

Matador Resources

**Eddy County, NM (NAD27)
Leatherneck 3029 Fed Com
#125H**

**OH
Prelim A**

Anticollision Report

22 May, 2019

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

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

Survey Tool Program Date 5/22/2019

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,952.07	Prelim A (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						
Leatherneck 3029 Fed Com						
#105H - OH - Prelim A	1,615.90	1,607.99	204.01	192.94	18.415	CC, ES
#105H - OH - Prelim A	5,300.00	5,285.30	267.03	229.17	7.054	SF
#106H - OH - Prelim A	2,540.68	2,556.19	42.35	24.53	2.377	CC, ES, SF
#112H - OH - Prelim A	3,254.66	3,248.69	61.37	38.63	2.699	CC, ES
#112H - OH - Prelim A	3,300.00	3,306.79	61.97	38.86	2.682	SF
#115H - OH - Prelim A	2,094.95	2,092.42	77.79	63.25	5.348	CC
#115H - OH - Prelim A	5,723.97	5,715.88	81.28	40.25	1.981	ES
#115H - OH - Prelim A	5,800.00	5,791.90	81.96	40.38	1.971	SF
#116H - OH - Prelim A	2,138.45	2,143.78	35.89	21.15	2.434	CC, ES, SF
#126H - OH - Prelim A	1,200.00	1,198.92	28.53	20.45	3.532	CC, ES
#126H - OH - Prelim A	17,952.07	17,991.62	1,322.00	847.57	2.786	SF
#136H - OH - Prelim A	1,214.92	1,214.46	27.73	19.51	3.375	CC, ES
#136H - OH - Prelim A	1,300.00	1,300.75	28.59	19.78	3.243	SF
#206H - OH - Prelim A	1,777.46	1,777.11	25.23	13.08	2.077	CC
#206H - OH - Prelim A	1,900.00	1,900.49	25.94	12.91	1.991	ES, SF
#242H - OH - Prelim A	1,957.81	1,954.14	120.91	107.41	8.953	CC
#242H - OH - Prelim A	3,504.66	3,505.39	130.87	106.42	5.354	ES
#242H - OH - Prelim A	3,700.00	3,701.86	134.65	108.84	5.217	SF

Offset Design Leatherneck 3029 Fed Com - #105H - OH - Prelim A												Offset Site Error:	0.00 usft.
Survey Program: 0-MWD+HDGM												Offset Well Error:	0.00 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)	+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	-7.77	220.00	-30.00	222.04				
100.00	100.00	100.00	100.00	0.13	0.13	-7.77	220.00	-30.00	222.04	221.78	0.26	866.288	
200.00	200.00	200.00	200.00	0.49	0.49	-7.77	220.00	-30.00	222.04	221.06	0.97	228.139	
300.00	300.00	300.00	300.00	0.85	0.85	-7.77	220.00	-30.00	222.04	220.35	1.69	131.367	
400.00	400.00	400.00	400.00	1.20	1.20	-7.77	220.00	-30.00	222.04	219.63	2.41	92.241	
500.00	500.00	500.00	500.00	1.56	1.56	-7.77	220.00	-30.00	222.04	218.91	3.12	71.072	
600.00	600.00	600.00	600.00	1.92	1.92	-7.77	220.00	-30.00	222.04	218.20	3.84	57.806	
700.00	700.00	700.00	700.00	2.28	2.28	-7.77	220.00	-30.00	222.04	217.48	4.56	48.714	
800.00	800.00	800.00	800.00	2.64	2.64	-7.77	220.00	-30.00	222.04	216.76	5.27	42.093	
