

Matador Resources

Eddy County, NM (NAD27)

Stebbins Federal 19

#137H

OH

Prelim C

Anticollision Report

14 March, 2019

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Palt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Palt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Reference	Prelim C		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 10,000.00 u	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date 3/14/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	13,623.51	Prelim C (OH)	MWD+HDGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Stebbins Federal 19						
#127H - OH - Prelim C	7,778.30	7,789.94	433.38	377.94	7.818	CC, ES, SF
#203H - OH - Prelim C	8,892.23	8,711.49	1,125.31	1,061.72	17.698	CC
#203H - OH - Prelim C	13,571.20	14,098.98	1,194.60	989.41	5.822	ES
#203H - OH - Prelim C	13,623.51	14,090.45	1,196.14	989.94	5.801	SF
#204H - OH - Prelim B	1,400.00	1,400.00	30.00	20.42	3.133	CC
#204H - OH - Prelim B	1,600.00	1,599.74	30.34	19.34	2.757	ES
#204H - OH - Prelim B	1,700.00	1,699.61	31.34	19.62	2.674	SF
#227H - OH - Prelim D	8,745.62	8,682.08	441.47	377.40	6.890	CC, ES
#227H - OH - Prelim D	13,577.14	14,152.32	575.75	482.90	6.201	SF
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	0.00	0.00	43.15			
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	200.00	198.84	43.43	41.75	25.781	ES
No. 124H - OH - OH Surveys 98'-12354' PTB 12417'	1,700.00	1,700.37	64.86	54.54	6.287	SF
Stebbins Federal 19 (113-123-133-203)						
No. 123H - OH - OH	7,737.64	7,642.00	880.16	828.71	17.109	CC, ES
No. 123H - OH - OH	13,600.00	12,470.00	1,177.69	1,044.56	8.846	SF
Stebbins Federal 20 (114-124-134-204)						
#204H - OH - OH Surveys 58.5'-13987' PTB 14084'	8,214.87	8,206.37	136.63	76.16	2.260	CC, ES, SF
No. 124H - OH - MWD	3,360.56	3,372.57	235.94	213.10	10.329	CC
No. 124H - OH - MWD	3,400.00	3,409.35	236.21	213.10	10.220	ES
No. 124H - OH - MWD	3,800.00	3,799.08	251.77	225.88	9.726	SF
No. 134H - OH - Gyro-MWD	3,549.52	3,549.42	234.34	209.91	9.593	CC
No. 134H - OH - Gyro-MWD	3,600.00	3,599.28	234.45	209.67	9.461	ES
No. 134H - OH - Gyro-MWD	4,600.00	4,592.62	265.43	233.62	8.344	SF

Offset Design	Stebbins Federal 19 - #127H - 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	
Measured Vertical Depth (usft)	Measured Vertical Depth (usft)	Reference Offset (usft)	Highside Toolface (°)
0.00	0.00	6.00	0.01
100.00	100.00	106.00	0.13
200.00	200.00	206.00	0.49
300.00	300.00	306.00	0.85
Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)
2,137.00	-305.00	2,158.66	2,158.38
2,137.00	-305.00	2,158.66	2,157.66
2,137.00	-305.00	2,158.66	2,156.94
Minimum Separation (usft)	Separation Factor	Warning	
0.28	7,770.097		
0.99	2,170.029		
1.71	1,261.117		

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

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Reference Design:	Prelim C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #127H - 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		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			
400.00	400.00	406.00	406.00	1.20	1.23	-8.12	2,137.00	-305.00	2,158.66	2,156.23	2.43	888.831			
500.00	500.00	506.00	506.00	1.56	1.58	-8.12	2,137.00	-305.00	2,158.66	2,155.51	3.15	886.249			
600.00	600.00	606.00	606.00	1.92	1.94	-8.12	2,137.00	-305.00	2,158.66	2,154.79	3.86	558.871			
700.00	700.00	706.00	706.00	2.28	2.30	-8.12	2,137.00	-305.00	2,158.66	2,154.08	4.58	471.376			
800.00	800.00	806.00	806.00	2.64	2.66	-8.12	2,137.00	-305.00	2,158.66	2,153.36	5.30	407.569			
900.00	900.00	906.00	906.00	3.00	3.02	-8.12	2,137.00	-305.00	2,158.66	2,152.64	6.01	358.977			
1,000.00	1,000.00	1,006.00	1,006.00	3.35	3.38	-8.12	2,137.00	-305.00	2,158.66	2,151.93	6.73	320.737			
1,100.00	1,100.00	1,106.00	1,106.00	3.71	3.73	-8.12	2,137.00	-305.00	2,158.66	2,151.21	7.45	289.860			
1,200.00	1,200.00	1,206.00	1,206.00	4.07	4.09	-8.12	2,137.00	-305.00	2,158.66	2,150.49	8.16	264.405			
1,300.00	1,300.00	1,306.00	1,306.00	4.43	4.45	-8.12	2,137.00	-305.00	2,158.66	2,149.77	8.88	243.061			
1,400.00	1,400.00	1,406.00	1,406.00	4.79	4.81	-8.12	2,137.00	-305.00	2,158.66	2,149.06	9.60	224.905			
1,500.00	1,499.98	1,521.77	1,521.77	5.15	5.22	-14.09	2,136.92	-304.97	2,156.94	2,146.57	10.37	208.043			
1,600.00	1,599.84	1,880.79	1,879.67	5.51	6.42	-14.09	2,113.86	-294.84	2,145.10	2,133.25	11.85	180.960			
1,700.00	1,699.45	2,079.35	2,075.52	5.87	7.12	-14.08	2,084.06	-281.75	2,120.31	2,107.50	12.82	165.441			
1,800.00	1,798.71	2,175.06	2,169.64	6.23	7.47	-14.14	2,068.17	-274.78	2,091.40	2,077.90	13.50	154.912			
1,900.00	1,897.83	2,270.45	2,263.45	6.59	7.82	-14.10	2,052.34	-267.83	2,061.44	2,047.27	14.18	145.414			
2,000.00	1,996.95	2,365.85	2,357.27	6.95	8.18	-14.05	2,036.51	-260.87	2,031.49	2,016.63	14.86	136.741			
2,100.00	2,096.07	2,461.24	2,451.08	7.32	8.55	-14.00	2,020.68	-253.92	2,001.54	1,985.99	15.54	128.794			
2,200.00	2,195.19	2,556.63	2,544.89	7.70	8.92	-13.94	2,004.85	-246.97	1,971.58	1,955.36	16.23	121.492			
2,300.00	2,294.31	2,652.03	2,638.71	8.07	9.30	-13.89	1,989.01	-240.02	1,941.63	1,924.71	16.92	114.762			
2,400.00	2,393.43	2,747.42	2,732.52	8.45	9.68	-13.84	1,973.18	-233.07	1,911.68	1,894.07	17.61	108.544			
2,500.00	2,492.55	2,842.81	2,826.33	8.83	10.06	-13.78	1,957.35	-226.12	1,881.74	1,863.43	18.31	102.783			
2,600.00	2,591.67	2,938.21	2,920.15	9.21	10.45	-13.72	1,941.52	-219.16	1,851.79	1,832.79	19.01	97.433			
2,700.00	2,690.79	3,033.60	3,013.96	9.59	10.83	-13.66	1,925.69	-212.21	1,821.85	1,802.14	19.71	92.453			
2,800.00	2,789.91	3,129.00	3,107.78	9.98	11.22	-13.60	1,909.86	-205.26	1,791.91	1,771.50	20.41	87.807			
2,900.00	2,889.03	3,224.39	3,201.59	10.36	11.62	-13.53	1,894.02	-198.31	1,761.97	1,740.86	21.11	83.463			
3,000.00	2,988.16	3,319.78	3,295.40	10.75	12.01	-13.47	1,878.19	-191.36	1,732.03	1,710.21	21.82	79.394			
3,100.00	3,087.28	3,415.18	3,389.22	11.13	12.41	-13.40	1,862.36	-184.40	1,702.09	1,679.57	22.52	75.575			
3,200.00	3,186.40	3,510.57	3,483.03	11.52	12.81	-13.33	1,846.53	-177.45	1,672.16	1,648.93	23.23	71.985			
3,300.00	3,285.52	3,605.96	3,576.84	11.91	13.21	-13.25	1,830.70	-170.50	1,642.23	1,618.29	23.94	68.604			
3,400.00	3,384.64	3,701.36	3,670.66	12.30	13.61	-13.18	1,814.86	-163.55	1,612.30	1,587.65	24.65	65.414			
3,500.00	3,483.76	3,796.75	3,764.47	12.68	14.01	-13.10	1,799.03	-156.60	1,582.38	1,557.02	25.36	62.401			
3,600.00	3,582.88	3,892.15	3,858.28	13.07	14.41	-13.01	1,783.20	-149.64	1,552.45	1,526.38	26.07	59.549			
3,700.00	3,682.00	3,987.54	3,952.10	13.46	14.82	-12.93	1,767.37	-142.69	1,522.53	1,495.75	26.78	56.848			
3,800.00	3,781.12	4,082.93	4,045.91	13.85	15.22	-12.84	1,751.54	-135.74	1,492.62	1,465.12	27.50	54.285			
3,900.00	3,880.24	4,178.33	4,139.72	14.24	15.63	-12.74	1,735.71	-128.79	1,462.71	1,434.50	28.21	51.850			
4,000.00	3,979.36	4,273.72	4,233.54	14.63	16.03	-12.65	1,719.87	-121.84	1,432.80	1,403.87	28.93	49.534			
4,100.00	4,078.48	4,369.11	4,327.35	15.03	16.44	-12.55	1,704.04	-114.89	1,402.89	1,373.25	29.64	47.329			
4,200.00	4,177.60	4,464.51	4,421.17	15.42	16.85	-12.44	1,688.21	-107.93	1,372.99	1,342.63	30.36	45.228			
4,300.00	4,276.72	4,559.90	4,514.98	15.81	17.26	-12.33	1,672.38	-100.98	1,343.10	1,312.02	31.07	43.222			
4,400.00	4,375.84	4,655.30	4,608.79	16.20	17.67	-12.21	1,656.55	-94.03	1,313.20	1,281.41	31.79	41.306			
4,500.00	4,474.96	4,750.69	4,702.61	16.59	18.07	-12.09	1,640.71	-87.08	1,283.32	1,250.81	32.51	39.474			
4,600.00	4,574.08	4,846.08	4,796.42	16.99	18.49	-11.97	1,624.88	-80.13	1,253.44	1,220.21	33.23	37.720			
4,700.00	4,673.20	4,941.48	4,890.23	17.38	18.90	-11.83	1,609.05	-73.17	1,223.56	1,189.61	33.95	36.040			
4,800.00	4,772.32	5,036.87	4,984.05	17.77	19.31	-11.69	1,593.22	-66.22	1,193.69	1,159.02	34.67	34.430			
4,900.00	4,871.44	5,132.26	5,077.86	18.16	19.72	-11.55	1,577.39	-59.27	1,163.83	1,128.44	35.39	32.885			
5,000.00	4,970.56	5,227.66	5,171.67	18.56	20.13	-11.39	1,561.56	-52.32	1,133.97	1,097.86	36.11	31.401			
5,100.00	5,069.68	5,323.05	5,265.49	18.95	20.54	-11.23	1,545.72	-45.37	1,104.13	1,067.29	36.84	29.975			
5,200.00	5,168.80	5,418.45	5,359.30	19.34	20.95	-11.06	1,529.89	-38.41	1,074.29	1,036.73	37.56	28.603			
5,300.00	5,267.92	5,513.84	5,453.12	19.74	21.37	-10.88	1,514.06	-31.46	1,044.46	1,006.18	38.28	27.283			
5,400.00	5,367.04	5,609.23	5,546.93	20.13	21.78	-10.68	1,498.23	-24.51	1,014.64	975.64	39.01	26.012			
5,500.00	5,466.16	5,704.63	5,640.74	20.53	22.19	-10.48	1,482.40	-17.56	984.83	945.10	39.73	24.787			

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

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Offset Design - Stebbins Federal 19 - #127H - 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 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)				
5,600.00	5,565.28	5,800.02	5,734.56	20.92	22.61	-10.26	1,466.56	-10.61	955.04	914.58	40.46	23.606		
5,700.00	5,664.40	5,904.59	5,828.37	21.31	23.06	-10.03	1,450.73	-3.66	925.26	884.04	41.22	22.447		
5,800.00	5,763.52	5,990.81	5,922.18	21.71	23.44	-9.79	1,434.90	3.30	895.49	853.57	41.91	21.366		
5,900.00	5,862.65	6,086.20	6,016.00	22.10	23.85	-9.53	1,419.07	10.25	865.74	823.09	42.64	20.303		
6,000.00	5,961.77	6,181.60	6,109.81	22.50	24.26	-9.25	1,403.24	17.20	836.00	792.63	43.37	19.276		
6,100.00	6,060.89	6,276.99	6,203.62	22.89	24.68	-8.94	1,387.40	24.15	806.29	762.18	44.10	18.282		
6,200.00	6,160.01	6,372.38	6,297.44	23.29	25.09	-8.62	1,371.57	31.10	776.59	731.76	44.83	17.321		
6,300.00	6,259.13	6,467.78	6,391.25	23.68	25.51	-8.27	1,355.74	38.06	746.93	701.36	45.57	16.391		
6,400.00	6,358.25	6,563.17	6,485.06	24.08	25.93	-7.89	1,339.91	45.01	717.29	670.98	46.30	15.491		
6,500.00	6,457.37	6,658.56	6,578.88	24.47	26.34	-7.48	1,324.08	51.96	687.68	640.64	47.04	14.619		
6,600.00	6,556.49	6,753.96	6,672.69	24.87	26.76	-7.03	1,308.25	58.91	658.10	610.32	47.78	13.773		
6,700.00	6,655.61	6,849.35	6,766.51	25.26	27.17	-6.54	1,292.41	65.86	628.57	580.05	48.52	12.954		
6,800.00	6,754.73	6,936.14	6,851.92	25.66	27.55	-6.06	1,278.33	72.05	599.47	550.15	49.32	12.156		
6,900.00	6,853.85	7,017.19	6,932.02	26.05	27.88	-5.67	1,267.06	77.00	572.64	522.51	50.13	11.423		
7,000.00	6,952.97	7,099.44	7,013.64	26.45	28.21	-5.34	1,257.74	81.09	548.36	497.44	50.92	10.770		
7,100.00	7,052.09	7,182.79	7,096.61	26.84	28.53	-5.09	1,250.50	84.27	526.66	474.98	51.67	10.192		
7,200.00	7,151.21	7,267.11	7,180.75	27.24	28.83	-4.94	1,245.42	86.50	507.57	455.17	52.40	9.687		
7,300.00	7,250.33	7,352.28	7,265.85	27.63	29.12	-4.90	1,242.60	87.74	491.13	438.04	53.09	9.252		
7,400.00	7,349.45	7,445.21	7,358.77	28.03	29.41	-5.10	1,241.90	87.13	477.16	423.40	53.75	8.877		
7,500.00	7,448.57	7,552.53	7,464.74	28.42	29.70	-7.23	1,240.16	71.31	462.39	408.03	54.37	8.505		
7,600.00	7,547.69	7,649.82	7,556.75	28.82	29.93	-11.46	1,236.73	40.23	447.58	392.69	54.89	8.154		
7,700.00	7,646.81	7,733.78	7,630.92	29.21	30.10	-16.88	1,232.43	1.30	436.54	381.21	55.33	7.890		
7,778.30	7,724.43	7,789.94	7,677.00	29.52	30.19	-21.34	1,228.91	-30.58	433.38	377.94	55.44	7.818 CC, ES, SF		
7,800.00	7,745.93	7,804.10	7,688.10	29.61	30.21	-22.56	1,227.95	-39.31	433.65	378.25	55.40	7.827		
7,900.00	7,845.19	7,862.41	7,731.44	30.00	30.29	-27.94	1,223.67	-78.06	443.57	388.81	54.76	8.100		
8,000.00	7,944.81	7,911.04	7,764.39	30.37	30.34	-32.84	1,219.74	-113.59	469.82	416.54	53.28	8.817		
8,100.00	8,044.67	7,950.00	7,788.53	30.73	30.38	-37.10	1,216.39	-143.97	511.51	460.37	51.15	10.001		
8,200.00	8,144.65	7,986.15	7,809.02	31.07	30.40	-19.58	1,213.12	-173.57	566.25	517.32	48.94	11.571		
8,300.00	8,244.13	8,018.25	7,825.61	31.41	30.42	-14.80	1,210.11	-200.88	623.80	577.23	46.57	13.395		
8,400.00	8,340.55	8,050.00	7,840.48	31.78	30.43	-11.21	1,207.03	-228.75	675.37	631.34	44.03	15.340		
8,500.00	8,430.99	8,083.38	7,854.42	32.17	30.44	-8.31	1,203.70	-258.90	720.18	678.72	41.46	17.371		
8,600.00	8,512.70	8,115.82	7,866.24	32.58	30.45	-6.03	1,200.39	-288.92	757.71	718.85	38.86	19.500		
8,700.00	8,583.67	8,150.00	7,876.84	33.01	30.45	-6.27	1,196.82	-321.21	788.29	751.86	36.43	21.641		
8,800.00	8,644.40	8,182.71	7,885.14	33.44	30.45	-7.75	1,193.35	-352.65	815.34	781.07	34.27	23.793		
8,900.00	8,693.48	8,218.88	7,892.21	33.89	30.45	-8.23	1,189.46	-387.91	838.20	805.55	32.65	25.671		
9,000.00	8,729.43	8,250.00	7,896.49	34.39	30.45	-8.36	1,186.08	-418.54	855.86	824.33	31.54	27.139		
9,100.00	8,751.15	8,300.00	7,899.84	34.97	30.47	-7.92	1,180.60	-468.11	867.38	836.13	31.25	27.760		
9,200.00	8,758.00	8,364.18	7,900.00	35.62	30.63	-7.45	1,174.01	-531.95	871.42	839.95	31.47	27.691		
9,300.00	8,758.00	8,460.22	7,900.00	36.38	31.39	-6.98	1,166.77	-627.72	870.47	838.51	31.96	27.236		
9,400.00	8,758.00	8,556.65	7,900.00	37.27	32.34	-6.72	1,162.73	-724.05	869.98	837.41	32.57	26.713		
9,500.00	8,758.00	8,654.20	7,900.00	38.29	33.43	-6.67	1,161.80	-821.59	869.88	836.59	33.28	26.135		
9,600.00	8,758.00	8,754.20	7,900.00	39.43	34.66	-6.66	1,161.71	-921.59	869.88	835.79	34.08	25.521		
9,700.00	8,758.00	8,854.20	7,900.00	40.67	35.99	-6.66	1,161.61	-1,021.59	869.87	834.93	34.94	24.895		
9,800.00	8,758.00	8,954.20	7,900.00	42.00	37.42	-6.66	1,161.52	-1,121.59	869.87	834.01	35.86	24.260		
9,900.00	8,758.00	9,054.20	7,900.00	43.42	38.93	-6.66	1,161.43	-1,221.59	869.87	833.05	36.82	23.623		
10,000.00	8,758.00	9,154.20	7,900.00	44.92	40.51	-6.66	1,161.33	-1,321.59	869.87	832.03	37.84	22.990		
10,100.00	8,758.00	9,254.20	7,900.00	46.48	42.16	-6.66	1,161.24	-1,421.59	869.86	830.97	38.89	22.365		
10,200.00	8,758.00	9,354.20	7,900.00	48.11	43.87	-6.65	1,161.15	-1,521.59	869.86	829.87	39.99	21.751		
10,300.00	8,758.00	9,454.20	7,900.00	49.78	45.63	-6.65	1,161.05	-1,621.59	869.86	828.73	41.13	21.151		
10,400.00	8,758.00	9,554.20	7,900.00	51.51	47.43	-6.65	1,160.96	-1,721.59	869.85	827.56	42.30	20.566		
10,500.00	8,758.00	9,654.20	7,900.00	53.29	49.28	-6.65	1,160.87	-1,821.59	869.85	826.36	43.50	19.999		
10,600.00	8,758.00	9,754.20	7,900.00	55.10	51.17	-6.65	1,160.77	-1,921.59	869.85	825.13	44.72	19.449		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #127H - OH - Prelim C														Offset Site Error:
Survey Program: 0-MWD+HDGM														Offset Well Error:
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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,700.00	8,758.00	9,854.20	7,900.00	56.95	53.08	6.65	1,160.68	-2,021.59	869.85	823.87	45.98	18.918		
10,800.00	8,758.00	9,954.20	7,900.00	58.83	55.03	6.64	1,160.59	-2,121.59	869.84	822.59	47.26	18.406		
10,900.00	8,758.00	10,054.20	7,900.00	60.74	57.00	6.64	1,160.49	-2,221.59	869.84	821.28	48.56	17.913		
11,000.00	8,758.00	10,154.20	7,900.00	62.68	59.00	6.64	1,160.40	-2,321.59	869.84	819.96	49.88	17.438		
11,100.00	8,758.00	10,254.20	7,900.00	64.64	61.02	6.64	1,160.31	-2,421.59	869.84	818.61	51.22	16.981		
11,200.00	8,758.00	10,354.20	7,900.00	66.63	63.06	6.64	1,160.21	-2,521.59	869.83	817.25	52.58	16.543		
11,300.00	8,758.00	10,454.20	7,900.00	68.63	65.12	6.64	1,160.12	-2,621.59	869.83	815.87	53.96	16.121		
11,400.00	8,758.00	10,554.20	7,900.00	70.66	67.19	6.64	1,160.03	-2,721.59	869.83	814.48	55.35	15.716		
11,500.00	8,758.00	10,654.20	7,900.00	72.70	69.28	6.63	1,159.93	-2,821.59	869.82	813.07	56.75	15.327		
11,600.00	8,758.00	10,754.20	7,900.00	74.76	71.38	6.63	1,159.84	-2,921.59	869.82	811.66	58.17	14.954		
11,700.00	8,758.00	10,854.20	7,900.00	76.83	73.49	6.63	1,159.75	-3,021.59	869.82	810.22	59.59	14.596		
11,800.00	8,758.00	10,954.20	7,900.00	78.91	75.62	6.63	1,159.65	-3,121.59	869.82	808.78	61.03	14.252		
11,900.00	8,758.00	11,054.20	7,900.00	81.01	77.75	6.63	1,159.56	-3,221.59	869.81	807.33	62.48	13.921		
12,000.00	8,758.00	11,154.20	7,900.00	83.12	79.90	6.63	1,159.47	-3,321.59	869.81	805.87	63.94	13.603		
12,100.00	8,758.00	11,254.20	7,900.00	85.23	82.05	6.62	1,159.37	-3,421.59	869.81	804.40	65.41	13.298		
12,200.00	8,758.00	11,354.20	7,900.00	87.36	84.21	6.62	1,159.28	-3,521.59	869.81	802.92	66.89	13.004		
12,300.00	8,758.00	11,454.20	7,900.00	89.50	86.38	6.62	1,159.19	-3,621.59	869.80	801.43	68.37	12.722		
12,400.00	8,758.00	11,554.20	7,900.00	91.64	88.56	6.62	1,159.09	-3,721.59	869.80	799.94	69.86	12.450		
12,500.00	8,758.00	11,654.20	7,900.00	93.80	90.74	6.62	1,159.00	-3,821.59	869.80	798.44	71.36	12.189		
12,600.00	8,758.00	11,754.20	7,900.00	95.96	92.93	6.62	1,158.91	-3,921.59	869.79	796.93	72.87	11.937		
12,700.00	8,758.00	11,854.20	7,900.00	98.12	95.12	6.62	1,158.81	-4,021.59	869.79	795.42	74.38	11.694		
12,800.00	8,758.00	11,954.20	7,900.00	100.30	97.32	6.61	1,158.72	-4,121.59	869.79	793.90	75.89	11.461		
12,900.00	8,758.00	12,054.20	7,900.00	102.48	99.53	6.61	1,158.63	-4,221.59	869.79	792.37	77.41	11.235		
13,000.00	8,758.00	12,154.20	7,900.00	104.66	101.74	6.61	1,158.53	-4,321.59	869.78	790.84	78.94	11.018		
13,100.00	8,758.00	12,254.20	7,900.00	106.85	103.95	6.61	1,158.44	-4,421.59	869.78	789.31	80.47	10.808		
13,200.00	8,758.00	12,354.20	7,900.00	109.04	106.17	6.61	1,158.35	-4,521.59	869.78	787.77	82.01	10.606		
13,300.00	8,758.00	12,454.20	7,900.00	111.24	108.39	6.61	1,158.25	-4,621.59	869.78	786.23	83.55	10.410		
13,400.00	8,758.00	12,554.20	7,900.00	113.45	110.61	6.60	1,158.16	-4,721.59	869.77	784.68	85.09	10.221		
13,500.00	8,758.00	12,654.20	7,900.00	115.66	112.84	6.60	1,158.07	-4,821.59	869.77	783.13	86.64	10.039		
13,575.07	8,758.00	12,729.27	7,900.00	117.32	114.29	6.60	1,158.00	-4,896.66	869.77	782.07	87.69	9.918		
13,600.00	8,758.00	12,726.61	7,900.00	117.87	114.25	6.60	1,158.00	-4,894.00	870.20	782.27	87.94	9.896		
13,623.51	8,758.00	12,726.61	7,900.00	118.39	114.25	6.60	1,158.00	-4,894.00	871.27	783.12	88.14	9.885		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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		Highside Toolface (°)	Distance				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)	Between Centres (usft)	Between Ellipses (usft)		Minimum Separation (usft)
0.00	0.00	6.00	6.00	0.00	0.01	-7.33	2,138.00	-275.00	2,155.61			
100.00	100.00	106.00	106.00	0.13	0.15	-7.33	2,138.00	-275.00	2,155.61	2,155.34	0.28	7,759.146
200.00	200.00	206.00	206.00	0.49	0.51	-7.33	2,138.00	-275.00	2,155.61	2,154.62	0.99	2,166.971
300.00	300.00	306.00	306.00	0.85	0.87	-7.33	2,138.00	-275.00	2,155.61	2,153.90	1.71	1,259.339
400.00	400.00	406.00	406.00	1.20	1.23	-7.33	2,138.00	-275.00	2,155.61	2,153.18	2.43	887.579
500.00	500.00	506.00	506.00	1.56	1.58	-7.33	2,138.00	-275.00	2,155.61	2,152.47	3.15	685.282
600.00	600.00	606.00	606.00	1.92	1.94	-7.33	2,138.00	-275.00	2,155.61	2,151.75	3.86	558.083
700.00	700.00	706.00	706.00	2.28	2.30	-7.33	2,138.00	-275.00	2,155.61	2,151.03	4.58	470.712
800.00	800.00	806.00	806.00	2.64	2.66	-7.33	2,138.00	-275.00	2,155.61	2,150.32	5.30	406.995
900.00	900.00	906.00	906.00	3.00	3.02	-7.33	2,138.00	-275.00	2,155.61	2,149.60	6.01	358.471
1,000.00	1,000.00	1,006.00	1,006.00	3.35	3.38	-7.33	2,138.00	-275.00	2,155.61	2,148.88	6.73	320.285
1,100.00	1,100.00	1,106.00	1,106.00	3.71	3.73	-7.33	2,138.00	-275.00	2,155.61	2,148.17	7.45	289.451
1,200.00	1,200.00	1,206.00	1,206.00	4.07	4.09	-7.33	2,138.00	-275.00	2,155.61	2,147.45	8.16	264.033
1,300.00	1,300.00	1,306.00	1,306.00	4.43	4.45	-7.33	2,138.00	-275.00	2,155.61	2,146.73	8.88	242.718
1,400.00	1,400.00	1,406.00	1,406.00	4.79	4.81	-7.33	2,138.00	-275.00	2,155.61	2,146.02	9.60	224.588
1,500.00	1,499.98	1,507.18	1,507.18	5.15	5.17	-13.29	2,138.00	-274.99	2,153.91	2,143.59	10.32	208.740
1,600.00	1,599.84	1,627.06	1,627.02	5.51	5.59	-13.28	2,137.73	-272.20	2,148.30	2,137.20	11.09	193.639
1,700.00	1,699.45	1,746.21	1,745.91	5.87	6.00	-13.19	2,136.98	-264.48	2,138.38	2,126.52	11.86	180.275
1,800.00	1,798.71	1,845.73	1,845.05	6.23	6.34	-13.08	2,136.14	-255.84	2,124.68	2,112.11	12.57	169.048
1,900.00	1,897.83	1,944.48	1,943.43	6.59	6.69	-12.94	2,135.31	-247.27	2,109.91	2,096.64	13.27	158.991
2,000.00	1,996.95	2,043.23	2,041.80	6.95	7.04	-12.78	2,134.48	-238.71	2,095.15	2,081.17	13.98	149.903
2,100.00	2,096.07	2,141.99	2,140.18	7.32	7.39	-12.63	2,133.65	-230.14	2,080.41	2,065.72	14.69	141.658
2,200.00	2,195.19	2,240.74	2,238.55	7.70	7.75	-12.47	2,132.82	-221.57	2,065.68	2,050.28	15.40	134.148
2,300.00	2,294.31	2,339.49	2,336.93	8.07	8.10	-12.32	2,131.99	-213.00	2,050.97	2,034.85	16.11	127.283
2,400.00	2,393.43	2,438.24	2,435.30	8.45	8.46	-12.15	2,131.16	-204.43	2,036.27	2,019.44	16.83	120.987
2,500.00	2,492.55	2,536.99	2,533.68	8.83	8.82	-11.99	2,130.33	-195.86	2,021.59	2,004.04	17.55	115.193
2,600.00	2,591.67	2,635.74	2,632.05	9.21	9.18	-11.83	2,129.50	-187.30	2,006.93	1,988.66	18.27	109.846
2,700.00	2,690.79	2,734.49	2,730.43	9.59	9.54	-11.66	2,128.67	-178.73	1,992.28	1,973.29	18.99	104.897
2,800.00	2,789.91	2,833.24	2,828.80	9.98	9.90	-11.49	2,127.84	-170.16	1,977.65	1,957.93	19.72	100.305
2,900.00	2,889.03	2,932.00	2,927.18	10.36	10.26	-11.32	2,127.00	-161.59	1,963.04	1,942.60	20.44	96.033
3,000.00	2,988.16	3,030.75	3,025.55	10.75	10.63	-11.14	2,126.17	-153.02	1,948.44	1,927.27	21.17	92.050
3,100.00	3,087.28	3,129.50	3,123.93	11.13	10.99	-10.96	2,125.34	-144.45	1,933.86	1,911.97	21.89	88.327
3,200.00	3,186.40	3,228.25	3,222.30	11.52	11.36	-10.78	2,124.51	-135.88	1,919.31	1,896.68	22.62	84.842
3,300.00	3,285.52	3,327.00	3,320.68	11.91	11.72	-10.60	2,123.68	-127.32	1,904.77	1,881.42	23.35	81.572
3,400.00	3,384.64	3,425.75	3,419.06	12.30	12.09	-10.41	2,122.85	-118.75	1,890.25	1,866.17	24.08	78.498
3,500.00	3,483.76	3,524.50	3,517.43	12.68	12.45	-10.22	2,122.02	-110.18	1,875.75	1,850.94	24.81	75.603
3,600.00	3,582.88	3,623.25	3,615.81	13.07	12.82	-10.03	2,121.19	-101.61	1,861.27	1,835.73	25.54	72.873
3,700.00	3,682.00	3,722.01	3,714.18	13.46	13.19	-9.84	2,120.36	-93.04	1,846.81	1,820.54	26.27	70.294
3,800.00	3,781.12	3,820.76	3,812.56	13.85	13.55	-9.64	2,119.53	-84.47	1,832.37	1,805.37	27.00	67.854
3,900.00	3,880.24	3,919.51	3,910.93	14.24	13.92	-9.44	2,118.70	-75.91	1,817.96	1,790.22	27.74	65.543
4,000.00	3,979.36	4,018.26	4,009.31	14.63	14.29	-9.23	2,117.87	-67.34	1,803.56	1,775.09	28.47	63.350
4,100.00	4,078.48	4,117.01	4,107.68	15.03	14.66	-9.02	2,117.04	-58.77	1,789.19	1,759.99	29.20	61.268
4,200.00	4,177.60	4,215.76	4,206.06	15.42	15.03	-8.81	2,116.21	-50.20	1,774.85	1,744.91	29.94	59.287
4,300.00	4,276.72	4,314.51	4,304.43	15.81	15.39	-8.60	2,115.37	-41.63	1,760.52	1,729.85	30.67	57.401
4,400.00	4,375.84	4,413.26	4,402.81	16.20	15.76	-8.38	2,114.54	-33.06	1,746.22	1,714.82	31.40	55.603
4,500.00	4,474.96	4,512.02	4,501.18	16.59	16.13	-8.16	2,113.71	-24.49	1,731.95	1,699.81	32.14	53.888
4,600.00	4,574.08	4,610.77	4,599.56	16.99	16.50	-7.93	2,112.88	-15.93	1,717.71	1,684.83	32.87	52.250
4,700.00	4,673.20	4,709.52	4,697.93	17.38	16.87	-7.71	2,112.05	-7.36	1,703.49	1,669.87	33.61	50.684
4,800.00	4,772.32	4,808.27	4,796.31	17.77	17.24	-7.47	2,111.22	1.21	1,689.29	1,654.95	34.35	49.185
4,900.00	4,871.44	4,907.02	4,894.68	18.16	17.61	-7.24	2,110.39	9.78	1,675.13	1,640.05	35.08	47.749
5,000.00	4,970.56	5,005.77	4,993.06	18.56	17.98	-7.00	2,109.56	18.35	1,660.99	1,625.17	35.82	46.373
5,100.00	5,069.68	5,104.52	5,091.43	18.95	18.35	-6.75	2,108.73	26.92	1,646.88	1,610.33	36.55	45.053

