	5,985.6	5,981.2	11.8	0.0	-132.24	98.1	86.3	11.8	8.316	0			
6,170.0	6,167.9	6,173.8	6,169.3	12.2	0.0	-145.95	94.9	82.7	12.2	7.784	0			
6,358.0	6,355.8	6,361.7	6,357.1	12.6	0.0	-171.47	93.6	81.0	12.6	7.436	0			
6,458.1	6,456.9	6,462.4	6,457.8	12.8	0.0	179.84	93.4	80.6	12.8	7.293	0			
6,546.0	6,543.8	6,548.2	6,543.6	13.0	0.0	171.04	93.9	80.9	13.0	7.224	0		SF	
6,735.0	6,732.7	6,732.8	6,728.1	13.4	0.0	173.84	100.0	86.6	13.4	7.466	0			
6,923.0	6,920.7	6,911.8	6,905.7	13.8	0.0	-162.98	117.5	103.7	13.8	8.510	0			
7,111.0	7,108.6	7,099.8	7,090.3	14.2	0.0	-166.03	145.8	131.6	14.2	10.262	0			
7,143.0	7,140.5	7,132.6	7,122.6	14.3	0.0	-164.59	150.4	136.1	14.3	10.535	0			
7,174.0	7,171.5	7,164.3	7,153.9	14.4	0.0	-166.06	154.7	140.4	14.3	10.789	0			
7,205.0	7,202.5	7,194.0	7,183.3	14.5	0.0	-138.31	159.4	145.0	14.4	11.071	0			
7,236.0	7,233.3	7,223.8	7,212.8	14.5	0.0	-133.66	165.3	150.9	14.4	11.461	0			
7,268.0	7,264.8	7,252.2	7,240.9	14.6	0.0	-136.78	173.3	158.8	14.4	12.007	0			
7,299.0	7,295.0	7,280.6	7,269.0	14.7	0.0	-140.39	182.6	168.1	14.4	12.657	0			
7,331.0	7,325.9	7,310.1	7,298.1	14.7	0.0	-139.66	193.3	178.9	14.4	13.406	0			
7,362.0	7,355.5	7,333.8	7,321.5	14.8	0.0	-140.30	205.1	190.8	14.4	14.265	0			
7,394.0	7,385.4	7,350.0	7,337.4	14.9	0.0	-139.81	219.5	205.1	14.3	15.298	0			
7,425.0	7,413.8	7,370.4	7,357.4	15.0	0.0	-141.09	235.7	221.5	14.2	16.562	0			
7,456.0	7,441.4	7,381.0	7,367.6	15.0	0.0	-143.52	254.6	240.5	14.1	18.102	0			
7,488.0	7,489.1	7,401.4	7,387.2	15.1	0.0	-145.36	276.1	262.1	14.0	19.785	0			
7,519.0	7,495.4	7,413.0	7,398.3	15.2	0.0	-148.05	298.4	284.6	13.8	21.598	0			

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

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Reference Well:	Chamaeleon BIN State Com #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	Stryker_EDM
Reference Design:	Original Hole	Offset TVD Reference:	Offset Datum