900.00	900.00	900.00	900.00	3.00	3.00	-7.77	220.00	-30.00	222.04	216.04	5.99	37.056	

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 #125H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#125H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #105H - OH - Prelim A													Offset Site Error:	0.00 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 Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	-7.77		220.00	-30.00	222.04	215.33	6.71	33.096	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.71	42.56		220.00	-30.00	220.75	213.32	7.42	29.738	
1,200.00	1,199.86	1,200.14	1,199.86	4.07	4.07	43.43		220.00	-30.00	217.24	209.10	8.14	26.698	
1,300.00	1,299.73	1,300.27	1,299.73	4.42	4.43	44.40		220.00	-30.00	213.46	204.61	8.85	24.117	
1,400.00	1,399.59	1,400.41	1,399.59	4.78	4.79	45.40		220.00	-30.00	209.75	200.19	9.57	21.926	
1,500.00	1,499.45	1,499.45	1,499.45	5.14	5.14	46.43		220.00	-30.00	206.11	195.83	10.28	20.051	
1,600.00	1,599.31	1,593.09	1,593.08	5.49	5.48	47.29		221.40	-30.58	204.05	193.08	10.97	18.602	
1,615.90	1,615.19	1,607.99	1,607.96	5.55	5.53	47.40		221.88	-30.78	204.01	192.94	11.08	18.415 CC, ES	
1,700.00	1,699.18	1,686.79	1,686.66	5.85	5.82	47.87		225.62	-32.33	205.11	193.46	11.65	17.602	
1,800.00	1,799.04	1,780.37	1,779.92	6.21	6.15	48.13		232.66	-35.25	209.24	196.91	12.33	16.975	
1,900.00	1,898.90	1,873.84	1,872.78	6.58	6.49	48.10		242.50	-39.33	216.42	203.43	12.99	16.659	
2,000.00	1,998.77	1,973.47	1,971.58	6.94	6.85	47.93		254.37	-44.26	225.02	211.31	13.71	16.416	
2,100.00	2,098.63	2,073.10	2,070.37	7.30	7.21	47.77		266.24	-49.18	233.62	219.19	14.43	16.194	
2,200.00	2,198.49	2,172.73	2,169.17	7.66	7.58	47.62		278.12	-54.11	242.22	227.07	15.15	15.991	
2,300.00	2,298.36	2,272.35	2,267.96	8.02	7.95	47.49		289.99	-59.03	250.82	234.96	15.87	15.807	
2,400.00	2,398.22	2,371.98	2,366.76	8.38	8.32	47.36		301.86	-63.96	259.43	242.84	16.59	15.637	
2,500.00	2,498.08	2,471.61	2,465.55	8.75	8.70	47.24		313.74	-68.88	268.04	250.72	17.31	15.481	
2,600.00	2,597.87	2,571.36	2,564.47	9.11	9.08	26.69		325.62	-73.82	274.98	256.94	18.04	15.243	
2,700.00	2,697.43	2,671.29	2,663.56	9.48	9.45	16.79		337.53	-78.76	278.46	259.69	18.77	14.838	
2,800.00	2,796.84	2,771.27	2,762.71	9.85	9.83	16.55		349.45	-83.70	280.27	260.77	19.49	14.377	
2,900.00	2,896.26	2,871.24	2,861.85	10.21	10.22	16.31		361.36	-88.64	282.08	261.86	20.22	13.948	
3,000.00	2,995.67	2,971.22	2,960.99	10.58	10.60	16.08		373.28	-93.58	283.90	262.95	20.95	13.549	
3,100.00	3,095.08	3,071.20	3,060.13	10.96	10.98	15.84		385.19	-98.53	285.73	264.05	21.68	13.177	
3,200.00	3,194.49	3,171.17	3,159.27	11.33	11.37	15.61		397.11	-103.47	287.56	265.14	22.42	12.829	