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #203H - OH - Prelim C														Offset Site Error:
Survey Program: 0-MWD+HDCM														3.30 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	
5,200.00	5,168.80	5,203.27	5,189.81	19.34	18.72	-6.50	2,107.90	35.48	1,632.81	1,595.52	37.29	43.785		
5,300.00	5,267.92	5,302.02	5,288.19	19.74	19.09	-6.25	2,107.07	44.05	1,618.76	1,580.73	38.03	42.568		
5,400.00	5,367.04	5,400.78	5,386.56	20.13	19.46	-5.99	2,106.24	52.62	1,604.75	1,565.98	38.77	41.397		
5,500.00	5,466.16	5,499.53	5,484.94	20.53	19.83	-5.73	2,105.41	61.19	1,590.76	1,551.26	39.50	40.270		
5,600.00	5,565.28	5,596.79	5,581.86	20.92	20.19	-5.48	2,104.62	69.30	1,576.85	1,536.61	40.24	39.191		
5,700.00	5,664.40	5,693.42	5,678.26	21.31	20.55	-5.28	2,103.98	75.85	1,563.09	1,522.13	40.96	38.160		
5,800.00	5,763.52	5,790.23	5,774.94	21.71	20.90	-5.14	2,103.51	80.78	1,549.49	1,507.80	41.68	37.174		
5,900.00	5,862.65	5,887.18	5,871.84	22.10	21.25	-5.06	2,103.18	84.09	1,536.03	1,493.63	42.40	36.228		
6,000.00	5,961.77	5,984.21	5,968.85	22.50	21.59	-5.04	2,103.02	85.77	1,522.70	1,479.60	43.11	35.322		
6,100.00	6,060.89	6,082.25	6,066.89	22.89	21.93	-5.07	2,103.00	86.00	1,509.50	1,465.69	43.81	34.452		
6,200.00	6,160.01	6,181.37	6,166.01	23.29	22.26	-5.12	2,103.00	86.00	1,496.32	1,451.80	44.52	33.611		
6,300.00	6,259.13	6,280.49	6,265.13	23.68	22.60	-5.16	2,103.00	86.00	1,483.14	1,437.91	45.22	32.796		
6,400.00	6,358.25	6,379.61	6,364.25	24.08	22.94	-5.21	2,103.00	86.00	1,469.96	1,424.03	45.93	32.006		
6,500.00	6,457.37	6,478.73	6,463.37	24.47	23.28	-5.26	2,103.00	86.00	1,456.77	1,410.14	46.63	31.239		
6,600.00	6,556.49	6,577.85	6,562.49	24.87	23.61	-5.30	2,103.00	86.00	1,443.60	1,396.26	47.34	30.494		
6,700.00	6,655.61	6,676.97	6,661.61	25.26	23.95	-5.35	2,103.00	86.00	1,430.42	1,382.37	48.05	29.771		
6,800.00	6,754.73	6,776.09	6,760.73	25.66	24.29	-5.40	2,103.00	86.00	1,417.24	1,368.49	48.75	29.069		
6,900.00	6,853.85	6,875.21	6,859.85	26.05	24.63	-5.45	2,103.00	86.00	1,404.06	1,354.60	49.46	28.387		
7,000.00	6,952.97	6,974.33	6,958.97	26.45	24.97	-5.51	2,103.00	86.00	1,390.89	1,340.72	50.17	27.723		
7,100.00	7,052.09	7,073.45	7,058.09	26.84	25.31	-5.56	2,103.00	86.00	1,377.71	1,326.83	50.88	27.078		
7,200.00	7,151.21	7,172.57	7,157.21	27.24	25.65	-5.61	2,103.00	86.00	1,364.54	1,312.95	51.59	26.450		
7,300.00	7,250.33	7,271.69	7,256.33	27.63	25.99	-5.67	2,103.00	86.00	1,351.37	1,299.07	52.30	25.840		
7,400.00	7,349.45	7,370.81	7,355.45	28.03	26.34	-5.72	2,103.00	86.00	1,338.20	1,285.19	53.01	25.245		
7,500.00	7,448.57	7,469.93	7,454.57	28.42	26.68	-5.78	2,103.00	86.00	1,325.03	1,271.31	53.72	24.666		
7,600.00	7,547.69	7,569.05	7,553.69	28.82	27.02	-5.84	2,103.00	86.00	1,311.86	1,257.43	54.43	24.102		
7,700.00	7,646.81	7,668.17	7,652.81	29.21	27.36	-5.90	2,103.00	86.00	1,298.70	1,243.55	55.14	23.552		
7,800.00	7,745.93	7,767.29	7,751.93	29.61	27.71	-5.96	2,103.00	86.00	1,285.53	1,229.68	55.85	23.016		
7,900.00	7,845.19	7,866.56	7,851.19	30.00	28.05	-6.00	2,103.00	86.00	1,273.50	1,216.94	56.56	22.514		
8,000.00	7,944.81	7,966.17	7,950.81	30.37	28.40	-6.02	2,103.00	86.00	1,264.87	1,207.60	57.27	22.085		
8,100.00	8,044.67	8,066.03	8,050.67	30.73	28.74	-6.03	2,103.00	86.00	1,259.70	1,201.73	57.98	21.728		
8,200.00	8,144.65	8,166.01	8,150.65	31.07	29.09	-5.91	2,103.00	86.00	1,258.00	1,199.33	58.67	21.440		
8,300.00	8,244.13	8,265.49	8,250.13	31.41	29.44	-5.66	2,103.00	86.00	1,252.92	1,193.55	59.37	21.105		
8,400.00	8,340.55	8,361.92	8,346.55	31.78	29.77	-5.87	2,103.00	86.00	1,238.27	1,178.21	60.05	20.620		
8,500.00	8,430.99	8,452.36	8,436.99	32.17	30.09	-6.10	2,103.00	86.00	1,215.23	1,154.50	60.72	20.012		
8,600.00	8,512.70	8,534.07	8,518.70	32.58	30.37	-6.38	2,103.00	86.00	1,185.70	1,124.32	61.38	19.317		
8,700.00	8,583.67	8,605.03	8,589.67	33.01	30.62	-75.14	2,103.00	86.00	1,153.86	1,091.81	62.05	18.595		
8,800.00	8,644.40	8,665.76	8,650.40	33.44	30.83	-84.35	2,103.00	86.00	1,132.23	1,069.44	62.79	18.031		
8,892.23	8,690.12	8,711.49	8,696.12	33.85	30.99	-90.00	2,103.00	86.00	1,125.31	1,061.72	63.58	17.698 CC		
8,900.00	8,693.48	8,714.85	8,699.48	33.89	31.00	-90.36	2,103.00	86.00	1,125.36	1,061.71	63.65	17.680		
9,000.00	8,729.43	8,750.79	8,735.43	34.39	31.13	-93.30	2,103.00	86.00	1,135.32	1,070.69	64.62	17.569		
9,100.00	8,751.15	8,772.51	8,757.15	34.97	31.20	-93.18	2,103.00	86.00	1,162.64	1,097.00	65.64	17.712		
9,200.00	8,758.00	9,727.78	9,350.00	35.62	34.71	119.37	2,102.51	-522.33	1,195.01	1,134.53	60.47	19.760		
9,300.00	8,758.00	9,827.78	9,350.00	36.38	35.44	119.37	2,102.43	-622.33	1,195.00	1,133.18	61.82	19.330		
9,400.00	8,758.00	9,927.78	9,350.00	37.27	36.32	119.37	2,102.35	-722.33	1,194.99	1,131.59	63.40	18.847		
9,500.00	8,758.00	10,027.78	9,350.00	38.29	37.31	119.37	2,102.27	-822.33	1,194.98	1,129.78	65.20	18.327		
9,600.00	8,758.00	10,127.78	9,350.00	39.43	38.42	119.37	2,102.19	-922.33	1,194.97	1,127.76	67.21	17.781		
9,700.00	8,758.00	10,227.78	9,350.00	40.67	39.63	119.37	2,102.11	-1,022.33	1,194.96	1,125.57	69.39	17.220		
9,800.00	8,758.00	10,327.78	9,350.00	42.00	40.93	119.37	2,102.03	-1,122.33	1,194.95	1,123.21	71.75	16.655		
9,900.00	8,758.00	10,427.78	9,350.00	43.42	42.32	119.37	2,101.95	-1,222.33	1,194.94	1,120.69	74.25	16.094		
10,000.00	8,758.00	10,527.78	9,350.00	44.92	43.79	119.37	2,101.87	-1,322.33	1,194.93	1,118.04	76.89	15.541		
10,100.00	8,758.00	10,627.78	9,350.00	46.48	45.33	119.37	2,101.79	-1,422.33	1,194.92	1,115.27	79.65	15.002		
10,200.00	8,758.00	10,727.78	9,350.00	48.11	46.93	119.37	2,101.71	-1,522.33	1,194.91	1,112.39	82.53	14.479		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patl 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patl 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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		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)	Offset Wellbore Centre E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300.00	8,758.00	10,827.78	9,350.00	49.78	48.59	119.37	2,101.63	-1,622.33	1,194.90	1,109.41	85.50	13.976			
10,400.00	8,758.00	10,927.78	9,350.00	51.51	50.30	119.37	2,101.54	-1,722.33	1,194.90	1,106.34	88.56	13.493			
10,500.00	8,758.00	11,027.78	9,350.00	53.29	52.06	119.37	2,101.46	-1,822.33	1,194.89	1,103.18	91.70	13.030			
10,600.00	8,758.00	11,127.78	9,350.00	55.10	53.86	119.37	2,101.38	-1,922.33	1,194.88	1,099.96	94.91	12.589			
10,700.00	8,758.00	11,227.78	9,350.00	56.95	55.69	119.37	2,101.30	-2,022.33	1,194.87	1,096.67	98.19	12.168			
10,800.00	8,758.00	11,327.78	9,350.00	58.83	57.56	119.37	2,101.22	-2,122.33	1,194.86	1,093.33	101.53	11.768			
10,900.00	8,758.00	11,427.78	9,350.00	60.74	59.46	119.37	2,101.14	-2,222.33	1,194.85	1,089.92	104.92	11.388			
11,000.00	8,758.00	11,527.78	9,350.00	62.68	61.39	119.37	2,101.06	-2,322.33	1,194.84	1,086.47	108.36	11.026			
11,100.00	8,758.00	11,627.78	9,350.00	64.64	63.35	119.37	2,100.98	-2,422.33	1,194.83	1,082.98	111.85	10.683			
11,200.00	8,758.00	11,727.78	9,350.00	66.63	65.32	119.37	2,100.90	-2,522.33	1,194.82	1,079.45	115.37	10.356			
11,300.00	8,758.00	11,827.78	9,350.00	68.63	67.32	119.37	2,100.82	-2,622.33	1,194.81	1,075.88	118.93	10.046			
11,400.00	8,758.00	11,927.78	9,350.00	70.66	69.34	119.37	2,100.74	-2,722.33	1,194.80	1,072.28	122.52	9.752			
11,500.00	8,758.00	12,027.78	9,350.00	72.70	71.38	119.37	2,100.66	-2,822.33	1,194.79	1,068.64	126.15	9.471			
11,600.00	8,758.00	12,127.78	9,350.00	74.76	73.43	119.37	2,100.58	-2,922.33	1,194.78	1,064.98	129.80	9.205			
11,700.00	8,758.00	12,227.78	9,350.00	76.83	75.49	119.37	2,100.50	-3,022.33	1,194.77	1,061.30	133.48	8.951			
11,800.00	8,758.00	12,327.78	9,350.00	78.91	77.57	119.37	2,100.42	-3,122.33	1,194.76	1,057.59	137.18	8.710			
11,900.00	8,758.00	12,427.78	9,350.00	81.01	79.67	119.37	2,100.34	-3,222.33	1,194.75	1,053.86	140.90	8.480			
12,000.00	8,758.00	12,527.78	9,350.00	83.12	81.77	119.37	2,100.26	-3,322.33	1,194.74	1,050.11	144.64	8.260			
12,100.00	8,758.00	12,627.78	9,350.00	85.23	83.89	119.37	2,100.18	-3,422.33	1,194.73	1,046.34	148.40	8.051			
12,200.00	8,758.00	12,727.78	9,350.00	87.36	86.01	119.37	2,100.10	-3,522.33	1,194.73	1,042.55	152.18	7.851			
12,300.00	8,758.00	12,827.78	9,350.00	89.50	88.14	119.37	2,100.02	-3,622.33	1,194.72	1,038.75	155.97	7.660			
12,400.00	8,758.00	12,927.78	9,350.00	91.64	90.29	119.37	2,099.94	-3,722.33	1,194.71	1,034.93	159.78	7.477			
12,500.00	8,758.00	13,027.78	9,350.00	93.80	92.44	119.37	2,099.86	-3,822.33	1,194.70	1,031.10	163.60	7.303			
12,600.00	8,758.00	13,127.78	9,350.00	95.96	94.60	119.37	2,099.77	-3,922.33	1,194.69	1,027.26	167.43	7.135			
12,700.00	8,758.00	13,227.78	9,350.00	98.12	96.76	119.37	2,099.69	-4,022.33	1,194.68	1,023.40	171.28	6.975			
12,800.00	8,758.00	13,327.78	9,350.00	100.30	98.93	119.37	2,099.61	-4,122.33	1,194.67	1,019.53	175.13	6.821			
12,900.00	8,758.00	13,427.78	9,350.00	102.48	101.11	119.37	2,099.53	-4,222.33	1,194.66	1,015.66	179.00	6.674			
13,000.00	8,758.00	13,527.78	9,350.00	104.66	103.29	119.37	2,099.45	-4,322.33	1,194.65	1,011.77	182.88	6.532			
13,100.00	8,758.00	13,627.78	9,350.00	106.85	105.48	119.38	2,099.37	-4,422.33	1,194.64	1,007.88	186.76	6.397			
13,200.00	8,758.00	13,727.78	9,350.00	109.04	107.68	119.38	2,099.29	-4,522.33	1,194.63	1,003.97	190.66	6.266			
13,300.00	8,758.00	13,827.78	9,350.00	111.24	109.87	119.38	2,099.21	-4,622.33	1,194.62	1,000.06	194.56	6.140			
13,400.00	8,758.00	13,927.78	9,350.00	113.45	112.08	119.38	2,099.13	-4,722.33	1,194.61	996.14	198.47	6.019			
13,500.00	8,758.00	14,027.78	9,350.00	115.66	114.28	119.38	2,099.05	-4,822.33	1,194.60	992.21	202.39	5.902			
13,571.20	8,758.00	14,098.98	9,350.00	117.23	115.86	119.38	2,098.99	-4,893.53	1,194.60	989.41	205.18	5.822 ES			
13,600.00	8,758.00	14,090.45	9,350.00	117.87	115.67	119.38	2,099.00	-4,885.00	1,195.18	989.44	205.74	5.809			
13,623.51	8,758.00	14,090.45	9,350.00	118.39	115.67	119.38	2,099.00	-4,885.00	1,196.14	989.94	206.20	5.801 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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	30.00	30.00				
100.00	100.00	100.00	100.00	0.13	0.13	90.00	0.00	30.00	30.00	29.74	0.26	117.047	
200.00	200.00	200.00	200.00	0.49	0.49	90.00	0.00	30.00	30.00	29.03	0.97	30.825	
300.00	300.00	300.00	300.00	0.85	0.85	90.00	0.00	30.00	30.00	28.31	1.69	17.749	
400.00	400.00	400.00	400.00	1.20	1.20	90.00	0.00	30.00	30.00	27.59	2.41	12.463	
500.00	500.00	500.00	500.00	1.56	1.56	90.00	0.00	30.00	30.00	26.88	3.12	9.603	
600.00	600.00	600.00	600.00	1.92	1.92	90.00	0.00	30.00	30.00	26.16	3.84	7.810	
700.00	700.00	700.00	700.00	2.28	2.28	90.00	0.00	30.00	30.00	25.44	4.56	6.582	
800.00	800.00	800.00	800.00	2.64	2.64	90.00	0.00	30.00	30.00	24.73	5.27	5.687	
900.00	900.00	900.00	900.00	3.00	3.00	90.00	0.00	30.00	30.00	24.01	5.99	5.007	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	90.00	0.00	30.00	30.00	23.29	6.71	4.472	
1,100.00	1,100.00	1,100.00	1,100.00	3.71	3.71	90.00	0.00	30.00	30.00	22.57	7.43	4.040	
1,200.00	1,200.00	1,200.00	1,200.00	4.07	4.07	90.00	0.00	30.00	30.00	21.86	8.14	3.684	
1,300.00	1,300.00	1,300.00	1,300.00	4.43	4.43	90.00	0.00	30.00	30.00	21.14	8.86	3.386	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	90.00	0.00	30.00	30.00	20.42	9.58	3.133 CC	
1,500.00	1,499.98	1,499.87	1,499.87	5.15	5.15	85.75	0.84	30.21	30.05	19.75	10.29	2.919	
1,600.00	1,599.84	1,599.74	1,599.70	5.51	5.50	90.78	3.37	30.85	30.34	19.34	11.01	2.757 ES	
1,700.00	1,699.45	1,699.61	1,699.47	5.87	5.86	98.83	7.59	31.92	31.34	19.62	11.72	2.674 SF	
1,800.00	1,798.71	1,800.59	1,799.10	6.23	6.22	109.27	13.26	33.36	33.71	21.27	12.44	2.709	
1,900.00	1,897.83	1,899.14	1,898.65	6.59	6.58	119.34	19.12	34.84	37.52	24.36	13.16	2.851	
2,000.00	1,996.95	2,001.12	1,998.20	6.95	6.94	127.37	24.98	36.32	42.26	28.37	13.89	3.043	
2,100.00	2,096.07	2,101.39	2,097.75	7.32	7.30	133.68	30.84	37.81	47.66	33.05	14.61	3.262	
2,200.00	2,195.19	2,201.66	2,197.30	7.70	7.66	138.67	36.69	39.29	53.51	38.18	15.34	3.490	
2,300.00	2,294.31	2,301.93	2,296.85	8.07	8.03	142.65	42.55	40.77	59.69	43.63	16.06	3.717	
2,400.00	2,393.43	2,402.20	2,396.40	8.45	8.39	145.87	48.41	42.26	66.11	49.32	16.79	3.939	
2,500.00	2,492.55	2,502.46	2,495.94	8.83	8.75	148.51	54.27	43.74	72.69	55.18	17.51	4.151	
2,600.00	2,591.67	2,602.73	2,595.49	9.21	9.11	150.72	60.13	45.22	79.41	61.17	18.24	4.354	
2,700.00	2,690.79	2,703.00	2,695.04	9.59	9.48	152.57	65.98	46.70	86.22	67.26	18.96	4.547	
2,800.00	2,789.91	2,803.27	2,794.59	9.98	9.84	154.16	71.84	48.19	93.11	73.42	19.69	4.729	
2,900.00	2,889.03	2,903.54	2,894.14	10.36	10.20	155.52	77.70	49.67	100.06	79.64	20.42	4.901	
3,000.00	2,988.16	3,003.81	2,993.69	10.75	10.57	156.71	83.56	51.15	107.06	85.91	21.14	5.063	
3,100.00	3,087.28	3,104.07	3,093.24	11.13	10.93	157.75	89.41	52.64	114.10	92.22	21.87	5.217	
3,200.00	3,186.40	3,204.34	3,192.78	11.52	11.30	158.67	95.27	54.12	121.17	98.57	22.60	5.361	
3,300.00	3,285.52	3,304.61	3,292.33	11.91	11.66	159.49	101.13	55.60	128.27	104.94	23.33	5.498	
3,400.00	3,384.64	3,404.88	3,391.88	12.30	12.03	160.22	106.99	57.09	135.39	111.33	24.06	5.628	
3,500.00	3,483.76	3,505.15	3,491.43	12.68	12.39	160.88	112.85	58.57	142.53	117.75	24.79	5.751	
3,600.00	3,582.88	3,605.42	3,590.98	13.07	12.76	161.48	118.70	60.05	149.69	124.18	25.51	5.867	
3,700.00	3,682.00	3,705.68	3,690.53	13.46	13.12	162.02	124.56	61.53	156.87	130.63	26.24	5.978	
3,800.00	3,781.12	3,805.95	3,790.08	13.85	13.49	162.51	130.42	63.02	164.06	137.08	26.97	6.082	
3,900.00	3,880.24	3,906.22	3,889.62	14.24	13.85	162.97	136.28	64.50	171.26	143.55	27.70	6.182	
4,000.00	3,979.36	3,993.51	3,989.17	14.63	14.17	163.38	142.14	65.98	178.46	150.08	28.38	6.287	
4,100.00	4,078.48	4,106.76	4,088.72	15.03	14.58	163.77	147.99	67.47	185.68	156.52	29.16	6.367	
4,200.00	4,177.60	4,207.02	4,188.27	15.42	14.95	164.12	153.85	68.95	192.91	163.01	29.89	6.454	
4,300.00	4,276.72	4,307.29	4,287.82	15.81	15.31	164.45	159.71	70.43	200.14	169.52	30.62	6.536	
4,400.00	4,375.84	4,407.56	4,387.37	16.20	15.68	164.76	165.57	71.92	207.38	176.02	31.35	6.615	
4,500.00	4,474.96	4,507.83	4,486.92	16.59	16.05	165.04	171.43	73.40	214.62	182.54	32.08	6.690	
4,600.00	4,574.08	4,608.10	4,586.46	16.99	16.41	165.31	177.28	74.88	221.87	189.05	32.81	6.762	
4,700.00	4,673.20	4,708.37	4,686.01	17.38	16.78	165.56	183.14	76.37	229.12	195.58	33.54	6.831	
4,800.00	4,772.32	4,791.37	4,785.56	17.77	17.08	165.79	189.00	77.85	236.38	202.17	34.21	6.909	
4,900.00	4,871.44	4,908.90	4,885.11	18.16	17.51	166.02	194.86	79.33	243.64	208.63	35.00	6.960	
5,000.00	4,970.56	5,009.17	4,984.66	18.56	17.87	166.22	200.72	80.81	250.90	215.17	35.73	7.021	
5,100.00	5,069.68	5,109.44	5,084.21	18.95	18.24	166.42	206.57	82.30	258.17	221.70	36.47	7.080	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #204H - OH - Prelim B														Offset Site Error
Survey Program: 0-MWD+HDGM														Offset Well Error
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,168.80	5,209.71	5,183.76	19.34	18.61	166.61	212.43	83.78	265.44	228.24	37.20	7.136		
5,300.00	5,267.92	5,290.03	5,283.30	19.74	18.90	166.78	218.29	85.26	272.71	234.86	37.85	7.204		
5,400.00	5,367.04	5,389.76	5,382.85	20.13	19.26	166.95	224.15	86.75	279.99	241.40	38.58	7.257		
5,500.00	5,466.16	5,487.05	5,479.98	20.53	19.62	167.12	229.63	88.13	287.49	248.19	39.30	7.315		
5,600.00	5,565.28	5,582.12	5,574.96	20.92	19.96	167.38	233.61	89.14	296.40	256.40	40.00	7.411		
5,700.00	5,664.40	5,676.88	5,669.69	21.31	20.30	167.72	236.06	89.76	306.85	266.17	40.68	7.543		
5,800.00	5,763.52	5,771.30	5,764.10	21.71	20.64	168.15	236.99	90.00	318.85	277.50	41.35	7.711		
5,900.00	5,862.65	5,869.85	5,862.65	22.10	20.99	168.61	237.00	90.00	331.81	289.74	42.06	7.888		
6,000.00	5,961.77	5,968.97	5,961.77	22.50	21.34	169.05	237.00	90.00	344.80	302.01	42.78	8.060		
6,100.00	6,060.89	6,068.09	6,060.89	22.89	21.69	169.45	237.00	90.00	357.80	314.30	43.50	8.225		
6,200.00	6,160.01	6,167.21	6,160.01	23.29	22.04	169.82	237.00	90.00	370.82	326.61	44.22	8.386		
6,300.00	6,259.13	6,266.33	6,259.13	23.68	22.39	170.17	237.00	90.00	383.86	338.93	44.94	8.542		
6,400.00	6,358.25	6,365.45	6,358.25	24.08	22.74	170.50	237.00	90.00	396.91	351.26	45.66	8.694		
6,500.00	6,457.37	6,464.57	6,457.37	24.47	23.09	170.80	237.00	90.00	409.97	363.60	46.38	8.840		
6,600.00	6,556.49	6,563.69	6,556.49	24.87	23.44	171.09	237.00	90.00	423.05	375.95	47.09	8.983		
6,700.00	6,655.61	6,662.81	6,655.61	25.26	23.79	171.36	237.00	90.00	436.13	388.31	47.81	9.121		
6,800.00	6,754.73	6,761.93	6,754.73	25.66	24.14	171.61	237.00	90.00	449.22	400.69	48.53	9.256		
6,900.00	6,853.85	6,861.05	6,853.85	26.05	24.50	171.85	237.00	90.00	462.32	413.06	49.25	9.386		
7,000.00	6,952.97	6,960.17	6,952.97	26.45	24.85	172.08	237.00	90.00	475.43	425.45	49.97	9.513		
7,100.00	7,052.09	7,059.29	7,052.09	26.84	25.20	172.29	237.00	90.00	488.54	437.84	50.70	9.637		
7,200.00	7,151.21	7,158.41	7,151.21	27.24	25.55	172.49	237.00	90.00	501.66	450.24	51.42	9.757		
7,300.00	7,250.33	7,257.53	7,250.33	27.63	25.90	172.69	237.00	90.00	514.79	462.65	52.14	9.874		
7,400.00	7,349.45	7,356.65	7,349.45	28.03	26.26	172.87	237.00	90.00	527.92	475.06	52.86	9.987		
7,500.00	7,448.57	7,455.77	7,448.57	28.42	26.61	173.04	237.00	90.00	541.05	487.48	53.58	10.098		
7,600.00	7,547.69	7,554.89	7,547.69	28.82	26.96	173.21	237.00	90.00	554.20	499.90	54.30	10.206		
7,700.00	7,646.81	7,654.01	7,646.81	29.21	27.31	173.37	237.00	90.00	567.34	512.32	55.02	10.311		
7,800.00	7,745.93	7,753.13	7,745.93	29.61	27.66	173.52	237.00	90.00	580.49	524.75	55.74	10.414		
7,900.00	7,845.19	7,852.39	7,845.19	30.00	28.02	173.67	237.00	90.00	592.51	536.04	56.46	10.494		
8,000.00	7,944.81	7,952.01	7,944.81	30.37	28.37	173.78	237.00	90.00	601.14	543.95	57.18	10.513		
8,100.00	8,044.67	8,051.87	8,044.67	30.73	28.73	173.85	237.00	90.00	606.30	548.41	57.89	10.473		
8,200.00	8,144.65	8,151.85	8,144.65	31.07	29.08	-125.19	237.00	90.00	608.00	549.40	58.60	10.375		
8,300.00	8,244.13	8,251.33	8,244.13	31.41	29.44	-125.44	237.00	90.00	613.16	553.85	59.31	10.338		
8,400.00	8,340.55	8,347.75	8,340.55	31.78	29.78	-126.06	237.00	90.00	628.76	568.74	60.02	10.476		
8,500.00	8,430.99	8,438.19	8,430.99	32.17	30.10	-126.67	237.00	90.00	655.58	594.88	60.70	10.800		
8,600.00	8,512.70	8,519.90	8,512.70	32.58	30.39	-126.75	237.00	90.00	694.41	633.06	61.34	11.320		
8,700.00	8,583.67	8,609.13	8,583.67	33.01	30.71	-122.04	237.00	90.00	744.13	682.16	61.97	12.007		
8,800.00	8,644.40	8,651.60	8,644.40	33.44	30.86	-114.83	237.00	90.00	796.74	734.33	62.41	12.767		
8,900.00	8,693.48	8,700.68	8,693.48	33.89	31.04	-108.52	237.00	90.00	851.41	788.58	62.84	13.550		
9,000.00	8,729.43	8,736.63	8,729.43	34.39	31.16	-102.40	237.00	90.00	908.26	845.07	63.19	14.374		
9,100.00	8,751.15	8,761.56	8,754.36	34.97	31.25	-96.34	237.00	89.98	966.83	903.36	63.48	15.231		
9,200.00	8,758.00	8,794.85	8,787.63	35.62	31.37	-92.06	236.75	88.72	1,026.02	962.21	63.81	16.080		
9,300.00	8,758.00	9,809.66	9,324.12	36.38	36.14	-122.43	170.04	-629.96	1,055.62	990.73	64.89	16.268		
9,400.00	8,758.00	9,909.64	9,322.55	37.27	37.11	-122.36	169.99	-729.94	1,054.76	988.14	66.62	15.832		
9,500.00	8,758.00	10,009.63	9,320.98	38.29	38.20	-122.29	169.94	-829.91	1,053.91	985.35	68.55	15.374		
9,600.00	8,758.00	10,109.62	9,319.41	39.43	39.39	-122.22	169.90	-929.89	1,053.05	982.39	70.66	14.903		
9,700.00	8,758.00	10,209.61	9,317.84	40.67	40.67	-122.15	169.85	-1,029.86	1,052.19	979.27	72.93	14.428		
9,800.00	8,758.00	10,309.59	9,316.27	42.00	42.05	-122.08	169.80	-1,129.84	1,051.34	975.99	75.35	13.953		
9,900.00	8,758.00	10,409.58	9,314.70	43.42	43.50	-122.00	169.75	-1,229.81	1,050.49	972.58	77.90	13.484		
10,000.00	8,758.00	10,509.57	9,313.14	44.92	45.02	-121.93	169.71	-1,329.79	1,049.64	969.05	80.59	13.025		
10,100.00	8,758.00	10,609.56	9,311.57	46.48	46.61	-121.86	169.66	-1,429.76	1,048.79	965.41	83.38	12.579		
10,200.00	8,758.00	10,709.54	9,310.00	48.11	48.26	-121.79	169.61	-1,529.74	1,047.94	961.67	86.28	12.146		
10,300.00	8,758.00	10,809.53	9,308.43	49.78	49.95	-121.71	169.56	-1,629.71	1,047.10	957.83	89.27	11.730		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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		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	Warning
10,400.00	8,758.00	10,909.52	9,306.86	51.51	51.70	-121.64	169.51	-1,729.69	1,046.26	953.92	92.34	11.331	
10,500.00	8,758.00	11,009.51	9,305.29	53.29	53.49	-121.57	169.47	-1,829.66	1,045.41	949.92	95.49	10.947	
10,600.00	8,758.00	11,109.50	9,303.72	55.10	55.32	-121.50	169.42	-1,929.64	1,044.57	945.86	98.72	10.581	
10,700.00	8,758.00	11,213.25	9,301.72	56.95	57.25	-121.40	169.37	-2,033.37	1,043.55	941.44	102.11	10.220	
10,800.00	8,758.00	11,313.22	9,299.46	58.83	59.14	-121.30	169.32	-2,133.32	1,042.35	936.87	105.49	9.882	
10,900.00	8,758.00	11,413.20	9,297.20	60.74	61.07	-121.19	169.27	-2,233.27	1,041.16	932.25	108.92	9.559	
11,000.00	8,758.00	11,513.17	9,294.93	62.68	63.01	-121.09	169.23	-2,333.22	1,039.97	927.57	112.40	9.252	
11,100.00	8,758.00	11,613.15	9,292.67	64.64	64.99	-120.98	169.18	-2,433.17	1,038.79	922.85	115.93	8.960	
11,200.00	8,758.00	11,713.12	9,290.41	66.63	66.98	-120.87	169.13	-2,533.12	1,037.61	918.10	119.51	8.682	
11,300.00	8,758.00	11,813.09	9,288.15	68.63	68.99	-120.77	169.08	-2,633.06	1,036.43	913.30	123.13	8.417	
11,400.00	8,758.00	11,913.07	9,285.89	70.66	71.03	-120.66	169.04	-2,733.01	1,035.25	908.47	126.79	8.165	
11,500.00	8,758.00	12,013.04	9,283.63	72.70	73.07	-120.55	168.99	-2,832.96	1,034.08	903.61	130.48	7.925	
11,600.00	8,758.00	12,113.02	9,281.37	74.76	75.14	-120.45	168.94	-2,932.91	1,032.92	898.71	134.21	7.697	
11,700.00	8,758.00	12,212.99	9,279.11	76.83	77.21	-120.34	168.89	-3,032.86	1,031.75	893.79	137.96	7.478	
11,800.00	8,758.00	12,312.97	9,276.84	78.91	79.30	-120.23	168.85	-3,132.81	1,030.59	888.84	141.75	7.270	
11,900.00	8,758.00	12,412.94	9,274.58	81.01	81.40	-120.12	168.80	-3,232.76	1,029.44	883.87	145.57	7.072	
12,000.00	8,758.00	12,512.92	9,272.32	83.12	83.51	-120.01	168.75	-3,332.71	1,028.28	878.87	149.41	6.882	
12,100.00	8,758.00	12,612.89	9,270.06	85.23	85.64	-119.91	168.70	-3,432.66	1,027.14	873.86	153.28	6.701	
12,200.00	8,758.00	12,712.86	9,267.80	87.36	87.77	-119.80	168.65	-3,532.60	1,025.99	868.82	157.17	6.528	
12,300.00	8,758.00	12,812.84	9,265.54	89.50	89.91	-119.69	168.61	-3,632.55	1,024.85	863.76	161.08	6.362	
12,400.00	8,758.00	12,912.81	9,263.28	91.64	92.05	-119.58	168.56	-3,732.50	1,023.71	858.69	165.02	6.204	
12,500.00	8,758.00	13,012.79	9,261.02	93.80	94.21	-119.47	168.51	-3,832.45	1,022.58	853.60	168.98	6.052	
12,600.00	8,758.00	13,112.76	9,258.75	95.96	96.37	-119.36	168.46	-3,932.40	1,021.45	848.49	172.95	5.906	
12,700.00	8,758.00	13,212.74	9,256.49	98.12	98.54	-119.25	168.42	-4,032.35	1,020.32	843.37	176.95	5.766	
12,800.00	8,758.00	13,312.71	9,254.23	100.30	100.72	-119.14	168.37	-4,132.30	1,019.20	838.23	180.96	5.632	
12,900.00	8,758.00	13,412.69	9,251.97	102.48	102.90	-119.03	168.32	-4,232.25	1,018.08	833.08	185.00	5.503	
13,000.00	8,758.00	13,512.66	9,249.71	104.66	105.08	-118.92	168.27	-4,332.20	1,016.96	827.92	189.04	5.380	
13,100.00	8,758.00	13,612.63	9,247.45	106.85	107.28	-118.81	168.23	-4,432.14	1,015.85	822.74	193.11	5.261	
13,200.00	8,758.00	13,712.61	9,245.19	109.04	109.47	-118.69	168.18	-4,532.09	1,014.75	817.56	197.19	5.146	
13,300.00	8,758.00	13,812.58	9,242.93	111.24	111.67	-118.58	168.13	-4,632.04	1,013.64	812.36	201.28	5.036	
13,400.00	8,758.00	13,912.56	9,240.66	113.45	113.88	-118.47	168.08	-4,731.99	1,012.54	807.15	205.40	4.930	
13,500.00	8,758.00	14,012.53	9,238.40	115.66	116.09	-118.36	168.03	-4,831.94	1,011.45	801.93	209.52	4.827	
13,600.00	8,758.00	14,112.51	9,236.14	117.87	118.30	-118.25	167.99	-4,931.89	1,010.36	796.70	213.66	4.729	
13,623.51	8,758.00	14,136.01	9,235.61	118.39	118.82	-118.22	167.98	-4,955.38	1,010.10	795.47	214.63	4.706	

