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Matador Resources

Eddy County, NM (NAD27)
Stebbins Federal 19
#227H

OH
Prelim D

Anticollision Report

14 March, 2019

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #137H - OH - Prelim C													Offset Site Error: 3.30 usft
Survey Program: 0-MWD+HOGM													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,200.00	5,171.01	5,367.09	5,334.42	18.93	20.00	18.31	-1,670.78	326.78	1,303.50	1,266.29	37.21	35.030	
5,300.00	5,270.00	5,463.58	5,430.07	19.33	20.38	18.38	-1,658.08	328.10	1,277.30	1,239.37	37.93	33.678	
5,400.00	5,368.98	5,560.07	5,525.71	19.73	20.76	18.45	-1,645.38	329.43	1,251.09	1,212.45	38.64	32.375	
5,500.00	5,467.97	5,656.57	5,621.35	20.13	21.14	18.53	-1,632.68	330.75	1,224.89	1,185.53	39.36	31.120	
5,600.00	5,566.95	5,753.06	5,717.00	20.53	21.52	18.61	-1,619.98	332.07	1,198.69	1,158.61	40.08	29.910	
5,700.00	5,665.94	5,849.55	5,812.64	20.94	21.90	18.70	-1,607.28	333.39	1,172.49	1,131.70	40.79	28.741	
5,800.00	5,764.92	5,946.04	5,908.28	21.34	22.28	18.79	-1,594.57	334.72	1,146.30	1,104.79	41.51	27.613	
5,900.00	5,863.91	6,042.54	6,003.93	21.74	22.67	18.88	-1,581.87	336.04	1,120.11	1,077.87	42.23	26.523	
6,000.00	5,962.89	6,139.03	6,099.57	22.14	23.05	18.98	-1,569.17	337.36	1,093.92	1,050.97	42.95	25.470	
6,100.00	6,061.88	6,235.52	6,195.22	22.54	23.43	19.08	-1,556.47	338.69	1,067.73	1,024.06	43.67	24.451	
6,200.00	6,160.86	6,332.01	6,290.86	22.95	23.81	19.19	-1,543.77	340.01	1,041.55	997.16	44.39	23.464	
6,300.00	6,259.85	6,428.51	6,386.50	23.35	24.19	19.31	-1,531.07	341.33	1,015.37	970.26	45.11	22.510	
6,400.00	6,358.83	6,525.00	6,482.15	23.76	24.57	19.43	-1,518.36	342.65	989.19	943.37	45.83	21.585	
6,500.00	6,457.82	6,621.49	6,577.79	24.16	24.95	19.55	-1,505.66	343.98	963.02	916.47	46.55	20.688	
6,600.00	6,556.80	6,717.98	6,673.43	24.56	25.33	19.68	-1,492.96	345.30	936.86	889.59	47.27	19.819	
6,700.00	6,655.79	6,814.48	6,769.08	24.97	25.71	19.83	-1,480.26	346.62	910.70	862.70	47.99	18.976	
6,800.00	6,754.77	6,910.97	6,864.72	25.37	26.09	19.97	-1,467.56	347.95	884.54	835.83	48.71	18.158	
6,900.00	6,853.76	7,007.46	6,960.36	25.78	26.48	20.13	-1,454.86	349.27	858.39	808.95	49.44	17.364	
7,000.00	6,952.74	7,103.95	7,056.01	26.18	26.86	20.30	-1,442.15	350.59	832.25	782.09	50.16	16.592	
7,100.00	7,051.73	7,200.45	7,151.65	26.59	27.24	20.48	-1,429.45	351.91	806.11	755.23	50.88	15.843	
7,200.00	7,150.71	7,296.94	7,247.30	26.99	27.62	20.67	-1,416.75	353.24	779.98	728.38	51.61	15.114	
7,300.00	7,249.70	7,406.57	7,342.94	27.40	28.05	20.87	-1,404.05	354.56	753.86	701.48	52.38	14.393	
7,400.00	7,348.68	7,489.92	7,438.58	27.81	28.38	21.09	-1,391.35	355.88	727.75	674.70	53.05	13.717	
7,500.00	7,447.67	7,586.42	7,534.23	28.21	28.76	21.33	-1,378.64	357.21	701.65	647.87	53.78	13.047	
7,600.00	7,546.65	7,682.91	7,629.87	28.62	29.15	21.58	-1,365.94	358.53	675.56	621.06	54.51	12.394	
7,700.00	7,645.64	7,779.40	7,725.51	29.02	29.53	21.86	-1,353.24	359.85	649.49	594.26	55.23	11.759	
7,800.00	7,744.62	7,865.77	7,811.17	29.43	29.87	22.13	-1,342.25	360.99	623.89	567.89	56.00	11.140	
7,900.00	7,843.61	7,946.03	7,891.01	29.84	30.17	22.42	-1,334.10	361.84	600.76	543.98	56.79	10.579	
8,000.00	7,942.61	8,027.29	7,972.04	30.24	30.47	22.75	-1,328.12	362.47	580.50	522.96	57.54	10.088	
8,100.00	8,041.80	8,109.59	8,054.26	30.64	30.76	23.04	-1,324.39	362.86	564.34	506.08	58.26	9.686	
8,200.00	8,141.20	8,192.75	8,137.40	31.03	31.04	23.35	-1,323.01	363.00	552.63	493.69	58.94	9.376	
8,300.00	8,240.78	8,398.30	8,338.95	31.41	31.78	27.17	-1,303.32	334.89	534.86	475.56	59.30	9.020	
8,400.00	8,340.50	8,562.67	8,483.39	31.78	32.42	35.55	-1,258.99	271.58	503.33	443.88	59.45	8.466	
8,500.00	8,440.33	8,663.13	8,558.69	32.15	32.85	43.43	-1,221.06	217.20	469.82	408.76	61.06	7.694	
8,600.00	8,540.25	8,710.74	8,590.69	32.50	33.05	47.84	-1,202.71	187.13	447.49	384.36	63.13	7.089	
8,680.81	8,621.04	8,745.10	8,612.39	32.78	33.20	51.29	-1,190.27	163.57	441.47	377.41	64.06	6.891 CC, ES	
8,700.00	8,640.23	8,750.00	8,615.38	32.84	33.22	51.80	-1,188.55	160.09	441.78	377.68	64.10	6.892	
8,800.00	8,740.22	8,789.96	8,638.80	33.16	33.39	-24.27	-1,175.13	130.64	453.79	390.15	63.64	7.131	
8,900.00	8,839.30	8,825.63	8,658.15	33.49	33.55	-20.01	-1,164.04	102.81	471.89	410.21	61.68	7.650	
9,000.00	8,934.70	8,861.29	8,675.97	33.81	33.71	-16.13	-1,153.83	73.66	489.74	431.17	58.56	8.362	
9,100.00	9,023.51	8,900.00	8,693.48	34.12	33.89	-12.37	-1,143.79	40.64	506.19	451.47	54.73	9.249	
9,200.00	9,103.04	8,933.64	8,707.11	34.41	34.05	-9.38	-1,135.99	10.89	520.28	470.15	50.13	10.379	
9,300.00	9,171.76	8,971.77	8,720.69	34.67	34.24	-10.15	-1,128.22	-23.88	532.84	487.26	45.58	11.690	
9,400.00	9,229.96	9,014.02	8,733.35	34.87	34.46	-10.91	-1,120.98	-63.51	546.49	504.90	41.58	13.142	
9,500.00	9,276.00	9,059.87	8,744.20	35.04	34.72	-10.78	-1,114.78	-107.62	559.17	520.71	38.46	14.538	
9,600.00	9,308.48	9,100.00	8,751.15	35.22	34.97	-10.60	-1,110.82	-146.93	569.14	532.96	36.18	15.730	
9,700.00	9,326.41	9,159.10	8,757.01	35.46	35.34	-10.09	-1,107.49	-205.62	574.70	539.26	35.44	16.217	
9,800.00	9,330.00	9,224.83	8,758.00	35.86	35.80	-10.02	-1,106.97	-271.32	575.80	540.20	35.59	16.177	
9,900.00	9,330.00	9,324.83	8,758.00	36.47	36.59	-10.02	-1,107.04	-371.32	575.80	539.64	36.15	15.926	
10,000.00	9,330.00	9,424.83	8,758.00	37.26	37.52	-10.02	-1,107.11	-471.32	575.79	539.00	36.79	15.651	
10,100.00	9,330.00	9,524.83	8,758.00	38.20	38.57	-10.02	-1,107.18	-571.32	575.79	538.30	37.50	15.356	
10,200.00	9,330.00	9,624.83	8,758.00	39.27	39.73	-10.02	-1,107.25	-671.32	575.79	537.52	38.27	15.045	