3,300.00	3,293.90	3,271.15	3,258.41	11.70	11.75	15.39		409.02	-108.41	289.39	266.25	23.15	12.503	
3,400.00	3,393.32	3,371.13	3,357.55	12.07	12.14	15.16		420.93	-113.35	291.23	267.36	23.88	12.196	
3,500.00	3,492.73	3,471.10	3,456.69	12.45	12.53	14.94		432.85	-118.30	293.08	268.47	24.61	11.909	
3,600.00	3,592.14	3,571.08	3,555.83	12.82	12.91	14.72		444.76	-123.24	294.93	269.58	25.34	11.637	
3,700.00	3,691.55	3,671.06	3,654.97	13.20	13.30	14.51		456.68	-128.18	296.78	270.70	26.08	11.381	
3,800.00	3,790.96	3,771.03	3,754.12	13.57	13.69	14.29		468.59	-133.12	298.63	271.83	26.81	11.139	
3,900.00	3,890.38	3,871.01	3,853.26	13.95	14.08	14.08		480.51	-138.07	300.50	272.95	27.54	10.910	
4,000.00	3,989.79	3,970.99	3,952.40	14.33	14.47	13.87		492.42	-143.01	302.36	274.08	28.28	10.693	
4,100.00	4,089.20	4,070.96	4,051.54	14.71	14.86	13.67		504.34	-147.95	304.23	275.22	29.01	10.487	
4,200.00	4,188.61	4,170.94	4,150.68	15.08	15.25	13.47		516.25	-152.90	306.10	276.36	29.74	10.292	
4,300.00	4,288.02	4,270.92	4,249.82	15.46	15.64	13.26		528.17	-157.84	307.98	277.50	30.48	10.105	
4,400.00	4,387.44	4,370.89	4,348.96	15.84	16.03	13.07		540.08	-162.78	309.86	278.65	31.21	9.928	
4,500.00	4,486.85	4,470.87	4,448.10	16.22	16.42	12.87		551.99	-167.72	311.74	279.80	31.94	9.759	
4,600.00	4,586.26	4,572.85	4,549.24	16.60	16.81	12.68		564.09	-172.74	313.57	280.88	32.69	9.591	
4,700.00	4,685.67	4,684.64	4,660.43	16.98	17.24	12.60		574.73	-177.16	312.94	279.44	33.50	9.341	
4,800.00	4,785.08	4,796.22	4,771.77	17.36	17.65	12.74		581.35	-179.90	308.55	274.29	34.26	9.005	
4,900.00	4,884.50	4,907.25	4,882.76	17.74	18.04	13.11		583.95	-180.98	300.43	265.45	34.98	8.590	
5,000.00	4,983.91	5,010.24	4,985.73	18.12	18.38	13.80		584.00	-180.01	289.83	254.15	35.68	8.123	
5,100.00	5,083.32	5,112.03	5,086.28	18.50	18.70	17.43		583.99	-165.05	278.27	241.87	36.40	7.645	
5,200.00	5,182.73	5,204.68	5,174.21	18.88	18.95	24.21		583.98	-136.17	268.70	231.49	37.21	7.222	
5,266.51	5,248.85	5,259.71	5,223.82	19.13	19.09	29.78		583.97	-112.44	266.30	228.61	37.69	7.066	
5,300.00	5,282.14	5,285.30	5,246.08	19.26	19.15	32.71		583.96	-99.80	267.03	229.17	37.85	7.054 SF	
5,400.00	5,381.56	5,353.52	5,302.41	19.64	19.30	41.28		583.94	-61.39	279.23	241.48	37.75	7.397	
5,500.00	5,480.97	5,410.48	5,345.68	20.02	19.41	48.82		583.92	-24.37	308.32	271.73	36.59	8.425	
5,600.00	5,580.38	5,457.88	5,378.73	20.40	19.49	54.97		583.91	9.57	353.38	318.67	34.71	10.181	
5,700.00	5,679.79	5,500.00	5,405.66	20.78	19.58	60.13		583.89	41.95	411.30	378.55	32.75	12.560	