Pro Directional Anticollision Report

Company:	Malador Resources	Local Co-ordinate Reference:	Well #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #227H - OH - Prelim D													Offset Site Error:
Survey Program: 0-MWD+HDGM													0.30 usft
Reference		Offset		Semi-Major Axis			Distance		Minimum Separation		Warning		Offset Well Error:
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)	Separation Factor		0.00 usft
0.00	0.00	5.00	5.00	0.00	0.01	-7.23	2,168.00	-275.00	2,185.37				
100.00	100.00	105.00	105.00	0.13	0.15	-7.23	2,168.00	-275.00	2,185.37	2,185.10	0.27	7,969.088	
200.00	200.00	205.00	205.00	0.49	0.50	-7.23	2,168.00	-275.00	2,185.37	2,184.38	0.99	2,204.831	
300.00	300.00	305.00	305.00	0.85	0.86	-7.23	2,168.00	-275.00	2,185.37	2,183.66	1.71	1,279.404	
400.00	400.00	405.00	405.00	1.20	1.22	-7.23	2,168.00	-275.00	2,185.37	2,182.95	2.43	901.162	
500.00	500.00	505.00	505.00	1.56	1.58	-7.23	2,168.00	-275.00	2,185.37	2,182.23	3.14	695.534	
600.00	600.00	605.00	605.00	1.92	1.94	-7.23	2,168.00	-275.00	2,185.37	2,181.51	3.86	566.313	
700.00	700.00	705.00	705.00	2.28	2.30	-7.23	2,168.00	-275.00	2,185.37	2,180.80	4.58	477.584	
800.00	800.00	805.00	805.00	2.64	2.66	-7.23	2,168.00	-275.00	2,185.37	2,180.08	5.29	412.893	
900.00	900.00	905.00	905.00	3.00	3.01	-7.23	2,168.00	-275.00	2,185.37	2,179.36	6.01	363.636	
1,000.00	1,000.00	1,005.00	1,005.00	3.35	3.37	-7.23	2,168.00	-275.00	2,185.37	2,178.64	6.73	324.879	
1,100.00	1,100.00	1,105.00	1,105.00	3.71	3.73	-7.23	2,168.00	-275.00	2,185.37	2,177.93	7.44	293.588	
1,200.00	1,200.00	1,205.00	1,205.00	4.07	4.09	-7.23	2,168.00	-275.00	2,185.37	2,177.21	8.16	267.795	
1,300.00	1,300.00	1,305.00	1,305.00	4.43	4.45	-7.23	2,168.00	-275.00	2,185.37	2,176.49	8.88	246.168	
1,400.00	1,400.00	1,405.00	1,405.00	4.79	4.81	-7.23	2,168.00	-275.00	2,185.37	2,175.78	9.59	227.774	
1,500.00	1,499.98	1,504.98	1,504.98	5.15	5.16	-13.19	2,168.00	-275.00	2,183.67	2,173.36	10.31	211.773	
1,600.00	1,599.84	1,604.84	1,604.84	5.51	5.52	-13.25	2,168.00	-275.00	2,178.58	2,167.55	11.03	197.540	
1,700.00	1,699.45	1,704.45	1,704.45	5.87	5.88	-13.34	2,168.00	-275.00	2,170.09	2,158.35	11.74	184.770	
1,800.00	1,798.71	1,805.80	1,805.80	6.23	6.24	-13.46	2,168.00	-275.00	2,158.30	2,145.83	12.47	173.116	
1,900.00	1,897.83	1,900.15	1,900.13	6.59	6.76	-13.57	2,165.96	-274.07	2,144.05	2,130.71	13.34	160.757	
2,000.00	1,996.95	2,113.31	2,113.16	6.95	7.26	-13.65	2,160.21	-271.45	2,127.27	2,113.09	14.18	149.977	
2,100.00	2,096.07	2,265.09	2,264.58	7.32	7.77	-13.70	2,150.83	-267.18	2,107.99	2,092.97	15.02	140.309	
2,200.00	2,195.19	2,415.29	2,414.11	7.70	8.28	-13.71	2,137.96	-261.32	2,086.24	2,070.39	15.85	131.593	
2,300.00	2,294.31	2,563.74	2,561.48	8.07	8.80	-13.70	2,121.74	-253.93	2,062.06	2,045.39	16.67	123.684	
2,400.00	2,393.43	2,678.59	2,675.20	8.45	9.21	-13.67	2,107.11	-247.27	2,035.99	2,018.58	17.40	116.998	
2,500.00	2,492.55	2,775.08	2,770.71	8.83	9.55	-13.64	2,094.63	-241.58	2,009.75	1,991.66	18.09	111.102	
2,600.00	2,591.67	2,871.58	2,866.23	9.21	9.90	-13.61	2,082.15	-235.90	1,983.52	1,964.74	18.78	105.623	
2,700.00	2,690.79	2,968.07	2,961.74	9.59	10.26	-13.58	2,069.67	-230.22	1,957.29	1,937.81	19.47	100.521	
2,800.00	2,789.91	3,064.56	3,057.25	9.98	10.61	-13.54	2,057.19	-224.53	1,931.05	1,910.89	20.17	95.759	
2,900.00	2,889.03	3,161.05	3,152.77	10.36	10.97	-13.51	2,044.71	-218.85	1,904.82	1,883.96	20.86	91.306	
3,000.00	2,988.16	3,257.55	3,248.28	10.75	11.34	-13.48	2,032.23	-213.16	1,878.59	1,857.03	21.56	87.133	
3,100.00	3,087.28	3,354.04	3,343.79	11.13	11.70	-13.44	2,019.75	-207.48	1,852.36	1,830.10	22.26	83.216	
3,200.00	3,186.40	3,450.53	3,439.30	11.52	12.07	-13.41	2,007.27	-201.80	1,826.13	1,803.17	22.96	79.532	
3,300.00	3,285.52	3,547.02	3,534.82	11.91	12.44	-13.37	1,994.79	-196.11	1,799.90	1,776.24	23.66	76.063	
3,400.00	3,384.64	3,643.52	3,630.33	12.30	12.81	-13.33	1,982.31	-190.43	1,773.67	1,749.31	24.37	72.790	
3,500.00	3,483.76	3,740.01	3,725.84	12.68	13.18	-13.30	1,969.83	-184.74	1,747.45	1,722.37	25.07	69.697	
3,600.00	3,582.88	3,836.50	3,821.36	13.07	13.55	-13.26	1,957.35	-179.06	1,721.22	1,695.44	25.78	66.771	
3,700.00	3,682.00	3,932.99	3,916.87	13.46	13.93	-13.21	1,944.87	-173.37	1,694.99	1,668.51	26.48	63.999	
3,800.00	3,781.12	4,029.49	4,012.38	13.85	14.30	-13.17	1,932.39	-167.69	1,668.77	1,641.57	27.19	61.369	
3,900.00	3,880.24	4,125.98	4,107.89	14.24	14.68	-13.13	1,919.91	-162.01	1,642.54	1,614.64	27.90	58.870	
4,000.00	3,979.36	4,222.47	4,203.41	14.63	15.06	-13.08	1,907.43	-156.32	1,616.32	1,587.71	28.61	56.494	
4,100.00	4,078.48	4,318.96	4,298.92	15.03	15.44	-13.04	1,894.95	-150.64	1,590.10	1,560.78	29.32	54.231	
4,200.00	4,177.60	4,415.45	4,394.43	15.42	15.82	-12.99	1,882.47	-144.95	1,563.87	1,533.84	30.03	52.074	
4,300.00	4,276.72	4,511.95	4,489.95	15.81	16.20	-12.94	1,869.99	-139.27	1,537.65	1,506.91	30.74	50.016	
4,400.00	4,375.84	4,608.44	4,585.46	16.20	16.58	-12.89	1,857.51	-133.58	1,511.44	1,479.98	31.46	48.050	
4,500.00	4,474.96	4,704.93	4,680.97	16.59	16.96	-12.83	1,845.03	-127.90	1,485.22	1,453.05	32.17	46.171	
4,600.00	4,574.08	4,801.42	4,776.48	16.99	17.34	-12.78	1,832.55	-122.22	1,459.00	1,426.12	32.88	44.372	
4,700.00	4,673.20	4,902.08	4,872.00	17.38	17.74	-12.72	1,820.07	-116.53	1,432.78	1,399.17	33.61	42.629	
4,800.00	4,772.32	5,005.59	4,967.51	17.77	18.16	-12.66	1,807.59	-110.85	1,406.57	1,372.22	34.35	40.947	
4,900.00	4,871.44	5,090.90	5,063.02	18.16	18.50	-12.60	1,795.11	-105.16	1,380.36	1,345.33	35.02	39.411	
5,000.00	4,970.56	5,187.39	5,158.54	18.56	18.88	-12.53	1,782.63	-99.48	1,354.15	1,318.41	35.74	37.889	
5,100.00	5,069.68	5,283.89	5,254.05	18.95	19.27	-12.47	1,770.15	-93.80	1,327.94	1,291.48	36.46	36.426	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 19 - #227H - OH - Prelim D														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	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning		
				(usft)	(usft)	(usft)	(%)	+N/S (usft)	+E/W (usft)	(usft)	(usft)	(usft)			
5,200.00	5,168.80	5,380.38	5,349.56	19.34	19.65	-12.40		1,757.67	-88.11	1,301.73	1,264.56	37.17	35.019		
5,300.00	5,267.92	5,476.87	5,445.08	19.74	20.04	-12.32		1,745.19	-82.43	1,275.52	1,237.63	37.89	33.665		
5,400.00	5,367.04	5,573.36	5,540.59	20.13	20.43	-12.25		1,732.71	-76.74	1,249.32	1,210.71	38.61	32.361		
5,500.00	5,466.16	5,669.86	5,636.10	20.53	20.81	-12.17		1,720.23	-71.06	1,223.12	1,183.79	39.32	31.104		
5,600.00	5,565.28	5,766.35	5,731.61	20.92	21.20	-12.09		1,707.75	-65.37	1,196.92	1,156.88	40.04	29.892		
5,700.00	5,664.40	5,862.84	5,827.13	21.31	21.59	-12.00		1,695.27	-59.69	1,170.72	1,129.96	40.76	28.723		
5,800.00	5,763.52	5,959.33	5,922.64	21.71	21.98	-11.91		1,682.79	-54.01	1,144.53	1,103.05	41.48	27.594		
5,900.00	5,862.65	6,055.83	6,018.15	22.10	22.37	-11.82		1,670.31	-48.32	1,118.33	1,076.14	42.20	26.503		
6,000.00	5,961.77	6,152.32	6,113.67	22.50	22.76	-11.72		1,657.83	-42.64	1,092.15	1,049.23	42.92	25.448		
6,100.00	6,060.89	6,248.81	6,209.18	22.89	23.14	-11.62		1,645.35	-36.95	1,065.96	1,022.32	43.64	24.428		
6,200.00	6,160.01	6,345.30	6,304.69	23.29	23.53	-11.51		1,632.87	-31.27	1,039.78	995.42	44.36	23.441		
6,300.00	6,259.13	6,441.80	6,400.20	23.68	23.92	-11.40		1,620.39	-25.59	1,013.60	968.52	45.08	22.486		
6,400.00	6,358.25	6,538.29	6,495.72	24.08	24.31	-11.28		1,607.91	-19.90	987.42	941.63	45.80	21.560		
6,500.00	6,457.37	6,634.78	6,591.23	24.47	24.70	-11.15		1,595.43	-14.22	961.25	914.73	46.52	20.664		
6,600.00	6,556.49	6,731.27	6,686.74	24.87	25.09	-11.02		1,582.95	-8.53	935.09	887.85	47.24	19.794		
6,700.00	6,655.61	6,827.77	6,782.26	25.26	25.49	-10.87		1,570.47	-2.85	908.93	860.96	47.96	18.951		
6,800.00	6,754.73	6,924.26	6,877.77	25.66	25.88	-10.72		1,557.99	2.84	882.77	834.09	48.69	18.132		
6,900.00	6,853.85	7,020.75	6,973.28	26.05	26.27	-10.57		1,545.51	8.52	856.62	807.21	49.41	17.338		
7,000.00	6,952.97	7,117.24	7,068.80	26.45	26.66	-10.40		1,533.03	14.20	830.48	780.35	50.13	16.566		
7,100.00	7,052.09	7,213.73	7,164.31	26.84	27.05	-10.22		1,520.55	19.89	804.34	753.49	50.86	15.816		
7,200.00	7,151.21	7,310.23	7,259.82	27.24	27.44	-10.03		1,508.07	25.57	778.21	726.63	51.58	15.088		
7,300.00	7,250.33	7,406.72	7,355.33	27.63	27.83	-9.82		1,495.58	31.26	752.09	699.79	52.30	14.379		
7,400.00	7,349.45	7,503.21	7,450.85	28.03	28.23	-9.60		1,483.10	36.94	725.99	672.95	53.03	13.690		
7,500.00	7,448.57	7,600.30	7,546.36	28.42	28.62	-9.36		1,470.62	42.63	699.89	646.13	53.76	13.019		
7,600.00	7,547.69	7,696.20	7,641.87	28.82	29.01	-9.11		1,458.14	48.31	673.80	619.32	54.48	12.367		
7,700.00	7,646.81	7,793.31	7,737.39	29.21	29.46	-8.83		1,445.66	53.99	647.73	592.46	55.27	11.720		
7,800.00	7,745.93	7,889.18	7,832.90	29.61	29.79	-8.54		1,433.18	59.68	621.67	565.73	55.94	11.113		
7,900.00	7,845.19	7,983.74	7,926.50	30.00	30.18	-8.15		1,421.00	65.23	596.78	540.09	56.68	10.528		
8,000.00	7,944.81	8,073.08	8,015.08	30.37	30.54	-7.75		1,410.39	70.06	576.23	518.77	57.46	10.028		
8,100.00	8,044.67	8,163.49	8,104.89	30.73	30.89	-7.36		1,400.94	74.36	560.53	502.30	58.23	9.626		
8,200.00	8,144.65	8,254.71	8,195.66	31.07	31.24	-6.97		1,392.72	78.11	549.73	490.75	58.98	9.320		
8,300.00	8,244.13	8,345.35	8,285.98	31.41	31.58	-6.05		1,385.85	81.24	537.02	477.28	59.74	8.990		
8,400.00	8,340.55	8,432.79	8,373.23	31.78	31.90	-6.03		1,380.45	83.70	516.75	456.24	60.51	8.540		
8,500.00	8,430.99	8,514.88	8,455.20	32.17	32.20	-6.46		1,376.49	85.50	491.32	429.99	61.33	8.011		
8,600.00	8,512.70	8,589.47	8,529.73	32.58	32.46	-7.42		1,373.82	86.72	464.70	402.42	62.28	7.462		
8,700.00	8,583.67	8,654.96	8,595.19	33.01	32.69	-8.53		1,372.20	87.45	444.11	380.66	63.45	7.000		
8,745.62	8,612.70	8,682.08	8,622.31	33.19	32.78	-90.76		1,371.73	87.67	441.47	377.40	64.07	6.890 CC, ES		
8,800.00	8,644.40	8,711.95	8,652.18	33.44	32.88	-96.03		1,371.34	87.84	445.40	380.55	64.85	6.868		
8,900.00	8,693.48	8,758.86	8,699.09	33.89	33.03	-102.46		1,371.03	87.99	473.49	407.24	66.25	7.147		
9,000.00	8,729.43	8,866.66	8,803.48	34.39	33.70	-124.67		1,353.75	62.43	523.76	459.06	64.71	8.095		
9,100.00	8,751.15	9,396.97	9,228.37	34.97	34.87	-160.11		1,218.31	-168.94	559.42	513.37	46.05	12.148		
9,200.00	8,758.00	9,775.18	9,330.00	35.62	35.74	-169.98		1,161.28	-521.57	575.80	540.33	35.46	16.237		
9,300.00	8,758.00	9,875.18	9,330.00	36.38	36.30	-169.98		1,161.20	-621.57	575.80	539.79	36.01	15.991		
9,400.00	8,758.00	9,975.18	9,330.00	37.27	37.05	-169.98		1,161.13	-721.57	575.79	539.17	36.63	15.721		
9,500.00	8,758.00	10,075.18	9,330.00	38.29	37.96	-169.98		1,161.05	-821.57	575.79	538.48	37.31	15.431		
9,600.00	8,758.00	10,175.18	9,330.00	39.43	39.00	-169.98		1,160.98	-921.57	575.79	537.72	38.07	15.124		
9,700.00	8,758.00	10,275.18	9,330.00	40.67	40.15	-169.98		1,160.90	-1,021.57	575.79	536.90	38.89	14.805		
9,800.00	8,758.00	10,375.18	9,330.00	42.00	41.41	-169.98		1,160.83	-1,121.57	575.79	536.02	39.77	14.477		
9,900.00	8,758.00	10,475.18	9,330.00	43.42	42.75	-169.98		1,160.75	-1,221.57	575.79	535.08	40.71	14.144		
10,000.00	8,758.00	10,575.18	9,330.00	44.92	44.17	-169.98		1,160.68	-1,321.57	575.79	534.09	41.70	13.809		
10,100.00	8,758.00	10,675.18	9,330.00	46.48	45.67	-169.98		1,160.60	-1,421.57	575.79	533.06	42.73	13.474		
10,200.00	8,758.00	10,775.18	9,330.00	48.11	47.23	-169.98		1,160.53	-1,521.57	575.79	531.97	43.81	13.142		