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

Pro Directional Anticollision Report

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Reference Site:	Stebbins Federal-19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #137H - OH - Prelim C													Offset Site Error:	3.30 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Reference (usft)	Offset (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor			
10,300.00	9,330.00	9,724.83	8,758.00	40.45	41.00	-10.02	-1,107.32	-771.32	575.79	536.69	39.11	14.724		
10,400.00	9,330.00	9,824.83	8,758.00	41.72	42.36	-10.02	-1,107.39	-871.32	575.79	535.79	40.00	14.395		
10,500.00	9,330.00	9,924.83	8,758.00	43.09	43.79	-10.02	-1,107.46	-971.32	575.79	534.84	40.95	14.061		
10,600.00	9,330.00	10,024.83	8,758.00	44.53	45.31	-10.02	-1,107.53	-1,071.32	575.79	533.84	41.95	13.726		
10,700.00	9,330.00	10,124.83	8,758.00	46.04	46.88	-10.02	-1,107.60	-1,171.32	575.79	532.79	43.00	13.391		
10,800.00	9,330.00	10,224.83	8,758.00	47.62	48.52	-10.02	-1,107.67	-1,271.32	575.79	531.70	44.09	13.060		
10,900.00	9,330.00	10,324.83	8,758.00	49.26	50.21	-10.02	-1,107.74	-1,371.32	575.78	530.57	45.22	12.733		
11,000.00	9,330.00	10,424.83	8,758.00	50.94	51.95	-10.02	-1,107.81	-1,471.32	575.78	529.39	46.39	12.412		
11,100.00	9,330.00	10,524.83	8,758.00	52.68	53.74	-10.02	-1,107.88	-1,571.32	575.78	528.19	47.59	12.098		
11,200.00	9,330.00	10,624.83	8,758.00	54.45	55.56	-10.02	-1,107.95	-1,671.32	575.78	526.95	48.83	11.792		
11,300.00	9,330.00	10,724.83	8,758.00	56.27	57.42	-10.02	-1,108.02	-1,771.32	575.78	525.68	50.10	11.494		
11,400.00	9,330.00	10,824.83	8,758.00	58.12	59.30	-10.02	-1,108.09	-1,871.32	575.78	524.39	51.39	11.204		
11,500.00	9,330.00	10,924.83	8,758.00	60.00	61.22	-10.02	-1,108.16	-1,971.32	575.78	523.07	52.71	10.924		
11,600.00	9,330.00	11,024.83	8,758.00	61.91	63.17	-10.02	-1,108.22	-2,071.32	575.78	521.73	54.05	10.652		
11,700.00	9,330.00	11,124.83	8,758.00	63.85	65.14	-10.01	-1,108.29	-2,171.32	575.78	520.36	55.42	10.390		
11,800.00	9,330.00	11,224.83	8,758.00	65.81	67.13	-10.01	-1,108.36	-2,271.32	575.78	518.97	56.80	10.136		
11,900.00	9,330.00	11,324.83	8,758.00	67.79	69.14	-10.01	-1,108.43	-2,371.32	575.77	517.57	58.21	9.892		
12,000.00	9,330.00	11,424.83	8,758.00	69.79	71.16	-10.01	-1,108.50	-2,471.32	575.77	516.15	59.63	9.656		
12,100.00	9,330.00	11,524.83	8,758.00	71.81	73.21	-10.01	-1,108.57	-2,571.32	575.77	514.71	61.07	9.429		
12,200.00	9,330.00	11,624.83	8,758.00	73.85	75.27	-10.01	-1,108.64	-2,671.32	575.77	513.25	62.52	9.210		
12,300.00	9,330.00	11,724.83	8,758.00	75.91	77.34	-10.01	-1,108.71	-2,771.32	575.77	511.78	63.99	8.998		
12,400.00	9,330.00	11,824.83	8,758.00	77.97	79.43	-10.01	-1,108.78	-2,871.32	575.77	510.30	65.47	8.795		
12,500.00	9,330.00	11,924.83	8,758.00	80.05	81.53	-10.01	-1,108.85	-2,971.32	575.77	508.81	66.96	8.599		
12,600.00	9,330.00	12,024.83	8,758.00	82.15	83.64	-10.01	-1,108.92	-3,071.32	575.77	507.30	68.46	8.410		
12,700.00	9,330.00	12,124.83	8,758.00	84.25	85.76	-10.01	-1,108.99	-3,171.32	575.77	505.79	69.98	8.228		
12,800.00	9,330.00	12,224.83	8,758.00	86.36	87.89	-10.01	-1,109.06	-3,271.32	575.76	504.26	71.50	8.052		
12,900.00	9,330.00	12,324.83	8,758.00	88.49	90.03	-10.01	-1,109.13	-3,371.32	575.76	502.73	73.04	7.883		
13,000.00	9,330.00	12,424.83	8,758.00	90.62	92.18	-10.01	-1,109.20	-3,471.32	575.76	501.18	74.58	7.720		
13,100.00	9,330.00	12,524.83	8,758.00	92.76	94.33	-10.01	-1,109.27	-3,571.32	575.76	499.63	76.13	7.563		
13,200.00	9,330.00	12,624.83	8,758.00	94.91	96.49	-10.01	-1,109.34	-3,671.32	575.76	498.07	77.69	7.411		
13,300.00	9,330.00	12,724.83	8,758.00	97.07	98.66	-10.01	-1,109.41	-3,771.32	575.76	496.50	79.25	7.265		
13,400.00	9,330.00	12,824.83	8,758.00	99.23	100.84	-10.01	-1,109.48	-3,871.32	575.76	494.93	80.83	7.123		
13,500.00	9,330.00	12,924.83	8,758.00	101.40	103.02	-10.01	-1,109.55	-3,971.32	575.76	493.35	82.41	6.987		
13,600.00	9,330.00	13,024.83	8,758.00	103.58	105.20	-10.00	-1,109.62	-4,071.32	575.76	491.76	83.99	6.855		
13,700.00	9,330.00	13,124.83	8,758.00	105.76	107.39	-10.00	-1,109.69	-4,171.32	575.76	490.17	85.59	6.727		
13,800.00	9,330.00	13,224.83	8,758.00	107.94	109.59	-10.00	-1,109.76	-4,271.32	575.75	488.57	87.18	6.604		
13,900.00	9,330.00	13,324.83	8,758.00	110.13	111.79	-10.00	-1,109.83	-4,371.32	575.75	486.97	88.78	6.485		
14,000.00	9,330.00	13,424.83	8,758.00	112.33	114.00	-10.00	-1,109.90	-4,471.32	575.75	485.36	90.39	6.370		
14,100.00	9,330.00	13,524.83	8,758.00	114.53	116.20	-10.00	-1,109.97	-4,571.32	575.75	483.75	92.00	6.258		
14,147.61	9,330.00	13,574.57	8,758.00	115.58	117.30	-10.00	-1,110.00	-4,618.93	575.75	482.96	92.79	6.205 SF		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #203H - OH - Prelim C													Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi-Major Axis		Reference		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Tooface (')	+N-S (usft)	+E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.00	0.00	1.00	1.00	0.00	0.00	180.00	-30.00	0.00	30.00					
100.00	100.00	101.00	101.00	0.13	0.13	180.00	-30.00	0.00	30.00	29.74	0.26	115.432		
200.00	200.00	201.00	201.00	0.49	0.49	180.00	-30.00	0.00	30.00	29.02	0.98	30.711		
300.00	300.00	301.00	301.00	0.85	0.85	180.00	-30.00	0.00	30.00	28.31	1.69	17.712		
400.00	400.00	401.00	401.00	1.20	1.21	180.00	-30.00	0.00	30.00	27.59	2.41	12.444		
500.00	500.00	501.00	501.00	1.56	1.57	180.00	-30.00	0.00	30.00	26.87	3.13	9.592		
600.00	600.00	601.00	601.00	1.92	1.92	180.00	-30.00	0.00	30.00	26.16	3.84	7.803		
700.00	700.00	701.00	701.00	2.28	2.28	180.00	-30.00	0.00	30.00	25.44	4.56	6.577		
800.00	800.00	801.00	801.00	2.64	2.64	180.00	-30.00	0.00	30.00	24.72	5.28	5.683		
900.00	900.00	901.00	901.00	3.00	3.00	180.00	-30.00	0.00	30.00	24.00	6.00	5.004		
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	180.00	-30.00	0.00	30.00	23.29	6.71	4.469		
1,100.00	1,100.00	1,101.00	1,101.00	3.71	3.72	180.00	-30.00	0.00	30.00	22.57	7.43	4.038		
1,200.00	1,200.00	1,201.00	1,201.00	4.07	4.07	180.00	-30.00	0.00	30.00	21.85	8.15	3.683		
1,300.00	1,300.00	1,301.00	1,301.00	4.43	4.43	180.00	-30.00	0.00	30.00	21.14	8.86	3.385		
1,400.00	1,400.00	1,401.00	1,401.00	4.79	4.79	180.00	-30.00	0.00	30.00	20.42	9.58	3.131		
1,500.00	1,500.00	1,501.00	1,501.00	5.15	5.15	180.00	-30.00	0.00	30.00	19.70	10.30	2.913 CC		
1,600.00	1,600.00	1,600.86	1,600.84	5.51	5.50	176.65	-30.17	1.77	30.22	19.22	11.00	2.747 ES		
1,700.00	1,700.00	1,700.47	1,700.31	5.86	5.84	167.18	-30.68	6.98	31.47	19.77	11.70	2.689 SF		
1,800.00	1,800.00	1,800.08	1,799.41	6.22	6.19	154.25	-31.47	15.18	34.98	22.58	12.40	2.822		
1,900.00	1,899.99	1,900.43	1,898.68	6.56	6.54	-12.17	-32.31	23.83	39.36	26.28	13.08	3.010		
2,000.00	1,999.96	2,000.73	1,998.00	6.89	6.89	-21.47	-33.15	32.48	43.24	29.50	13.74	3.147		
2,100.00	2,099.86	2,101.02	2,097.34	7.22	7.25	-30.11	-33.99	41.13	46.56	32.14	14.41	3.230		
2,200.00	2,199.68	2,201.32	2,196.66	7.55	7.61	-38.68	-34.83	49.78	49.41	34.32	15.09	3.275		
2,300.00	2,299.37	2,301.67	2,295.93	7.89	7.97	-47.54	-35.66	58.43	52.05	36.28	15.77	3.301		
2,400.00	2,398.90	2,402.09	2,395.13	8.23	8.33	-56.86	-36.50	67.07	54.85	38.39	16.46	3.332		
2,500.00	2,498.26	2,502.62	2,494.22	8.57	8.69	-66.62	-37.34	75.70	58.24	41.07	17.16	3.393		
2,600.00	2,597.40	2,603.28	2,593.18	8.93	9.06	-76.59	-38.17	84.32	62.70	44.82	17.88	3.507		
2,700.00	2,696.39	2,704.05	2,692.03	9.28	9.43	-85.99	-39.01	92.93	68.73	50.12	18.61	3.693		
2,800.00	2,795.38	2,795.18	2,790.88	9.64	9.76	-93.75	-39.84	101.54	76.31	57.00	19.31	3.951		
2,900.00	2,894.36	2,905.59	2,889.73	10.01	10.17	-100.02	-40.68	110.15	85.03	64.94	20.09	4.232		
3,000.00	2,893.35	3,006.37	2,988.58	10.37	10.54	-105.09	-41.51	118.76	94.58	73.74	20.83	4.540		
3,100.00	3,092.33	3,092.86	3,087.43	10.75	10.86	-109.21	-42.35	127.37	104.72	83.20	21.52	4.866		
3,200.00	3,191.32	3,207.91	3,186.28	11.12	11.28	-112.59	-43.18	135.98	115.31	92.99	22.32	5.167		
3,300.00	3,290.30	3,308.68	3,285.13	11.50	11.65	-115.39	-44.02	144.59	126.23	103.17	23.06	5.474		
3,400.00	3,389.29	3,409.45	3,383.98	11.88	12.03	-117.75	-44.85	153.20	137.40	113.60	23.80	5.772		
3,500.00	3,488.27	3,489.77	3,482.83	12.26	12.32	-119.74	-45.69	161.81	148.77	124.29	24.47	6.079		
3,600.00	3,587.26	3,589.00	3,581.68	12.64	12.69	-121.46	-46.52	170.42	160.29	135.07	25.21	6.358		
3,700.00	3,686.24	3,688.23	3,680.53	13.02	13.06	-122.94	-47.36	179.03	171.93	145.98	25.95	6.625		
3,800.00	3,785.23	3,787.46	3,779.38	13.41	13.43	-124.24	-48.19	187.64	183.67	156.98	26.69	6.881		
3,900.00	3,884.21	3,886.69	3,878.23	13.80	13.80	-125.38	-49.03	196.25	195.49	168.06	27.43	7.126		
4,000.00	3,983.20	3,985.91	3,977.08	14.19	14.17	-126.38	-49.86	204.86	207.38	179.21	28.17	7.361		
4,100.00	4,082.18	4,085.14	4,075.93	14.58	14.54	-127.28	-50.70	213.47	219.33	190.41	28.92	7.585		
4,200.00	4,181.17	4,184.37	4,174.79	14.97	14.91	-128.09	-51.53	222.08	231.33	201.67	29.66	7.799		
4,300.00	4,280.15	4,283.60	4,273.64	15.36	15.28	-128.82	-52.37	230.69	243.36	212.96	30.40	8.004		
4,400.00	4,379.14	4,382.83	4,372.49	15.76	15.65	-129.48	-53.20	239.30	255.43	224.28	31.15	8.200		
4,500.00	4,478.12	4,482.05	4,471.34	16.15	16.02	-130.07	-54.04	247.91	267.53	235.64	31.89	8.388		
4,600.00	4,577.11	4,581.28	4,570.19	16.55	16.39	-130.62	-54.87	256.52	279.66	247.02	32.64	8.568		
4,700.00	4,676.09	4,680.51	4,669.04	16.94	16.76	-131.12	-55.70	265.13	291.81	258.43	33.39	8.741		
4,800.00	4,775.08	4,779.74	4,767.89	17.34	17.13	-131.58	-56.54	273.73	303.98	269.85	34.13	8.906		
4,900.00	4,874.06	4,878.97	4,866.74	17.74	17.51	-132.01	-57.37	282.34	316.17	281.29	34.88	9.065		
5,000.00	4,973.04	4,978.19	4,965.59	18.13	17.88	-132.40	-58.21	290.95	328.38	292.75	35.63	9.217		
5,100.00	5,072.03	5,077.42	5,064.44	18.53	18.25	-132.77	-59.04	299.56	340.59	304.22	36.38	9.363		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #203H - OH - Prelim C													Offset Site Error:
Survey Program: 0-MWD+HDGM													3.30 usft
Reference													Offset Well Error:
Offset													0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,200.00	5,171.01	5,176.65	5,163.29	18.93	18.62	-133.11	-59.88	308.17	352.83	315.70	37.12	9.504	
5,300.00	5,270.00	5,275.88	5,262.14	19.33	18.99	-133.43	-60.71	316.78	365.07	327.20	37.87	9.639	
5,400.00	5,368.98	5,375.11	5,360.99	19.73	19.36	-133.73	-61.55	325.39	377.32	338.70	38.62	9.769	
5,500.00	5,467.97	5,474.33	5,459.84	20.13	19.74	-134.01	-62.38	334.00	389.59	350.21	39.37	9.895	
5,600.00	5,566.95	5,574.29	5,559.42	20.53	20.11	-134.29	-63.21	342.54	401.82	361.70	40.13	10.014	
5,700.00	5,665.94	5,675.40	5,660.27	20.94	20.48	-134.75	-63.91	349.75	413.70	372.82	40.88	10.119	
5,800.00	5,764.92	5,776.48	5,761.21	21.34	20.85	-135.42	-64.44	355.18	425.17	383.54	41.63	10.213	
5,900.00	5,863.91	5,877.47	5,862.13	21.74	21.22	-136.28	-64.79	358.83	436.29	393.92	42.36	10.298	
6,000.00	5,962.89	5,978.30	5,962.94	22.14	21.57	-137.32	-64.97	360.72	447.11	404.02	43.09	10.377	
6,100.00	6,061.88	6,078.24	6,062.88	22.54	21.91	-138.50	-65.00	361.00	457.77	413.97	43.79	10.453	
6,200.00	6,160.86	6,177.23	6,161.86	22.95	22.25	-139.65	-65.00	361.00	468.55	424.06	44.49	10.532	
6,300.00	6,259.85	6,276.21	6,260.85	23.35	22.59	-140.74	-65.00	361.00	479.52	434.33	45.18	10.613	
6,400.00	6,358.83	6,375.20	6,359.83	23.76	22.92	-141.79	-65.00	361.00	490.65	444.77	45.88	10.694	
6,500.00	6,457.82	6,474.18	6,458.82	24.16	23.26	-142.79	-65.00	361.00	501.93	455.36	46.57	10.777	
6,600.00	6,556.80	6,573.17	6,557.80	24.56	23.60	-143.74	-65.00	361.00	513.36	466.09	47.27	10.860	
6,700.00	6,655.79	6,672.15	6,656.79	24.97	23.94	-144.66	-65.00	361.00	524.93	476.97	47.97	10.944	
6,800.00	6,754.77	6,771.14	6,755.77	25.37	24.27	-145.53	-65.00	361.00	536.63	487.96	48.66	11.027	
6,900.00	6,853.76	6,870.12	6,854.76	25.78	24.61	-146.37	-65.00	361.00	548.44	499.08	49.36	11.111	
7,000.00	6,952.74	6,969.11	6,953.74	26.18	24.95	-147.17	-65.00	361.00	560.36	510.31	50.06	11.195	
7,100.00	7,051.73	7,068.09	7,052.73	26.59	25.29	-147.94	-65.00	361.00	572.39	521.64	50.76	11.278	
7,200.00	7,150.71	7,167.08	7,151.71	26.99	25.63	-148.68	-65.00	361.00	584.52	533.07	51.45	11.360	
7,300.00	7,249.70	7,266.06	7,250.70	27.40	25.98	-149.39	-65.00	361.00	596.74	544.59	52.15	11.442	
7,400.00	7,348.68	7,365.05	7,349.68	27.81	26.32	-150.07	-65.00	361.00	609.05	556.19	52.85	11.524	
7,500.00	7,447.67	7,464.03	7,448.67	28.21	26.66	-150.72	-65.00	361.00	621.43	567.88	53.55	11.604	
7,600.00	7,546.65	7,563.02	7,547.65	28.62	27.00	-151.35	-65.00	361.00	633.90	579.65	54.25	11.684	
7,700.00	7,645.64	7,662.00	7,646.64	29.02	27.34	-151.95	-65.00	361.00	646.43	591.48	54.95	11.763	
7,800.00	7,744.62	7,760.98	7,745.62	29.43	27.69	-152.53	-65.00	361.00	659.04	603.38	55.66	11.841	
7,900.00	7,843.61	7,859.97	7,844.61	29.84	28.03	-153.09	-65.00	361.00	671.71	615.35	56.36	11.919	
8,000.00	7,942.61	7,958.97	7,943.61	30.24	28.37	-153.64	-65.00	361.00	684.32	627.25	57.06	11.993	
8,100.00	8,041.60	8,058.17	8,042.60	30.64	28.72	-154.15	-65.00	361.00	695.71	637.95	57.76	12.044	
8,200.00	8,141.20	8,157.57	8,142.20	31.03	29.06	-154.58	-65.00	361.00	705.58	647.11	58.47	12.068	
8,300.00	8,240.78	8,257.14	8,241.78	31.41	29.41	-154.93	-65.00	361.00	713.91	654.74	59.17	12.066	
8,400.00	8,340.50	8,356.86	8,341.50	31.78	29.75	-155.21	-65.00	361.00	720.68	660.81	59.87	12.038	
8,500.00	8,440.33	8,456.70	8,441.33	32.15	30.10	-155.42	-65.00	361.00	725.87	665.31	60.57	11.985	
8,600.00	8,540.25	8,556.62	8,541.25	32.50	30.45	-155.57	-65.00	361.00	729.49	668.23	61.26	11.907	