5,800.00	5,779.34	5,530.88	5,423.86	21.16	19.70	65.12		583.88	66.90	479.18	448.43	30.75	15.584	
5,900.00	5,879.16	5,559.80	5,439.66	21.52	19.85	70.16		583.87	91.11	554.66	525.48	29.18	19.009	

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Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 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)						
6,000.00	5,979.12	5,585.04	5,452.43	21.88	20.00	74.98	583.86	112.87	635.39	607.47	27.92	22.755		
6,100.00	6,079.12	5,600.00	5,459.55	22.22	20.08	56.94	583.85	126.04	719.78	693.06	26.72	26.943		
6,200.00	6,179.12	5,626.28	5,471.21	22.57	20.26	58.85	583.84	149.58	806.45	780.34	26.12	30.880		
6,300.00	6,279.12	5,650.00	5,480.80	22.91	20.42	60.44	583.83	171.28	895.19	869.56	25.63	34.930		
6,400.00	6,379.12	5,650.00	5,480.80	23.26	20.42	60.44	583.83	171.28	985.41	960.67	24.74	39.836		
6,500.00	6,479.12	5,670.91	5,488.49	23.60	20.58	61.74	583.82	190.72	1,076.78	1,052.29	24.49	43.976		
6,600.00	6,579.12	5,682.57	5,492.48	23.95	20.66	62.43	583.82	201.68	1,169.26	1,145.11	24.14	48.428		
6,700.00	6,679.12	5,700.00	5,498.02	24.30	20.80	63.41	583.81	218.20	1,262.66	1,238.65	24.00	52.604		
6,800.00	6,779.12	5,700.00	5,498.02	24.64	20.80	63.41	583.81	218.20	1,356.66	1,333.02	23.64	57.400		
6,900.00	6,879.12	5,700.00	5,498.02	24.99	20.80	63.41	583.81	218.20	1,451.46	1,428.10	23.36	62.135		
7,000.00	6,979.12	5,718.73	5,503.40	25.34	20.96	64.41	583.80	236.14	1,546.50	1,523.08	23.43	66.016		
7,100.00	7,079.12	5,725.80	5,505.29	25.69	21.02	64.77	583.80	242.96	1,642.14	1,618.78	23.36	70.284		
7,200.00	7,179.12	5,732.28	5,506.93	26.03	21.07	65.09	583.79	249.23	1,738.17	1,714.83	23.34	74.481		
7,300.00	7,278.92	5,750.00	5,511.08	26.38	21.22	6.18	583.78	266.45	1,833.23	1,809.81	23.42	78.265		
7,400.00	7,376.45	5,750.00	5,511.08	26.71	21.22	4.38	583.78	266.45	1,922.24	1,899.07	23.17	82.969		
7,500.00	7,468.78	5,750.00	5,511.08	27.03	21.22	3.42	583.78	266.45	2,003.64	1,980.80	22.83	87.746		
7,600.00	7,553.10	5,773.25	5,515.71	27.32	21.44	3.28	583.77	289.23	2,075.39	2,052.71	22.68	91.511		
7,700.00	7,626.93	5,800.00	5,519.89	27.61	21.69	2.88	583.76	315.65	2,136.78	2,114.28	22.51	94.935		
7,800.00	7,690.25	5,800.00	5,519.89	27.95	21.69	1.35	583.76	315.65	2,188.30	2,166.16	22.14	98.829		
7,900.00	7,742.08	5,821.71	5,522.38	28.39	21.91	0.67	583.75	337.22	2,230.21	2,208.18	22.02	101.260		
8,000.00	7,780.85	5,850.00	5,524.38	28.94	22.20	0.33	583.74	365.43	2,261.61	2,239.57	22.03	102.645		
8,100.00	7,805.36	5,850.00	5,524.38	29.59	22.20	0.08	583.74	365.43	2,281.66	2,259.65	22.01	103.669		
8,200.00	7,814.89	5,906.49	5,525.00	30.35	22.81	0.07	583.71	408.93	2,289.89	2,267.51	22.38	102.299		