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

Pro Directional Anticollision Report

Company:	Malador Resources	Local Co-ordinate Reference:	Well #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - #227H - OH - Prelim D													Offset Site Error: 3.30 usft
Survey Program: 0-MWD+HDGM													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)	+E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,300.00	8,758.00	10,875.18	9,330.00	49.78	48.85	169.98	1,160.45	-1,621.57	575.78	530.85	44.93	12.814	
10,400.00	8,758.00	10,975.18	9,330.00	51.51	50.52	169.98	1,160.38	-1,721.57	575.78	529.69	46.10	12.491	
10,500.00	8,758.00	11,075.18	9,330.00	53.29	52.25	169.98	1,160.30	-1,821.57	575.78	528.49	47.29	12.175	
10,600.00	8,758.00	11,175.18	9,330.00	55.10	54.01	169.98	1,160.23	-1,921.57	575.78	527.26	48.52	11.867	
10,700.00	8,758.00	11,275.18	9,330.00	56.95	55.82	169.98	1,160.15	-2,021.57	575.78	526.00	49.78	11.567	
10,800.00	8,758.00	11,375.18	9,330.00	58.83	57.66	169.98	1,160.08	-2,121.57	575.78	524.71	51.07	11.275	
10,900.00	8,758.00	11,475.18	9,330.00	60.74	59.53	169.98	1,160.00	-2,221.57	575.78	523.40	52.38	10.992	
11,000.00	8,758.00	11,575.18	9,330.00	62.68	61.44	169.98	1,159.93	-2,321.57	575.78	522.06	53.72	10.719	
11,100.00	8,758.00	11,675.18	9,330.00	64.64	63.37	169.99	1,159.85	-2,421.57	575.78	520.70	55.08	10.454	
11,200.00	8,758.00	11,775.18	9,330.00	66.63	65.32	169.99	1,159.78	-2,521.57	575.78	519.32	56.46	10.199	
11,300.00	8,758.00	11,875.18	9,330.00	68.63	67.30	169.99	1,159.70	-2,621.57	575.77	517.92	57.86	9.952	
11,400.00	8,758.00	11,975.18	9,330.00	70.66	69.30	169.99	1,159.63	-2,721.57	575.77	516.50	59.27	9.714	
11,500.00	8,758.00	12,075.18	9,330.00	72.70	71.31	169.99	1,159.55	-2,821.57	575.77	515.07	60.71	9.484	
11,600.00	8,758.00	12,175.18	9,330.00	74.76	73.35	169.99	1,159.48	-2,921.57	575.77	513.61	62.16	9.263	
11,700.00	8,758.00	12,275.18	9,330.00	76.83	75.40	169.99	1,159.40	-3,021.57	575.77	512.15	63.62	9.050	
11,800.00	8,758.00	12,375.18	9,330.00	78.91	77.46	169.99	1,159.33	-3,121.57	575.77	510.67	65.10	8.845	
11,900.00	8,758.00	12,475.18	9,330.00	81.01	79.54	169.99	1,159.25	-3,221.57	575.77	509.18	66.59	8.647	
12,000.00	8,758.00	12,575.18	9,330.00	83.12	81.63	169.99	1,159.18	-3,321.57	575.77	507.68	68.09	8.456	
12,100.00	8,758.00	12,675.18	9,330.00	85.23	83.73	169.99	1,159.10	-3,421.57	575.77	506.17	69.60	8.273	
12,200.00	8,758.00	12,775.18	9,330.00	87.36	85.84	169.99	1,159.03	-3,521.57	575.77	504.64	71.12	8.095	
12,300.00	8,758.00	12,875.18	9,330.00	89.50	87.96	169.99	1,158.95	-3,621.57	575.76	503.11	72.65	7.925	
12,400.00	8,758.00	12,975.18	9,330.00	91.64	90.09	169.99	1,158.88	-3,721.57	575.76	501.57	74.19	7.760	
12,500.00	8,758.00	13,075.18	9,330.00	93.80	92.23	169.99	1,158.80	-3,821.57	575.76	500.02	75.74	7.601	
12,600.00	8,758.00	13,175.18	9,330.00	95.96	94.38	169.99	1,158.73	-3,921.57	575.76	498.46	77.30	7.448	
12,700.00	8,758.00	13,275.18	9,330.00	98.12	96.53	169.99	1,158.65	-4,021.57	575.76	496.89	78.87	7.301	
12,800.00	8,758.00	13,375.18	9,330.00	100.30	98.69	169.99	1,158.58	-4,121.57	575.76	495.32	80.44	7.158	
12,900.00	8,758.00	13,475.18	9,330.00	102.48	100.86	169.99	1,158.50	-4,221.57	575.76	493.74	82.02	7.020	
13,000.00	8,758.00	13,575.18	9,330.00	104.66	103.04	169.99	1,158.43	-4,321.57	575.76	492.16	83.60	6.887	
13,100.00	8,758.00	13,675.18	9,330.00	106.85	105.21	170.00	1,158.35	-4,421.57	575.76	490.57	85.19	6.759	
13,200.00	8,758.00	13,775.18	9,330.00	109.04	107.40	170.00	1,158.28	-4,521.57	575.75	488.97	86.79	6.634	
13,300.00	8,758.00	13,875.18	9,330.00	111.24	109.59	170.00	1,158.20	-4,621.57	575.75	487.37	88.39	6.514	
13,400.00	8,758.00	13,975.18	9,330.00	113.45	111.79	170.00	1,158.13	-4,721.57	575.75	485.76	89.99	6.398	
13,500.00	8,758.00	14,075.18	9,330.00	115.66	113.98	170.00	1,158.05	-4,821.57	575.75	484.15	91.60	6.285	
13,577.14	8,758.00	14,152.32	9,330.00	117.36	115.68	170.00	1,158.00	-4,898.71	575.75	482.90	92.85	6.201 SF	
13,600.00	8,758.00	14,147.61	9,330.00	117.87	115.58	170.00	1,158.00	-4,894.00	576.41	483.64	92.77	6.214	
13,623.51	8,758.00	14,147.61	9,330.00	118.39	115.58	170.00	1,158.00	-4,894.00	578.01	485.32	92.69	6.236	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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		Separation Factor		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			
0.00	0.00	0.00	0.00	0.00	1.10	134.06	-30.00	31.00	43.15						
100.00	100.00	98.95	98.95	0.13	1.11	134.17	-30.09	30.98	43.19	41.96	1.24	34.975			
200.00	200.00	198.84	198.84	0.49	1.20	134.68	-30.54	30.88	43.43	41.75	1.68	25.781 ES			
300.00	300.00	298.26	298.25	0.85	1.38	135.82	-31.89	30.99	44.48	42.26	2.22	20.030			
400.00	400.00	397.63	397.58	1.20	1.62	136.65	-34.12	32.21	46.95	44.13	2.81	16.688			
500.00	500.00	497.65	497.56	1.56	1.90	136.31	-36.12	34.50	49.97	46.53	3.44	14.520			
600.00	600.00	598.03	597.89	1.92	2.20	134.54	-36.80	37.40	52.48	48.38	4.10	12.811			
700.00	700.00	698.10	697.92	2.28	2.51	131.99	-36.33	40.37	54.32	49.55	4.77	11.394			
800.00	800.00	797.89	797.65	2.64	2.83	129.61	-36.14	43.66	56.69	51.24	5.45	10.408			
900.00	900.00	898.48	898.20	3.00	3.16	127.33	-35.60	46.67	58.70	52.57	6.14	9.569			
1,000.00	1,000.00	998.94	998.63	3.35	3.49	125.30	-34.38	48.57	59.51	52.68	6.83	8.716			
1,100.00	1,100.00	1,098.74	1,098.42	3.71	3.80	123.65	-33.38	50.14	60.23	52.74	7.49	8.041			
1,200.00	1,200.00	1,198.48	1,198.13	4.07	3.97	122.06	-32.60	52.05	61.42	53.40	8.02	7.656			
1,300.00	1,300.00	1,298.48	1,298.10	4.43	4.07	120.30	-31.75	54.34	62.94	54.46	8.48	7.422			
1,400.00	1,400.00	1,399.54	1,399.13	4.79	4.13	118.01	-29.97	56.34	63.82	54.92	8.90	7.173			
1,500.00	1,499.98	1,500.56	1,500.07	5.15	4.22	110.39	-26.33	56.94	63.33	53.99	9.34	6.780			
1,553.12	1,553.05	1,553.76	1,553.20	5.34	4.28	109.98	-23.50	57.21	63.14	53.55	9.59	6.584			
1,600.00	1,599.84	1,600.49	1,599.84	5.51	4.34	110.04	-20.79	57.65	63.33	53.51	9.81	6.452			
1,700.00	1,699.45	1,700.37	1,699.51	5.87	4.48	111.70	-14.50	59.06	64.86	54.54	10.32	6.287 SF			
1,800.00	1,798.71	1,798.77	1,797.76	6.23	4.64	116.21	-9.16	61.02	68.82	57.97	10.85	6.344			
1,900.00	1,897.83	1,897.76	1,896.66	6.59	4.82	122.06	-5.87	63.48	75.42	64.02	11.40	6.616			
2,000.00	1,996.95	1,997.26	1,996.07	6.95	5.03	127.07	-2.92	66.13	83.07	71.10	11.97	6.939			
2,100.00	2,096.07	2,097.18	2,095.89	7.32	5.25	130.78	0.75	69.09	90.92	78.36	12.56	7.239			
2,200.00	2,195.19	2,196.23	2,194.79	7.70	5.49	133.49	4.77	72.52	99.11	85.95	13.17	7.528			
2,300.00	2,294.31	2,294.81	2,293.29	8.07	5.74	136.43	7.51	75.38	108.17	94.39	13.78	7.850			
2,400.00	2,393.43	2,392.98	2,391.43	8.45	5.99	139.63	8.50	77.62	118.56	104.17	14.40	8.236			
2,500.00	2,492.55	2,492.36	2,490.77	8.83	6.26	142.38	9.12	80.04	129.68	114.66	15.03	8.631			
2,600.00	2,591.67	2,592.25	2,590.63	9.21	6.53	144.70	10.13	82.27	140.61	124.94	15.67	8.974			
2,700.00	2,690.79	2,691.47	2,689.84	9.59	6.81	146.77	11.17	84.14	151.55	135.23	16.32	9.288			
2,800.00	2,789.91	2,790.91	2,789.25	9.98	7.10	148.58	12.13	86.03	162.72	145.75	16.97	9.588			
2,900.00	2,889.03	2,889.91	2,888.22	10.36	7.40	150.07	13.39	88.03	173.82	156.19	17.63	9.859			
3,000.00	2,988.16	2,989.30	2,987.59	10.75	7.70	151.37	14.31	90.22	185.41	167.11	18.30	10.133			
3,100.00	3,087.28	3,089.34	3,087.60	11.13	8.01	152.56	15.64	92.16	196.60	177.63	18.97	10.363			
3,200.00	3,186.40	3,188.91	3,187.14	11.52	8.32	153.55	17.23	94.21	207.66	188.01	19.65	10.568			
3,300.00	3,285.52	3,288.75	3,286.94	11.91	8.63	154.41	19.03	96.35	218.62	198.28	20.33	10.752			
3,400.00	3,384.64	3,387.99	3,386.13	12.30	8.95	155.16	20.95	98.52	229.50	208.48	21.02	10.920			
3,500.00	3,483.76	3,482.35	3,480.48	12.68	9.24	156.21	21.36	99.32	241.44	219.78	21.65	11.149			
3,600.00	3,582.88	3,580.03	3,578.15	13.07	9.53	157.68	19.83	98.48	254.87	232.57	22.30	11.431			
3,700.00	3,682.00	3,678.37	3,676.46	13.46	9.82	159.14	17.84	97.13	268.76	245.82	22.95	11.713			
3,800.00	3,781.12	3,777.59	3,775.64	13.85	10.12	160.51	15.76	95.58	282.84	259.24	23.61	11.982			
3,900.00	3,880.24	3,878.03	3,876.05	14.24	10.42	161.82	13.99	93.67	296.67	272.40	24.28	12.220			
4,000.00	3,979.36	3,978.10	3,976.09	14.63	10.73	163.02	12.59	91.60	310.25	285.30	24.95	12.435			
4,100.00	4,078.48	4,079.44	4,077.40	15.03	11.04	164.13	11.86	89.39	323.28	297.64	25.64	12.610			
4,200.00	4,177.60	4,180.51	4,178.44	15.42	11.36	165.19	11.63	86.85	335.86	309.54	26.32	12.759			
4,300.00	4,276.72	4,282.27	4,280.16	15.81	11.69	166.17	12.27	84.28	347.71	320.69	27.02	12.869			
4,400.00	4,375.84	4,383.75	4,381.60	16.20	12.01	167.09	13.49	81.57	359.07	331.36	27.72	12.955			
4,500.00	4,474.96	4,484.65	4,482.43	16.59	12.34	168.04	15.30	78.20	369.86	341.45	28.41	13.017			
4,600.00	4,574.08	4,585.46	4,583.15	16.99	12.67	168.95	17.44	74.73	380.41	351.30	29.11	13.068			
4,700.00	4,673.20	4,686.61	4,684.21	17.38	13.01	169.81	20.06	71.21	390.58	360.76	29.81	13.101			
4,800.00	4,772.32	4,786.84	4,784.31	17.77	13.34	170.68	23.00	67.29	400.46	369.95	30.51	13.124			
4,900.00	4,871.44	4,882.82	4,880.22	18.16	13.66	171.34	25.60	64.46	410.69	379.50	31.19	13.166			
5,000.00	4,970.56	4,982.20	4,979.57	18.56	14.00	171.61	27.91	64.35	421.47	389.57	31.90	13.213			