8,700.00	8,640.23	8,656.59	8,641.23	32.84	30.80	-155.65	-65.00	361.00	731.52	669.56	61.96	11.806	
8,800.00	8,740.22	8,756.58	8,741.22	33.16	31.15	123.85	-65.00	361.00	732.24	669.60	62.64	11.689	
8,900.00	8,839.30	8,856.44	8,840.95	33.49	31.48	123.80	-65.00	357.42	739.27	675.96	63.31	11.676	
9,000.00	8,934.70	8,956.40	8,938.81	33.81	31.78	122.79	-65.02	337.69	755.84	691.92	63.93	11.823	
9,100.00	9,023.51	9,055.19	9,030.71	34.12	32.05	120.74	-65.05	301.79	781.40	716.92	64.48	12.118	
9,200.00	9,103.04	9,151.80	9,113.33	34.41	32.31	117.70	-65.09	251.93	815.17	750.19	64.99	12.544	
9,300.00	9,171.76	9,247.12	9,185.50	34.67	32.56	109.63	-65.14	189.83	853.06	787.58	65.47	13.029	
9,400.00	9,229.96	9,344.91	9,247.81	34.87	32.85	102.23	-65.20	114.62	885.61	819.60	66.01	13.417	
9,500.00	9,276.00	9,445.30	9,297.53	35.04	33.20	97.02	-65.27	27.56	911.36	844.70	66.66	13.671	
9,600.00	9,308.48	9,547.72	9,331.83	35.22	33.66	93.58	-65.35	-68.81	929.51	862.00	67.50	13.770	
9,700.00	9,326.41	9,651.21	9,348.52	35.46	34.22	91.64	-65.43	-170.80	939.47	870.92	68.55	13.704	
9,800.00	9,330.00	9,752.60	9,350.00	35.86	34.88	91.16	-65.51	-272.15	941.42	871.61	69.82	13.484	
9,900.00	9,330.00	9,852.60	9,350.00	36.47	35.65	91.16	-65.59	-372.15	941.42	870.10	71.32	13.200	
10,000.00	9,330.00	9,952.60	9,350.00	37.26	36.55	91.16	-65.67	-472.15	941.41	868.33	73.09	12.881	
10,100.00	9,330.00	10,052.60	9,350.00	38.20	37.58	91.16	-65.75	-572.15	941.41	866.31	75.10	12.536	
10,200.00	9,330.00	10,152.60	9,350.00	39.27	38.71	91.16	-65.83	-672.15	941.40	864.07	77.33	12.174	
10,300.00	9,330.00	10,252.60	9,350.00	40.45	39.94	91.16	-65.91	-772.15	941.40	861.63	79.77	11.802	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #203H - OH - Prelim C												Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.00	9,330.00	10,352.60	9,350.00	41.72	41.27	91.16	-65.99	-872.15	941.39	859.00	82.39	11.426	
10,500.00	9,330.00	10,452.60	9,350.00	43.09	42.68	91.16	-66.07	-972.15	941.39	856.20	85.18	11.051	
10,600.00	9,330.00	10,552.60	9,350.00	44.53	44.17	91.16	-66.15	-1,072.15	941.38	853.25	88.13	10.682	
10,700.00	9,330.00	10,652.60	9,350.00	46.04	45.72	91.16	-66.23	-1,172.15	941.38	850.16	91.22	10.320	
10,800.00	9,330.00	10,752.60	9,350.00	47.62	47.34	91.16	-66.31	-1,272.15	941.37	846.94	94.43	9.969	
10,900.00	9,330.00	10,852.60	9,350.00	49.26	49.01	91.16	-66.39	-1,372.15	941.36	843.61	97.75	9.630	
11,000.00	9,330.00	10,952.60	9,350.00	50.94	50.74	91.16	-66.48	-1,472.15	941.36	840.18	101.18	9.304	
11,100.00	9,330.00	11,052.60	9,350.00	52.68	52.50	91.16	-66.56	-1,572.15	941.35	836.66	104.69	8.992	
11,200.00	9,330.00	11,152.60	9,350.00	54.45	54.31	91.16	-66.64	-1,672.15	941.35	833.06	108.29	8.693	
11,300.00	9,330.00	11,252.60	9,350.00	56.27	56.15	91.16	-66.72	-1,772.15	941.34	829.38	111.96	8.408	
11,400.00	9,330.00	11,352.60	9,350.00	58.12	58.03	91.16	-66.80	-1,872.15	941.34	825.63	115.70	8.136	
11,500.00	9,330.00	11,452.60	9,350.00	60.00	59.94	91.16	-66.88	-1,972.15	941.33	821.82	119.51	7.877	
11,600.00	9,330.00	11,552.60	9,350.00	61.91	61.88	91.16	-66.96	-2,072.15	941.33	817.96	123.36	7.630	
11,700.00	9,330.00	11,652.60	9,350.00	63.85	63.84	91.16	-67.04	-2,172.15	941.32	814.05	127.27	7.396	
11,800.00	9,330.00	11,752.60	9,350.00	65.81	65.82	91.16	-67.12	-2,272.15	941.31	810.09	131.23	7.173	
11,900.00	9,330.00	11,852.60	9,350.00	67.79	67.82	91.16	-67.20	-2,372.15	941.31	806.08	135.22	6.961	
12,000.00	9,330.00	11,952.60	9,350.00	69.79	69.84	91.16	-67.28	-2,472.15	941.30	802.04	139.26	6.759	
12,100.00	9,330.00	12,052.60	9,350.00	71.81	71.88	91.16	-67.36	-2,572.15	941.30	797.97	143.33	6.567	
12,200.00	9,330.00	12,152.60	9,350.00	73.85	73.94	91.16	-67.44	-2,672.15	941.29	793.86	147.43	6.385	
12,300.00	9,330.00	12,252.60	9,350.00	75.91	76.01	91.16	-67.52	-2,772.15	941.29	789.73	151.56	6.211	
12,400.00	9,330.00	12,352.60	9,350.00	77.97	78.09	91.16	-67.60	-2,872.15	941.28	785.56	155.72	6.045	
12,500.00	9,330.00	12,452.60	9,350.00	80.05	80.19	91.16	-67.68	-2,972.15	941.28	781.37	159.90	5.887	
12,600.00	9,330.00	12,552.60	9,350.00	82.15	82.29	91.16	-67.76	-3,072.15	941.27	777.16	164.11	5.736	
12,700.00	9,330.00	12,652.60	9,350.00	84.25	84.41	91.16	-67.84	-3,172.15	941.26	772.93	168.34	5.591	
12,800.00	9,330.00	12,752.60	9,350.00	86.36	86.54	91.16	-67.92	-3,272.15	941.26	768.67	172.59	5.454	
12,900.00	9,330.00	12,852.60	9,350.00	88.49	88.68	91.16	-68.00	-3,372.15	941.25	764.40	176.85	5.322	
13,000.00	9,330.00	12,952.60	9,350.00	90.62	90.82	91.16	-68.08	-3,472.15	941.25	760.11	181.14	5.196	
13,100.00	9,330.00	13,052.60	9,350.00	92.76	92.97	91.16	-68.16	-3,572.15	941.24	755.80	185.44	5.076	
13,200.00	9,330.00	13,152.60	9,350.00	94.91	95.13	91.16	-68.25	-3,672.15	941.24	751.48	189.75	4.960	
13,300.00	9,330.00	13,252.60	9,350.00	97.07	97.30	91.16	-68.33	-3,772.15	941.23	747.15	194.08	4.850	
13,400.00	9,330.00	13,352.60	9,350.00	99.23	99.47	91.16	-68.41	-3,872.15	941.23	742.80	198.42	4.744	
13,500.00	9,330.00	13,452.60	9,350.00	101.40	101.65	91.16	-68.49	-3,972.15	941.22	738.44	202.78	4.642	
13,600.00	9,330.00	13,552.60	9,350.00	103.58	103.84	91.16	-68.57	-4,072.15	941.21	734.07	207.14	4.544	
13,700.00	9,330.00	13,652.60	9,350.00	105.76	106.03	91.16	-68.65	-4,172.15	941.21	729.69	211.52	4.450	
13,800.00	9,330.00	13,752.60	9,350.00	107.94	108.22	91.16	-68.73	-4,272.15	941.20	725.30	215.90	4.359	
13,900.00	9,330.00	13,852.60	9,350.00	110.13	110.42	91.16	-68.81	-4,372.15	941.20	720.90	220.30	4.272	
14,000.00	9,330.00	13,952.60	9,350.00	112.33	112.63	91.16	-68.89	-4,472.15	941.19	716.49	224.70	4.189	
14,100.00	9,330.00	14,052.60	9,350.00	114.53	114.83	91.16	-68.97	-4,572.15	941.19	712.07	229.11	4.108	
14,146.89	9,330.00	14,099.49	9,350.00	115.56	115.87	91.16	-69.01	-4,619.04	941.18	710.00	231.18	4.071	
14,147.61	9,330.00	14,090.45	9,350.00	115.58	115.67	91.16	-69.00	-4,610.00	941.23	710.32	230.91	4.076	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins-Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim B												Offset Site Error:	3.30 usft
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 usft
Reference: Offset													
Semi Major Axis													
Distance													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	5.00	-5.00	0.00	0.01	171.99	-2,168.00	305.00	2,189.35				
100.00	100.00	105.00	95.00	0.13	0.15	171.99	-2,168.00	305.00	2,189.35	2,189.07	0.27	7,983.592	
200.00	200.00	205.00	195.00	0.49	0.50	171.99	-2,168.00	305.00	2,189.35	2,188.36	0.99	2,208.844	
300.00	300.00	305.00	295.00	0.85	0.86	171.99	-2,168.00	305.00	2,189.35	2,187.64	1.71	1,281.732	
400.00	400.00	405.00	395.00	1.20	1.22	171.99	-2,168.00	305.00	2,189.35	2,186.92	2.43	902.802	
500.00	500.00	505.00	495.00	1.56	1.58	171.99	-2,168.00	305.00	2,189.35	2,186.21	3.14	696.800	
600.00	600.00	605.00	595.00	1.92	1.94	171.99	-2,168.00	305.00	2,189.35	2,185.49	3.86	567.344	
700.00	700.00	705.00	695.00	2.28	2.30	171.99	-2,168.00	305.00	2,189.35	2,184.77	4.58	478.453	
800.00	800.00	805.00	795.00	2.64	2.66	171.99	-2,168.00	305.00	2,189.35	2,184.06	5.29	413.644	
900.00	900.00	905.00	895.00	3.00	3.01	171.99	-2,168.00	305.00	2,189.35	2,183.34	6.01	364.298	
1,000.00	1,000.00	1,005.00	995.00	3.35	3.37	171.99	-2,168.00	305.00	2,189.35	2,182.62	6.73	325.471	
1,100.00	1,100.00	1,105.00	1,095.00	3.71	3.73	171.99	-2,168.00	305.00	2,189.35	2,181.91	7.44	294.123	
1,200.00	1,200.00	1,205.00	1,195.00	4.07	4.09	171.99	-2,168.00	305.00	2,189.35	2,181.19	8.16	268.283	
1,300.00	1,300.00	1,305.00	1,295.00	4.43	4.45	171.99	-2,168.00	305.00	2,189.35	2,180.47	8.88	246.616	
1,400.00	1,400.00	1,395.00	1,395.00	4.79	4.77	171.99	-2,168.00	305.00	2,189.35	2,179.79	9.56	229.044	
1,500.00	1,500.00	1,546.97	1,546.95	5.15	5.31	171.97	-2,166.17	305.46	2,188.22	2,177.76	10.46	209.214	
1,600.00	1,600.00	1,701.46	1,701.32	5.51	5.87	171.91	-2,160.31	306.95	2,184.60	2,173.24	11.36	192.256	
1,700.00	1,700.00	1,817.48	1,817.14	5.86	6.28	171.84	-2,153.68	308.63	2,179.10	2,166.97	12.13	179.599	
1,800.00	1,800.00	1,917.29	1,916.77	6.22	6.64	171.78	-2,147.81	310.11	2,173.50	2,160.65	12.85	169.158	
1,900.00	1,899.99	2,017.06	2,016.36	6.56	7.00	16.23	-2,141.95	311.59	2,167.06	2,153.51	13.55	159.954	
2,000.00	1,999.96	2,116.72	2,115.83	6.89	7.36	16.22	-2,136.10	313.08	2,158.96	2,144.72	14.23	151.690	
2,100.00	2,099.86	2,216.23	2,215.16	7.22	7.72	16.21	-2,130.26	314.56	2,149.18	2,134.26	14.92	144.050	
2,200.00	2,199.68	2,315.57	2,314.32	7.55	8.07	16.23	-2,124.42	316.03	2,137.74	2,122.13	15.61	136.959	
2,300.00	2,299.37	2,414.71	2,413.27	7.89	8.43	16.26	-2,118.60	317.51	2,124.63	2,108.33	16.30	130.353	
2,400.00	2,398.90	2,513.61	2,511.99	8.23	8.79	16.31	-2,112.79	318.98	2,109.87	2,092.88	16.99	124.179	
2,500.00	2,498.26	2,612.25	2,610.45	8.57	9.15	16.39	-2,106.99	320.44	2,093.45	2,075.77	17.68	118.389	
2,600.00	2,597.40	2,710.59	2,708.61	8.93	9.50	16.48	-2,101.22	321.91	2,075.39	2,057.01	18.38	112.942	
2,700.00	2,696.39	2,808.73	2,806.57	9.28	9.86	16.53	-2,095.45	323.37	2,056.24	2,037.17	19.07	107.831	
2,800.00	2,795.38	2,906.86	2,904.52	9.64	10.22	16.58	-2,089.69	324.83	2,037.07	2,017.31	19.76	103.072	
2,900.00	2,894.36	3,004.99	3,002.47	10.01	10.57	16.63	-2,083.93	326.28	2,017.91	1,997.45	20.46	98.626	
3,000.00	2,893.35	3,103.12	3,100.42	10.37	10.93	16.68	-2,078.16	327.74	1,998.74	1,977.59	21.16	94.463	
3,100.00	3,092.33	3,201.25	3,198.37	10.75	11.29	16.73	-2,072.40	329.20	1,979.58	1,957.72	21.86	90.560	
3,200.00	3,191.32	3,300.61	3,296.32	11.12	11.65	16.79	-2,066.63	330.66	1,960.42	1,937.85	22.57	86.876	
3,300.00	3,290.30	3,402.48	3,394.27	11.50	12.02	16.84	-2,060.87	332.12	1,941.26	1,917.98	23.28	83.378	
3,400.00	3,389.29	3,504.35	3,492.22	11.88	12.39	16.89	-2,055.11	333.58	1,922.10	1,898.10	24.00	80.085	
3,500.00	3,488.27	3,593.78	3,590.17	12.26	12.71	16.95	-2,049.34	335.04	1,902.95	1,878.27	24.68	77.119	
3,600.00	3,587.26	3,708.09	3,688.12	12.64	13.13	17.01	-2,043.58	336.50	1,883.79	1,858.35	25.44	74.046	
3,700.00	3,686.24	3,809.96	3,786.07	13.02	13.50	17.07	-2,037.81	337.96	1,864.64	1,838.48	26.16	71.272	
3,800.00	3,785.23	3,888.17	3,884.02	13.41	13.79	17.13	-2,032.05	339.42	1,845.49	1,818.69	26.80	68.863	
3,900.00	3,884.21	3,986.30	3,981.98	13.80	14.14	17.19	-2,026.29	340.88	1,826.34	1,798.83	27.51	66.389	
4,000.00	3,983.20	4,084.43	4,079.93	14.19	14.50	17.25	-2,020.52	342.34	1,807.19	1,778.97	28.22	64.039	
4,100.00	4,082.18	4,182.56	4,177.88	14.58	14.86	17.31	-2,014.76	343.80	1,788.05	1,759.12	28.93	61.802	
4,200.00	4,181.17	4,280.69	4,275.83	14.97	15.22	17.38	-2,009.00	345.25	1,768.91	1,739.26	29.64	59.671	
4,300.00	4,280.15	4,378.83	4,373.78	15.36	15.57	17.44	-2,003.23	346.71	1,749.77	1,719.41	30.36	57.639	
4,400.00	4,379.14	4,476.96	4,471.73	15.76	15.93	17.51	-1,997.47	348.17	1,730.63	1,699.56	31.07	55.700	
4,500.00	4,478.12	4,575.09	4,569.68	16.15	16.29	17.58	-1,991.70	349.63	1,711.49	1,679.71	31.79	53.846	
4,600.00	4,577.11	4,673.22	4,667.63	16.55	16.65	17.65	-1,985.94	351.09	1,692.36	1,659.86	32.50	52.073	
4,700.00	4,676.09	4,771.35	4,765.58	16.94	17.01	17.72	-1,980.18	352.55	1,673.23	1,640.02	33.22	50.376	
4,800.00	4,775.08	4,869.48	4,863.53	17.34	17.36	17.80	-1,974.41	354.01	1,654.10	1,620.17	33.93	48.749	
4,900.00	4,874.06	4,967.61	4,961.48	17.74	17.72	17.87	-1,968.65	355.47	1,634.98	1,600.33	34.65	47.189	
5,000.00	4,973.04	5,065.74	5,059.43	18.13	18.08	17.95	-1,962.88	356.93	1,615.86	1,580.49	35.36	45.692	
5,100.00	5,072.03	5,163.87	5,157.38	18.53	18.44	18.03	-1,957.12	358.39	1,596.74	1,560.66	36.08	44.254	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim B												Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/S (usft)	+E/W (usft)					
5,200.00	5,171.01	5,262.00	5,255.33	18.93	18.80	18.11	-1,951.36	359.85	1,577.62	1,540.82	36.80	42.871	
5,300.00	5,270.00	5,360.14	5,353.28	19.33	19.16	18.19	-1,945.59	361.31	1,558.51	1,520.99	37.52	41.541	
5,400.00	5,368.98	5,453.56	5,446.54	19.73	19.50	18.27	-1,940.13	362.69	1,539.43	1,501.21	38.23	40.272	
5,500.00	5,467.97	5,532.20	5,525.08	20.13	19.78	18.35	-1,936.29	363.66	1,521.26	1,482.36	38.90	39.105	
5,600.00	5,566.95	5,611.19	5,604.01	20.53	20.07	18.45	-1,933.47	364.37	1,504.35	1,464.78	39.57	38.013	
5,700.00	5,665.94	5,690.48	5,683.28	20.94	20.35	18.57	-1,931.71	364.82	1,488.74	1,448.49	40.24	36.993	
5,800.00	5,764.92	5,770.06	5,762.86	21.34	20.63	18.70	-1,931.01	365.00	1,474.41	1,433.50	40.91	36.041	
5,900.00	5,863.91	5,866.11	5,858.91	21.74	20.97	18.87	-1,931.00	365.00	1,460.93	1,419.30	41.62	35.100	
6,000.00	5,962.89	5,965.09	5,957.89	22.14	21.32	19.05	-1,931.00	365.00	1,447.47	1,405.13	42.34	34.183	
6,100.00	6,061.88	6,064.08	6,056.88	22.54	21.67	19.24	-1,931.00	365.00	1,434.03	1,390.96	43.07	33.297	
6,200.00	6,160.86	6,163.06	6,155.86	22.95	22.02	19.43	-1,931.00	365.00	1,420.61	1,376.81	43.79	32.441	
6,300.00	6,259.85	6,262.05	6,254.85	23.35	22.37	19.62	-1,931.00	365.00	1,407.19	1,362.68	44.51	31.612	
6,400.00	6,358.83	6,361.03	6,353.83	23.76	22.72	19.81	-1,931.00	365.00	1,393.80	1,348.56	45.24	30.810	
6,500.00	6,457.82	6,460.02	6,452.82	24.16	23.07	20.01	-1,931.00	365.00	1,380.42	1,334.46	45.96	30.033	
6,600.00	6,556.80	6,559.00	6,551.80	24.56	23.42	20.22	-1,931.00	365.00	1,367.06	1,320.37	46.69	29.280	
6,700.00	6,655.79	6,657.99	6,650.79	24.97	23.78	20.43	-1,931.00	365.00	1,353.72	1,306.30	47.41	28.551	
6,800.00	6,754.77	6,756.97	6,749.77	25.37	24.13	20.64	-1,931.00	365.00	1,340.39	1,292.25	48.14	27.843	
6,900.00	6,853.76	6,855.96	6,848.76	25.78	24.48	20.85	-1,931.00	365.00	1,327.08	1,278.22	48.87	27.157	