8,300.00	7,815.00	6,006.49	5,525.00	31.20	24.03	0.08	583.67	508.93	2,290.01	2,266.96	23.05	99.368		
8,400.00	7,815.00	6,106.49	5,525.00	32.20	25.40	0.07	583.62	608.93	2,290.01	2,266.21	23.79	96.244		
8,500.00	7,815.00	6,206.49	5,525.00	33.32	26.90	0.07	583.57	708.93	2,290.01	2,265.39	24.62	93.017		
8,600.00	7,815.00	6,306.49	5,525.00	34.56	28.51	0.07	583.52	808.93	2,290.01	2,264.49	25.51	89.753		
8,700.00	7,815.00	6,406.49	5,525.00	35.91	30.20	0.07	583.47	908.93	2,290.01	2,263.54	26.47	86.507		
8,800.00	7,815.00	6,506.49	5,525.00	37.35	31.97	0.07	583.42	1,008.93	2,290.01	2,262.52	27.48	83.320		
8,900.00	7,815.00	6,606.49	5,525.00	38.87	33.81	0.07	583.38	1,108.93	2,290.01	2,261.46	28.55	80.220		
9,000.00	7,815.00	6,706.49	5,525.00	40.47	35.70	0.07	583.33	1,208.93	2,290.01	2,260.36	29.65	77.228		
9,100.00	7,815.00	6,806.49	5,525.00	42.13	37.64	0.07	583.28	1,308.93	2,290.01	2,259.21	30.80	74.356		
9,200.00	7,815.00	6,906.49	5,525.00	43.86	39.62	0.07	583.23	1,408.93	2,290.01	2,258.03	31.98	71.612		
9,300.00	7,815.00	7,006.49	5,525.00	45.63	41.63	0.07	583.18	1,508.93	2,290.01	2,256.82	33.19	68.998		
9,400.00	7,815.00	7,106.49	5,525.00	47.45	43.67	0.07	583.13	1,608.93	2,290.01	2,255.58	34.43	66.514		
9,500.00	7,815.00	7,206.49	5,525.00	49.31	45.73	0.07	583.09	1,708.93	2,290.01	2,254.31	35.69	64.157		
9,600.00	7,815.00	7,306.49	5,525.00	51.21	47.82	0.07	583.04	1,808.93	2,290.01	2,253.03	36.98	61.924		
9,700.00	7,815.00	7,406.49	5,525.00	53.14	49.93	0.06	582.99	1,908.93	2,290.01	2,251.72	38.29	59.809		
9,800.00	7,815.00	7,506.49	5,525.00	55.10	52.05	0.06	582.94	2,008.93	2,290.01	2,250.39	39.62	57.806		
9,900.00	7,815.00	7,606.49	5,525.00	57.08	54.19	0.06	582.89	2,108.93	2,290.01	2,249.05	40.96	55.911		
10,000.00	7,815.00	7,706.49	5,525.00	59.09	56.35	0.06	582.84	2,208.93	2,290.01	2,247.69	42.32	54.116		
10,100.00	7,815.00	7,806.49	5,525.00	61.12	58.51	0.06	582.80	2,308.93	2,290.01	2,246.32	43.69	52.417		
10,200.00	7,815.00	7,906.49	5,525.00	63.17	60.69	0.06	582.75	2,408.93	2,290.01	2,244.93	45.07	50.806		
10,300.00	7,815.00	8,006.49	5,525.00	65.24	62.87	0.06	582.70	2,508.93	2,290.01	2,243.54	46.47	49.280		
10,400.00	7,815.00	8,106.49	5,525.00	67.32	65.07	0.06	582.65	2,608.93	2,290.01	2,242.13	47.88	47.832		
10,500.00	7,815.00	8,206.49	5,525.00	69.42	67.27	0.06	582.60	2,708.93	2,290.01	2,240.71	49.29	46.458		
10,600.00	7,815.00	8,306.49	5,525.00	71.53	69.48	0.06	582.55	2,808.93	2,290.01	2,239.29	50.72	45.153		
10,700.00	7,815.00	8,406.49	5,525.00	73.65	71.69	0.06	582.51	2,908.93	2,290.01	2,237.86	52.15	43.912		