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 19 - No. 124H - OH - OH Surveys 98'-12354' PTB 12417'														Offset Site Error:
Survey Program: 98-GYRO-NS-CT, 1243-MWD-HDGM														Offset Well Error:
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 (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
							+N-S (usft)	+E-W (usft)						
5,100.00	5,069.68	5,081.01	5,078.35	18.95	14.34	171.77	30.22	65.00	432.28	399.68	32.60	13.260		
5,200.00	5,168.80	5,180.42	5,177.73	19.34	14.67	172.02	32.44	64.89	443.16	409.85	33.31	13.305		
5,300.00	5,267.92	5,278.90	5,276.19	19.74	15.01	172.30	34.51	64.40	454.17	420.16	34.01	13.355		
5,400.00	5,367.04	5,377.81	5,375.07	20.13	15.35	172.61	36.51	63.59	465.26	430.55	34.71	13.404		
5,500.00	5,466.16	5,473.97	5,471.22	20.53	15.68	172.76	38.08	63.93	476.78	441.38	35.40	13.469		
5,600.00	5,565.28	5,569.38	5,566.61	20.92	16.00	172.72	38.93	65.85	489.07	452.99	36.08	13.555		
5,700.00	5,664.40	5,665.86	5,663.08	21.31	16.33	172.75	39.16	67.25	502.00	465.23	36.77	13.654		
5,800.00	5,763.52	5,762.60	5,759.81	21.71	16.65	172.84	38.86	68.03	515.46	478.01	37.45	13.765		
5,900.00	5,862.65	5,860.82	5,858.04	22.10	16.98	172.99	38.24	68.27	529.22	491.08	38.14	13.877		
6,000.00	5,961.77	5,960.70	5,957.90	22.50	17.31	173.23	37.58	67.62	543.00	504.17	38.84	13.982		
6,100.00	6,060.89	6,065.23	6,062.43	22.89	17.66	173.52	37.38	66.48	556.34	516.77	39.57	14.058		
6,200.00	6,160.01	6,168.37	6,165.56	23.29	18.01	173.57	38.41	67.59	568.50	528.19	40.31	14.104		
6,300.00	6,259.13	6,265.37	6,262.53	23.68	18.35	173.49	39.43	69.77	580.63	539.63	41.00	14.161		
6,400.00	6,358.25	6,363.41	6,360.55	24.08	18.69	173.47	40.02	71.47	593.19	551.49	41.70	14.224		
6,500.00	6,457.37	6,467.10	6,464.23	24.47	19.05	173.46	40.90	73.09	605.52	563.08	42.44	14.266		
6,600.00	6,556.49	6,569.66	6,566.76	24.87	19.40	173.51	42.55	74.08	617.09	573.91	43.18	14.292		
6,700.00	6,655.61	6,670.68	6,667.76	25.26	19.75	173.60	44.54	74.64	628.29	584.39	43.90	14.311		
6,800.00	6,754.73	6,770.04	6,767.10	25.66	20.10	173.72	46.62	74.73	639.37	594.75	44.61	14.331		
6,900.00	6,853.85	6,863.76	6,860.81	26.05	20.42	173.81	48.12	75.10	650.93	605.63	45.29	14.371		
7,000.00	6,952.97	6,961.50	6,958.54	26.45	20.77	173.86	49.20	75.92	663.00	617.00	46.00	14.413		
7,100.00	7,052.09	7,060.48	7,057.51	26.84	21.11	173.91	50.16	76.75	675.20	628.49	46.71	14.455		
7,200.00	7,151.21	7,159.02	7,156.04	27.24	21.45	173.94	51.07	77.69	687.44	640.02	47.42	14.496		
7,300.00	7,250.33	7,271.24	7,268.24	27.63	21.84	174.09	52.52	77.43	699.39	651.18	48.21	14.507		
7,400.00	7,349.45	7,497.61	7,484.63	28.03	22.61	178.58	79.73	25.73	700.57	651.52	49.05	14.283		
7,495.29	7,443.91	7,556.97	7,535.18	28.40	22.82	-178.97	91.26	-3.08	697.36	647.52	49.84	13.993		
7,500.00	7,448.57	7,559.27	7,537.09	28.42	22.83	-178.87	91.67	-4.32	697.37	647.50	49.87	13.983		
7,600.00	7,547.69	7,603.83	7,573.14	28.82	23.00	-176.75	98.43	-29.59	702.20	651.74	50.46	13.915		
7,700.00	7,646.81	7,644.76	7,605.15	29.21	23.15	-174.69	102.60	-54.74	716.40	665.68	50.72	14.126		
7,800.00	7,745.93	7,691.16	7,640.22	29.61	23.34	-172.30	105.44	-84.99	739.52	688.79	50.73	14.577		
7,900.00	7,845.19	7,750.32	7,683.39	30.00	23.59	-169.29	108.23	-125.32	768.71	717.97	50.73	15.153		
8,000.00	7,944.81	7,806.27	7,721.53	30.37	23.86	-166.42	111.32	-166.13	801.18	750.65	50.53	15.855		
8,100.00	8,044.67	7,868.44	7,759.48	30.73	24.19	-163.10	116.81	-215.02	836.82	786.52	50.29	16.639		
8,200.00	8,144.65	7,920.65	7,788.64	31.07	24.51	-99.35	123.26	-257.85	875.53	825.77	49.76	17.595		
8,300.00	8,244.13	7,957.00	7,807.69	31.41	24.75	-92.39	128.27	-288.40	920.27	871.41	48.86	18.835		
8,400.00	8,340.55	8,004.00	7,830.69	31.78	25.09	-84.42	134.71	-328.87	971.11	922.88	48.23	20.134		
8,500.00	8,430.99	8,029.59	7,842.20	32.17	25.29	-77.23	137.83	-351.51	1,025.56	978.24	47.32	21.673		
8,600.00	8,512.70	8,051.00	7,851.07	32.58	25.46	-70.32	140.03	-370.87	1,081.57	1,035.02	46.55	23.236		
8,700.00	8,583.67	8,098.00	7,867.67	33.01	25.86	-62.44	143.85	-414.65	1,136.14	1,089.63	46.51	24.429		
8,800.00	8,644.40	8,117.68	7,873.46	33.44	26.04	-55.80	145.15	-433.41	1,181.54	1,135.48	46.06	25.651		
8,900.00	8,693.48	8,144.00	7,880.27	33.89	26.28	-51.31	146.78	-458.78	1,216.52	1,170.67	45.86	26.529		
9,000.00	8,729.43	8,191.00	7,889.44	34.39	26.75	-48.46	149.03	-504.81	1,240.37	1,194.25	46.13	26.890		
9,100.00	8,751.15	8,214.71	7,892.43	34.97	26.99	-46.94	149.71	-528.31	1,253.20	1,207.00	46.20	27.125		
9,200.00	8,758.00	8,251.16	7,894.81	35.62	27.38	-46.57	150.13	-564.68	1,254.99	1,208.35	46.64	26.908		
9,300.00	8,758.00	8,316.96	7,896.43	36.38	28.11	-46.61	150.48	-630.45	1,252.86	1,205.26	47.60	26.319		
9,400.00	8,758.00	8,408.78	7,895.98	37.27	29.22	-46.58	151.09	-722.27	1,252.65	1,203.63	49.02	25.554		
9,500.00	8,758.00	8,510.48	7,894.34	38.29	30.58	-46.47	152.80	-823.94	1,252.48	1,201.77	50.72	24.696		
9,543.74	8,758.00	8,551.17	7,893.36	38.78	31.16	-46.40	153.79	-864.61	1,252.42	1,200.96	51.46	24.338		
9,600.00	8,758.00	8,602.44	7,891.86	39.43	31.91	-46.31	155.05	-915.85	1,252.53	1,200.13	52.40	23.905		
9,700.00	8,758.00	8,694.76	7,888.48	40.67	33.33	-46.13	157.30	-1,008.07	1,253.25	1,199.05	54.20	23.124		
9,800.00	8,758.00	8,800.95	7,885.40	42.00	35.05	-45.97	158.96	-1,114.19	1,254.09	1,197.71	56.38	22.243		
9,900.00	8,758.00	8,886.27	7,884.06	43.42	36.49	-45.93	158.84	-1,199.51	1,255.22	1,196.85	58.38	21.501		
10,000.00	8,758.00	8,969.01	7,881.75	44.92	37.93	-45.87	158.29	-1,282.21	1,257.60	1,197.21	60.40	20.822		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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		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			
10,100.00	8,758.00	9,093.78	7,877.52	46.48	40.18	-45.72	158.47	-1,406.91	1,259.85	1,196.57	63.28	19.909			
10,200.00	8,758.00	9,185.35	7,875.52	48.11	41.88	-45.65	158.61	-1,498.45	1,261.22	1,195.59	65.63	19.216			
10,300.00	8,758.00	9,264.33	7,872.66	49.78	43.37	-45.56	158.47	-1,577.38	1,263.83	1,196.07	67.75	18.653			
10,400.00	8,758.00	9,380.99	7,869.23	51.51	45.62	-45.49	157.30	-1,693.97	1,266.55	1,195.78	70.77	17.896			
10,500.00	8,758.00	9,476.75	7,869.07	53.29	47.49	-45.56	154.60	-1,789.70	1,268.64	1,195.10	73.54	17.252			
10,600.00	8,758.00	9,554.81	7,868.31	55.10	49.03	-45.63	151.66	-1,867.69	1,271.96	1,196.03	75.93	16.751			
10,700.00	8,758.00	9,633.84	7,865.71	56.95	50.61	-45.64	148.63	-1,946.62	1,276.96	1,198.63	78.32	16.303			
10,800.00	8,758.00	9,768.46	7,861.42	58.83	53.34	-45.65	143.85	-2,081.08	1,281.76	1,199.67	82.09	15.614			
10,900.00	8,758.00	9,880.86	7,861.77	60.74	55.65	-45.77	140.28	-2,193.41	1,283.69	1,198.19	85.50	15.014			
11,000.00	8,758.00	9,961.46	7,860.97	62.68	57.32	-45.82	137.83	-2,273.97	1,286.53	1,198.42	88.10	14.602			
11,100.00	8,758.00	10,040.27	7,858.56	64.64	58.96	-45.82	135.17	-2,352.70	1,291.02	1,200.40	90.63	14.246			
11,200.00	8,758.00	10,121.75	7,854.44	66.63	60.67	-45.78	132.32	-2,434.03	1,297.00	1,203.84	93.16	13.922			
11,300.00	8,758.00	10,203.00	7,848.73	68.63	62.38	-45.69	129.34	-2,515.02	1,304.47	1,208.84	95.63	13.641			
11,400.00	8,758.00	10,351.65	7,840.08	70.66	65.53	-45.54	125.25	-2,663.35	1,310.33	1,210.51	99.82	13.127			
11,500.00	8,758.00	10,439.51	7,835.84	72.70	67.41	-45.44	123.95	-2,751.10	1,314.78	1,212.27	102.51	12.826			
11,600.00	8,758.00	10,546.50	7,828.74	74.76	69.71	-45.28	122.18	-2,857.84	1,320.62	1,215.03	105.59	12.507			
11,700.00	8,758.00	10,686.66	7,821.26	76.83	72.75	-45.01	123.32	-2,997.79	1,323.72	1,214.36	109.36	12.104			
11,800.00	8,758.00	10,759.29	7,816.79	78.91	74.33	-44.83	124.52	-3,070.26	1,326.77	1,215.20	111.57	11.892			
11,900.00	8,758.00	10,881.45	7,809.42	81.01	77.00	-44.53	126.89	-3,192.17	1,329.63	1,214.80	114.83	11.579			
12,000.00	8,758.00	10,975.74	7,804.38	83.12	79.07	-44.32	128.86	-3,286.32	1,331.94	1,214.44	117.51	11.335			
12,100.00	8,758.00	11,086.65	7,798.02	85.23	81.51	-44.06	130.91	-3,397.01	1,334.78	1,214.26	120.52	11.075			
12,200.00	8,758.00	11,202.71	7,796.01	87.36	84.07	-43.97	132.01	-3,513.05	1,335.22	1,211.29	123.92	10.775			
12,300.00	8,758.00	11,289.65	7,793.75	89.50	85.99	-43.87	132.99	-3,599.96	1,336.27	1,209.65	126.62	10.554			
12,400.00	8,758.00	11,372.60	7,790.49	91.64	87.83	-43.75	133.75	-3,682.84	1,338.42	1,209.27	129.16	10.363			
12,500.00	8,758.00	11,472.87	7,785.11	93.80	90.05	-43.56	134.62	-3,782.96	1,341.67	1,209.66	132.00	10.164			
12,600.00	8,758.00	11,609.31	7,782.01	95.96	93.08	-43.46	134.70	-3,919.35	1,343.26	1,207.35	135.91	9.884			
12,700.00	8,758.00	11,697.93	7,781.29	98.12	95.06	-43.44	134.62	-4,007.97	1,343.85	1,205.05	138.80	9.682			
12,800.00	8,758.00	11,779.23	7,779.87	100.30	96.87	-43.41	134.11	-4,089.26	1,345.51	1,204.02	141.49	9.510			
12,900.00	8,758.00	11,951.05	7,778.31	102.48	100.71	-43.32	135.43	-4,261.03	1,345.89	1,199.71	146.18	9.207			
13,000.00	8,758.00	12,060.00	7,780.40	104.66	103.16	-43.27	139.13	-4,369.90	1,342.06	1,192.59	149.47	8.979			
13,100.00	8,758.00	12,144.68	7,781.22	106.85	105.06	-43.20	142.09	-4,454.53	1,338.93	1,186.71	152.22	8.796			
13,200.00	8,758.00	12,222.37	7,780.68	109.04	106.81	-43.10	144.60	-4,532.17	1,337.20	1,182.46	154.74	8.642			
13,248.93	8,758.00	12,260.00	7,779.97	110.12	107.66	-43.05	145.55	-4,569.79	1,337.00	1,181.07	155.93	8.574			
13,300.00	8,758.00	12,303.80	7,778.82	111.24	108.64	-42.98	146.56	-4,613.55	1,337.15	1,179.90	157.25	8.503			
13,400.00	8,758.00	12,396.33	7,775.48	113.45	110.73	-42.81	148.79	-4,706.00	1,338.10	1,178.21	159.89	8.369			
13,500.00	8,758.00	12,417.00	7,774.68	115.66	111.19	-42.77	149.30	-4,726.65	1,341.56	1,180.76	160.79	8.343			
13,600.00	8,758.00	12,417.00	7,774.68	117.87	111.19	-42.77	149.30	-4,726.65	1,352.26	1,191.74	160.53	8.424			
13,623.51	8,758.00	12,417.00	7,774.68	118.39	111.19	-42.77	149.30	-4,726.65	1,355.84	1,195.48	160.36	8.455			