Section 24-26S-27E Cassiopeia - Cassiopeia BQD State Com #2H - Wellbore #1 - Wellbore #1													Offset Site Error: 0.0 usft
Offset Design													Offset Well Error: 0.0 usft
Survey Program: 100-													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning
7,551.0	7,521.6	7,430.7	7,415.1	15.3	0.0	-151.99	323.1	309.6	13.5	23.949	0		
7,582.0	7,546.0	7,444.0	7,427.6	15.5	0.0	-151.52	348.6	335.3	13.3	26.256	0		
7,614.0	7,569.6	7,452.5	7,435.6	15.6	0.0	-146.76	376.2	363.0	13.2	28.502	0		
7,645.0	7,590.8	7,459.4	7,442.0	15.7	0.0	-142.75	404.2	390.9	13.2	30.526	0		
7,676.0	7,610.6	7,464.9	7,447.1	15.9	0.0	-139.30	433.0	419.6	13.4	32.325	0		
7,708.0	7,629.8	7,476.0	7,457.4	16.1	0.0	-137.28	463.3	449.8	13.5	34.214	0		
7,739.0	7,647.5	7,476.0	7,457.4	16.3	0.0	-130.93	493.0	478.8	14.1	34.851	0		
7,771.0	7,664.8	7,476.0	7,457.4	16.5	0.0	-121.97	523.9	508.6	15.0	34.906	0		
7,802.0	7,680.1	7,476.0	7,457.4	16.7	0.0	-110.17	554.1	538.1	16.0	34.566	0		
7,833.0	7,694.1	7,476.0	7,457.4	16.9	0.0	-97.54	584.5	567.7	16.8	34.771	0		
7,868.0	7,708.5	7,476.0	7,457.4	17.2	0.0	-83.69	619.0	601.9	17.1	36.163	0		
7,899.0	7,720.3	7,476.0	7,457.4	17.5	0.0	-75.79	649.5	632.4	17.1	38.029	0		
7,931.0	7,731.6	7,476.0	7,457.4	17.7	0.0	-66.17	681.0	664.3	16.7	40.871	0		
7,962.0	7,741.8	7,476.0	7,457.4	18.0	0.0	-54.22	711.6	696.0	15.6	45.659	0		
7,994.0	7,751.2	7,476.0	7,457.4	18.3	0.0	-40.35	743.1	729.4	13.7	54.171	0		
8,025.0	7,758.9	7,476.0	7,457.4	18.7	0.0	-31.12	773.6	761.3	12.2	63.174	0		
8,056.0	7,765.0	7,476.0	7,457.4	19.0	0.0	-25.60	803.8	792.5	11.3	70.970	0		
8,088.0	7,769.6	7,476.0	7,457.4	19.3	0.0	-22.12	834.7	823.9	10.7	77.652	0		
8,119.0	7,772.3	7,476.0	7,457.4	19.7	0.0	-19.40	864.2	853.9	10.3	83.835	0		
8,142.0	7,773.2	7,463.8	7,446.1	20.0	0.0	-14.56	885.6	876.0	9.6	92.256	0		
8,173.0	7,773.2	7,459.9	7,442.4	20.3	0.0	-13.67	914.3	904.8	9.6	95.601	0		
8,205.0	7,772.7	7,455.7	7,438.6	20.7	0.0	-13.23	943.9	934.3	9.6	97.966	0		
8,236.0	7,771.9	7,444.0	7,427.6	21.1	0.0	-12.51	972.7	963.0	9.7	100.627	0		
8,267.0	7,771.1	7,444.0	7,427.6	21.5	0.0	-12.11	1,001.3	991.5	9.7	102.721	0		
8,299.0	7,769.9	7,444.0	7,427.6	21.9	0.0	-11.38	1,030.9	1,021.1	9.8	105.320	0		