10,800.00	7,815.00	8,506.49	5,525.00	75.78	73.91	0.06	582.46	3,008.93	2,290.01	2,236.42	53.59	42.731		
10,900.00	7,815.00	8,606.49	5,525.00	77.92	76.14	0.06	582.41	3,108.93	2,290.01	2,234.97	55.04	41.607		
11,000.00	7,815.00	8,706.49	5,525.00	80.08	78.37	0.05	582.36	3,208.93	2,290.01	2,233.51	56.49	40.537		
11,100.00	7,815.00	8,793.51	5,525.00	82.24	80.31	0.05	582.31	3,308.93	2,290.01	2,232.15	57.85	39.582		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #105H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance						
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)	Separation Factor	Warning
11,200.00	7,815.00	8,906.49	5,525.00	84.40	82.84	0.05	582.26	3,408.93	2,290.01	2,230.59	59.42	38.541	
11,300.00	7,815.00	9,006.49	5,525.00	86.58	85.08	0.05	582.22	3,508.93	2,290.01	2,229.12	60.89	37.610	
11,400.00	7,815.00	9,106.49	5,525.00	88.76	87.33	0.05	582.17	3,608.93	2,290.01	2,227.64	62.36	36.720	
11,500.00	7,815.00	9,206.49	5,525.00	90.95	89.58	0.05	582.12	3,708.93	2,290.01	2,226.16	63.84	35.869	
11,600.00	7,815.00	9,306.49	5,525.00	93.14	91.83	0.05	582.07	3,808.93	2,290.01	2,224.68	65.33	35.055	
11,700.00	7,815.00	9,406.49	5,525.00	95.34	94.08	0.05	582.02	3,908.93	2,290.01	2,223.19	66.81	34.274	
11,800.00	7,815.00	9,506.49	5,525.00	97.55	96.34	0.05	581.97	4,008.93	2,290.00	2,221.70	68.31	33.526	
11,900.00	7,815.00	9,606.49	5,525.00	99.75	98.60	0.05	581.93	4,108.93	2,290.00	2,220.20	69.80	32.808	
12,000.00	7,815.00	9,706.49	5,525.00	101.97	100.86	0.05	581.88	4,208.93	2,290.00	2,218.71	71.30	32.119	
12,100.00	7,815.00	9,806.49	5,525.00	104.19	103.13	0.05	581.83	4,308.93	2,290.00	2,217.21	72.80	31.456	
12,200.00	7,815.00	9,906.49	5,525.00	106.41	105.39	0.04	581.78	4,408.93	2,290.00	2,215.70	74.30	30.820	
12,300.00	7,815.00	10,006.49	5,525.00	108.64	107.66	0.04	581.73	4,508.93	2,290.00	2,214.20	75.81	30.207	
12,400.00	7,815.00	10,106.49	5,525.00	110.87	109.93	0.04	581.68	4,608.93	2,290.00	2,212.69	77.32	29.618	
12,500.00	7,815.00	10,206.49	5,525.00	113.10	112.20	0.04	581.64	4,708.93	2,290.00	2,211.18	78.83	29.050	
12,600.00	7,815.00	10,306.49	5,525.00	115.33	114.47	0.04	581.59	4,808.93	2,290.00	2,209.66	80.34	28.503	
12,700.00	7,815.00	10,406.49	5,525.00	117.57	116.75	0.04	581.54	4,908.93	2,290.00	2,208.15	81.86	27.975	
12,800.00	7,815.00	10,506.49	5,525.00	119.81	119.02	0.04	581.49	5,008.93	2,290.00	2,206.63	83.38	27.466	
12,900.00	7,815.00	10,606.49	5,525.00	122.05	121.30	0.04	581.44	5,108.93	2,290.00	2,205.11	84.89	26.975	
13,000.00	7,815.00	10,706.49	5,525.00	124.30	123.58	0.04	581.39	5,208.93	2,290.00	2,203.59	86.42	26.500	
13,100.00	7,815.00	10,806.49	5,525.00	126.55	125.86	0.04	581.35	5,308.93	2,290.00	2,202.06	87.94	26.041	