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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			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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
0.00	0.00	4.94	4.94	3.30	0.01	-7.44	2,107.00	-275.00	2,124.87				
100.00	100.00	104.05	104.05	3.30	0.14	-7.43	2,107.05	-274.86	2,124.90	2,121.45	3.45	616.793	
200.00	200.00	205.75	205.75	3.34	0.50	-7.43	2,107.06	-274.63	2,124.88	2,121.04	3.83	554.301	
212.14	212.14	217.14	217.14	3.34	0.54	-7.43	2,107.06	-274.61	2,124.87	2,121.00	3.88	547.676	
300.00	300.00	297.14	297.14	3.41	0.82	-7.42	2,107.18	-274.47	2,125.00	2,120.77	4.22	503.151	
400.00	400.00	374.28	374.27	3.51	1.09	-7.42	2,107.90	-274.34	2,125.90	2,121.30	4.60	462.238	
500.00	500.00	462.01	461.99	3.65	1.40	-7.40	2,109.48	-274.13	2,127.66	2,122.61	5.04	421.768	
600.00	600.00	559.61	559.57	3.82	1.75	-7.39	2,111.58	-273.96	2,129.76	2,124.21	5.55	383.494	
700.00	700.00	687.61	687.55	4.01	2.20	-7.38	2,113.67	-273.66	2,131.39	2,125.19	6.19	344.057	
800.00	800.00	831.34	831.27	4.22	2.70	-7.34	2,113.41	-272.27	2,131.04	2,124.13	6.91	308.400	
900.00	900.00	926.02	925.93	4.46	3.03	-7.31	2,112.42	-270.80	2,129.81	2,122.33	7.47	284.989	
1,000.00	1,000.00	1,019.42	1,019.33	4.71	3.36	-7.28	2,111.81	-269.67	2,129.00	2,120.96	8.05	264.539	
1,100.00	1,100.00	1,121.11	1,121.01	4.97	3.71	-7.26	2,111.19	-269.06	2,128.33	2,119.66	8.66	245.700	
1,200.00	1,200.00	1,236.45	1,236.34	5.24	3.92	-7.26	2,109.93	-268.81	2,127.21	2,118.07	9.14	232.684	
1,300.00	1,300.00	1,345.96	1,345.84	5.52	3.98	-7.27	2,108.05	-268.92	2,125.52	2,116.04	9.48	224.103	
1,400.00	1,400.00	1,517.18	1,516.91	5.82	4.11	-7.20	2,102.24	-265.71	2,121.91	2,112.01	9.90	214.295	
1,500.00	1,499.98	1,665.36	1,664.66	6.11	4.31	-13.04	2,093.35	-258.77	2,113.62	2,103.25	10.38	203.701	
1,600.00	1,599.84	1,808.61	1,807.21	6.42	4.55	-12.96	2,082.18	-250.21	2,100.13	2,089.23	10.90	192.662	
1,700.00	1,699.45	1,928.42	1,926.15	6.73	4.80	-12.91	2,070.54	-241.78	2,081.14	2,069.70	11.44	181.944	
1,800.00	1,798.71	1,998.00	1,995.30	7.05	4.96	-12.95	2,064.12	-237.52	2,059.53	2,047.62	11.91	172.889	
1,900.00	1,897.83	2,103.56	2,100.32	7.37	5.22	-12.92	2,054.77	-232.39	2,037.40	2,024.93	12.46	163.464	
2,000.00	1,996.95	2,212.56	2,208.67	7.70	5.50	-12.91	2,044.06	-227.32	2,014.29	2,001.25	13.04	154.438	
2,100.00	2,096.07	2,284.00	2,279.71	8.03	5.70	-12.87	2,037.64	-223.34	1,991.93	1,978.37	13.56	146.900	
2,200.00	2,195.19	2,373.98	2,369.20	8.38	5.96	-12.80	2,030.41	-217.34	1,970.37	1,956.24	14.13	139.447	
2,300.00	2,294.31	2,487.25	2,481.72	8.72	6.29	-12.66	2,021.26	-208.10	1,948.60	1,933.83	14.77	131.934	
2,400.00	2,393.43	2,598.60	2,592.13	9.07	6.64	-12.46	2,011.61	-197.39	1,926.11	1,910.69	15.42	124.914	
2,500.00	2,492.55	2,716.37	2,708.99	9.43	7.02	-12.32	2,000.17	-188.25	1,902.83	1,886.74	16.09	118.232	
2,600.00	2,591.67	2,858.16	2,849.42	9.78	7.50	-12.17	1,983.94	-177.43	1,877.92	1,861.09	16.83	111.580	
2,700.00	2,690.79	2,912.14	2,902.92	10.15	7.69	-12.11	1,977.98	-173.45	1,853.15	1,835.77	17.38	106.640	
2,800.00	2,789.91	2,996.81	2,986.99	10.51	7.98	-12.04	1,969.50	-167.92	1,829.69	1,811.70	18.00	101.667	
2,900.00	2,889.03	3,098.44	3,087.93	10.87	8.33	-11.96	1,959.35	-161.80	1,806.35	1,787.69	18.66	96.799	
3,000.00	2,988.16	3,194.83	3,183.63	11.24	8.67	-11.88	1,949.55	-155.76	1,782.80	1,763.48	19.32	92.285	
3,100.00	3,087.28	3,251.00	3,239.45	11.61	8.86	-11.84	1,944.31	-152.44	1,760.25	1,740.37	19.88	88.531	
3,200.00	3,186.40	3,306.00	3,294.28	11.98	9.05	-11.82	1,940.86	-149.90	1,740.49	1,720.05	20.44	85.151	
3,300.00	3,285.52	3,378.37	3,366.53	12.36	9.29	-11.80	1,937.70	-147.18	1,722.74	1,701.70	21.04	81.887	
3,400.00	3,384.64	3,478.62	3,466.63	12.73	9.62	-11.79	1,933.66	-143.61	1,705.47	1,683.76	21.71	78.547	
3,500.00	3,483.76	3,577.98	3,565.85	13.11	9.95	-11.77	1,929.47	-139.99	1,688.00	1,665.61	22.39	75.395	
3,600.00	3,582.88	3,662.39	3,650.11	13.48	10.23	-11.74	1,926.28	-136.34	1,670.90	1,647.87	23.03	72.558	
3,700.00	3,682.00	3,856.03	3,842.49	13.86	10.92	-11.35	1,913.93	-118.95	1,650.17	1,626.21	23.96	68.861	
3,800.00	3,781.12	3,945.27	3,930.90	14.24	11.26	-11.11	1,906.56	-109.24	1,628.09	1,603.45	24.64	66.068	
3,900.00	3,880.24	4,032.35	4,017.23	14.62	11.58	-10.87	1,899.90	-100.01	1,606.66	1,581.34	25.32	63.458	
4,000.00	3,979.36	4,122.61	4,106.77	15.00	11.91	-10.63	1,893.50	-90.58	1,585.82	1,559.81	26.00	60.983	
4,100.00	4,078.48	4,214.26	4,197.72	15.38	12.25	-10.38	1,887.36	-81.10	1,565.39	1,538.70	26.69	58.640	
4,200.00	4,177.60	4,302.74	4,285.56	15.77	12.58	-10.13	1,881.82	-72.00	1,545.44	1,518.06	27.38	56.445	
4,300.00	4,276.72	4,392.83	4,375.05	16.15	12.91	-9.88	1,876.73	-63.02	1,526.13	1,498.06	28.07	54.370	
4,400.00	4,375.84	4,530.72	4,511.99	16.53	13.42	-9.50	1,867.95	-49.39	1,506.34	1,477.47	28.87	52.177	
4,500.00	4,474.96	4,638.68	4,618.96	16.92	13.84	-9.17	1,858.75	-38.13	1,484.26	1,454.65	29.61	50.134	
4,600.00	4,574.08	4,727.05	4,706.53	17.30	14.18	-8.89	1,851.26	-28.94	1,462.27	1,431.97	30.31	48.252	
4,700.00	4,673.20	4,816.30	4,795.04	17.69	14.52	-8.61	1,844.20	-20.00	1,440.91	1,409.90	31.01	46.471	
4,800.00	4,772.32	4,907.57	4,885.61	18.08	14.87	-8.32	1,837.42	-10.92	1,420.05	1,388.34	31.71	44.778	
4,900.00	4,871.44	4,998.59	4,975.98	18.46	15.21	-8.04	1,831.05	-2.12	1,399.67	1,367.25	32.42	43.174	
5,000.00	4,970.56	5,091.43	5,068.23	18.85	15.56	-7.76	1,825.03	6.41	1,379.84	1,346.71	33.13	41.651	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/S (usft)	+E/W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.00	5,069.68	5,216.14	5,192.24	19.24	16.03	-7.48	-7.29	1,815.53	15.52	1,358.96	1,325.07	33.89	40.099		
5,200.00	5,168.80	5,313.18	5,288.71	19.62	16.40	-7.29	-7.14	1,807.09	21.66	1,337.10	1,302.50	34.60	38.644		
5,300.00	5,267.92	5,399.42	5,374.54	20.01	16.72	-7.14	-7.01	1,800.18	26.60	1,315.95	1,280.66	35.29	37.285		
5,400.00	5,367.04	5,488.77	5,463.54	20.40	17.05	-7.01	-6.89	1,793.69	31.14	1,295.55	1,259.56	35.99	35.997		
5,500.00	5,466.16	5,579.27	5,553.74	20.79	17.38	-6.89	-6.79	1,787.60	35.26	1,275.70	1,239.01	36.69	34.773		
5,600.00	5,565.28	5,668.42	5,642.65	21.18	17.70	-6.79	-5.70	1,782.23	38.99	1,256.55	1,219.17	37.38	33.615		
5,700.00	5,664.40	5,755.40	5,729.44	21.57	18.02	-6.70	-5.70	1,777.52	42.29	1,238.02	1,199.95	38.07	32.521		
5,800.00	5,763.52	5,830.00	5,803.90	21.96	18.28	-6.59	-5.70	1,774.71	45.64	1,221.08	1,182.35	38.73	31.528		
5,900.00	5,862.65	5,904.11	5,877.89	22.35	18.54	-6.46	-5.70	1,773.39	49.60	1,206.11	1,166.73	39.38	30.627		
6,000.00	5,961.77	6,024.72	5,998.22	22.74	18.96	-6.16	-5.70	1,771.80	57.56	1,191.69	1,151.54	40.15	29.681		
6,100.00	6,060.89	6,151.87	6,124.81	23.13	19.43	-5.70	-5.06	1,767.21	68.58	1,175.02	1,134.08	40.93	28.705		
6,200.00	6,160.01	6,341.53	6,313.01	23.52	20.16	-5.06	-5.02	1,750.04	83.54	1,152.90	1,111.20	41.70	27.646		
6,300.00	6,259.13	6,435.92	6,406.54	23.91	20.51	-5.02	-5.03	1,737.45	85.11	1,126.65	1,084.25	42.40	26.570		
6,400.00	6,358.25	6,514.72	6,484.80	24.30	20.80	-5.03	-5.01	1,728.25	85.73	1,101.97	1,058.85	43.11	25.560		
6,500.00	6,457.37	6,605.35	6,574.90	24.69	21.14	-5.01	-4.98	1,718.55	86.95	1,078.27	1,034.46	43.81	24.610		
6,600.00	6,556.49	6,700.19	6,669.21	25.08	21.48	-4.98	-4.96	1,708.72	88.40	1,054.91	1,010.39	44.51	23.698		
6,700.00	6,655.61	6,789.64	6,758.21	25.48	21.81	-4.96	-5.08	1,699.75	89.54	1,031.89	986.67	45.22	22.821		
6,800.00	6,754.73	6,870.30	6,838.56	25.87	22.09	-5.08	-5.28	1,692.86	88.31	1,010.25	964.34	45.91	22.003		
6,900.00	6,853.85	6,958.68	6,926.66	26.26	22.39	-5.28	-5.52	1,686.36	85.90	989.77	943.18	46.60	21.241		
7,000.00	6,952.97	7,032.99	7,000.79	26.65	22.63	-5.52	-5.82	1,682.21	82.79	971.03	923.77	47.27	20.544		
7,100.00	7,052.09	7,104.17	7,071.82	27.04	22.84	-5.82	-6.20	1,680.09	78.65	954.88	906.98	47.90	19.934		
7,200.00	7,151.21	7,194.20	7,161.71	27.44	23.11	-6.20	-6.74	1,679.62	73.67	941.15	892.61	48.55	19.386		
7,300.00	7,250.33	7,311.10	7,278.39	27.83	23.46	-6.74	-7.90	1,677.93	66.77	926.64	877.41	49.23	18.822		
7,400.00	7,349.45	7,406.83	7,372.40	28.22	23.72	-7.90	-9.98	1,674.89	50.07	910.73	860.87	49.86	18.264		
7,500.00	7,448.57	7,488.88	7,448.23	28.61	23.91	-9.98	-12.55	1,672.94	19.08	897.12	846.68	50.44	17.786		
7,600.00	7,547.69	7,565.30	7,514.46	29.01	24.06	-12.55	-14.73	1,670.80	-18.91	886.30	835.33	50.97	17.389		
7,700.00	7,646.81	7,621.78	7,560.80	29.40	24.15	-14.73	-15.55	1,669.74	-51.17	880.60	829.26	51.35	17.150		
7,737.64	7,684.12	7,642.00	7,576.90	29.55	24.19	-15.55	-17.11	1,669.65	-63.40	880.16	828.71	51.44	17.109 CC, ES		
7,800.00	7,745.93	7,679.43	7,606.24	29.79	24.24	-17.11	-19.94	1,669.75	-86.64	881.38	829.78	51.59	17.084		
7,900.00	7,845.19	7,744.56	7,656.03	30.18	24.35	-19.94	-22.45	1,670.07	-128.61	889.10	837.32	51.78	17.171		
8,000.00	7,944.81	7,798.24	7,695.04	30.55	24.44	-22.45	-24.90	1,670.13	-165.47	906.10	854.38	51.72	17.519		
8,100.00	8,044.67	7,845.48	7,726.46	30.91	24.52	-24.90	33.19	1,669.59	-200.72	933.00	881.57	51.43	18.142		
8,200.00	8,144.65	7,896.33	7,757.58	31.24	24.63	33.19	28.96	1,668.05	-240.91	969.18	918.11	51.06	18.981		
8,300.00	8,244.13	7,945.28	7,786.20	31.58	24.76	28.96	26.12	1,666.12	-280.57	1,005.35	954.81	50.55	19.890		
8,400.00	8,340.55	7,983.27	7,807.40	31.95	24.90	26.12	24.12	1,664.76	-312.05	1,033.04	983.34	49.71	20.783		
8,500.00	8,430.99	8,016.00	7,824.21	32.34	25.05	24.12	25.19	1,664.02	-340.12	1,052.40	1,003.78	48.62	21.646		
8,600.00	8,512.70	8,043.32	7,836.94	32.74	25.19	22.80	24.91	1,663.72	-364.29	1,063.07	1,015.76	47.31	22.471		
8,700.00	8,583.67	8,076.39	7,850.60	33.17	25.39	24.91	28.75	1,663.54	-394.40	1,065.95	1,019.95	46.01	23.170		
8,800.00	8,644.40	8,109.00	7,861.98	33.60	25.60	28.75	30.98	1,662.78	-424.94	1,067.23	1,022.49	44.75	23.851		
8,900.00	8,693.48	8,156.00	7,875.28	34.05	25.95	30.98	32.51	1,661.01	-469.98	1,067.10	1,023.19	43.90	24.307		
9,000.00	8,729.43	8,203.00	7,885.37	34.55	26.33	32.51	26.59	1,659.21	-515.83	1,065.24	1,021.87	43.37	24.559		
9,100.00	8,751.15	8,232.01	7,889.87	35.12	26.59	33.74	27.00	1,658.49	-544.48	1,061.62	1,018.47	43.14	24.606		
9,200.00	8,758.00	8,274.94	7,894.19	35.77	27.00	34.51	27.67	1,658.42	-587.19	1,056.40	1,012.74	43.67	24.191		
9,300.00	8,758.00	8,343.00	7,897.18	36.53	27.67	34.63	27.76	1,658.87	-655.17	1,052.73	1,008.04	44.70	23.553		
9,341.48	8,758.00	8,351.23	7,897.25	36.89	27.76	34.63	28.27	1,658.95	-663.39	1,052.20	1,007.11	45.09	23.334		
9,400.00	8,758.00	8,396.59	7,897.15	37.42	28.27	34.65	29.26	1,659.27	-708.75	1,052.57	1,006.76	45.81	22.979		
9,500.00	8,758.00	8,480.66	7,894.92	38.44	29.26	34.58	30.75	1,659.23	-792.79	1,054.73	1,007.63	47.10	22.392		
9,600.00	8,758.00	8,594.70	7,890.50	39.57	30.75	34.39	32.31	1,657.99	-906.74	1,057.42	1,008.87	48.56	21.778		
9,700.00	8,758.00	8,703.50	7,888.60	40.80	32.31	34.27	33.72	1,656.55	-1,015.51	1,058.13	1,007.97	50.16	21.094		
9,800.00	8,758.00	8,796.27	7,886.33	42.13	33.72	34.12	35.19	1,654.62	-1,108.23	1,059.03	1,007.25	51.78	20.452		
9,900.00	8,758.00	8,887.70	7,882.50	43.55	35.19	33.87	37.28	1,651.65	-1,199.54	1,060.73	1,007.33	53.40	19.862		
10,000.00	8,758.00	9,012.52	7,878.86	45.04	37.28	33.64		1,648.75	-1,324.24	1,061.96	1,006.67	55.29	19.207		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	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		Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
10,002.81	8,758.00	9,016.25	7,878.86	45.08	37.34	33.64	1,648.73	-1,327.97	1,061.95	1,006.60	55.35	19.186		
10,100.00	8,758.00	9,104.82	7,878.35	46.60	38.91	33.61	1,648.43	-1,416.54	1,062.26	1,005.01	57.24	18.557		
10,200.00	8,758.00	9,194.51	7,876.94	48.22	40.52	33.55	1,647.92	-1,506.21	1,063.28	1,004.08	59.20	17.959		
10,300.00	8,758.00	9,290.95	7,873.84	49.89	42.31	33.37	1,645.99	-1,602.58	1,064.90	1,003.74	61.16	17.411		
10,400.00	8,758.00	9,384.35	7,871.82	51.62	44.07	33.34	1,646.51	-1,695.95	1,067.06	1,003.78	63.28	16.863		
10,500.00	8,758.00	9,481.32	7,870.38	53.39	45.94	33.40	1,648.75	-1,792.88	1,069.60	1,004.04	65.56	16.315		
10,600.00	8,758.00	9,589.60	7,867.89	55.20	48.06	33.41	1,650.47	-1,901.11	1,072.47	1,004.55	67.92	15.790		
10,700.00	8,758.00	9,719.34	7,869.79	57.04	50.65	33.59	1,653.32	-2,030.80	1,072.35	1,001.68	70.68	15.172		
10,800.00	8,758.00	9,819.69	7,871.69	58.92	52.68	33.70	1,654.46	-2,131.13	1,071.44	998.24	73.20	14.638		
10,851.77	8,758.00	9,862.24	7,872.03	59.91	53.55	33.72	1,654.47	-2,173.68	1,071.14	996.74	74.40	14.398		
10,900.00	8,758.00	9,897.50	7,871.73	60.83	54.28	33.70	1,654.38	-2,208.93	1,071.43	995.97	75.46	14.199		
11,000.00	8,758.00	9,972.85	7,869.37	62.77	55.83	33.62	1,654.09	-2,284.25	1,073.84	996.23	77.62	13.835		
11,100.00	8,758.00	10,060.37	7,864.82	64.73	57.64	33.50	1,654.21	-2,371.65	1,078.25	998.43	79.82	13.508		
11,200.00	8,758.00	10,163.41	7,860.09	66.71	59.80	33.40	1,655.14	-2,474.57	1,082.62	1,000.41	82.21	13.168		
11,300.00	8,758.00	10,259.12	7,854.94	68.71	61.81	33.26	1,655.20	-2,570.14	1,087.18	1,002.70	84.48	12.869		
11,400.00	8,758.00	10,369.02	7,847.67	70.74	64.13	32.97	1,653.23	-2,679.77	1,091.81	1,005.14	86.67	12.597		
11,500.00	8,758.00	10,460.37	7,841.06	72.77	66.07	32.61	1,649.42	-2,770.79	1,095.72	1,007.13	88.59	12.369		
11,600.00	8,758.00	10,549.65	7,836.09	74.83	67.98	32.52	1,650.39	-2,859.92	1,101.02	1,010.15	90.87	12.117		
11,700.00	8,758.00	10,692.39	7,830.64	76.90	71.06	32.48	1,652.83	-3,002.52	1,105.41	1,011.67	93.73	11.793		
11,800.00	8,758.00	10,804.41	7,829.51	78.98	73.48	32.47	1,653.16	-3,114.54	1,106.43	1,010.06	96.37	11.481		
11,900.00	8,758.00	10,901.53	7,828.22	81.07	75.59	32.40	1,652.42	-3,211.65	1,107.19	1,008.38	98.81	11.206		
12,000.00	8,758.00	10,996.19	7,825.88	83.18	77.66	32.26	1,650.72	-3,306.26	1,108.35	1,007.25	101.11	10.962		
12,100.00	8,758.00	11,089.43	7,822.44	85.30	79.69	32.06	1,648.12	-3,399.40	1,110.04	1,006.77	103.26	10.750		
12,200.00	8,758.00	11,182.39	7,818.01	87.42	81.73	31.81	1,645.17	-3,492.21	1,112.43	1,007.11	105.33	10.562		
12,300.00	8,758.00	11,268.18	7,812.99	89.56	83.61	31.53	1,641.87	-3,577.79	1,115.48	1,008.24	107.24	10.402		
12,400.00	8,758.00	11,339.79	7,807.54	91.70	85.18	31.31	1,640.09	-3,649.16	1,120.72	1,011.65	109.07	10.275		
12,500.00	8,758.00	11,414.69	7,800.40	93.85	86.82	31.09	1,639.22	-3,723.72	1,128.32	1,017.44	110.88	10.176		
12,600.00	8,758.00	11,514.69	7,790.20	96.01	89.02	30.83	1,639.34	-3,823.19	1,137.18	1,024.27	112.91	10.072		
12,700.00	8,758.00	11,640.05	7,780.28	98.18	91.79	30.65	1,640.97	-3,948.15	1,144.67	1,029.26	115.40	9.919		
12,800.00	8,758.00	11,758.60	7,774.40	100.35	94.43	30.64	1,644.25	-4,066.50	1,150.40	1,032.23	118.17	9.735		
12,900.00	8,758.00	11,865.52	7,770.91	102.53	96.81	30.69	1,647.24	-4,173.32	1,154.65	1,033.75	120.90	9.550		
13,000.00	8,758.00	11,972.29	7,766.91	104.71	99.19	30.66	1,648.83	-4,280.00	1,158.67	1,035.19	123.49	9.383		
13,100.00	8,758.00	12,069.55	7,762.51	106.90	101.36	30.53	1,648.30	-4,377.16	1,162.33	1,036.59	125.74	9.244		
13,200.00	8,758.00	12,185.61	7,756.02	109.09	103.95	30.22	1,644.72	-4,492.98	1,165.65	1,037.92	127.73	9.126		
13,300.00	8,758.00	12,302.93	7,749.59	111.29	106.56	29.75	1,637.39	-4,609.88	1,167.31	1,038.00	129.31	9.027		
13,400.00	8,758.00	12,405.80	7,743.85	113.50	108.84	29.25	1,628.89	-4,712.24	1,168.12	1,037.48	130.64	8.942		
13,500.00	8,758.00	12,470.00	7,740.27	115.70	110.27	28.94	1,623.52	-4,776.12	1,169.53	1,037.48	132.05	8.857		
13,600.00	8,758.00	12,470.00	7,740.27	117.91	110.27	28.94	1,623.52	-4,776.12	1,177.69	1,044.56	133.13	8.846 SF		
13,623.51	8,758.00	12,470.00	7,740.27	118.43	110.27	28.94	1,623.52	-4,776.12	1,180.83	1,047.55	133.27	8.860		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - #204H - OH - OH Surveys 58.5'-13987' PTB 14084'													Offset Site Error:	3.30 usft
Survey Program: 59-GYRO-NS-CT, 506-MWD+HDGM													Offset Well Error:	1.10 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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	2.91	2.91	3.30	3.48	65.65	181.00	400.00	439.05					
100.00	100.00	103.18	103.18	3.30	3.48	65.68	180.86	400.28	439.24	432.46	6.79	64.716		
151.34	151.34	154.34	154.34	3.31	3.50	65.70	180.72	400.32	439.22	432.40	6.81	64.451		
200.00	200.00	202.39	202.39	3.34	3.52	65.72	180.62	400.39	439.25	432.39	6.86	64.048		
300.00	300.00	303.30	303.30	3.41	3.60	65.76	180.31	400.53	439.25	432.24	7.00	62.737		
351.39	351.39	354.44	354.44	3.46	3.64	65.77	180.26	400.53	439.22	432.12	7.10	61.855		
400.00	400.00	402.13	402.13	3.51	3.67	65.74	180.48	400.48	439.27	432.09	7.18	61.153		
500.00	500.00	500.33	500.32	3.65	3.74	65.62	181.46	400.47	439.68	432.29	7.39	59.526		
600.00	600.00	597.64	597.62	3.82	3.78	65.50	182.69	400.89	440.59	432.99	7.60	58.004		
700.00	700.00	695.27	695.24	4.01	3.85	65.47	183.50	402.13	442.08	434.22	7.86	56.253		
800.00	800.00	794.16	794.11	4.22	3.95	65.56	183.62	404.13	443.98	435.80	8.17	54.318		
900.00	900.00	893.62	893.52	4.46	4.08	65.84	182.51	406.83	446.00	437.47	8.53	52.256		
1,000.00	1,000.00	993.01	992.85	4.71	4.23	66.21	180.83	410.10	448.31	439.37	8.94	50.161		
1,100.00	1,100.00	1,095.65	1,095.42	4.97	4.42	66.64	178.53	413.28	450.26	440.88	9.38	47.981		
1,200.00	1,200.00	1,196.87	1,196.56	5.24	4.62	67.10	175.78	416.12	451.77	441.91	9.86	45.814		
1,300.00	1,300.00	1,296.79	1,296.39	5.52	4.84	67.61	172.62	418.97	453.18	442.82	10.36	43.731		
1,400.00	1,400.00	1,395.97	1,395.50	5.82	5.08	68.01	170.27	421.58	454.73	443.84	10.89	41.766		
1,500.00	1,499.98	1,493.55	1,493.07	6.11	5.32	62.26	170.72	423.34	455.76	444.34	11.43	39.889		
1,600.00	1,599.84	1,593.95	1,593.42	6.42	5.57	62.67	172.94	424.92	455.61	443.63	11.99	38.014		
1,700.00	1,699.45	1,696.28	1,695.71	6.73	5.84	63.39	175.94	425.71	453.43	440.87	12.56	36.090		
1,800.00	1,798.71	1,797.87	1,797.23	7.05	6.12	64.42	179.60	425.70	449.31	436.16	13.15	34.157		
1,900.00	1,897.83	1,902.32	1,901.51	7.37	6.41	65.26	185.38	424.18	444.11	430.35	13.77	32.262		
2,000.00	1,996.95	2,004.02	2,002.69	7.70	6.69	65.55	194.75	420.57	438.18	423.80	14.38	30.464		
2,100.00	2,096.07	2,100.50	2,098.47	8.03	6.98	65.55	205.73	416.68	432.48	417.48	15.00	28.823		
2,200.00	2,195.19	2,198.98	2,196.14	8.38	7.28	65.45	217.78	412.97	427.32	411.68	15.64	27.314		
2,300.00	2,294.31	2,299.81	2,296.09	8.72	7.59	65.29	230.45	409.00	422.10	405.80	16.30	25.888		
2,400.00	2,393.43	2,399.04	2,394.45	9.07	7.91	65.13	242.97	405.10	416.91	399.94	16.97	24.565		
2,500.00	2,492.55	2,498.74	2,493.30	9.43	8.24	64.98	255.43	401.30	411.81	394.16	17.65	23.332		
2,600.00	2,591.67	2,598.77	2,592.52	9.78	8.57	64.88	267.62	397.63	406.72	388.38	18.34	22.180		
2,700.00	2,690.79	2,698.76	2,691.73	10.15	8.91	64.83	279.44	394.00	401.56	382.52	19.03	21.100		
2,800.00	2,789.91	2,798.08	2,790.34	10.51	9.25	64.83	290.82	390.59	396.46	376.73	19.73	20.095		
2,900.00	2,889.03	2,897.65	2,889.25	10.87	9.59	64.90	301.83	387.46	391.50	371.07	20.43	19.159		
3,000.00	2,988.16	2,997.90	2,988.86	11.24	9.94	65.01	312.76	384.35	386.53	365.39	21.15	18.280		
3,100.00	3,087.28	3,098.33	3,088.64	11.61	10.29	65.11	323.64	381.17	381.48	359.62	21.86	17.449		
3,200.00	3,186.40	3,199.97	3,189.66	11.98	10.64	65.25	334.37	377.65	376.06	353.48	22.59	16.651		
3,300.00	3,285.52	3,295.70	3,284.67	12.36	10.99	65.23	345.51	374.23	370.89	347.59	23.30	15.919		
3,400.00	3,384.64	3,392.36	3,380.20	12.73	11.34	64.76	359.80	370.83	366.81	342.78	24.02	15.269		
3,500.00	3,483.76	3,495.41	3,482.12	13.11	11.72	64.33	374.53	367.43	362.79	338.02	24.77	14.645		
3,600.00	3,582.88	3,596.78	3,582.77	13.48	12.09	64.34	386.22	364.35	358.09	332.58	25.51	14.036		
3,700.00	3,682.00	3,697.29	3,682.55	13.86	12.45	64.32	397.86	360.95	353.09	326.83	26.25	13.450		
3,800.00	3,781.12	3,797.79	3,782.31	14.24	12.82	64.30	409.49	357.45	347.98	320.99	26.99	12.892		
3,900.00	3,880.24	3,898.91	3,882.75	14.62	13.19	64.36	420.59	353.69	342.44	314.70	27.74	12.346		
4,000.00	3,979.36	3,998.07	3,981.29	15.00	13.55	64.48	431.09	350.14	336.91	308.43	28.48	11.831		
4,100.00	4,078.48	4,097.01	4,079.65	15.38	13.92	64.68	441.30	346.94	331.62	302.40	29.22	11.349		
4,200.00	4,177.60	4,196.61	4,178.70	15.77	14.28	64.95	451.30	344.07	326.57	296.61	29.96	10.899		
4,300.00	4,276.72	4,297.28	4,278.87	16.15	14.65	65.31	460.96	341.20	321.41	290.70	30.71	10.466		
4,400.00	4,375.84	4,397.54	4,378.69	16.53	15.01	65.80	469.89	338.31	316.02	284.56	31.46	10.046		
4,500.00	4,474.96	4,497.19	4,477.93	16.92	15.37	66.37	478.40	335.54	310.63	278.43	32.20	9.646		
4,600.00	4,574.08	4,597.54	4,577.79	17.30	15.74	66.79	487.84	332.44	305.25	272.30	32.95	9.263		
4,700.00	4,673.20	4,698.72	4,678.19	17.69	16.12	66.74	499.70	328.25	299.55	265.84	33.71	8.886		
4,800.00	4,772.32	4,798.03	4,776.70	18.08	16.50	66.67	511.40	323.94	293.69	259.22	34.47	8.520		
4,900.00	4,871.44	4,897.87	4,875.85	18.46	16.87	66.73	522.50	319.93	287.94	252.71	35.23	8.174		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - #204H - OH - OH Surveys 58.5'-13987' PTB 14084'													Offset Site Error:
Survey Program: 59-GYRO-NS-CT, 506-MWD-HDGM													3.30 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)					
5,000.00	4,970.56	4,998.09	4,975.42	18.85	17.25	66.91	533.12	315.95	282.08	246.09	35.98	7.839	
5,100.00	5,069.68	5,097.23	5,073.66	19.24	17.63	66.66	545.66	311.54	276.37	239.62	36.75	7.521	
5,200.00	5,168.80	5,198.07	5,173.45	19.62	18.02	66.17	559.35	306.62	270.55	233.04	37.51	7.212	
5,300.00	5,267.92	5,298.77	5,273.27	20.01	18.40	65.93	571.74	301.73	264.37	226.09	38.28	6.907	
5,400.00	5,367.04	5,398.97	5,372.70	20.40	18.78	65.90	583.03	296.96	257.95	218.91	39.04	6.607	
5,500.00	5,466.16	5,499.07	5,472.18	20.79	19.16	66.12	593.27	292.41	251.42	211.62	39.80	6.317	
5,600.00	5,565.28	5,599.18	5,571.77	21.18	19.53	66.60	602.45	288.05	244.74	204.18	40.56	6.034	
5,700.00	5,664.40	5,699.43	5,671.57	21.57	19.90	67.28	610.92	283.76	237.94	196.62	41.32	5.759	
5,800.00	5,763.52	5,797.52	5,769.26	21.96	20.26	68.09	618.80	279.73	231.24	189.15	42.08	5.495	
5,900.00	5,862.65	5,896.82	5,868.07	22.35	20.63	68.70	627.96	276.11	225.34	182.50	42.84	5.260	
6,000.00	5,961.77	5,994.19	5,964.93	22.74	21.00	69.25	637.35	272.80	219.82	176.21	43.61	5.041	
6,100.00	6,060.89	6,095.27	6,065.47	23.13	21.37	69.79	647.43	269.95	214.95	170.58	44.37	4.844	
6,200.00	6,160.01	6,192.34	6,162.03	23.52	21.74	70.39	656.94	267.26	210.13	164.99	45.14	4.655	
6,300.00	6,259.13	6,292.42	6,261.58	23.91	22.11	71.00	667.07	265.29	206.16	160.25	45.91	4.491	
6,400.00	6,358.25	6,391.72	6,360.41	24.30	22.48	71.81	676.51	263.50	202.26	155.59	46.67	4.334	
6,500.00	6,457.37	6,492.63	6,460.95	24.69	22.86	73.00	684.92	261.70	198.18	150.74	47.44	4.178	
6,600.00	6,556.49	6,590.32	6,558.22	25.08	23.22	73.98	693.83	260.23	194.60	146.40	48.20	4.037	
6,700.00	6,655.61	6,689.77	6,657.12	25.48	23.59	74.69	704.16	259.38	191.94	142.97	48.97	3.920	
6,800.00	6,754.73	6,792.43	6,758.94	25.87	23.99	74.69	717.06	257.15	188.34	138.59	49.75	3.786	
6,900.00	6,853.85	6,892.70	6,858.46	26.26	24.37	74.87	728.97	254.29	183.96	133.44	50.52	3.641	
7,000.00	6,952.97	6,995.28	6,960.48	26.65	24.76	75.66	739.29	251.43	179.39	128.10	51.28	3.498	
7,100.00	7,052.09	7,098.94	7,063.45	27.04	25.15	76.38	749.71	245.68	172.08	120.06	52.03	3.308	
7,200.00	7,151.21	7,197.25	7,161.18	27.44	25.52	77.46	758.53	239.69	164.16	111.36	52.80	3.109	
7,300.00	7,250.33	7,293.17	7,256.70	27.83	25.88	79.01	766.25	235.70	158.13	104.54	53.59	2.951	
7,400.00	7,349.45	7,389.92	7,352.99	28.22	26.24	80.18	775.57	233.85	154.57	100.22	54.36	2.844	
7,500.00	7,448.57	7,487.48	7,449.96	28.61	26.61	80.98	786.18	233.55	152.76	97.65	55.11	2.772	
7,600.00	7,547.69	7,585.99	7,548.03	29.01	26.97	82.38	795.41	234.80	152.29	96.43	55.86	2.726	
7,700.00	7,646.81	7,687.38	7,649.05	29.40	27.34	84.21	803.93	235.78	152.02	95.40	56.62	2.685	
7,800.00	7,745.93	7,792.28	7,753.37	29.79	27.74	85.31	814.88	234.69	149.65	92.25	57.40	2.607	
7,900.00	7,845.19	7,891.24	7,851.71	30.18	28.12	85.70	825.74	232.40	146.11	87.94	58.16	2.512	
8,000.00	7,944.81	7,991.36	7,951.33	30.55	28.49	85.29	835.31	230.15	142.94	84.03	58.91	2.426	
8,100.00	8,044.67	8,091.60	8,051.23	30.91	28.86	84.10	843.33	227.96	140.19	80.55	59.64	2.351	
8,200.00	8,144.65	8,192.11	8,151.28	31.24	29.24	141.96	852.27	224.57	136.81	76.46	60.36	2.267	
8,214.87	8,159.51	8,206.37	8,165.48	31.29	29.29	141.46	853.58	224.15	136.63	76.16	60.47	2.260 CC, ES, SF	
8,300.00	8,244.13	8,288.19	8,246.96	31.58	29.60	140.20	860.92	222.85	142.54	81.46	61.08	2.334	
8,400.00	8,340.55	8,381.85	8,340.20	31.95	29.94	141.37	869.68	223.34	164.03	102.25	61.78	2.655	
8,500.00	8,430.99	8,470.44	8,428.59	32.34	30.26	144.84	874.88	225.92	201.81	139.40	62.41	3.234	
8,600.00	8,512.70	8,555.64	8,513.74	32.74	30.55	148.65	877.40	227.63	253.97	191.00	62.97	4.033	
8,700.00	8,583.67	8,630.04	8,588.09	33.17	30.80	157.37	879.76	228.29	319.68	256.26	63.43	5.040	
8,800.00	8,644.40	8,683.02	8,641.05	33.60	30.98	169.84	881.17	229.02	398.07	334.35	63.72	6.248	
8,900.00	8,693.48	8,722.98	8,680.99	34.05	31.11	-176.55	881.48	230.11	486.15	422.23	63.92	7.605	
9,000.00	8,729.43	8,746.78	8,704.77	34.55	31.19	-155.32	881.42	231.08	580.47	516.44	64.03	9.066	
9,100.00	8,751.15	8,758.50	8,716.47	35.12	31.23	-115.65	881.36	231.69	677.90	613.81	64.09	10.578	
9,200.00	8,758.00	8,759.32	8,717.29	35.77	31.23	-76.37	881.36	231.73	775.60	711.48	64.12	12.096	
9,300.00	8,758.00	8,755.74	8,713.71	36.53	31.22	-75.30	881.38	231.54	873.02	808.87	64.15	13.609	
9,400.00	8,758.00	8,752.43	8,710.42	37.42	31.21	-74.32	881.39	231.36	970.94	906.77	64.17	15.131	
9,500.00	8,758.00	8,749.38	8,707.37	38.44	31.20	-73.42	881.41	231.20	1,069.23	1,005.04	64.19	16.658	
9,600.00	8,758.00	8,746.55	8,704.54	39.57	31.19	-72.60	881.42	231.07	1,167.80	1,103.59	64.21	18.188	
9,700.00	8,758.00	8,743.91	8,701.91	40.80	31.18	-71.84	881.43	230.94	1,266.58	1,202.36	64.22	19.722	
9,800.00	8,758.00	8,741.46	8,699.45	42.13	31.17	-71.14	881.44	230.83	1,365.53	1,301.29	64.24	21.257	
9,900.00	8,758.00	8,739.16	8,697.16	43.55	31.17	-70.49	881.45	230.73	1,464.62	1,400.36	64.25	22.794	
10,000.00	8,758.00	8,723.00	8,681.01	45.04	31.11	-66.05	881.48	230.11	1,563.94	1,499.75	64.20	24.362	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - #204H - OH - OH Surveys 58.5-13987' PTB 14084'														Offset Site Error:	3.30 usft
Survey Program: 59-GYRO-NS-CT-506-MWD+HDGM														Offset Well Error:	1.10usft
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		
10,100.00	8,758.00	8,723.00	8,681.01	46.60	31.11	-66.05	881.48	230.11	1,663.19	1,598.97	64.23	25.896			
10,200.00	8,758.00	8,723.00	8,681.01	48.22	31.11	-66.05	881.48	230.11	1,762.53	1,698.27	64.25	27.431			
10,300.00	8,758.00	8,723.00	8,681.01	49.89	31.11	-66.05	881.48	230.11	1,861.93	1,797.65	64.28	28.966			
10,400.00	8,758.00	8,723.00	8,681.01	51.62	31.11	-66.05	881.48	230.11	1,961.40	1,897.09	64.31	30.500			
10,500.00	8,758.00	8,723.00	8,681.01	53.39	31.11	-66.05	881.48	230.11	2,060.92	1,996.59	64.33	32.035			
10,600.00	8,758.00	8,723.00	8,681.01	55.20	31.11	-66.05	881.48	230.11	2,160.48	2,096.12	64.36	33.569			
10,700.00	8,758.00	8,723.00	8,681.01	57.04	31.11	-66.05	881.48	230.11	2,260.08	2,195.70	64.39	35.102			
10,800.00	8,758.00	8,723.00	8,681.01	58.92	31.11	-66.05	881.48	230.11	2,359.72	2,295.31	64.41	36.635			
10,900.00	8,758.00	8,723.00	8,681.01	60.83	31.11	-66.05	881.48	230.11	2,459.38	2,394.95	64.44	38.167			
11,000.00	8,758.00	8,723.00	8,681.01	62.77	31.11	-66.05	881.48	230.11	2,559.08	2,494.61	64.46	39.697			
11,100.00	8,758.00	8,723.00	8,681.01	64.73	31.11	-66.05	881.48	230.11	2,658.79	2,594.30	64.49	41.227			
11,200.00	8,758.00	8,723.00	8,681.01	66.71	31.11	-66.05	881.48	230.11	2,758.52	2,694.01	64.52	42.755			
11,300.00	8,758.00	8,723.00	8,681.01	68.71	31.11	-66.05	881.48	230.11	2,858.28	2,793.73	64.55	44.282			
11,400.00	8,758.00	8,723.00	8,681.01	70.74	31.11	-66.05	881.48	230.11	2,958.05	2,893.47	64.58	45.807			
11,500.00	8,758.00	8,723.00	8,681.01	72.77	31.11	-66.05	881.48	230.11	3,057.83	2,993.23	64.61	47.331			
11,600.00	8,758.00	8,723.00	8,681.01	74.83	31.11	-66.05	881.48	230.11	3,157.63	3,093.00	64.64	48.853			
11,700.00	8,758.00	8,723.00	8,681.01	76.90	31.11	-66.05	881.48	230.11	3,257.44	3,192.78	64.67	50.373			
11,800.00	8,758.00	8,723.00	8,681.01	78.98	31.11	-66.05	881.48	230.11	3,357.27	3,292.57	64.70	51.892			
11,900.00	8,758.00	8,723.00	8,681.01	81.07	31.11	-66.05	881.48	230.11	3,457.10	3,392.37	64.73	53.408			
12,000.00	8,758.00	8,723.00	8,681.01	83.18	31.11	-66.05	881.48	230.11	3,556.94	3,492.18	64.76	54.923			
12,100.00	8,758.00	8,723.00	8,681.01	85.30	31.11	-66.05	881.48	230.11	3,656.79	3,591.99	64.80	56.435			
12,200.00	8,758.00	8,723.00	8,681.01	87.42	31.11	-66.05	881.48	230.11	3,756.65	3,691.82	64.83	57.946			
12,300.00	8,758.00	8,701.29	8,659.31	89.56	31.04	-60.56	881.39	229.46	3,856.38	3,791.59	64.79	59.522			
12,400.00	8,758.00	8,700.09	8,658.11	91.70	31.04	-60.27	881.38	229.42	3,956.24	3,891.42	64.82	61.033			
12,500.00	8,758.00	8,698.92	8,656.94	93.85	31.03	-60.00	881.37	229.39	4,056.11	3,991.25	64.85	62.542			
12,600.00	8,758.00	8,697.79	8,655.81	96.01	31.03	-59.73	881.36	229.36	4,155.98	4,091.09	64.89	64.049			
12,700.00	8,758.00	8,696.68	8,654.70	98.18	31.03	-59.47	881.35	229.34	4,255.85	4,190.93	64.92	65.553			
12,800.00	8,758.00	8,695.59	8,653.62	100.35	31.02	-59.21	881.34	229.31	4,355.73	4,290.78	64.96	67.054			
12,900.00	8,758.00	8,694.54	8,652.56	102.53	31.02	-58.97	881.33	229.28	4,455.62	4,390.63	64.99	68.553			
13,000.00	8,758.00	8,693.51	8,651.53	104.71	31.02	-58.73	881.32	229.26	4,555.51	4,490.48	65.03	70.050			
13,100.00	8,758.00	8,692.50	8,650.53	106.90	31.01	-58.50	881.31	229.23	4,655.41	4,590.34	65.07	71.544			
13,200.00	8,758.00	8,691.52	8,649.55	109.09	31.01	-58.27	881.29	229.21	4,755.30	4,690.20	65.11	73.035			
13,300.00	8,758.00	8,690.57	8,648.59	111.29	31.01	-58.06	881.28	229.19	4,855.21	4,790.06	65.15	74.524			
13,400.00	8,758.00	8,689.63	8,647.66	113.50	31.00	-57.85	881.27	229.16	4,955.11	4,889.92	65.19	76.010			
13,500.00	8,758.00	8,688.72	8,646.74	115.70	31.00	-57.64	881.26	229.14	5,055.02	4,989.79	65.23	77.493			
13,600.00	8,758.00	8,687.82	8,645.85	117.91	31.00	-57.44	881.25	229.12	5,154.93	5,089.66	65.28	78.973			
13,623.51	8,758.00	8,687.62	8,645.64	118.43	31.00	-57.39	881.24	229.12	5,178.42	5,113.13	65.29	79.320			