7,000.00	6,952.74	6,954.94	6,947.74	26.18	24.83	21.07	-1,931.00	365.00	1,313.80	1,264.20	49.59	26.491	
7,100.00	7,051.73	7,053.93	7,046.73	26.59	25.18	21.30	-1,931.00	365.00	1,300.53	1,250.20	50.32	25.844	
7,200.00	7,150.71	7,152.91	7,145.71	26.99	25.53	21.53	-1,931.00	365.00	1,287.28	1,236.23	51.05	25.216	
7,300.00	7,249.70	7,251.90	7,244.70	27.40	25.88	21.76	-1,931.00	365.00	1,274.05	1,222.27	51.78	24.606	
7,400.00	7,348.68	7,350.88	7,343.68	27.81	26.23	22.00	-1,931.00	365.00	1,260.84	1,208.33	52.51	24.012	
7,500.00	7,447.67	7,449.87	7,442.67	28.21	26.59	22.25	-1,931.00	365.00	1,247.66	1,194.42	53.24	23.436	
7,600.00	7,546.65	7,548.85	7,541.65	28.62	26.94	22.49	-1,931.00	365.00	1,234.50	1,180.53	53.97	22.875	
7,700.00	7,645.64	7,647.84	7,640.64	29.02	27.29	22.75	-1,931.00	365.00	1,221.36	1,166.66	54.70	22.329	
7,800.00	7,744.62	7,746.82	7,739.62	29.43	27.64	23.01	-1,931.00	365.00	1,208.24	1,152.81	55.43	21.798	
7,900.00	7,843.61	7,845.81	7,838.61	29.84	27.99	23.28	-1,931.00	365.00	1,195.15	1,138.99	56.16	21.280	
8,000.00	7,942.61	7,944.81	7,937.61	30.24	28.35	23.52	-1,931.00	365.00	1,182.21	1,125.32	56.89	20.779	
8,100.00	8,041.80	8,044.00	8,036.80	30.64	28.70	23.72	-1,931.00	365.00	1,170.59	1,112.97	57.62	20.314	
8,200.00	8,141.20	8,143.40	8,136.20	31.03	29.05	23.90	-1,931.00	365.00	1,160.58	1,102.22	58.35	19.889	
8,300.00	8,240.78	8,242.98	8,235.78	31.41	29.41	24.05	-1,931.00	365.00	1,152.17	1,093.09	59.08	19.503	
8,400.00	8,340.50	8,342.70	8,335.50	31.78	29.76	24.18	-1,931.00	365.00	1,145.35	1,085.56	59.80	19.154	
8,500.00	8,440.33	8,442.53	8,435.33	32.15	30.12	24.27	-1,931.00	365.00	1,140.14	1,079.62	60.51	18.841	
8,600.00	8,540.25	8,542.45	8,535.25	32.50	30.47	24.34	-1,931.00	365.00	1,136.51	1,075.29	61.23	18.562	
8,700.00	8,640.23	8,642.43	8,635.23	32.84	30.83	24.38	-1,931.00	365.00	1,134.48	1,072.55	61.93	18.317	
8,800.00	8,740.22	8,742.42	8,735.22	33.16	31.19	-56.14	-1,931.00	365.00	1,133.76	1,071.14	62.63	18.104	
8,900.00	8,839.30	8,841.67	8,832.33	33.49	31.45	-56.87	-1,931.66	361.66	1,127.68	1,064.45	63.22	17.837	
9,000.00	8,934.70	8,937.11	8,927.59	33.81	31.68	-58.31	-1,934.08	349.45	1,114.48	1,050.74	63.75	17.483	
9,100.00	9,023.51	9,026.00	9,017.51	34.12	31.90	-60.48	-1,938.25	328.41	1,094.59	1,030.37	64.22	17.044	
9,200.00	9,103.04	9,105.61	9,094.63	34.41	32.10	-63.43	-1,944.10	298.84	1,068.57	1,003.90	64.67	16.523	
9,300.00	9,171.76	9,174.41	9,163.35	34.67	32.32	-71.28	-1,951.66	260.68	1,040.44	975.31	65.13	15.975	
9,400.00	9,229.96	9,232.70	9,220.26	34.87	32.57	-78.54	-1,961.15	212.73	1,019.89	954.24	65.65	15.534	
9,500.00	9,276.00	9,278.83	9,265.17	35.04	33.01	-84.18	-1,976.65	121.52	1,006.78	940.31	66.48	15.145	
9,600.00	9,308.48	9,311.40	9,295.08	35.22	33.65	-88.00	-1,989.80	-3.54	997.83	930.32	67.51	14.780	
9,700.00	9,326.41	9,329.41	9,313.00	35.46	34.52	-89.86	-1,996.95	-146.63	992.60	923.78	68.83	14.421	
9,800.00	9,330.00	9,333.00	9,317.00	35.66	35.43	-90.03	-1,997.92	-270.93	991.18	920.86	70.32	14.096	
9,900.00	9,330.00	9,333.00	9,317.00	35.87	36.30	-89.93	-1,997.97	-370.90	991.15	919.24	71.91	13.782	
10,000.00	9,330.00	9,333.00	9,317.00	36.08	37.18	-89.84	-1,998.02	-470.88	991.13	917.36	73.77	13.436	
10,100.00	9,330.00	9,333.00	9,317.00	36.29	38.07	-89.75	-1,998.06	-570.85	991.11	915.25	75.86	13.065	
10,200.00	9,330.00	9,333.00	9,317.00	36.50	38.96	-89.66	-1,998.11	-670.83	991.09	912.92	78.16	12.679	
10,300.00	9,330.00	9,333.00	9,317.00	36.71	39.85	-89.57	-1,998.16	-770.80	991.07	910.40	80.67	12.285	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim B													Offset Site Error:	3.30 usft
Survey Program: 0-MWD-HDGM													Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,400.00	9,330.00	10,325.54	9,316.02	41.72	42.28	-89.48	-1,998.21	-870.78	991.06	907.70	83.36	11.889		
10,500.00	9,330.00	10,425.53	9,314.45	43.09	43.74	-89.39	-1,998.25	-970.76	991.04	904.84	86.21	11.496		
10,600.00	9,330.00	10,525.52	9,312.88	44.53	45.27	-89.30	-1,998.30	-1,070.73	991.04	901.83	89.20	11.110		
10,700.00	9,330.00	10,625.50	9,311.31	46.04	46.87	-89.21	-1,998.35	-1,170.71	991.03	898.69	92.33	10.733		
10,800.00	9,330.00	10,725.49	9,309.75	47.62	48.53	-89.12	-1,998.40	-1,270.68	991.02	895.44	95.59	10.368		
10,900.00	9,330.00	10,825.48	9,308.18	49.26	50.23	-89.03	-1,998.45	-1,370.66	991.02	892.08	98.95	10.016		
10,923.12	9,330.00	10,848.59	9,307.81	49.65	50.63	-89.01	-1,998.46	-1,393.77	991.02	891.28	99.74	9.936 CC		
11,000.00	9,330.00	10,925.47	9,306.61	50.94	51.99	-88.94	-1,998.49	-1,470.63	991.02	888.62	102.40	9.678		
11,100.00	9,330.00	11,025.45	9,305.04	52.68	53.78	-88.85	-1,998.54	-1,570.61	991.03	885.08	105.95	9.354		
11,200.00	9,330.00	11,125.44	9,303.47	54.45	55.61	-88.75	-1,998.59	-1,670.58	991.03	881.46	109.57	9.045		
11,300.00	9,330.00	11,225.27	9,301.45	56.27	57.47	-88.64	-1,998.64	-1,770.39	991.05	877.78	113.27	8.750		
11,400.00	9,330.00	11,325.24	9,299.19	58.12	59.37	-88.51	-1,998.68	-1,870.34	991.08	874.05	117.03	8.469		
11,500.00	9,330.00	11,425.22	9,296.92	60.00	61.30	-88.38	-1,998.73	-1,970.29	991.11	870.26	120.85	8.201		
11,600.00	9,330.00	11,525.19	9,294.66	61.91	63.25	-88.25	-1,998.78	-2,070.23	991.15	866.43	124.72	7.947		
11,700.00	9,330.00	11,625.17	9,292.40	63.85	65.23	-88.12	-1,998.83	-2,170.18	991.20	862.56	128.64	7.705		
11,800.00	9,330.00	11,725.14	9,290.14	65.81	67.22	-87.98	-1,998.87	-2,270.13	991.25	858.64	132.61	7.475		
11,900.00	9,330.00	11,825.11	9,287.88	67.79	69.24	-87.85	-1,998.92	-2,370.08	991.30	854.69	136.61	7.256		
12,000.00	9,330.00	11,925.09	9,285.62	69.79	71.27	-87.72	-1,998.97	-2,470.03	991.36	850.71	140.65	7.049		
12,100.00	9,330.00	12,025.06	9,283.36	71.81	73.32	-87.59	-1,999.02	-2,569.98	991.43	846.71	144.72	6.851		
12,200.00	9,330.00	12,125.04	9,281.10	73.85	75.38	-87.46	-1,999.07	-2,669.93	991.50	842.68	148.82	6.662		
12,300.00	9,330.00	12,225.01	9,278.83	75.91	77.46	-87.33	-1,999.11	-2,769.88	991.57	838.62	152.95	6.483		
12,400.00	9,330.00	12,324.99	9,276.57	77.97	79.55	-87.20	-1,999.16	-2,869.83	991.65	834.55	157.10	6.312		
12,500.00	9,330.00	12,424.96	9,274.31	80.05	81.66	-87.07	-1,999.21	-2,969.77	991.74	830.46	161.28	6.149		
12,600.00	9,330.00	12,524.93	9,272.05	82.15	83.77	-86.94	-1,999.26	-3,069.72	991.83	826.36	165.48	5.994		
12,700.00	9,330.00	12,624.91	9,269.79	84.25	85.89	-86.81	-1,999.30	-3,169.67	991.93	822.24	169.69	5.845		
12,800.00	9,330.00	12,724.88	9,267.53	86.36	88.02	-86.68	-1,999.35	-3,269.62	992.03	818.10	173.93	5.704		
12,900.00	9,330.00	12,824.86	9,265.27	88.49	90.17	-86.55	-1,999.40	-3,369.57	992.14	813.96	178.17	5.568		
13,000.00	9,330.00	12,924.83	9,263.01	90.62	92.31	-86.42	-1,999.45	-3,469.52	992.25	809.81	182.44	5.439		
13,100.00	9,330.00	13,024.81	9,260.74	92.76	94.47	-86.29	-1,999.49	-3,569.47	992.36	805.65	186.72	5.315		
13,200.00	9,330.00	13,124.78	9,258.48	94.91	96.63	-86.16	-1,999.54	-3,669.42	992.49	801.48	191.01	5.196		
13,300.00	9,330.00	13,224.76	9,256.22	97.07	98.80	-86.03	-1,999.59	-3,769.36	992.61	797.30	195.31	5.082		
13,400.00	9,330.00	13,324.73	9,253.96	99.23	100.98	-85.90	-1,999.64	-3,869.31	992.74	793.12	199.62	4.973		
13,500.00	9,330.00	13,424.70	9,251.70	101.40	103.16	-85.77	-1,999.68	-3,969.26	992.88	788.94	203.94	4.868		
13,600.00	9,330.00	13,524.68	9,249.44	103.58	105.35	-85.64	-1,999.73	-4,069.21	993.02	784.75	208.27	4.768		
13,700.00	9,330.00	13,624.65	9,247.18	105.76	107.54	-85.51	-1,999.78	-4,169.16	993.17	780.56	212.61	4.671		
13,800.00	9,330.00	13,724.63	9,244.92	107.94	109.74	-85.38	-1,999.83	-4,269.11	993.32	776.37	216.96	4.578		
13,900.00	9,330.00	13,824.60	9,242.65	110.13	111.94	-85.25	-1,999.88	-4,369.06	993.48	772.17	221.31	4.489		
14,000.00	9,330.00	13,924.58	9,240.39	112.33	114.14	-85.12	-1,999.92	-4,469.01	993.65	767.97	225.67	4.403		
14,100.00	9,330.00	14,024.55	9,238.13	114.53	116.35	-84.99	-1,999.97	-4,568.96	993.81	763.78	230.04	4.320		
14,147.61	9,330.00	14,072.15	9,237.05	115.58	117.41	-84.92	-1,999.99	-4,616.54	993.90	761.78	232.11	4.282 ES, SF		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354 PTB 12417											Offset Site Error:	3.30 usft
Survey Program: 98-GYRO-NS-CT-1243-MWD+HDGM											Offset Well Error:	1.10 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (ft)	Offset Wellbore Centre (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	1.10	172.07	-2,198.00	306.00	2,219.21			
100.00	100.00	90.25	90.25	0.13	1.11	172.07	-2,198.08	305.99	2,219.28	2,218.04	1.23	1,798.565
200.00	200.00	181.11	181.11	0.49	1.17	172.08	-2,198.42	305.91	2,219.64	2,217.98	1.66	1,335.653
300.00	300.00	260.31	260.31	0.85	1.30	172.08	-2,199.23	305.89	2,220.66	2,218.52	2.14	1,035.409
400.00	400.00	341.63	341.61	1.20	1.47	172.08	-2,200.79	306.34	2,222.63	2,219.95	2.68	830.785
500.00	500.00	441.55	441.49	1.56	1.74	172.04	-2,203.10	308.12	2,225.16	2,221.87	3.29	676.698
600.00	600.00	582.39	582.26	1.92	2.15	171.95	-2,204.78	311.94	2,226.77	2,222.71	4.06	548.741
700.00	700.00	695.32	695.14	2.28	2.50	171.86	-2,204.35	315.28	2,226.78	2,222.01	4.77	466.661
707.15	707.15	701.33	701.15	2.30	2.52	171.86	-2,204.32	315.47	2,226.78	2,221.96	4.82	462.300
800.00	800.00	787.69	787.46	2.64	2.80	171.78	-2,204.16	318.32	2,227.03	2,221.60	5.43	410.033
900.00	900.00	909.71	909.42	3.00	3.20	171.69	-2,203.49	321.94	2,226.93	2,220.74	6.19	359.556
1,000.00	1,000.00	1,014.81	1,014.50	3.35	3.55	171.63	-2,202.20	323.82	2,225.97	2,219.07	6.90	322.613
1,100.00	1,100.00	1,106.26	1,105.93	3.71	3.81	171.59	-2,201.32	325.26	2,225.25	2,217.73	7.52	295.766
1,200.00	1,200.00	1,203.72	1,203.37	4.07	3.98	171.54	-2,200.57	327.16	2,224.77	2,216.72	8.05	276.304
1,300.00	1,300.00	1,315.62	1,315.23	4.43	4.08	171.47	-2,199.53	329.74	2,224.21	2,215.71	8.51	261.425
1,400.00	1,400.00	1,495.71	1,495.23	4.79	4.21	171.40	-2,194.56	331.92	2,221.83	2,212.83	8.99	247.020
1,500.00	1,500.00	1,625.91	1,625.21	5.15	4.37	171.34	-2,187.24	332.97	2,216.33	2,206.83	9.50	233.342
1,600.00	1,600.00	1,711.00	1,710.12	5.51	4.49	171.29	-2,181.80	334.23	2,210.31	2,200.32	9.99	221.355
1,700.00	1,700.00	1,783.75	1,782.75	5.86	4.61	171.24	-2,177.79	335.66	2,205.29	2,194.82	10.47	210.619
1,800.00	1,800.00	1,856.87	1,855.80	6.22	4.75	171.18	-2,175.10	337.46	2,201.99	2,191.02	10.97	200.800
1,900.00	1,899.99	1,950.68	1,949.53	6.56	4.93	15.61	-2,172.38	339.84	2,198.66	2,187.17	11.49	191.301
2,000.00	1,999.96	2,068.32	2,067.06	6.89	5.19	15.54	-2,168.40	343.22	2,193.25	2,181.18	12.07	181.668
2,100.00	2,099.86	2,171.19	2,169.80	7.22	5.43	15.49	-2,164.24	346.59	2,185.57	2,172.93	12.64	172.867
2,200.00	2,199.68	2,245.10	2,243.61	7.55	5.61	15.47	-2,161.60	349.11	2,176.73	2,163.57	13.16	165.398
2,300.00	2,299.37	2,317.16	2,315.63	7.89	5.79	15.48	-2,160.13	350.91	2,167.53	2,153.86	13.68	158.456
2,400.00	2,398.90	2,398.00	2,396.45	8.23	6.00	15.51	-2,159.47	352.74	2,157.82	2,143.59	14.23	151.685
2,500.00	2,498.26	2,503.61	2,502.03	8.57	6.29	15.56	-2,158.79	355.31	2,146.66	2,131.82	14.85	144.580
2,600.00	2,597.40	2,609.31	2,607.69	8.93	6.58	15.63	-2,157.68	357.61	2,133.39	2,117.91	15.48	137.800
2,700.00	2,696.39	2,705.85	2,704.21	9.28	6.86	15.68	-2,156.69	359.41	2,119.00	2,102.90	16.10	131.616
2,800.00	2,795.38	2,810.77	2,809.10	9.64	7.16	15.73	-2,155.63	361.41	2,104.62	2,087.87	16.75	125.652
2,900.00	2,894.36	2,903.11	2,901.42	10.01	7.44	15.78	-2,154.48	363.32	2,090.04	2,072.66	17.37	120.317
3,000.00	2,993.35	3,007.49	3,005.77	10.37	7.76	15.82	-2,153.49	365.58	2,075.76	2,057.72	18.03	115.101
3,100.00	3,092.33	3,113.83	3,112.08	10.75	8.08	15.87	-2,151.98	367.66	2,060.98	2,042.27	18.71	110.155
3,200.00	3,191.32	3,214.99	3,213.20	11.12	8.40	15.92	-2,150.33	369.74	2,046.02	2,026.64	19.38	105.593
3,300.00	3,290.30	3,319.16	3,317.33	11.50	8.73	15.96	-2,148.36	372.07	2,030.82	2,010.76	20.06	101.251
3,400.00	3,389.29	3,407.33	3,405.46	11.88	9.01	16.00	-2,146.73	373.87	2,015.66	1,994.97	20.69	97.409
3,500.00	3,488.27	3,470.22	3,468.35	12.26	9.20	16.06	-2,146.53	374.34	2,001.79	1,980.55	21.25	94.217
3,600.00	3,587.26	3,552.53	3,550.65	12.64	9.45	16.17	-2,147.68	373.79	1,989.37	1,967.52	21.85	91.057
3,700.00	3,686.24	3,645.77	3,643.86	13.02	9.72	16.32	-2,149.47	372.61	1,977.42	1,954.94	22.48	87.963
3,800.00	3,785.23	3,745.00	3,743.07	13.41	10.02	16.49	-2,151.57	371.10	1,965.63	1,942.50	23.13	84.966
3,900.00	3,884.21	3,854.18	3,852.21	13.80	10.35	16.69	-2,153.63	369.16	1,953.62	1,929.80	23.82	82.008
4,000.00	3,983.20	3,959.40	3,957.39	14.19	10.67	16.88	-2,155.18	366.99	1,941.17	1,916.67	24.50	79.221
4,100.00	4,082.18	4,075.72	4,073.68	14.58	11.03	17.11	-2,156.13	364.48	1,928.07	1,902.85	25.22	76.447
4,200.00	4,181.17	4,188.05	4,185.98	14.97	11.38	17.33	-2,156.35	361.66	1,914.37	1,888.44	25.93	73.823
4,300.00	4,280.15	4,301.56	4,299.44	15.36	11.75	17.56	-2,155.54	358.79	1,899.77	1,873.12	26.65	71.285
4,400.00	4,379.14	4,415.70	4,413.53	15.76	12.12	17.81	-2,153.98	355.55	1,884.54	1,857.17	27.37	68.846
4,500.00	4,478.12	4,519.52	4,517.26	16.15	12.46	18.05	-2,152.01	352.00	1,868.73	1,840.66	28.07	66.569
4,600.00	4,577.11	4,627.68	4,625.33	16.55	12.81	18.31	-2,149.52	348.30	1,852.57	1,823.78	28.78	64.360
4,700.00	4,676.09	4,733.79	4,731.33	16.94	13.16	18.57	-2,146.58	344.44	1,835.94	1,806.45	29.49	62.249
4,800.00	4,775.08	4,827.90	4,825.33	17.34	13.48	18.81	-2,143.80	340.70	1,819.15	1,788.98	30.18	60.285
4,900.00	4,874.06	4,912.64	4,910.03	17.74	13.76	18.98	-2,141.72	339.21	1,803.08	1,772.25	30.84	58.470
5,000.00	4,973.04	5,010.49	5,007.85	18.13	14.09	19.10	-2,139.41	339.61	1,787.35	1,755.81	31.54	56.677