8,330.0	7,768.7	7,444.0	7,427.6	22.3	0.0	-11.28	1,059.7	1,049.8	9.9	106.794	0		
8,362.0	7,767.5	7,433.3	7,417.5	22.7	0.0	-9.89	1,089.5	1,079.6	9.9	110.194	0		
8,455.0	7,765.0	7,413.0	7,398.3	24.0	0.0	-10.73	1,176.8	1,166.4	10.5	112.220	0		
8,550.0	7,764.4	7,413.0	7,398.3	25.4	0.0	-13.87	1,267.1	1,255.5	11.6	109.684	0		
8,644.0	7,764.3	7,398.0	7,384.0	26.8	0.0	-14.94	1,356.9	1,344.5	12.3	109.987	0		
8,738.0	7,764.7	7,381.0	7,367.6	28.3	0.0	-14.00	1,447.2	1,434.4	12.7	113.511	0		
8,833.0	7,764.4	7,381.0	7,367.6	29.8	0.0	-13.27	1,538.5	1,525.3	13.2	116.755	0		
8,927.0	7,764.2	7,381.0	7,367.6	31.3	0.0	-14.05	1,629.3	1,615.3	14.0	116.246	0		
9,021.0	7,764.5	7,381.0	7,367.6	32.8	0.0	-15.76	1,720.5	1,705.4	15.1	113.921	0		
9,115.0	7,765.1	7,367.3	7,354.4	34.4	0.0	-18.19	1,811.8	1,795.2	16.5	109.513	0		
9,209.0	7,767.0	7,363.6	7,350.8	35.9	0.0	-15.42	1,903.6	1,887.2	16.4	115.885	0		
9,303.0	7,768.6	7,350.0	7,337.4	37.5	0.0	-14.96	1,995.8	1,978.8	17.0	117.640	0		
9,397.0	7,770.1	7,350.0	7,337.4	39.1	0.0	-11.10	2,087.9	2,071.3	16.6	126.031	0		
9,491.0	7,772.8	7,350.0	7,337.4	40.8	0.0	-1.59	2,180.4	2,164.7	15.7	138.978	0		
9,585.0	7,775.3	7,350.0	7,337.4	42.4	0.0	-0.90	2,273.0	2,256.8	16.3	139.838	0		
9,680.0	7,776.1	7,350.0	7,337.4	44.0	0.0	-0.79	2,366.5	2,349.6	16.8	140.493	0		
9,774.0	7,775.4	7,350.0	7,337.4	45.7	0.0	-2.81	2,458.8	2,441.2	17.6	139.959	0		
9,868.0	7,773.6	7,350.0	7,337.4	47.3	0.0	-3.06	2,551.0	2,532.8	18.2	140.188	0		
9,963.0	7,771.5	7,335.5	7,323.2	49.0	0.0	-2.60	2,644.1	2,625.3	18.8	140.586	0		
10,063.0	7,773.6	7,332.4	7,320.1	50.7	0.0	-9.42	2,743.0	2,722.1	20.9	131.240	0		
10,157.0	7,776.6	7,319.0	7,306.9	52.4	0.0	-5.76	2,836.3	2,815.6	20.6	137.568	0		
10,251.0	7,776.3	7,319.0	7,306.9	54.1	0.0	-6.63	2,928.9	2,907.5	21.4	136.626	0		
10,345.0	7,775.2	7,319.0	7,306.9	55.8	0.0	-12.80	3,021.6	2,997.4	24.2	125.038	0		
10,439.0	7,776.0	7,319.0	7,306.9	57.5	0.0	-10.66	3,114.5	3,090.5	24.1	129.358	0		
10,533.0	7,777.3	7,317.7	7,305.6	59.1	0.0	-9.79	3,207.6	3,183.2	24.4	131.212	0		
10,627.0	7,778.1	7,301.4	7,289.5	60.8	0.0	-10.70	3,300.7	3,275.2	25.5	129.407	0		
10,721.0	7,779.5	7,285.6	7,273.8	62.5	0.0	-4.88	3,393.8	3,369.4	24.4	138.938	0		
10,816.0	7,782.3	7,270.1	7,258.5	64.2	0.0	-7.49	3,488.1	3,462.3	25.8	135.211	0		