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD											Offset Site Error: 3.30 usft	
Survey Program: 71-GYRO-NS-CT, 786-MWD+HDGM											Offset Well Error: 1.10 usft	
Reference		Offset		Semi-Major Axis		Highside Toolface (°)	Distance		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)				Between Centres (usft)
0.00	0.00	3.94	3.94	3.30	3.48	73.17	121.00	400.00	417.90			
100.00	100.00	102.53	102.53	3.30	3.48	73.23	120.64	400.31	418.09	411.31	6.79 61.612	
200.00	200.00	201.58	201.57	3.34	3.52	73.34	120.02	400.99	418.57	411.72	6.85 61.063	
300.00	300.00	300.34	300.32	3.41	3.59	73.53	118.85	402.05	419.27	412.27	7.00 59.933	
400.00	400.00	399.41	399.33	3.51	3.70	73.95	116.21	403.90	420.31	413.10	7.21 58.318	
500.00	500.00	500.01	499.87	3.65	3.84	74.44	113.05	405.92	421.39	413.91	7.49 56.292	
600.00	600.00	601.77	601.57	3.82	4.01	74.89	110.06	407.59	422.19	414.37	7.82 53.976	
700.00	700.00	702.90	702.65	4.01	4.20	75.31	107.17	408.80	422.62	414.41	8.21 51.504	
800.00	800.00	804.12	803.82	4.22	4.30	75.74	104.12	409.73	422.75	414.23	8.52 49.621	
900.00	900.00	903.30	902.96	4.46	4.33	76.14	101.28	410.65	422.95	414.17	8.78 48.149	
1,000.00	1,000.00	1,002.85	1,002.47	4.71	4.39	76.53	98.59	411.49	423.14	414.05	9.09 46.532	
1,100.00	1,100.00	1,100.91	1,100.48	4.97	4.48	76.91	96.02	412.80	423.84	414.39	9.45 44.867	
1,200.00	1,200.00	1,201.21	1,200.73	5.24	4.60	77.33	93.16	414.28	424.64	414.80	9.84 43.166	
1,300.00	1,300.00	1,305.60	1,305.07	5.52	4.74	77.77	90.04	415.50	425.14	414.88	10.26 41.429	
1,400.00	1,400.00	1,423.57	1,422.99	5.82	4.93	78.01	87.81	413.54	423.18	412.45	10.73 39.426	
1,500.00	1,499.98	1,550.35	1,549.36	6.11	5.16	72.32	87.20	403.74	414.99	403.79	11.21 37.022	
1,600.00	1,599.84	1,659.29	1,657.50	6.42	5.38	73.12	86.19	390.63	401.48	389.78	11.70 34.307	
1,700.00	1,699.45	1,761.69	1,758.85	6.73	5.60	74.66	83.80	376.20	384.74	372.52	12.22 31.488	
1,800.00	1,798.71	1,852.34	1,848.63	7.05	5.81	76.66	81.30	363.98	367.94	355.17	12.77 28.815	
1,900.00	1,897.83	1,941.18	1,936.94	7.37	6.03	78.48	80.22	354.29	353.99	340.66	13.33 26.547	
2,000.00	1,996.95	2,038.32	2,033.63	7.70	6.29	80.31	81.03	345.06	342.08	328.16	13.91 24.587	
2,100.00	2,096.07	2,142.46	2,137.18	8.03	6.58	82.29	82.56	334.15	329.61	315.11	14.50 22.727	
2,200.00	2,195.19	2,241.91	2,235.93	8.38	6.87	84.36	83.82	322.40	316.20	301.09	15.11 20.925	
2,300.00	2,294.31	2,337.33	2,330.75	8.72	7.16	86.54	84.88	311.75	303.87	288.13	15.74 19.308	
2,400.00	2,393.43	2,431.85	2,424.79	9.07	7.45	88.79	86.22	302.29	293.18	276.80	16.38 17.902	
2,500.00	2,492.55	2,526.64	2,519.20	9.43	7.74	90.98	88.55	294.31	284.46	267.44	17.02 16.711	
2,600.00	2,591.67	2,625.65	2,617.89	9.78	8.04	93.22	91.75	287.00	277.13	259.46	17.67 15.680	
2,700.00	2,690.79	2,727.30	2,719.16	10.15	8.36	95.62	95.26	278.83	269.58	251.25	18.33 14.705	
2,800.00	2,789.91	2,830.59	2,821.93	10.51	8.70	98.27	98.80	269.22	261.28	242.28	19.00 13.754	
2,900.00	2,889.03	2,927.18	2,917.99	10.87	9.01	100.96	101.99	259.61	252.95	233.27	19.68 12.855	
3,000.00	2,988.16	3,021.03	3,011.47	11.24	9.32	103.65	104.99	251.82	246.83	226.47	20.36 12.121	
3,100.00	3,087.28	3,120.00	3,110.14	11.61	9.65	106.40	108.55	245.04	242.54	221.50	21.05 11.523	
3,200.00	3,186.40	3,217.90	3,207.76	11.98	9.97	109.13	112.31	238.63	239.01	217.27	21.74 10.996	
3,300.00	3,285.52	3,316.25	3,305.86	12.36	10.29	111.87	116.17	232.76	236.53	214.11	22.43 10.547	
3,360.56	3,345.54	3,372.57	3,362.06	12.58	10.48	113.64	117.41	229.54	235.94	213.10	22.84 10.329 CC	
3,400.00	3,384.64	3,409.35	3,398.79	12.73	10.60	114.99	117.31	227.45	236.21	213.10	23.11 10.220 ES	
3,500.00	3,483.76	3,507.53	3,496.79	13.11	10.93	118.85	115.75	221.73	238.18	214.37	23.81 10.003	
3,600.00	3,582.88	3,606.83	3,595.89	13.48	11.27	122.73	114.02	215.74	241.19	216.68	24.51 9.838	
3,700.00	3,682.00	3,704.12	3,692.98	13.86	11.60	126.45	112.24	209.82	245.30	220.09	25.21 9.730	
3,800.00	3,781.12	3,799.08	3,787.81	14.24	11.91	129.82	110.00	205.35	251.77	225.88	25.89 9.726 SF	
3,900.00	3,880.24	3,899.70	3,888.40	14.62	12.24	132.46	109.80	203.14	259.17	232.59	26.58 9.749	
4,000.00	3,979.36	3,999.96	3,988.56	15.00	12.55	133.77	113.58	204.80	266.49	239.22	27.26 9.774	
4,100.00	4,078.48	4,100.66	4,089.10	15.38	12.86	134.67	118.63	207.53	273.63	245.69	27.94 9.793	
4,200.00	4,177.60	4,201.78	4,190.04	15.77	13.17	135.53	124.12	209.92	280.29	251.66	28.62 9.792	
4,300.00	4,276.72	4,301.22	4,289.32	16.15	13.49	136.45	129.41	211.67	286.73	257.43	29.30 9.785	
4,400.00	4,375.84	4,400.60	4,388.64	16.53	13.81	137.84	132.87	211.46	293.55	263.56	29.99 9.789	
4,500.00	4,474.96	4,501.04	4,489.02	16.92	14.14	139.30	136.19	210.64	300.35	269.67	30.68 9.790	
4,600.00	4,574.08	4,601.39	4,589.30	17.30	14.47	140.70	139.76	209.64	307.01	275.64	31.37 9.785	
4,700.00	4,673.20	4,701.71	4,689.55	17.69	14.80	142.08	143.43	208.30	313.59	281.52	32.07 9.778	
4,800.00	4,772.32	4,793.26	4,781.05	18.08	15.11	143.39	145.75	207.00	321.27	288.55	32.72 9.818	
4,900.00	4,871.44	4,888.84	4,876.63	18.46	15.43	144.81	146.06	206.07	331.26	297.87	33.39 9.920	
5,000.00	4,970.56	4,989.16	4,976.94	18.85	15.77	146.25	146.05	205.09	341.75	307.65	34.10 10.023	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD														Offset Site Error:	3.30 usft
Survey Program: 71-GYRO-NS-CT, 786-MWD+HDGM														Offset Well Error:	1.10 usft
Reference 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		
5,100.00	5,069.68	5,088.88	5,076.66	19.24	16.11	147.63	146.23	203.71	352.09	317.29	34.80	10.118			
5,200.00	5,168.80	5,188.85	5,176.62	19.62	16.46	148.96	146.54	202.16	362.43	326.93	35.50	10.209			
5,300.00	5,267.92	5,288.14	5,275.89	20.01	16.80	150.22	146.92	200.47	372.82	336.62	36.20	10.299			
5,400.00	5,367.04	5,387.23	5,374.96	20.40	17.14	151.44	147.23	198.55	383.36	346.46	36.90	10.389			
5,500.00	5,466.16	5,486.24	5,473.94	20.79	17.48	152.64	147.39	196.36	394.10	356.50	37.60	10.482			
5,600.00	5,565.28	5,585.60	5,573.27	21.18	17.82	153.79	147.61	194.11	404.94	366.64	38.30	10.572			
5,700.00	5,664.40	5,678.63	5,666.28	21.57	18.15	154.84	147.51	191.88	416.22	377.27	38.96	10.685			
5,800.00	5,763.52	5,764.12	5,751.69	21.96	18.44	155.88	144.56	189.81	430.70	391.18	39.52	10.897			
5,900.00	5,862.65	5,864.74	5,852.24	22.35	18.76	156.73	140.93	189.81	446.26	406.03	40.23	11.093			
6,000.00	5,961.77	5,967.44	5,954.89	22.74	19.09	157.32	138.21	191.35	461.41	420.46	40.94	11.270			
6,100.00	6,060.89	6,074.84	6,062.27	23.13	19.44	157.92	136.92	192.33	475.06	433.37	41.69	11.394			
6,200.00	6,160.01	6,178.97	6,166.41	23.52	19.78	158.50	137.09	192.60	487.27	444.85	42.42	11.487			
6,300.00	6,259.13	6,279.17	6,266.60	23.91	20.12	159.05	137.74	192.49	498.96	455.84	43.12	11.571			
6,400.00	6,358.25	6,374.67	6,362.11	24.30	20.44	159.54	138.18	192.52	510.93	467.14	43.79	11.669			
6,500.00	6,457.37	6,470.00	6,457.43	24.69	20.75	159.98	137.89	193.04	523.78	479.34	44.44	11.785			
6,600.00	6,556.49	6,569.22	6,556.64	25.08	21.07	160.39	137.29	193.96	537.05	491.92	45.13	11.900			
6,700.00	6,655.61	6,670.70	6,658.11	25.48	21.40	160.74	137.05	195.20	550.05	504.22	45.83	12.001			
6,800.00	6,754.73	6,769.68	6,757.09	25.87	21.73	161.15	136.88	195.61	562.83	516.30	46.53	12.097			
6,900.00	6,853.85	6,869.27	6,856.67	26.26	22.08	161.69	136.39	194.52	575.63	528.39	47.23	12.187			
7,000.00	6,952.97	6,965.91	6,953.28	26.65	22.41	162.32	135.49	192.30	588.66	540.74	47.92	12.284			
7,100.00	7,052.09	7,066.01	7,053.37	27.04	22.75	162.82	134.70	191.26	601.86	553.23	48.63	12.377			
7,200.00	7,151.21	7,167.84	7,155.20	27.44	23.09	163.17	134.57	191.53	614.70	565.36	49.34	12.459			
7,300.00	7,250.33	7,267.18	7,254.55	27.83	23.43	163.51	134.58	191.58	627.39	577.35	50.04	12.538			
7,400.00	7,349.45	7,356.29	7,343.61	28.22	23.73	163.71	134.49	192.84	640.48	589.81	50.67	12.641			
7,500.00	7,448.57	7,428.37	7,414.83	28.61	23.96	163.04	133.18	203.42	657.40	606.29	51.11	12.863			
7,600.00	7,547.69	7,555.18	7,532.79	29.01	24.32	159.55	139.07	248.18	673.09	621.08	52.01	12.942			
7,700.00	7,646.81	7,621.47	7,589.37	29.40	24.51	156.85	145.67	282.06	690.58	638.27	52.32	13.200			
7,800.00	7,745.93	7,665.84	7,625.98	29.79	24.64	154.95	148.56	306.93	715.54	663.35	52.19	13.711			
7,900.00	7,845.19	7,702.62	7,655.39	30.18	24.75	153.59	149.33	328.99	747.69	695.99	51.70	14.462			
8,000.00	7,944.81	7,731.00	7,677.60	30.55	24.84	152.72	148.49	346.64	785.12	734.29	50.83	15.446			
8,100.00	8,044.67	7,777.00	7,712.51	30.91	25.00	151.16	145.02	376.39	826.96	776.76	50.20	16.474			
8,200.00	8,144.65	7,824.00	7,746.62	31.24	25.17	-149.42	140.42	408.38	872.19	822.66	49.53	17.610			
8,300.00	8,244.13	7,857.51	7,769.64	31.58	25.30	-147.62	137.46	432.55	927.67	879.04	48.63	19.076			
8,400.00	8,340.55	7,885.92	7,787.95	31.95	25.41	-143.70	135.50	454.17	998.92	951.01	47.91	20.852			
8,500.00	8,430.99	7,903.81	7,799.02	32.34	25.49	-135.47	134.55	468.20	1,082.05	1,034.73	47.32	22.867			
8,600.00	8,512.70	7,917.00	7,806.94	32.74	25.55	-119.49	133.98	478.73	1,173.12	1,126.10	47.02	24.948			
8,700.00	8,583.67	7,907.07	7,800.99	33.17	25.51	-89.70	134.40	470.79	1,267.61	1,221.01	46.60	27.201			
8,800.00	8,644.40	7,895.86	7,794.14	33.60	25.46	-68.81	134.94	461.93	1,359.52	1,313.13	46.39	29.309			
8,900.00	8,693.48	7,870.00	7,777.81	34.05	25.35	-56.14	136.53	441.94	1,446.08	1,399.99	46.09	31.375			
9,000.00	8,729.43	7,870.00	7,777.81	34.55	25.35	-49.52	136.53	441.94	1,525.35	1,478.87	46.48	32.819			
9,100.00	8,751.15	7,839.50	7,757.46	35.12	25.23	-44.64	138.97	419.36	1,595.71	1,549.23	46.48	34.329			
9,200.00	8,758.00	7,824.00	7,746.62	35.77	25.17	-42.22	140.42	408.38	1,656.26	1,609.34	46.92	35.298			
9,300.00	8,758.00	7,777.00	7,712.51	36.53	25.00	-41.13	145.02	376.39	1,713.53	1,666.60	46.93	36.514			
9,400.00	8,758.00	7,777.00	7,712.51	37.42	25.00	-41.13	145.02	376.39	1,773.59	1,725.84	47.75	37.146			
9,500.00	8,758.00	7,747.02	7,689.93	38.44	24.90	-40.45	147.52	356.82	1,836.28	1,788.20	48.08	38.195			
9,600.00	8,758.00	7,731.00	7,677.60	39.57	24.84	-40.10	148.49	346.64	1,901.66	1,853.04	48.62	39.112			
9,700.00	8,758.00	7,713.03	7,663.59	40.80	24.79	-39.72	149.18	335.41	1,969.41	1,920.28	49.12	40.092			
9,800.00	8,758.00	7,684.00	7,640.60	42.13	24.70	-39.13	149.17	317.69	2,039.49	1,990.03	49.46	41.234			
9,900.00	8,758.00	7,684.00	7,640.60	43.55	24.70	-39.13	149.17	317.69	2,111.22	2,061.06	50.16	42.090			
10,000.00	8,758.00	7,684.00	7,640.60	45.04	24.70	-39.13	149.17	317.69	2,185.17	2,134.36	50.81	43.006			
10,100.00	8,758.00	7,655.38	7,617.46	46.60	24.61	-38.60	148.05	300.89	2,260.31	2,209.21	51.10	44.233			
10,200.00	8,758.00	7,637.00	7,602.31	48.22	24.55	-38.27	146.89	290.55	2,337.26	2,285.77	51.49	45.392			

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 20 (114-124-134-204) - No. 124H - OH - MWD														Offset Site Error:	3.30 usft
Survey Program: 71-GYRO-NS-CT-786-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)	Offset Wellbore Centre E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
10,300.00	8,758.00	7,637.00	7,602.31	49.89	24.55	-38.27	146.89	290.55	2,415.59	2,363.54	52.04	46.415			
10,400.00	8,758.00	7,615.38	7,584.26	51.62	24.49	-37.89	145.14	278.78	2,495.10	2,442.75	52.35	47.658			
10,500.00	8,758.00	7,590.00	7,562.80	53.39	24.42	-37.46	142.63	265.46	2,575.91	2,523.29	52.62	48.954			
10,600.00	8,758.00	7,590.00	7,562.80	55.20	24.42	-37.46	142.63	265.46	2,657.55	2,604.46	53.09	50.061			
10,700.00	8,758.00	7,590.00	7,562.80	57.04	24.42	-37.46	142.63	265.46	2,740.40	2,686.88	53.52	51.203			
10,800.00	8,758.00	7,562.42	7,539.09	58.92	24.34	-37.01	139.77	251.67	2,823.85	2,770.13	53.72	52.568			
10,900.00	8,758.00	7,544.00	7,522.99	60.83	24.29	-36.70	138.01	242.90	2,908.30	2,854.32	53.97	53.883			
11,000.00	8,758.00	7,544.00	7,522.99	62.77	24.29	-36.70	138.01	242.90	2,993.48	2,939.14	54.34	55.083			
11,100.00	8,758.00	7,544.00	7,522.99	64.73	24.29	-36.70	138.01	242.90	3,079.56	3,024.87	54.69	56.308			
11,200.00	8,758.00	7,544.00	7,522.99	66.71	24.29	-36.70	138.01	242.90	3,166.46	3,111.44	55.02	57.555			
11,300.00	8,758.00	7,544.00	7,522.99	68.71	24.29	-36.70	138.01	242.90	3,254.10	3,198.78	55.32	58.823			
11,400.00	8,758.00	7,519.81	7,501.36	70.74	24.23	-36.29	135.97	232.28	3,341.69	3,286.22	55.47	60.246			
11,500.00	8,758.00	7,497.00	7,480.37	72.77	24.16	-35.88	134.40	223.50	3,430.78	3,375.17	55.61	61.689			
11,600.00	8,758.00	7,497.00	7,480.37	74.83	24.16	-35.88	134.40	223.50	3,519.82	3,463.94	55.88	62.988			
11,700.00	8,758.00	7,497.00	7,480.37	76.90	24.16	-35.88	134.40	223.50	3,609.43	3,553.30	56.13	64.303			
11,800.00	8,758.00	7,497.00	7,480.37	78.98	24.16	-35.88	134.40	223.50	3,699.58	3,643.21	56.37	65.631			
11,900.00	8,758.00	7,497.00	7,480.37	81.07	24.16	-35.88	134.40	223.50	3,790.22	3,733.62	56.60	66.971			
12,000.00	8,758.00	7,497.00	7,480.37	83.18	24.16	-35.88	134.40	223.50	3,881.31	3,824.51	56.81	68.322			
12,100.00	8,758.00	7,497.00	7,480.37	85.30	24.16	-35.88	134.40	223.50	3,972.84	3,915.83	57.01	69.684			
12,200.00	8,758.00	7,497.00	7,480.37	87.42	24.16	-35.88	134.40	223.50	4,064.77	4,007.56	57.21	71.055			
12,300.00	8,758.00	7,497.00	7,480.37	89.56	24.16	-35.88	134.40	223.50	4,157.07	4,099.68	57.39	72.434			
12,400.00	8,758.00	7,497.00	7,480.37	91.70	24.16	-35.88	134.40	223.50	4,249.71	4,192.15	57.57	73.821			
12,500.00	8,758.00	7,473.15	7,457.93	93.85	24.09	-35.44	133.32	215.49	4,342.15	4,284.50	57.64	75.329			
12,600.00	8,758.00	7,450.00	7,435.79	96.01	24.02	-35.00	133.00	208.75	4,435.60	4,377.89	57.71	76.855			
12,700.00	8,758.00	7,450.00	7,435.79	98.18	24.02	-35.00	133.00	208.75	4,528.85	4,470.98	57.88	78.250			
12,800.00	8,758.00	7,450.00	7,435.79	100.35	24.02	-35.00	133.00	208.75	4,622.38	4,564.35	58.03	79.651			
12,900.00	8,758.00	7,450.00	7,435.79	102.53	24.02	-35.00	133.00	208.75	4,716.18	4,658.00	58.18	81.057			
13,000.00	8,758.00	7,450.00	7,435.79	104.71	24.02	-35.00	133.00	208.75	4,810.23	4,751.90	58.33	82.467			
13,100.00	8,758.00	7,450.00	7,435.79	106.90	24.02	-35.00	133.00	208.75	4,904.51	4,846.04	58.47	83.882			
13,200.00	8,758.00	7,450.00	7,435.79	109.09	24.02	-35.00	133.00	208.75	4,999.01	4,940.41	58.61	85.300			
13,300.00	8,758.00	7,450.00	7,435.79	111.29	24.02	-35.00	133.00	208.75	5,093.72	5,034.99	58.74	86.721			
13,400.00	8,758.00	7,450.00	7,435.79	113.50	24.02	-35.00	133.00	208.75	5,188.64	5,129.77	58.87	88.144			
13,500.00	8,758.00	7,450.00	7,435.79	115.70	24.02	-35.00	133.00	208.75	5,283.74	5,224.75	58.99	89.571			
13,600.00	8,758.00	7,450.00	7,435.79	117.91	24.02	-35.00	133.00	208.75	5,379.01	5,319.90	59.11	90.999			
13,623.51	8,758.00	7,450.00	7,435.79	118.43	24.02	-35.00	133.00	208.75	5,401.43	5,342.29	59.14	91.335			