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - No. 124H - OH - OH Surveys 98-12354 PTB 12417													Offset Site Error:	3.30 usft
Survey Program: 98-GYRO-NS-CT-1243-MWD+HDGM													Offset Well Error:	1.10 usft
Reference	Offset	Semi-Major Axis		Distance		Minimum Separation		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,072.03	5,108.11	5,105.44	18.53	14.43	19.23	-2,137.17	340.04	1,771.69	1,739.45	32.23	54.962		
5,200.00	5,171.01	5,206.14	5,203.45	18.93	14.76	19.38	-2,135.00	339.78	1,756.05	1,723.11	32.94	53.317		
5,300.00	5,270.00	5,302.97	5,300.26	19.33	15.09	19.55	-2,133.00	339.24	1,740.55	1,706.91	33.64	51.748		
5,400.00	5,368.98	5,397.21	5,394.48	19.73	15.41	19.72	-2,131.13	338.51	1,725.12	1,690.79	34.33	50.253		
5,500.00	5,467.97	5,483.35	5,480.60	20.13	15.71	19.84	-2,129.80	339.06	1,710.27	1,675.26	35.00	48.862		
5,600.00	5,566.95	5,569.49	5,566.72	20.53	16.00	19.91	-2,129.07	340.85	1,696.22	1,660.54	35.67	47.548		
5,700.00	5,665.94	5,661.11	5,658.32	20.94	16.31	20.02	-2,128.84	342.21	1,682.71	1,646.36	36.36	46.281		
5,800.00	5,764.92	5,752.70	5,749.92	21.34	16.62	20.15	-2,129.09	342.97	1,669.69	1,632.65	37.04	45.078		
5,900.00	5,863.91	5,849.47	5,846.68	21.74	16.94	20.30	-2,129.68	343.28	1,656.96	1,619.23	37.73	43.913		
6,000.00	5,962.89	5,951.40	5,948.60	22.14	17.28	20.50	-2,130.37	342.72	1,644.25	1,605.81	38.44	42.776		
6,100.00	6,061.88	6,066.58	6,063.78	22.54	17.67	20.75	-2,130.62	341.48	1,631.09	1,591.91	39.18	41.626		
6,200.00	6,160.86	6,174.30	6,171.48	22.95	18.04	20.90	-2,129.52	342.71	1,616.84	1,576.93	39.92	40.507		
6,300.00	6,259.85	6,266.94	6,264.10	23.35	18.35	20.99	-2,128.56	344.80	1,602.68	1,562.07	40.61	39.464		
6,400.00	6,358.83	6,363.02	6,360.16	23.76	18.69	21.11	-2,127.98	346.47	1,588.91	1,547.59	41.32	38.457		
6,500.00	6,457.82	6,475.56	6,472.68	24.16	19.07	21.25	-2,126.99	348.18	1,574.87	1,532.81	42.06	37.442		
6,600.00	6,556.80	6,582.27	6,579.37	24.56	19.45	21.41	-2,125.22	349.20	1,560.03	1,517.23	42.79	36.454		
6,700.00	6,655.79	6,684.90	6,681.98	24.97	19.80	21.59	-2,123.16	349.65	1,544.83	1,501.31	43.52	35.499		
6,800.00	6,754.77	6,781.14	6,778.20	25.37	20.14	21.78	-2,121.16	349.75	1,529.56	1,485.33	44.23	34.582		
6,900.00	6,853.76	6,868.56	6,865.60	25.78	20.44	21.94	-2,119.82	350.13	1,514.84	1,469.92	44.92	33.721		
7,000.00	6,952.74	6,963.93	6,960.96	26.18	20.77	22.10	-2,118.78	350.94	1,500.61	1,454.97	45.63	32.884		
7,100.00	7,051.73	7,062.32	7,059.35	26.59	21.12	22.27	-2,117.82	351.77	1,486.50	1,440.15	46.35	32.071		
7,200.00	7,150.71	7,159.55	7,156.57	26.99	21.46	22.44	-2,116.92	352.70	1,472.46	1,425.39	47.07	31.284		
7,300.00	7,249.70	7,254.41	7,253.06	27.40	22.81	22.54	-2,077.20	273.28	1,448.04	1,400.23	47.81	30.285		
7,400.00	7,348.68	7,353.00	7,350.46	27.81	22.92	22.72	-2,072.46	257.53	1,417.96	1,369.26	48.70	29.117		
7,500.00	7,447.67	7,451.32	7,448.24	28.21	23.04	28.15	-2,068.20	238.51	1,392.76	1,343.24	49.53	28.122		
7,600.00	7,546.65	7,544.21	7,540.73	28.62	23.15	28.98	-2,065.44	220.61	1,372.96	1,322.69	50.27	27.311		
7,700.00	7,645.64	7,676.00	7,628.89	29.02	23.27	29.92	-2,063.33	200.06	1,358.65	1,307.72	50.93	26.679		
7,800.00	7,744.62	7,728.53	7,667.74	29.43	23.49	31.54	-2,060.80	164.80	1,349.47	1,297.88	51.59	26.156		
7,900.00	7,843.61	7,795.40	7,714.41	29.84	23.80	33.72	-2,057.38	117.06	1,344.73	1,292.42	52.30	25.710		
7,978.16	7,921.01	7,882.85	7,767.72	30.16	24.28	36.84	-2,049.53	48.27	1,343.70	1,290.58	53.13	25.292		
8,000.00	7,942.61	7,899.82	7,777.24	30.24	24.38	37.47	-2,047.45	34.37	1,343.66	1,290.36	53.30	25.207 CC, ES		
8,100.00	8,041.80	7,949.79	7,804.00	30.64	24.70	39.38	-2,040.75	-7.29	1,348.23	1,294.41	53.82	25.050		
8,200.00	8,141.20	7,978.77	7,818.57	31.03	24.91	40.56	-2,036.69	-32.01	1,360.19	1,306.19	54.00	25.189		
8,300.00	8,240.78	8,004.00	7,830.69	31.41	25.09	41.66	-2,033.29	-53.87	1,379.78	1,325.81	53.97	25.564		
8,400.00	8,340.50	8,004.00	7,830.69	31.78	25.09	41.85	-2,033.29	-53.87	1,407.08	1,353.59	53.49	26.304		
8,500.00	8,440.33	8,030.24	7,842.48	32.15	25.30	43.10	-2,030.10	-77.09	1,441.25	1,388.04	53.21	27.086		
8,600.00	8,540.25	8,051.00	7,851.07	32.50	25.46	44.22	-2,027.97	-95.87	1,482.47	1,429.71	52.76	28.099		
8,700.00	8,640.23	8,051.00	7,851.07	32.84	25.46	44.59	-2,027.97	-95.87	1,529.76	1,477.79	51.97	29.436		
8,800.00	8,740.22	8,051.00	7,851.07	33.16	25.46	-34.74	-2,027.97	-95.87	1,582.68	1,531.55	51.13	30.956		
8,900.00	8,839.30	8,075.95	7,860.40	33.49	25.67	-30.83	-2,025.78	-118.90	1,631.15	1,580.62	50.52	32.285		
9,000.00	8,934.70	8,098.00	7,867.67	33.81	25.86	-28.03	-2,024.15	-139.65	1,671.01	1,621.24	49.77	33.575		
9,100.00	9,023.51	8,098.00	7,867.67	34.12	25.86	-26.58	-2,024.15	-139.65	1,701.13	1,652.48	48.65	34.967		
9,200.00	9,103.04	8,127.90	7,876.23	34.41	26.14	-24.96	-2,022.20	-168.23	1,720.81	1,672.95	47.86	35.955		
9,300.00	9,171.76	8,144.00	7,880.27	34.67	26.28	-28.08	-2,021.22	-183.78	1,732.17	1,685.28	46.89	36.942		
9,400.00	9,229.96	8,169.50	7,885.76	34.87	26.53	-31.10	-2,019.87	-208.65	1,741.17	1,695.02	46.15	37.730		
9,500.00	9,276.00	8,191.00	7,889.44	35.04	26.75	-33.06	-2,018.97	-229.81	1,747.80	1,702.24	45.56	38.363		
9,600.00	9,308.48	8,211.59	7,892.10	35.22	26.96	-34.30	-2,018.36	-250.22	1,751.69	1,706.43	45.26	38.704		
9,700.00	9,326.41	8,238.00	7,894.19	35.46	27.23	-35.00	-2,017.96	-276.54	1,752.68	1,707.32	45.36	38.638		
9,800.00	9,330.00	8,278.31	7,895.77	35.86	27.68	-35.29	-2,017.71	-316.81	1,750.42	1,704.46	45.95	38.090		
9,900.00	9,330.00	8,333.75	7,896.46	36.47	28.30	-35.30	-2,017.46	-372.25	1,749.08	1,702.26	46.83	37.353		
9,926.06	9,330.00	8,358.20	7,896.37	36.66	28.60	-35.29	-2,017.34	-396.70	1,749.07	1,701.92	47.15	37.096		
10,000.00	9,330.00	8,427.69	7,895.77	37.26	29.46	-35.26	-2,016.69	-466.18	1,749.17	1,701.10	48.07	36.391		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - No. 124H - OH - OH Surveys 98'-12354' PTB 12417'													Offset Site Error:	3.30 usft
Survey Program 98-GYRO-NS-CT, 1243-MWD+HDGM													Offset Well Error:	1.10 usft
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
10,100.00	9,330.00	8,524.91	7,894.01	38.20	30.77	-35.18	-2,014.85	-563.37	1,749.50	1,700.07	49.43	35.391		
10,200.00	9,330.00	8,610.32	7,891.60	39.27	32.03	-35.07	-2,012.76	-648.71	1,750.36	1,699.53	50.83	34.438		
10,300.00	9,330.00	8,698.43	7,888.33	40.45	33.39	-34.95	-2,010.61	-736.74	1,751.96	1,699.63	52.33	33.480		
10,400.00	9,330.00	8,815.05	7,885.19	41.72	35.29	-34.85	-2,008.98	-853.30	1,753.31	1,699.13	54.17	32.364		
10,500.00	9,330.00	8,893.00	7,883.95	43.09	36.60	-34.83	-2,009.21	-931.24	1,754.78	1,698.95	55.84	31.427		
10,600.00	9,330.00	8,970.17	7,881.71	44.53	37.95	-34.80	-2,009.72	-1,008.37	1,757.54	1,699.98	57.56	30.533		
10,700.00	9,330.00	9,105.73	7,877.25	46.04	40.40	-34.71	-2,009.47	-1,143.86	1,760.10	1,700.26	59.85	29.411		
10,800.00	9,330.00	9,192.95	7,875.33	47.62	42.02	-34.67	-2,009.40	-1,231.05	1,761.85	1,700.06	61.79	28.513		
10,900.00	9,330.00	9,267.00	7,872.53	49.26	43.42	-34.62	-2,009.53	-1,305.05	1,764.97	1,701.32	63.65	27.730		
11,000.00	9,330.00	9,400.26	7,869.05	50.94	45.99	-34.59	-2,011.11	-1,438.24	1,767.75	1,701.58	66.17	26.715		
11,100.00	9,330.00	9,491.65	7,869.04	52.68	47.78	-34.67	-2,013.93	-1,529.59	1,769.50	1,701.08	68.42	25.861		
11,200.00	9,330.00	9,561.50	7,868.17	54.45	49.16	-34.72	-2,016.61	-1,599.37	1,772.67	1,702.19	70.48	25.151		
11,300.00	9,330.00	9,630.39	7,865.86	56.27	50.54	-34.75	-2,019.25	-1,668.18	1,777.56	1,705.03	72.53	24.508		
11,400.00	9,330.00	9,805.41	7,861.28	58.12	54.10	-34.82	-2,025.37	-1,843.00	1,782.00	1,706.19	75.81	23.506		
11,500.00	9,330.00	9,897.20	7,861.74	60.00	55.99	-34.90	-2,028.22	-1,934.75	1,783.36	1,705.10	78.26	22.788		
11,600.00	9,330.00	9,968.52	7,860.82	61.91	57.46	-34.94	-2,030.40	-2,006.03	1,786.14	1,705.67	80.47	22.196		
11,700.00	9,330.00	10,039.07	7,858.61	63.85	58.93	-34.96	-2,032.79	-2,076.50	1,790.60	1,707.93	82.67	21.660		
11,800.00	9,330.00	10,110.00	7,855.14	65.81	60.42	-34.96	-2,035.27	-2,147.30	1,796.59	1,711.74	84.85	21.173		
11,900.00	9,330.00	10,183.79	7,850.23	67.79	61.97	-34.94	-2,037.94	-2,220.88	1,804.10	1,717.05	87.05	20.725		
12,000.00	9,330.00	10,348.05	7,840.24	69.79	65.46	-34.88	-2,042.69	-2,384.75	1,810.75	1,720.45	90.30	20.052		
12,100.00	9,330.00	10,433.10	7,836.21	71.81	67.28	-34.84	-2,043.94	-2,469.70	1,815.51	1,722.86	92.65	19.595		
12,200.00	9,330.00	10,523.92	7,830.20	73.85	69.23	-34.77	-2,045.63	-2,560.30	1,821.90	1,726.86	95.05	19.169		
12,300.00	9,330.00	10,690.15	7,821.11	75.91	72.83	-34.58	-2,044.61	-2,726.27	1,825.93	1,727.79	98.14	18.606		
12,400.00	9,330.00	10,749.49	7,817.48	77.97	74.12	-34.49	-2,043.65	-2,785.49	1,829.79	1,729.64	100.15	18.270		
12,500.00	9,330.00	10,879.34	7,809.53	80.05	76.96	-34.28	-2,041.16	-2,915.07	1,833.75	1,730.95	102.79	17.839		
12,600.00	9,330.00	10,971.26	7,804.63	82.15	78.97	-34.15	-2,039.24	-3,006.84	1,836.94	1,731.84	105.11	17.477		
12,700.00	9,330.00	11,109.20	7,797.31	84.25	82.00	-33.95	-2,036.81	-3,144.55	1,840.68	1,732.84	107.84	17.069		
12,800.00	9,330.00	11,215.08	7,795.76	86.36	84.34	-33.90	-2,035.85	-3,250.42	1,841.31	1,730.85	110.46	16.670		
12,900.00	9,330.00	11,295.90	7,793.54	88.49	86.13	-33.84	-2,034.95	-3,331.20	1,842.92	1,730.13	112.79	16.339		
13,000.00	9,330.00	11,371.13	7,790.56	90.62	87.80	-33.76	-2,034.26	-3,406.37	1,845.68	1,730.64	115.04	16.044		
13,100.00	9,330.00	11,473.66	7,785.08	92.76	90.07	-33.65	-2,033.38	-3,508.75	1,849.63	1,732.12	117.50	15.741		
13,200.00	9,330.00	11,627.31	7,781.92	94.91	93.49	-33.59	-2,033.30	-3,662.35	1,851.13	1,730.48	120.66	15.342		
13,300.00	9,330.00	11,711.48	7,781.11	97.07	95.36	-33.57	-2,033.41	-3,746.51	1,851.97	1,728.82	123.15	15.039		
13,400.00	9,330.00	11,787.52	7,779.68	99.23	97.06	-33.56	-2,033.98	-3,822.54	1,853.92	1,728.38	125.54	14.767		
13,500.00	9,330.00	12,004.36	7,779.36	101.40	101.91	-33.47	-2,030.81	-4,039.30	1,852.99	1,723.78	129.20	14.342		
13,600.00	9,330.00	12,090.73	7,780.86	103.58	103.85	-33.42	-2,027.79	-4,125.61	1,849.58	1,717.91	131.67	14.047		
13,700.00	9,330.00	12,167.00	7,781.19	105.76	105.56	-33.35	-2,025.13	-4,201.83	1,847.26	1,713.25	134.01	13.784		
13,799.21	9,330.00	12,235.04	7,780.47	107.93	107.10	-33.28	-2,023.06	-4,269.84	1,846.43	1,710.20	136.23	13.554		
13,800.00	9,330.00	12,235.59	7,780.46	107.94	107.11	-33.28	-2,023.05	-4,270.39	1,846.43	1,710.18	136.25	13.552		
13,900.00	9,330.00	12,312.04	7,778.57	110.13	108.83	-33.20	-2,021.25	-4,346.79	1,847.15	1,708.64	138.51	13.336		
14,000.00	9,330.00	12,401.88	7,775.26	112.33	110.85	-33.09	-2,019.07	-4,436.54	1,848.85	1,708.03	140.82	13.129		
14,100.00	9,330.00	12,417.00	7,774.68	114.53	111.19	-33.07	-2,018.70	-4,451.65	1,852.64	1,710.25	142.39	13.011		
14,147.61	9,330.00	12,417.00	7,774.68	115.58	111.19	-33.07	-2,018.70	-4,451.65	1,856.31	1,713.35	142.95	12.985 SF		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH													Offset Site Error:
Survey Program: 98-GYRO-NS-CT, 1250-MWD+HDGM													0.00 usft
Reference: Offset Semi-Major Axis Distance													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.30	0.00	180.00	-61.00	0.00	61.00				
100.00	100.00	100.05	100.05	3.30	0.12	179.88	-60.96	0.13	60.96	57.53	3.43	17.789	
156.74	156.74	156.74	156.74	3.32	0.33	179.75	-60.93	0.26	60.93	57.29	3.64	16.725	
200.00	200.00	199.98	199.98	3.34	0.48	179.66	-60.94	0.36	60.95	57.13	3.81	15.982	
300.00	300.00	300.27	300.26	3.41	0.83	179.49	-60.81	0.54	60.81	56.57	4.23	14.361	
400.00	400.00	401.02	401.01	3.51	1.18	179.32	-59.67	0.71	59.68	54.99	4.69	12.717	
500.00	500.00	501.27	501.24	3.65	1.54	179.02	-57.68	0.99	57.70	52.51	5.18	11.134	
600.00	600.00	601.08	601.03	3.82	1.89	178.93	-55.58	1.04	55.60	49.90	5.70	9.756	
700.00	700.00	700.42	700.36	4.01	2.24	178.51	-54.22	1.41	54.24	48.00	6.24	8.693	
740.11	740.11	740.17	740.11	4.09	2.38	178.20	-54.08	1.70	54.11	47.65	6.46	8.374 CC	
800.00	800.00	799.65	799.59	4.22	2.59	177.57	-54.31	2.30	54.36	47.56	6.80	7.994	
900.00	900.00	899.49	899.41	4.46	2.94	176.07	-55.35	3.81	55.48	48.10	7.38	7.517	
1,000.00	1,000.00	999.71	999.61	4.71	3.29	174.76	-56.08	5.14	56.31	48.33	7.98	7.057	
1,100.00	1,100.00	1,099.70	1,099.60	4.97	3.64	174.11	-56.66	5.85	56.97	48.38	8.59	6.632	
1,200.00	1,200.00	1,199.39	1,199.28	5.24	3.85	173.90	-57.57	6.15	57.90	48.83	9.08	6.380	
1,300.00	1,300.00	1,299.09	1,298.97	5.52	3.96	174.05	-59.09	6.16	59.42	49.96	9.47	6.277	
1,400.00	1,400.00	1,398.33	1,398.19	5.82	4.01	174.10	-61.21	6.32	61.56	51.75	9.81	6.276	
1,500.00	1,500.00	1,497.03	1,496.79	6.11	4.10	172.49	-64.83	8.54	65.47	55.28	10.18	6.429	
1,600.00	1,600.00	1,595.57	1,595.10	6.42	4.21	169.67	-70.05	12.77	71.37	60.78	10.59	6.741	
1,700.00	1,700.00	1,694.27	1,693.46	6.73	4.35	166.94	-76.70	17.80	79.01	67.98	11.03	7.166	
1,800.00	1,800.00	1,792.43	1,791.13	7.04	4.52	164.30	-84.40	23.72	88.12	76.63	11.49	7.672	
1,900.00	1,899.99	1,890.29	1,888.32	7.35	4.72	6.50	-93.58	30.47	98.25	86.29	11.95	8.219	
2,000.00	1,999.96	1,991.91	1,989.25	7.64	4.94	4.86	-103.35	37.15	106.89	94.41	12.48	8.568	
2,100.00	2,099.86	2,091.73	2,088.55	7.94	5.19	4.18	-112.14	42.08	112.52	99.52	13.00	8.656	
2,200.00	2,199.68	2,190.28	2,186.53	8.24	5.44	3.95	-121.72	46.58	117.15	103.62	13.53	8.660	
2,300.00	2,299.37	2,291.78	2,287.46	8.55	5.72	3.28	-131.01	52.14	119.82	105.72	14.11	8.494	
2,400.00	2,398.90	2,391.56	2,386.68	8.87	6.01	1.88	-138.97	58.96	120.21	105.53	14.68	8.187	
2,500.00	2,498.26	2,490.15	2,484.60	9.19	6.30	-0.09	-146.99	67.16	119.68	104.42	15.26	7.844	
2,600.00	2,597.40	2,589.23	2,582.85	9.52	6.61	-2.60	-155.54	76.75	118.62	102.77	15.85	7.483	
2,700.00	2,696.39	2,689.16	2,681.99	9.85	6.93	-4.30	-165.05	84.77	116.62	100.15	16.47	7.081	
2,800.00	2,795.38	2,787.58	2,779.58	10.19	7.26	-5.42	-175.56	91.94	115.33	98.26	17.07	6.754	
2,822.52	2,817.66	2,809.57	2,801.36	10.27	7.34	-5.67	-178.12	93.63	115.28	98.07	17.21	6.698	
2,900.00	2,894.36	2,887.98	2,878.97	10.54	7.61	-6.54	-187.41	99.80	115.34	97.62	17.72	6.509	
3,000.00	2,993.35	2,989.86	2,980.09	10.89	7.96	-7.64	-197.81	106.65	113.43	95.04	18.39	6.167	
3,100.00	3,092.33	3,089.64	3,079.19	11.24	8.30	-8.50	-207.75	112.65	110.98	91.93	19.04	5.828	
3,200.00	3,191.32	3,189.56	3,178.39	11.60	8.65	-9.46	-217.91	118.91	108.86	89.15	19.70	5.525	
3,300.00	3,290.30	3,294.91	3,283.21	11.96	9.01	-10.77	-226.58	124.65	104.73	84.31	20.42	5.129	
3,400.00	3,389.29	3,396.08	3,384.22	12.33	9.35	-12.70	-231.01	128.45	96.52	75.43	21.09	4.577	
3,500.00	3,488.27	3,495.37	3,483.36	12.69	9.67	-14.99	-235.04	132.00	88.08	66.32	21.76	4.048	
3,600.00	3,587.26	3,594.96	3,582.79	13.06	10.01	-17.72	-239.25	135.63	79.99	57.55	22.44	3.564	
3,700.00	3,686.24	3,693.45	3,681.11	13.44	10.34	-22.05	-242.72	140.39	72.49	49.35	23.14	3.133	
3,778.76	3,764.20	3,767.98	3,755.25	13.73	10.60	-26.28	-246.92	146.56	70.08	46.43	23.65	2.963	
3,800.00	3,785.23	3,788.78	3,775.87	13.81	10.67	-27.45	-248.56	148.76	70.19	46.39	23.80	2.949 ES	
3,900.00	3,884.21	3,888.24	3,874.40	14.19	11.04	-32.83	-256.79	159.59	71.58	47.04	24.54	2.917	
4,000.00	3,983.20	3,988.47	3,973.72	14.57	11.42	-38.13	-264.81	170.36	73.33	48.01	25.32	2.896	
4,100.00	4,082.18	4,088.51	4,072.94	14.95	11.79	-43.57	-272.12	180.87	75.19	49.08	26.11	2.880	
4,200.00	4,181.17	4,188.39	4,172.04	15.33	12.16	-49.00	-278.94	191.22	77.41	50.50	26.91	2.876 SF	
4,300.00	4,280.15	4,288.31	4,271.23	15.71	12.53	-54.40	-285.31	201.53	80.16	52.43	27.73	2.891	
4,400.00	4,379.14	4,388.28	4,370.53	16.10	12.89	-59.83	-291.03	211.53	83.18	54.63	28.55	2.913	
4,500.00	4,478.12	4,487.87	4,469.47	16.48	13.26	-64.75	-296.83	221.35	86.75	57.38	29.37	2.954	
4,600.00	4,577.11	4,587.18	4,567.95	16.87	13.64	-67.91	-304.72	231.41	91.07	60.91	30.17	3.019	
4,700.00	4,676.09	4,687.05	4,666.88	17.26	14.03	-70.31	-313.42	241.94	95.99	65.02	30.97	3.100	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Palt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Palt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 98-GYRO-NS-CT: 1250-MWD+HDGM													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Reference		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Tooface (")	+N/S (usft)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
4,800.00	4,775.08	4,787.21	4,766.19	17.65	14.41	-72.83	-321.56	252.12	100.75	68.98	31.77	3.171		
4,900.00	4,874.06	4,886.86	4,865.06	18.04	14.79	-75.45	-329.08	262.01	105.56	72.99	32.57	3.241		
5,000.00	4,973.04	4,987.06	4,964.53	18.43	15.17	-78.11	-336.17	271.79	110.51	77.12	33.38	3.310		
5,100.00	5,072.03	5,087.32	5,064.14	18.82	15.55	-80.87	-342.71	281.05	115.30	81.11	34.19	3.372		
5,200.00	5,171.01	5,190.42	5,166.66	19.22	15.94	-83.33	-350.32	288.84	118.49	83.46	35.02	3.383		
5,300.00	5,270.00	5,290.85	5,266.51	19.61	16.32	-85.22	-359.00	295.29	120.36	84.55	35.82	3.361		
5,400.00	5,368.98	5,391.14	5,366.29	20.01	16.69	-87.35	-367.19	301.15	122.01	85.40	36.61	3.333		
5,500.00	5,467.97	5,491.41	5,466.17	20.40	17.06	-89.94	-374.49	306.27	123.51	86.11	37.40	3.303		
5,600.00	5,566.95	5,591.37	5,565.80	20.80	17.43	-92.83	-381.16	310.78	125.01	86.83	38.18	3.274		
5,700.00	5,665.94	5,691.15	5,665.32	21.19	17.79	-96.04	-387.05	314.88	126.86	87.91	38.94	3.258		
5,800.00	5,764.92	5,789.01	5,762.98	21.59	18.14	-99.46	-391.94	318.70	129.43	89.75	39.68	3.262		
5,900.00	5,863.91	5,885.36	5,859.17	21.99	18.47	-103.19	-394.41	323.56	134.84	94.47	40.37	3.340		
6,000.00	5,962.89	5,983.46	5,957.09	22.39	18.81	-106.91	-395.31	329.51	142.66	101.60	41.05	3.475		
6,100.00	6,061.88	6,082.80	6,056.08	22.79	19.17	-109.34	-397.94	337.34	151.11	109.34	41.77	3.617		
6,200.00	6,160.86	6,184.84	6,157.59	23.18	19.55	-110.75	-402.61	346.57	159.24	116.68	42.55	3.742		
6,300.00	6,259.85	6,293.18	6,265.13	23.58	19.97	-111.23	-411.97	355.65	164.07	120.69	43.38	3.782		
6,400.00	6,358.83	6,404.77	6,375.65	23.98	20.40	-111.81	-426.52	359.82	162.49	118.42	44.08	3.687		
6,500.00	6,457.82	6,499.88	6,470.05	24.38	20.75	-113.25	-438.10	360.59	159.55	114.69	44.86	3.557		
6,600.00	6,556.80	6,598.20	6,567.79	24.78	21.11	-114.99	-448.70	361.84	158.12	112.53	45.59	3.468		
6,700.00	6,655.79	6,697.83	6,666.87	25.19	21.48	-116.80	-459.04	363.37	157.32	111.01	46.30	3.397		
6,800.00	6,754.77	6,797.96	6,766.49	25.59	21.84	-118.83	-469.03	364.55	156.79	109.79	47.00	3.336		
6,900.00	6,853.76	6,897.75	6,865.92	25.99	22.18	-122.19	-477.23	362.54	156.12	108.50	47.63	3.278		
6,914.15	6,867.76	6,911.63	6,879.75	26.05	22.23	-122.71	-478.27	362.16	156.11	108.40	47.71	3.272		
7,000.00	6,952.74	6,995.70	6,963.59	26.39	22.51	-126.06	-483.93	359.60	156.70	108.49	48.21	3.250		
7,100.00	7,051.73	7,090.89	7,058.56	26.79	22.80	-130.95	-487.67	354.41	159.62	110.91	48.71	3.277		
7,200.00	7,150.71	7,186.99	7,154.50	27.20	23.09	-136.09	-488.34	349.06	166.71	117.57	49.14	3.393		
7,300.00	7,249.70	7,288.85	7,256.20	27.60	23.39	-141.04	-489.55	343.32	174.66	125.03	49.63	3.519		
7,400.00	7,348.68	7,394.33	7,360.37	28.00	23.69	-148.32	-492.74	328.48	180.61	130.60	50.01	3.611		
7,500.00	7,447.67	7,485.30	7,445.03	28.40	23.90	-160.13	-494.97	295.69	190.21	140.23	49.98	3.806		
7,600.00	7,546.65	7,584.33	7,513.64	28.81	24.05	-172.21	-497.17	256.62	211.92	162.67	49.26	4.303		
7,700.00	7,645.64	7,630.31	7,567.62	29.21	24.17	178.07	-498.32	218.71	249.06	201.39	47.67	5.225		
7,800.00	7,744.62	7,695.19	7,618.46	29.62	24.27	169.87	-498.15	178.41	299.01	252.79	46.22	6.469		
7,900.00	7,843.61	7,755.68	7,664.30	30.02	24.37	163.50	-497.90	138.96	357.08	312.09	44.99	7.937		
8,000.00	7,942.61	7,803.22	7,698.50	30.42	24.45	159.24	-497.90	105.95	421.88	378.41	43.47	9.705		
8,100.00	8,041.80	7,842.81	7,724.76	30.82	24.52	156.19	-498.36	76.33	492.14	450.21	41.93	11.737		
8,200.00	8,141.20	7,883.37	7,749.82	31.21	24.60	153.38	-499.49	44.47	566.17	525.37	40.80	13.878		
8,300.00	8,240.78	7,928.04	7,776.26	31.59	24.71	150.68	-501.20	8.50	642.47	602.35	40.12	16.013		
8,400.00	8,340.50	7,969.00	7,799.59	31.95	24.84	148.65	-502.77	-25.12	720.61	681.09	39.51	18.238		
8,500.00	8,440.33	7,989.03	7,810.48	32.31	24.92	148.15	-503.40	-41.93	800.67	762.32	38.35	20.880		
8,600.00	8,540.25	8,016.00	7,824.21	32.67	25.05	147.38	-503.98	-65.12	882.85	845.21	37.64	23.452		
8,700.00	8,640.23	8,016.00	7,824.21	33.01	25.05	148.20	-503.98	-65.12	966.73	930.40	36.32	26.614		
8,800.00	8,740.22	8,042.22	7,836.46	33.33	25.19	63.68	-504.28	-88.31	1,051.65	1,015.70	35.95	29.255		
8,900.00	8,839.30	8,062.00	7,844.91	33.65	25.30	50.38	-504.36	-106.18	1,135.30	1,099.89	35.41	32.060		
9,000.00	8,934.70	8,077.61	7,851.07	33.97	25.40	41.00	-504.48	-120.53	1,214.59	1,179.81	34.79	34.915		
9,100.00	9,023.51	8,109.00	7,861.98	34.28	25.60	34.60	-505.22	-149.94	1,288.00	1,253.48	34.52	37.309		
9,200.00	9,103.04	8,109.00	7,861.98	34.56	25.60	29.94	-505.22	-149.94	1,353.76	1,320.00	33.76	40.098		
9,300.00	9,171.76	8,156.00	7,875.28	34.82	25.95	26.25	-506.99	-194.98	1,410.28	1,376.41	33.87	41.634		
9,400.00	9,229.96	8,177.31	7,880.28	35.03	26.12	23.19	-507.83	-215.68	1,455.89	1,422.32	33.57	43.366		
9,500.00	9,276.00	8,203.00	7,885.37	35.20	26.33	21.18	-508.79	-240.83	1,489.93	1,456.54	33.38	44.631		
9,600.00	9,308.48	8,231.57	7,889.81	35.37	26.59	19.92	-509.50	-269.04	1,511.96	1,478.64	33.31	45.384		
9,700.00	9,326.41	8,249.00	7,891.85	35.61	26.74	19.24	-509.62	-286.35	1,521.91	1,488.62	33.29	45.723		
9,800.00	9,330.00	8,302.89	7,895.97	36.01	27.27	19.13	-509.46	-340.08	1,519.36	1,485.73	33.63	45.179		