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

Stryker Directional Anticollision Risk Report

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well Chamaeleon BIN State Com #2H
Project:	Eddy County, N.M. NAD 83	TVD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Reference Site:	Section 25/36-26S-27E Chamaeleon BIN State Com 2H	MD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Chamaeleon BIN State Com #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	Stryker_EDM
Reference Design:	Original Hole	Offset TVD Reference:	Offset Datum

Section 24-26S-27E Cassiopeia - Cassiopeia BQD State Com #2H - Wellbore #1 - Wellbore #1														Offset Site Error: 0.0usft
Survey Program: 100-														Offset Well Error: 0.0usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Risked Separation Factor	Probability of Collision	Warning
10,910.0	7,784.7	7,256.0	7,244.6	66.0	0.0	-7.69	3,581.4	3,554.9	26.5	135.003	0			
11,004.0	7,784.7	7,245.0	7,233.7	67.7	0.0	-7.16	3,674.3	3,647.3	27.0	135.956	0			
11,098.0	7,784.3	7,234.8	7,223.6	69.4	0.0	-6.95	3,767.2	3,739.5	27.7	136.181	0			
11,192.0	7,785.6	7,226.0	7,214.9	71.1	0.0	-8.18	3,860.3	3,831.5	28.8	134.055	0			
11,286.0	7,786.8	7,217.1	7,206.2	72.8	0.0	-6.57	3,953.4	3,924.5	28.9	136.721	0			
11,380.0	7,787.1	7,207.9	7,197.0	74.5	0.0	-4.13	4,046.5	4,017.5	29.0	139.652	0			
11,474.0	7,787.0	7,030.3	7,022.0	76.2	0.0	-2.56	4,139.1	4,109.8	29.4	141.001	0			
11,569.0	7,786.1	6,987.5	6,979.9	77.9	0.0	1.91	4,232.3	4,202.3	30.0	141.278	0			
11,663.0	7,786.0	6,917.7	6,911.5	79.6	0.0	3.74	4,324.4	4,293.5	30.9	139.896	0			
11,757.0	7,787.4	6,911.0	6,904.9	81.4	0.0	0.84	4,416.7	4,385.5	31.3	141.328	0			
11,851.0	7,789.9	6,895.7	6,889.9	83.1	0.0	-10.24	4,509.3	4,474.6	34.7	129.893	0			
11,945.0	7,791.1	6,880.0	6,874.5	84.8	0.0	-8.78	4,601.6	4,566.9	34.7	132.685	0			
12,039.0	7,790.8	6,880.0	6,874.5	86.5	0.0	-6.60	4,693.7	4,659.2	34.5	136.199	0			
12,134.0	7,791.3	6,880.0	6,874.5	88.3	0.0	-4.18	4,786.9	4,752.5	34.4	139.009	0			
12,228.0	7,793.4	6,880.0	6,874.5	90.0	0.0	-6.24	4,879.6	4,843.8	35.8	136.433	0			
12,322.0	7,795.1	6,880.0	6,874.5	91.7	0.0	-3.36	4,972.2	4,936.6	35.6	139.655	0			
12,416.0	7,796.6	6,880.0	6,874.5	93.5	0.0	-10.51	5,064.9	5,025.6	39.3	129.004	0			
12,510.0	7,797.7	6,880.0	6,874.5	95.2	0.0	-9.91	5,157.5	5,117.9	39.6	130.248	0			
12,605.0	7,796.9	6,880.0	6,874.5	97.0	0.0	-10.38	5,250.8	5,210.2	40.6	129.344	0			
12,700.0	7,796.8	6,880.0	6,874.5	98.7	0.0	-15.44	5,344.2	5,299.2	45.1	118.549	0			
12,794.0	7,796.9	6,880.0	6,874.5	100.5	0.0	-6.78	5,436.8	5,396.7	40.1	135.427	0			
12,888.0	7,796.9	6,880.0	6,874.5	102.2	0.0	-3.99	5,529.5	5,489.6	39.9	138.687	0			
12,982.0	7,797.8	6,880.0	6,874.5	103.9	0.0	-1.37	5,622.3	5,582.3	40.1	140.347	0			
13,076.0	7,797.3	6,880.0	6,874.5	105.6	0.0	0.99	5,715.0	5,674.3	40.7	140.548	0			
13,171.0	7,795.4	6,880.0	6,874.5	107.4	0.0	3.75	5,808.4	5,768.6	41.8	138.952	0			
13,265.0	7,794.4	6,880.0	6,874.5	109.1	0.0	-2.04	5,901.1	5,858.9	42.2	139.921	0			
13,359.0	7,795.9	6,880.0	6,874.5	110.9	0.0	-6.77	5,994.2	5,949.8	44.4	134.976	0			
13,454.0	7,798.9	6,880.0	6,874.5	112.6	0.0	-11.95	6,088.5	6,040.0	48.5	125.557	0			
13,548.0	7,801.9	6,880.0	6,874.5	114.4	0.0	-13.89	6,181.8	6,130.9	50.9	121.460	0			
13,642.0	7,804.3	6,880.0	6,874.5	116.1	0.0	-8.78	6,275.0	6,227.3	47.7	131.603	0			
13,736.0	7,805.7	6,880.0	6,874.5	117.8	0.0	-2.47	6,368.2	6,322.5	45.7	139.405	0			
13,829.0	7,805.1	6,880.0	6,874.5	119.6	0.0	-5.60	6,460.1	6,412.8	47.3	136.541	0			
13,923.0	7,802.5	6,880.0	6,874.5	121.3	0.0	-6.27	6,552.7	6,504.4	48.3	135.702	0			
14,018.0	7,800.1	6,880.0	6,874.5	123.1	0.0	-8.90	6,646.4	6,595.8	50.6	131.369	0			
14,112.0	7,797.8	6,850.1	6,845.1	124.8	0.0	-8.92	6,738.2	6,686.9	51.3	131.403	0			
14,206.0	7,795.4	6,849.0	6,843.9	126.6	0.0	-10.99	6,830.9	6,777.2	53.6	127.374	0			
14,300.0	7,793.1	6,847.8	6,842.8	128.3	0.0	-10.67	6,923.6	6,869.5	54.1	128.062	0			
14,394.0	7,791.2	6,846.8	6,841.8	130.0	0.0	-8.29	7,016.4	6,963.3	53.1	132.181	0			
14,488.0	7,789.6	6,817.0	6,812.2	131.8	0.0	-10.86	7,110.1	7,054.4	55.7	127.572	0			
14,551.0	7,787.8	6,817.0	6,812.2	133.0	0.0	-14.08	7,172.2	7,112.9	59.3	121.046	0			
14,596.0	7,786.2	6,817.0	6,812.2	133.8	0.0	-14.08	7,216.5	7,156.9	59.6	121.025	0			