13,200.00	7,815.00	10,906.49	5,525.00	128.80	128.14	0.04	581.30	5,408.93	2,290.00	2,200.54	89.46	25.597	
13,300.00	7,815.00	11,006.49	5,525.00	131.05	130.42	0.04	581.25	5,508.93	2,290.00	2,199.01	90.99	25.168	
13,400.00	7,815.00	11,106.49	5,525.00	133.30	132.70	0.04	581.20	5,608.93	2,290.00	2,197.49	92.52	24.752	
13,500.00	7,815.00	11,206.49	5,525.00	135.56	134.98	0.03	581.15	5,708.93	2,290.00	2,195.96	94.05	24.350	
13,600.00	7,815.00	11,306.49	5,525.00	137.82	137.27	0.03	581.10	5,808.93	2,290.00	2,194.43	95.58	23.960	
13,700.00	7,815.00	11,406.49	5,525.00	140.08	139.55	0.03	581.06	5,908.93	2,290.00	2,192.90	97.11	23.582	
13,800.00	7,815.00	11,506.49	5,525.00	142.34	141.84	0.03	581.01	6,008.93	2,290.00	2,191.36	98.64	23.216	
13,900.00	7,815.00	11,606.49	5,525.00	144.60	144.12	0.03	580.96	6,108.93	2,290.00	2,189.83	100.17	22.860	
14,000.00	7,815.00	11,706.49	5,525.00	146.86	146.41	0.03	580.91	6,208.93	2,290.00	2,188.30	101.71	22.516	
14,100.00	7,815.00	11,806.49	5,525.00	149.13	148.70	0.03	580.86	6,308.93	2,290.00	2,186.76	103.24	22.181	
14,200.00	7,815.00	11,906.49	5,525.00	151.40	150.98	0.03	580.81	6,408.93	2,290.00	2,185.22	104.78	21.855	
14,300.00	7,815.00	12,006.49	5,525.00	153.66	153.27	0.03	580.77	6,508.93	2,290.00	2,183.68	106.32	21.539	
14,400.00	7,815.00	12,106.49	5,525.00	155.93	155.56	0.03	580.72	6,608.93	2,290.00	2,182.15	107.86	21.232	
14,500.00	7,815.00	12,206.49	5,525.00	158.20	157.85	0.03	580.67	6,708.93	2,290.00	2,180.61	109.40	20.933	
14,600.00	7,815.00	12,306.49	5,525.00	160.47	160.14	0.03	580.62	6,808.93	2,290.00	2,179.07	110.94	20.642	
14,700.00	7,815.00	12,406.49	5,525.00	162.75	162.43	0.03	580.57	6,908.93	2,290.00	2,177.52	112.48	20.360	
14,800.00	7,815.00	12,506.49	5,525.00	165.02	164.72	0.02	580.52	7,008.93	2,290.00	2,175.98	114.02	20.084	
14,900.00	7,815.00	12,606.49	5,525.00	167.29	167.02	0.02	580.48	7,108.93	2,290.00	2,174.44	115.56	19.816	
15,000.00	7,815.00	12,706.49	5,525.00	169.57	169.31	0.02	580.43	7,208.93	2,290.00	2,172.90	117.11	19.555	
15,100.00	7,815.00	12,806.49	5,525.00	171.84	171.60	0.02	580.38	7,308.93	2,290.00	2,171.35	118.65	19.300	
15,200.00	7,815.00	12,906.49	5,525.00	174.12	173.89	0.02	580.33	7,408.93	2,290.00	2,169.81	120.20	19.052	
15,300.00	7,815.00	13,006.49	5,525.00	176.40	176.19	0.02	580.28	7,508.93	2,290.00	2,168.26	121.74	18.811	
15,400.00	7,815.00	13,106.49	5,525.00	178.68	178.48	0.02	580.23	7,608.93	2,290.00	2,166.72	123.29	18.575	
15,500.00	7,815.00	13,206.49	5,525.00	180.96	180.78	0.02	580.19	7,708.93	2,290.00	2,165.17	124.83	18.344	