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 (113-123-133-203) - No. 123H - OH - OH											Offset Site Error: 0.00 usft		
Survey Program: 98-GYRO-NS-CT, 1250-MWD+HDGM											Offset Well Error: 0.00 usft		
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Offset-Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,900.00	9,330.00	8,343.00	7,897.18	36.62	27.67	19.15	-509.13	-380.17	1,516.82	1,482.81	34.01	44.596	
9,925.99	9,330.00	8,360.59	7,897.30	36.81	27.87	19.16	-508.96	-397.75	1,516.74	1,482.57	34.17	44.383	
10,000.00	9,330.00	8,408.78	7,896.98	37.40	28.40	19.17	-508.68	-445.95	1,517.37	1,482.74	34.63	43.814	
10,100.00	9,330.00	8,483.34	7,894.82	38.34	29.30	19.14	-508.79	-520.48	1,520.04	1,484.68	35.36	42.990	
10,200.00	9,330.00	8,612.89	7,890.10	39.41	31.00	19.04	-510.23	-649.92	1,523.36	1,487.01	36.34	41.916	
10,300.00	9,330.00	8,717.00	7,888.36	40.58	32.50	18.97	-511.66	-754.01	1,524.50	1,487.14	37.36	40.807	
10,400.00	9,330.00	8,798.67	7,886.25	41.85	33.76	18.88	-513.45	-835.63	1,526.27	1,487.93	38.33	39.818	
10,500.00	9,330.00	8,881.88	7,882.78	43.21	35.10	18.74	-516.14	-918.72	1,529.19	1,489.84	39.35	38.860	
10,600.00	9,330.00	9,029.08	7,878.70	44.65	37.58	18.58	-519.39	-1,065.80	1,531.14	1,490.32	40.82	37.508	
10,700.00	9,330.00	9,121.65	7,878.21	46.16	39.21	18.57	-519.61	-1,158.37	1,531.61	1,489.52	42.09	36.388	
10,800.00	9,330.00	9,203.18	7,876.72	47.74	40.68	18.54	-520.18	-1,239.88	1,533.13	1,489.81	43.32	35.394	
10,900.00	9,330.00	9,294.80	7,873.71	49.37	42.38	18.44	-522.08	-1,331.43	1,535.60	1,490.98	44.62	34.416	
11,000.00	9,330.00	9,403.56	7,871.57	51.05	44.44	18.45	-521.03	-1,440.15	1,537.79	1,491.62	46.18	33.302	
11,100.00	9,330.00	9,495.52	7,870.11	52.78	46.22	18.51	-518.97	-1,532.08	1,540.04	1,492.36	47.68	32.300	
11,200.00	9,330.00	9,667.25	7,868.68	54.55	49.60	18.61	-515.76	-1,703.74	1,542.27	1,492.30	49.97	30.863	
11,300.00	9,330.00	9,758.73	7,870.67	56.37	51.45	18.70	-514.04	-1,795.18	1,540.81	1,489.21	51.59	29.865	
11,400.00	9,330.00	9,838.00	7,871.91	58.21	53.06	18.73	-513.52	-1,874.44	1,539.65	1,486.56	53.09	29.003	
11,426.37	9,330.00	9,861.69	7,872.03	58.71	53.54	18.73	-513.53	-1,898.13	1,539.53	1,486.02	53.51	28.772	
11,500.00	9,330.00	9,906.89	7,871.56	60.09	54.47	18.72	-513.65	-1,943.32	1,540.21	1,485.74	54.47	28.275	
11,600.00	9,330.00	9,973.02	7,869.37	62.00	55.83	18.69	-513.91	-2,009.42	1,543.21	1,487.39	55.83	27.644	
11,700.00	9,330.00	10,055.61	7,865.07	63.93	57.54	18.65	-513.82	-2,091.89	1,548.14	1,490.80	57.34	27.000	
11,800.00	9,330.00	10,162.04	7,860.15	65.89	59.77	18.62	-512.86	-2,198.21	1,552.81	1,493.69	59.12	26.264	
11,900.00	9,330.00	10,250.88	7,855.43	67.87	61.64	18.57	-512.77	-2,286.91	1,557.91	1,497.18	60.72	25.656	
12,000.00	9,330.00	10,346.25	7,849.32	69.87	63.65	18.46	-513.91	-2,382.09	1,563.62	1,501.28	62.33	25.084	
12,100.00	9,330.00	10,448.53	7,841.82	71.89	65.82	18.23	-518.38	-2,483.98	1,569.24	1,505.36	63.87	24.568	
12,200.00	9,330.00	10,545.93	7,836.29	73.93	67.90	18.19	-517.68	-2,581.22	1,574.88	1,509.27	65.60	24.006	
12,300.00	9,330.00	10,714.17	7,830.34	75.98	71.53	18.22	-515.00	-2,749.30	1,578.96	1,510.78	68.18	23.159	
12,400.00	9,330.00	10,822.53	7,829.33	78.04	73.88	18.21	-514.91	-2,857.66	1,579.88	1,509.78	70.10	22.537	
12,500.00	9,330.00	10,913.01	7,828.00	80.12	75.84	18.17	-515.73	-2,948.12	1,581.02	1,509.22	71.80	22.019	
12,600.00	9,330.00	11,000.58	7,825.74	82.21	77.75	18.09	-517.38	-3,035.65	1,582.91	1,509.49	73.42	21.559	
12,700.00	9,330.00	11,087.50	7,822.52	84.31	79.65	17.97	-519.82	-3,122.48	1,585.60	1,510.62	74.98	21.147	
12,800.00	9,330.00	11,174.63	7,818.41	86.43	81.56	17.84	-522.56	-3,209.47	1,589.13	1,512.62	76.51	20.770	
12,900.00	9,330.00	11,257.31	7,813.70	88.55	83.37	17.68	-525.74	-3,291.95	1,593.45	1,515.50	77.95	20.442	
13,000.00	9,330.00	11,322.90	7,808.94	90.68	84.81	17.56	-527.61	-3,357.33	1,599.53	1,520.28	79.25	20.184	
13,100.00	9,330.00	11,390.49	7,802.87	92.82	86.29	17.47	-528.58	-3,424.65	1,607.69	1,527.12	80.57	19.954	
13,200.00	9,330.00	11,481.69	7,793.41	94.97	88.30	17.36	-528.88	-3,515.35	1,617.48	1,535.32	82.16	19.688	
13,300.00	9,330.00	11,629.76	7,780.95	97.12	91.56	17.29	-527.23	-3,662.88	1,625.98	1,541.47	84.50	19.242	
13,400.00	9,330.00	11,768.05	7,774.06	99.28	94.64	17.34	-523.46	-3,800.94	1,631.60	1,544.65	86.94	18.767	
13,500.00	9,330.00	11,872.68	7,770.66	101.45	96.97	17.41	-520.59	-3,905.48	1,635.53	1,546.52	89.01	18.376	
13,600.00	9,330.00	11,975.24	7,766.79	103.63	99.26	17.42	-519.16	-4,007.95	1,639.56	1,548.60	90.96	18.025	
13,700.00	9,330.00	12,064.17	7,762.79	105.81	101.24	17.36	-519.63	-4,096.78	1,643.73	1,551.08	92.64	17.742	
13,800.00	9,330.00	12,171.30	7,756.83	107.99	103.63	17.20	-522.63	-4,203.70	1,648.25	1,553.91	94.34	17.471	
13,900.00	9,330.00	12,287.35	7,750.45	110.18	106.21	16.91	-529.45	-4,319.37	1,651.80	1,555.91	95.89	17.227	
14,000.00	9,330.00	12,390.57	7,744.70	112.38	108.51	16.58	-537.84	-4,422.09	1,654.82	1,557.64	97.18	17.029	
14,100.00	9,330.00	12,470.00	7,740.27	114.58	110.27	16.32	-544.48	-4,501.12	1,657.97	1,559.65	98.32	16.864	
14,147.61	9,330.00	12,470.00	7,740.27	115.63	110.27	16.32	-544.48	-4,501.12	1,660.68	1,562.05	98.63	16.837	