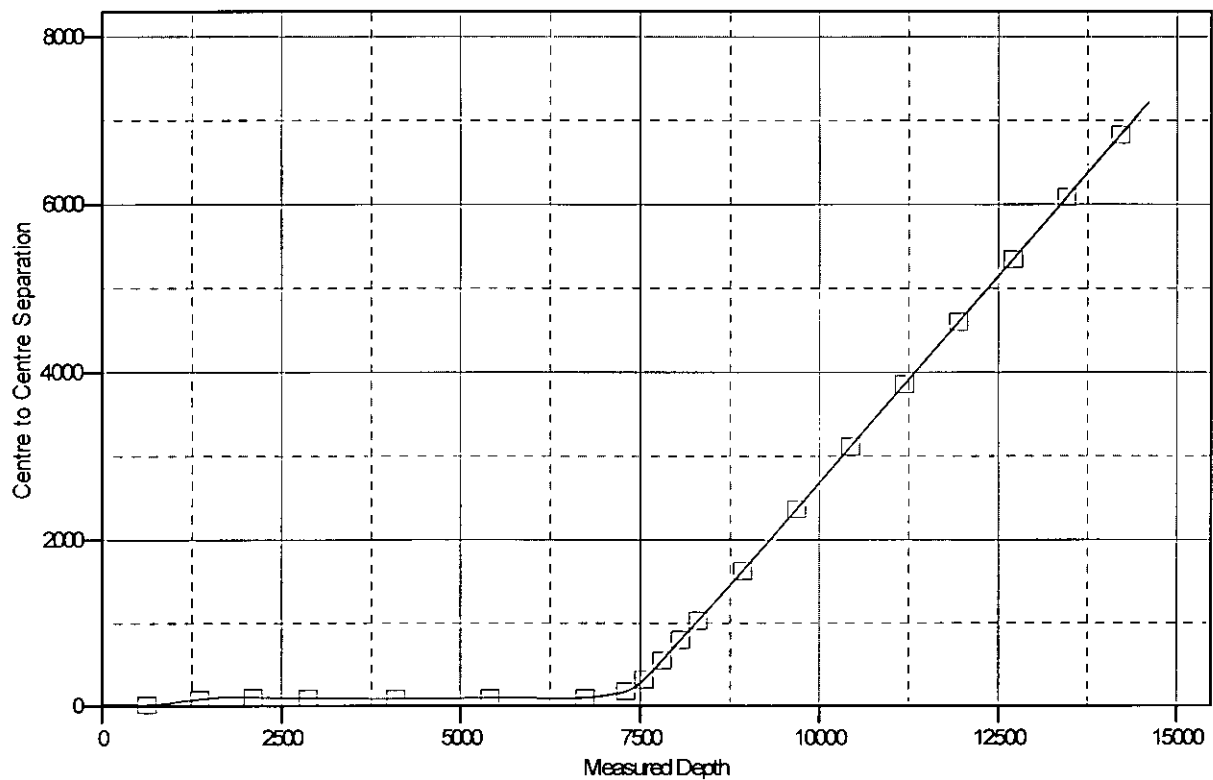
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Stryker Directional Anticollision Risk Report

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well Chamaeleon BIN State Com #2H
Project:	Eddy County , N.M. NAD 83	TVD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Reference Site:	Section 25/36-26S-27E Chamaeleon BIN State Com 2H	MD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Chamaeleon BIN State Com #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore:	Original Hole	Database:	Stryker_EDM
Reference Design:	Original Hole	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3110 + 18.5 @ 3128.5usft (McVay #8) Coordinates are relative to: Chamaeleon BIN State Com #2H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is 104° 20' 0.000 W ° Grid Convergence at Surface is: 0.10°

Ladder Plot



LEGEND

State Com #2H, Wellbore #1, Wellbore #1 VO

Stryker Directional Anticollision Risk Report

Company:	Yates Petroleum	Local Co-ordinate Reference:	Well Chamaeleon BIN State Com #2H
Project:	Eddy County , N.M. NAD 83	TVD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Reference Site:	Section 25/36-26S-27E Chamaeleon BIN State Com 2H	MD Reference:	3110 + 18.5 @ 3128.5usft (McVay #8)
Site Error:	0.0	North Reference:	Grid
Reference Well:	Chamaeleon BIN State Com #2H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0	Output errors are at	2.00 sigma
Reference Wellbore	Original Hole	Database:	Stryker_EDM
Reference Design:	Original Hole	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3110 + 18.5 @ 3128.5usft (McVay #8) Coordinates are relative to: Chamaeleon BIN State Com #2H
Offset Depths are relative to Offset Datum Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is 104° 20' 0.000 W° Grid Convergence at Surface is: 0.10°