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 134H - OH - Gyro-MWD											Offset Site Error: 3.30/usft		
Survey Program: 100-GYRO-NS, 693-MWD+HDGM											Offset Well Error: 1.10/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)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	3.84	3.84	3.30	3.48	69.32	151.00	400.00	427.55				
100.00	100.00	99.84	99.84	3.30	3.48	69.31	151.21	400.44	428.06	421.28	6.78	63.108	
200.00	200.00	200.12	200.12	3.34	3.51	69.35	151.27	401.42	429.00	422.15	6.85	62.662	
300.00	300.00	303.27	303.25	3.41	3.58	69.49	150.50	402.31	429.54	422.55	6.98	61.499	
400.00	400.00	406.14	406.10	3.51	3.68	69.79	148.32	402.94	429.38	422.19	7.19	59.689	
500.00	500.00	506.28	506.19	3.65	3.81	70.19	145.34	403.52	428.90	421.43	7.46	57.455	
600.00	600.00	605.98	605.85	3.82	3.97	70.61	142.26	404.12	428.43	420.64	7.79	54.990	
700.00	700.00	717.10	716.91	4.01	4.08	70.97	139.25	403.69	427.23	419.15	8.08	52.846	
800.00	800.00	830.74	830.40	4.22	4.12	71.02	137.05	398.41	422.15	413.82	8.33	50.683	
900.00	900.00	930.99	930.44	4.46	4.19	70.94	135.47	392.02	415.61	406.98	8.63	48.165	
1,000.00	1,000.00	1,028.10	1,027.37	4.71	4.28	70.85	134.15	386.29	409.59	400.62	8.97	45.646	
1,100.00	1,100.00	1,125.91	1,125.03	4.97	4.41	70.79	132.78	381.14	404.15	394.79	9.36	43.184	
1,200.00	1,200.00	1,221.18	1,220.20	5.24	4.55	70.68	132.03	376.61	399.41	389.64	9.78	40.858	
1,300.00	1,300.00	1,318.87	1,317.77	5.52	4.71	70.24	133.71	372.27	395.79	385.57	10.22	38.713	
1,400.00	1,400.00	1,422.00	1,420.71	5.82	4.91	69.54	136.93	366.98	392.05	381.35	10.71	36.618	
1,500.00	1,499.98	1,527.32	1,525.77	6.11	5.14	63.16	140.03	360.26	386.34	375.12	11.22	34.435	
1,600.00	1,599.84	1,624.36	1,622.60	6.42	5.36	63.42	141.66	354.06	378.62	366.87	11.75	32.235	
1,700.00	1,699.45	1,722.49	1,720.59	6.73	5.60	64.40	142.18	348.86	369.98	357.69	12.29	30.102	
1,800.00	1,798.71	1,823.02	1,820.98	7.05	5.86	65.98	142.47	343.59	360.00	347.14	12.86	27.998	
1,900.00	1,897.83	1,922.61	1,920.41	7.37	6.13	67.62	142.81	338.01	349.48	336.04	13.44	26.002	
2,000.00	1,996.95	2,020.55	2,018.19	7.70	6.40	69.26	143.60	332.54	339.41	325.38	14.04	24.181	
2,100.00	2,096.07	2,120.95	2,118.42	8.03	6.69	70.93	144.98	326.70	329.56	314.91	14.65	22.495	
2,200.00	2,195.19	2,222.97	2,220.21	8.38	7.00	72.67	146.60	320.06	319.35	304.07	15.28	20.902	
2,300.00	2,294.31	2,322.68	2,319.62	8.72	7.30	74.45	148.24	312.56	308.47	292.56	15.92	19.382	
2,400.00	2,393.43	2,418.23	2,414.93	9.07	7.60	76.23	150.11	306.11	298.70	282.14	16.56	18.037	
2,500.00	2,492.55	2,515.94	2,512.46	9.43	7.90	78.20	151.92	300.43	290.17	272.96	17.21	16.856	
2,600.00	2,591.67	2,614.96	2,611.30	9.78	8.21	80.33	153.73	294.74	282.09	264.21	17.88	15.778	
2,700.00	2,690.79	2,715.20	2,711.37	10.15	8.54	82.70	155.12	288.98	274.41	255.85	18.55	14.791	
2,800.00	2,789.91	2,812.72	2,808.69	10.51	8.85	85.11	156.56	283.08	266.92	247.69	19.23	13.881	
2,900.00	2,889.03	2,910.61	2,906.40	10.87	9.17	87.26	159.79	278.09	260.78	240.87	19.91	13.098	
3,000.00	2,988.16	3,012.21	3,007.76	11.24	9.50	89.31	164.41	272.81	254.84	234.24	20.60	12.372	
3,100.00	3,087.28	3,113.75	3,108.99	11.61	9.84	91.41	169.39	266.52	248.21	226.91	21.29	11.658	
3,200.00	3,186.40	3,213.49	3,208.38	11.98	10.18	93.58	174.35	259.82	241.38	219.39	21.99	10.978	
3,300.00	3,285.52	3,304.35	3,299.02	12.36	10.48	95.84	177.87	254.97	236.49	213.81	22.68	10.427	
3,400.00	3,384.64	3,400.37	3,394.99	12.73	10.80	98.67	179.52	252.20	234.94	211.57	23.37	10.051	
3,500.00	3,483.76	3,500.48	3,495.06	13.11	11.13	101.79	180.56	249.54	234.45	210.37	24.08	9.736	
3,549.52	3,532.84	3,549.42	3,543.98	13.29	11.29	103.31	181.16	248.14	234.34	209.91	24.43	9.593 CC	
3,600.00	3,582.88	3,599.28	3,593.81	13.48	11.46	104.85	181.76	246.77	234.45	209.67	24.78	9.461 ES	
3,700.00	3,682.00	3,698.09	3,692.58	13.86	11.79	107.84	183.11	244.29	235.34	209.85	25.48	9.235	
3,800.00	3,781.12	3,798.56	3,793.01	14.24	12.13	110.81	184.73	241.61	236.63	210.44	26.19	9.034	
3,900.00	3,880.24	3,898.02	3,892.41	14.62	12.47	113.68	186.58	238.75	238.24	211.34	26.90	8.857	
4,000.00	3,979.36	3,996.79	3,991.12	15.00	12.80	116.42	188.62	236.15	240.54	212.94	27.60	8.715	
4,100.00	4,078.48	4,095.84	4,090.12	15.38	13.14	119.04	190.80	233.86	243.58	215.28	28.30	8.607	
4,200.00	4,177.60	4,195.55	4,189.78	15.77	13.48	121.55	193.25	231.68	247.07	218.06	29.00	8.518	
4,300.00	4,276.72	4,295.08	4,289.25	16.15	13.82	124.02	195.63	229.25	250.87	221.16	29.71	8.445	
4,400.00	4,375.84	4,394.50	4,388.58	16.53	14.16	127.00	196.01	225.13	255.22	224.81	30.41	8.393	
4,500.00	4,474.96	4,494.01	4,487.98	16.92	14.51	130.00	196.17	220.42	260.01	228.90	31.11	8.357	
4,600.00	4,574.08	4,592.62	4,586.50	17.30	14.85	132.72	196.82	216.23	265.43	233.62	31.81	8.344 SF	
4,700.00	4,673.20	4,691.24	4,685.04	17.69	15.19	135.24	197.55	212.49	271.65	239.14	32.51	8.356	
4,800.00	4,772.32	4,790.01	4,783.74	18.08	15.54	137.63	198.21	208.85	278.50	245.30	33.21	8.387	
4,900.00	4,871.44	4,888.88	4,882.56	18.46	15.88	139.87	198.94	205.47	285.92	252.02	33.90	8.433	
5,000.00	4,970.56	4,987.82	4,981.44	18.85	16.23	141.98	199.63	202.15	293.82	259.22	34.60	8.492	

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design Stebbins Federal 20 (114-124-134-204) - No. 134H - OH - Gyro-MWD													Offset Site Error:	3.30 usft
Survey Program: 100-GYRO-NS, 693-MWD-HDGM													Offset Well Error:	1.10 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)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
5,100.00	5,069.68	5,087.31	5,080.87	19.24	16.58	143.96	200.43	198.95	302.07	266.77	35.30	8.556		
5,200.00	5,168.80	5,180.37	5,173.92	19.62	16.89	145.47	201.12	197.48	311.50	275.55	35.95	8.665		
5,300.00	5,267.92	5,279.92	5,273.46	20.01	17.21	146.68	201.74	197.93	322.18	285.55	36.63	8.796		
5,400.00	5,367.04	5,380.13	5,373.67	20.40	17.54	147.85	202.56	198.15	332.71	295.38	37.32	8.914		
5,500.00	5,466.16	5,480.26	5,473.79	20.79	17.88	148.98	203.51	197.99	343.08	305.06	38.02	9.023		
5,600.00	5,565.28	5,580.01	5,573.54	21.18	18.22	150.09	204.57	197.54	353.37	314.64	38.72	9.125		
5,700.00	5,664.40	5,678.74	5,672.26	21.57	18.56	151.17	205.47	196.76	363.78	324.36	39.42	9.228		
5,800.00	5,763.52	5,777.97	5,771.48	21.96	18.90	152.29	205.99	195.52	374.51	334.38	40.12	9.334		
5,900.00	5,862.65	5,879.05	5,872.53	22.35	19.26	153.47	206.68	193.50	384.96	344.12	40.84	9.426		
6,000.00	5,961.77	5,978.71	5,972.17	22.74	19.60	154.57	207.58	191.33	395.29	353.75	41.55	9.514		
6,100.00	6,060.89	6,079.07	6,072.51	23.13	19.94	155.33	209.31	191.13	405.62	363.37	42.25	9.600		
6,200.00	6,160.01	6,178.91	6,172.32	23.52	20.28	155.91	211.64	191.77	415.68	372.73	42.95	9.678		
6,300.00	6,259.13	6,277.41	6,270.80	23.91	20.61	156.51	213.69	192.00	425.91	382.27	43.64	9.759		
6,400.00	6,358.25	6,376.23	6,369.60	24.30	20.95	157.10	215.54	192.21	436.37	392.04	44.34	9.842		
6,500.00	6,457.37	6,474.94	6,468.29	24.69	21.28	157.69	217.22	192.23	446.99	401.96	45.03	9.926		
6,600.00	6,556.49	6,574.93	6,568.27	25.08	21.63	158.30	218.81	192.00	457.69	411.95	45.74	10.006		
6,700.00	6,655.61	6,672.99	6,666.33	25.48	21.96	158.90	220.31	191.50	468.43	422.00	46.44	10.088		
6,800.00	6,754.73	6,775.19	6,768.51	25.87	22.32	159.50	221.94	190.92	479.14	431.98	47.16	10.160		
6,900.00	6,853.85	6,866.51	6,859.82	26.26	22.64	160.05	222.92	190.19	490.34	442.53	47.81	10.256		
7,000.00	6,952.97	6,952.34	6,945.64	26.65	22.93	160.53	222.11	190.09	503.71	455.32	48.39	10.409		
7,100.00	7,052.09	7,050.89	7,044.16	27.04	23.25	161.05	219.68	190.34	518.65	469.58	49.07	10.569		
7,200.00	7,151.21	7,149.57	7,142.81	27.44	23.57	161.60	217.29	190.04	533.48	483.72	49.76	10.722		
7,300.00	7,250.33	7,251.82	7,245.04	27.83	23.90	162.10	215.18	190.04	548.06	497.59	50.47	10.859		
7,400.00	7,349.45	7,351.81	7,345.01	28.22	24.23	162.50	213.65	190.53	562.28	511.11	51.17	10.989		
7,500.00	7,448.57	7,451.38	7,444.58	28.61	24.55	162.88	212.29	191.03	576.35	524.49	51.86	11.115		
7,600.00	7,547.69	7,550.73	7,543.92	29.01	24.87	163.20	211.06	191.85	590.37	537.83	52.54	11.236		
7,700.00	7,646.81	7,650.09	7,643.27	29.40	25.19	163.49	209.99	192.81	604.29	551.06	53.23	11.352		
7,800.00	7,745.93	7,748.46	7,741.62	29.79	25.51	163.77	208.83	193.80	618.32	564.41	53.91	11.469		
7,900.00	7,845.19	7,846.84	7,839.99	30.18	25.83	164.03	207.73	195.10	631.27	576.68	54.59	11.564		
8,000.00	7,944.81	7,945.28	7,938.40	30.55	26.15	164.19	206.38	196.58	641.21	585.95	55.27	11.602		
8,100.00	8,044.67	8,044.80	8,037.90	30.91	26.48	164.27	204.95	197.73	647.83	591.89	55.95	11.580		
8,200.00	8,144.65	8,142.09	8,135.18	31.24	26.80	-134.77	203.30	198.49	651.29	594.69	56.60	11.507		
8,300.00	8,244.13	8,237.95	8,230.94	31.58	27.11	-134.98	201.68	202.27	659.93	602.68	57.25	11.528		
8,400.00	8,340.55	8,338.72	8,331.59	31.95	27.44	-135.45	200.09	207.06	681.25	623.28	57.96	11.753		
8,500.00	8,430.99	8,431.37	8,424.22	32.34	27.75	-135.42	198.86	208.08	714.47	655.84	58.63	12.186		
8,600.00	8,512.70	8,512.08	8,504.92	32.74	28.02	-134.64	197.78	208.79	760.54	701.32	59.22	12.843		
8,700.00	8,583.67	8,562.46	8,555.28	33.17	28.18	-127.55	196.97	209.89	818.35	758.79	59.57	13.738		
8,800.00	8,644.40	8,580.00	8,572.78	33.60	28.24	-115.69	196.47	210.86	881.37	821.77	59.59	14.790		
8,900.00	8,693.48	8,606.47	8,599.09	34.05	28.32	-105.78	195.44	213.50	947.16	887.42	59.74	15.854		
9,000.00	8,729.43	8,626.00	8,618.35	34.55	28.39	-96.69	194.45	216.58	1,014.83	954.94	59.89	16.944		
9,100.00	8,751.15	8,626.00	8,618.35	35.12	28.39	-87.60	194.45	216.58	1,082.00	1,022.09	59.91	18.060		
9,200.00	8,758.00	8,626.00	8,618.35	35.77	28.39	-80.59	194.45	216.58	1,147.34	1,087.31	60.02	19.115		
9,300.00	8,758.00	8,609.41	8,602.00	36.53	28.33	-79.54	195.30	213.90	1,213.62	1,153.60	60.02	20.221		
9,400.00	8,758.00	8,605.77	8,598.40	37.42	28.32	-79.30	195.47	213.40	1,284.44	1,224.28	60.16	21.350		
9,500.00	8,758.00	8,602.58	8,595.24	38.44	28.31	-79.10	195.61	213.00	1,358.90	1,298.59	60.31	22.532		
9,600.00	8,758.00	8,599.76	8,592.44	39.57	28.30	-78.92	195.73	212.66	1,436.44	1,375.98	60.45	23.761		
9,700.00	8,758.00	8,597.25	8,589.95	40.80	28.30	-78.76	195.84	212.38	1,516.58	1,455.99	60.59	25.029		
9,800.00	8,758.00	8,580.00	8,572.78	42.13	28.24	-77.66	196.47	210.86	1,599.30	1,538.69	60.60	26.389		
9,900.00	8,758.00	8,580.00	8,572.78	43.55	28.24	-77.66	196.47	210.86	1,683.48	1,622.73	60.75	27.710		
10,000.00	8,758.00	8,580.00	8,572.78	45.04	28.24	-77.66	196.47	210.86	1,769.31	1,708.42	60.89	29.058		
10,100.00	8,758.00	8,580.00	8,572.78	46.60	28.24	-77.66	196.47	210.86	1,856.56	1,795.54	61.02	30.427		
10,200.00	8,758.00	8,580.00	8,572.78	48.22	28.24	-77.66	196.47	210.86	1,945.04	1,883.90	61.13	31.816		

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Offset Design: Stebbins Federal 20 (114-124-134-204) - No. 134H - OH - Gyro-MWD													Offset Site Error: 3.30 usft
Survey Program: 100-GYRO-NS, 693-MWD+HDGM													Offset Well Error: 1.10 usft
Reference	Vertical	Measured	Vertical	Semi-Major Axis		Highside	Offset/Wellbore Centre		Distance		Minimum	Separation	Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	N/S (usft)	E/W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
10,300.00	8,758.00	8,580.00	8,572.78	49.89	28.24	-77.66	196.47	210.86	2,034.58	1,973.34	61.24	33.221	
10,400.00	8,758.00	8,580.00	8,572.78	51.62	28.24	-77.66	196.47	210.86	2,125.06	2,063.71	61.34	34.641	
10,500.00	8,758.00	8,580.00	8,572.78	53.39	28.24	-77.66	196.47	210.86	2,216.35	2,154.91	61.44	36.073	
10,600.00	8,758.00	8,580.00	8,572.78	55.20	28.24	-77.66	196.47	210.86	2,308.37	2,246.84	61.53	37.516	
10,700.00	8,758.00	8,580.00	8,572.78	57.04	28.24	-77.66	196.47	210.86	2,401.02	2,339.41	61.61	38.969	
10,800.00	8,758.00	8,580.00	8,572.78	58.92	28.24	-77.66	196.47	210.86	2,494.25	2,432.55	61.69	40.429	
10,900.00	8,758.00	8,580.00	8,572.78	60.83	28.24	-77.66	196.47	210.86	2,587.98	2,526.21	61.77	41.897	
11,000.00	8,758.00	8,580.00	8,572.78	62.77	28.24	-77.66	196.47	210.86	2,682.16	2,620.32	61.84	43.371	
11,100.00	8,758.00	8,580.00	8,572.78	64.73	28.24	-77.66	196.47	210.86	2,776.75	2,714.83	61.91	44.850	
11,200.00	8,758.00	8,580.00	8,572.78	66.71	28.24	-77.66	196.47	210.86	2,871.70	2,809.72	61.98	46.333	
11,300.00	8,758.00	8,580.00	8,572.78	68.71	28.24	-77.66	196.47	210.86	2,966.99	2,904.95	62.04	47.820	
11,400.00	8,758.00	8,580.00	8,572.78	70.74	28.24	-77.66	196.47	210.86	3,062.58	3,000.47	62.11	49.311	
11,500.00	8,758.00	8,580.00	8,572.78	72.77	28.24	-77.66	196.47	210.86	3,158.44	3,096.27	62.17	50.805	
11,600.00	8,758.00	8,580.00	8,572.78	74.83	28.24	-77.66	196.47	210.86	3,254.55	3,192.32	62.23	52.301	
11,700.00	8,758.00	8,580.00	8,572.78	76.90	28.24	-77.66	196.47	210.86	3,350.89	3,288.60	62.29	53.798	
11,800.00	8,758.00	8,580.00	8,572.78	78.98	28.24	-77.66	196.47	210.86	3,447.43	3,385.09	62.34	55.298	
11,900.00	8,758.00	8,580.00	8,572.78	81.07	28.24	-77.66	196.47	210.86	3,544.17	3,481.77	62.40	56.798	
12,000.00	8,758.00	8,580.00	8,572.78	83.18	28.24	-77.66	196.47	210.86	3,641.08	3,578.63	62.46	58.299	
12,100.00	8,758.00	8,580.00	8,572.78	85.30	28.24	-77.66	196.47	210.86	3,738.16	3,675.65	62.51	59.801	
12,200.00	8,758.00	8,580.00	8,572.78	87.42	28.24	-77.66	196.47	210.86	3,835.39	3,772.82	62.56	61.303	
12,300.00	8,758.00	8,580.00	8,572.78	89.56	28.24	-77.66	196.47	210.86	3,932.75	3,870.13	62.62	62.805	
12,400.00	8,758.00	8,580.00	8,572.78	91.70	28.24	-77.66	196.47	210.86	4,030.25	3,967.58	62.67	64.307	
12,500.00	8,758.00	8,580.00	8,572.78	93.85	28.24	-77.66	196.47	210.86	4,127.86	4,065.14	62.72	65.809	
12,600.00	8,758.00	8,580.00	8,572.78	96.01	28.24	-77.66	196.47	210.86	4,225.59	4,162.81	62.78	67.310	
12,700.00	8,758.00	8,561.04	8,553.86	98.18	28.18	-76.46	197.00	209.82	4,323.16	4,260.40	62.76	68.888	
12,800.00	8,758.00	8,560.34	8,553.16	100.35	28.18	-76.42	197.02	209.79	4,421.07	4,358.26	62.81	70.391	
12,900.00	8,758.00	8,559.66	8,552.48	102.53	28.17	-76.38	197.04	209.76	4,519.07	4,456.21	62.86	71.893	
13,000.00	8,758.00	8,559.01	8,551.83	104.71	28.17	-76.34	197.05	209.73	4,617.16	4,554.25	62.91	73.393	
13,100.00	8,758.00	8,558.38	8,551.20	106.90	28.17	-76.30	197.07	209.71	4,715.32	4,652.36	62.96	74.892	
13,200.00	8,758.00	8,557.77	8,550.59	109.09	28.17	-76.26	197.08	209.68	4,813.56	4,750.55	63.01	76.390	
13,300.00	8,758.00	8,557.18	8,550.01	111.29	28.17	-76.22	197.09	209.66	4,911.87	4,848.81	63.07	77.886	
13,400.00	8,758.00	8,556.61	8,549.44	113.50	28.16	-76.19	197.11	209.64	5,010.25	4,947.13	63.12	79.380	
13,500.00	8,758.00	8,556.06	8,548.89	115.70	28.16	-76.15	197.12	209.62	5,108.69	5,045.52	63.17	80.872	
13,600.00	8,758.00	8,555.53	8,548.35	117.91	28.16	-76.12	197.13	209.60	5,207.19	5,143.96	63.22	82.362	
13,623.51	8,758.00	8,555.40	8,548.23	118.43	28.16	-76.11	197.13	209.59	5,230.35	5,167.11	63.24	82.712	

Pro Directional

Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Pat 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Pat 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3242 + 28.5 = KB @ 3270.50usft (Pat Coordinates are relative to: #137H)

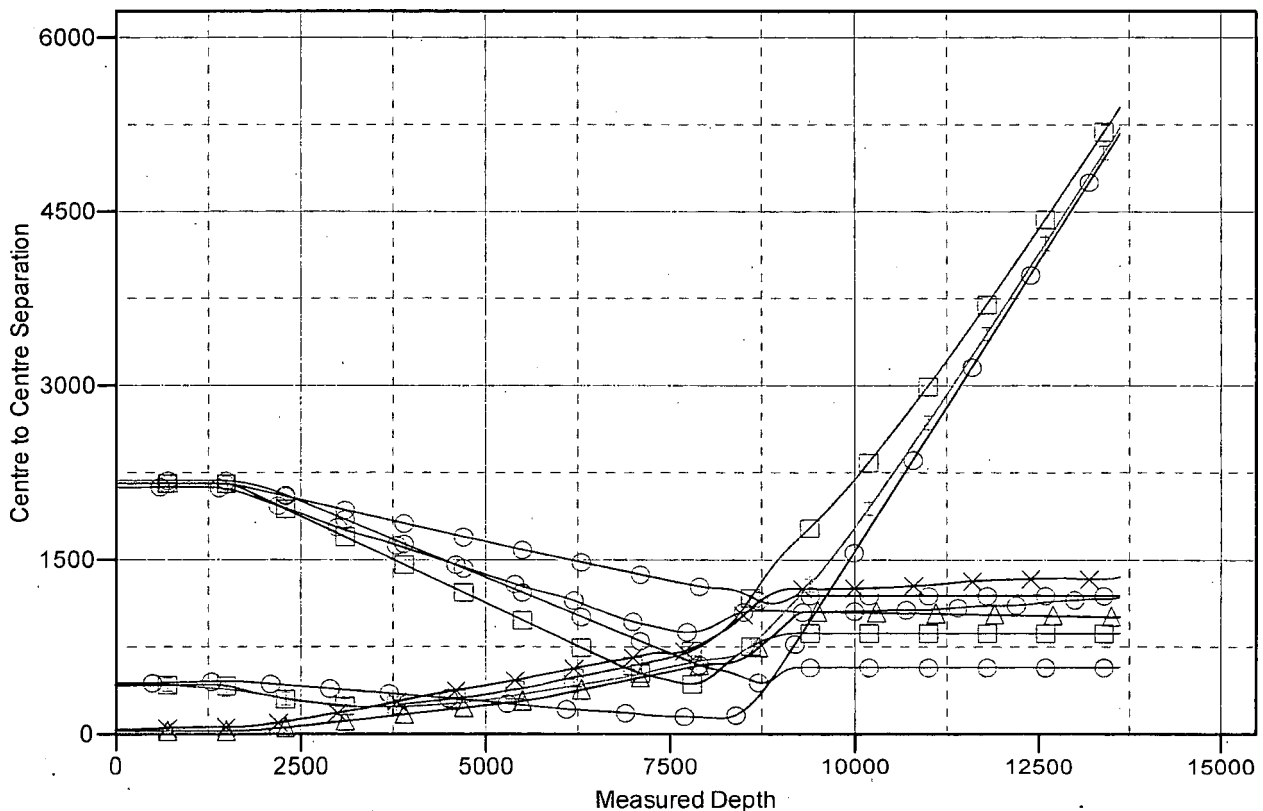
Offset Depths are relative to Offset Datum

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°

Ladder Plot



LEGEND

No. 123H, OH, CH V0	#127H, OH, Prelim C V0	No. 134H, OH, Qro-MWD V0
No. 124H, OH, CH Surveys 98-12354 PTB 12417 V0	#203H, OH, Prelim C V0	No. 124H, OH, MWD V0
#227H, OH, Prelim D V0	#204H, OH, Prelim B V0	#204H, OH, CH Surveys 58.5-13887 PTB 14004 V0

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 #137H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Reference Site:	Stebbins Federal 19	MD Reference:	3242 + 28.5 = KB @ 3270.50usft (Patt 809)
Site Error:	3.30 usft	North Reference:	Grid
Reference Well:	#137H	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 C	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3242 + 28.5 = KB @ 3270.50usft (Pat Coordinates are relative to: #137H)

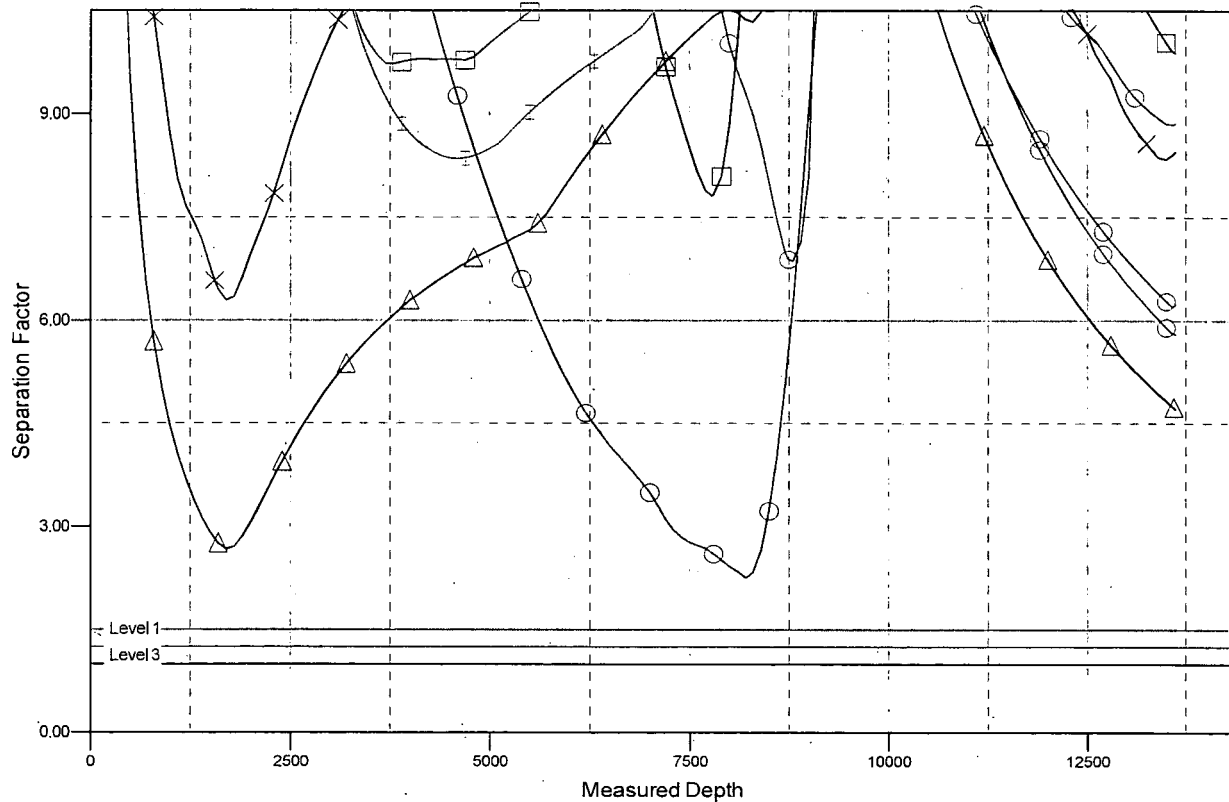
Offset Depths are relative to Offset Datum

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 VO
No. 124H, OH, OH Surveys 06-12354 PTB 12417 VO
#227H, OH, Prelim D VO

#127H, OH, Prelim C VO
#203H, OH, Prelim C VO
#204H, OH, Prelim B VO

No. 134H, OH, Qro-MWD VO
No. 124H, OH, MWD VO
#204H, OH, OH Surveys 55.5-13667 PTB 14094 VO