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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at:	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

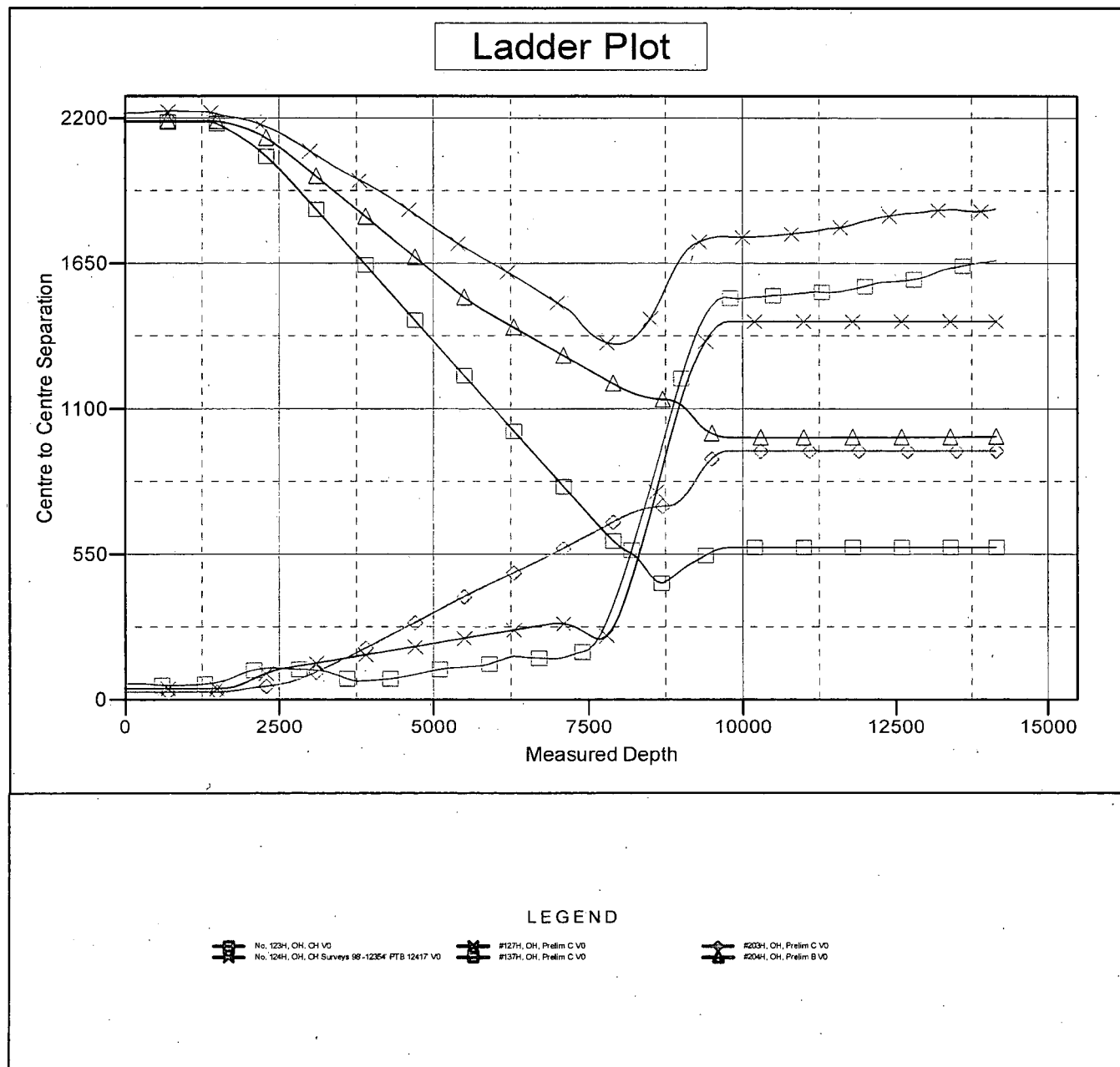
Reference Depths are relative to 3247 + 28.5 = KB @ 3275.50usft (Pat Coordinates are relative to: #227H)

Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.12°



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

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #227H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3247 + 28.5 = KB @ 3275.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#227H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore:	OH	Database:	WellPlanner1
Reference Design:	Prelim D	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3247 + 28.5 = KB @ 3275.50usft (Pat Coordinates are relative to: #227H)

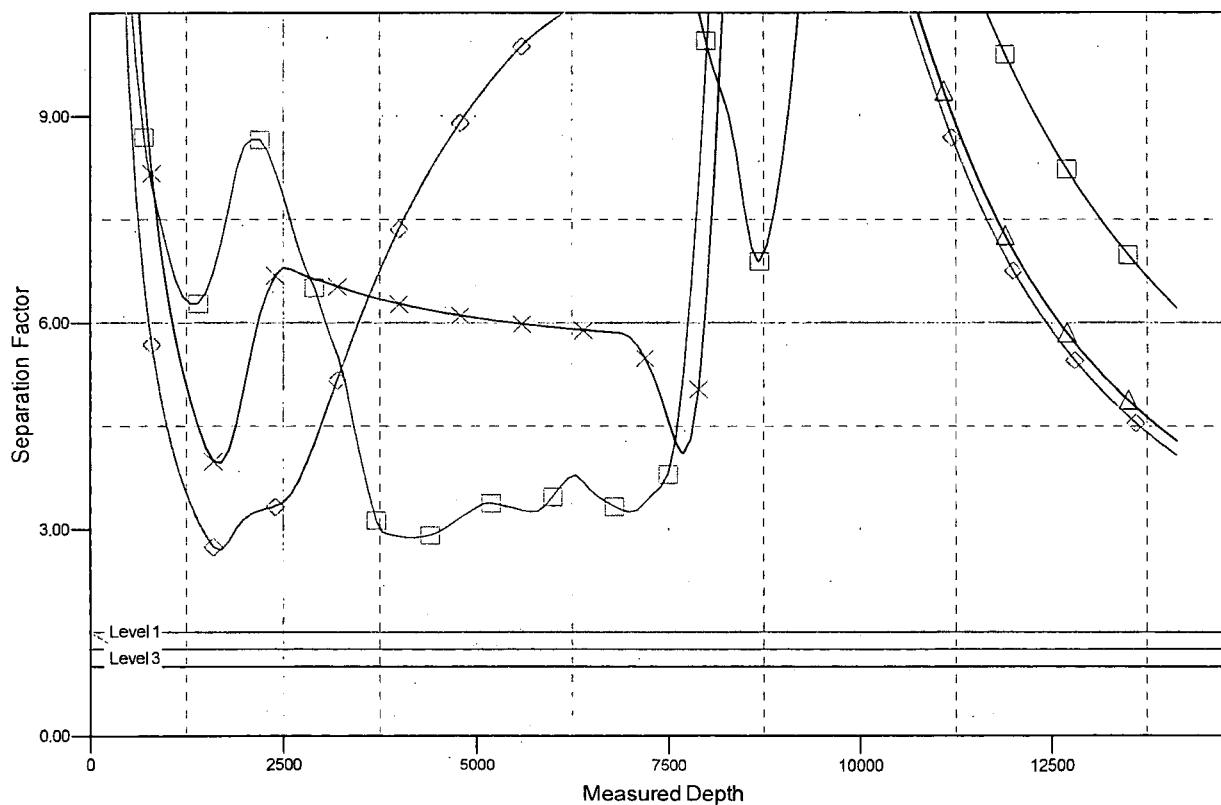
Offset Depths are relative to Offset Datum

Central Meridian is -104.333334

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.12°

Separation Factor Plot



LEGEND

No. 123H, OH, OH V0
 No. 124H, OH, OH Surveys 08-12354 PTB 12417 V0
 #127H, OH, Prelim C V0
 #137H, OH, Prelim C V0
 #203H, OH, Prelim C V0
 #204H, OH, Prelim B V0