15,600.00	7,815.00	13,306.49	5,525.00	183.24	183.07	0.02	580.14	7,808.93	2,290.00	2,163.62	126.38	18.120	
15,700.00	7,815.00	13,406.49	5,525.00	185.52	185.37	0.02	580.09	7,908.93	2,290.00	2,162.07	127.93	17.901	
15,800.00	7,815.00	13,506.49	5,525.00	187.80	187.66	0.02	580.04	8,008.93	2,290.00	2,160.53	129.48	17.687	
15,900.00	7,815.00	13,606.49	5,525.00	190.08	189.96	0.02	579.99	8,108.93	2,290.00	2,158.98	131.03	17.478	
16,000.00	7,815.00	13,706.49	5,525.00	192.36	192.25	0.02	579.94	8,208.93	2,290.00	2,157.43	132.57	17.273	
16,100.00	7,815.00	13,806.49	5,525.00	194.65	194.55	0.01	579.90	8,308.93	2,290.00	2,155.88	134.12	17.074	
16,200.00	7,815.00	13,906.49	5,525.00	196.93	196.85	0.01	579.85	8,408.93	2,290.00	2,154.33	135.67	16.879	
16,300.00	7,815.00	14,006.49	5,525.00	199.21	199.14	0.01	579.80	8,508.93	2,290.00	2,152.78	137.22	16.688	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #105H - OH - Prelim A													Offset Site Error:	0.00 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		
16,400.00	7,815.00	14,106.49	5,525.00	201.50	201.44	0.01	579.75	8,608.93	2,290.00	2,151.23	138.78	16.501		
16,500.00	7,815.00	14,206.49	5,525.00	203.79	203.74	0.01	579.70	8,708.93	2,290.00	2,149.67	140.33	16.319		
16,600.00	7,815.00	14,306.49	5,525.00	206.07	206.04	0.01	579.65	8,808.93	2,290.00	2,148.12	141.88	16.140		
16,700.00	7,815.00	14,406.49	5,525.00	208.36	208.33	0.01	579.61	8,908.93	2,290.00	2,146.57	143.43	15.966		
16,800.00	7,815.00	14,506.49	5,525.00	210.65	210.63	0.01	579.56	9,008.93	2,290.00	2,145.02	144.98	15.795		
16,900.00	7,815.00	14,606.49	5,525.00	212.93	212.93	0.01	579.51	9,108.93	2,290.00	2,143.46	146.54	15.627		
17,000.00	7,815.00	14,706.49	5,525.00	215.22	215.23	0.01	579.46	9,208.93	2,290.00	2,141.91	148.09	15.464		
17,100.00	7,815.00	14,806.49	5,525.00	217.51	217.53	0.01	579.41	9,308.93	2,290.00	2,140.36	149.64	15.303		
17,200.00	7,815.00	14,906.49	5,525.00	219.80	219.83	0.01	579.36	9,408.93	2,290.00	2,138.80	151.20	15.146		
17,300.00	7,815.00	15,006.49	5,525.00	222.09	222.13	0.01	579.32	9,508.93	2,290.00	2,137.25	152.75	14.992		
17,400.00	7,815.00	15,106.49	5,525.00	224.38	224.42	0.00	579.27	9,608.93	2,290.00	2,135.69	154.31	14.841		
17,500.00	7,815.00	15,206.49	5,525.00	226.67	226.72	0.00	579.22	9,708.93	2,290.00	2,134.14	155.86	14.692		
17,600.00	7,815.00	15,306.49	5,525.00	228.96	229.02	0.00	579.17	9,808.93	2,290.00	2,132.58	157.42	14.547		
17,700.00	7,815.00	15,406.49	5,525.00	231.25	231.32	0.00	579.12	9,908.93	2,290.00	2,131.03	158.97	14.405		
17,800.00	7,815.00	15,506.49	5,525.00	233.54	233.62	0.00	579.07	10,008.93	2,290.00	2,129.47	160.53	14.265		
17,900.00	7,815.00	15,593.51	5,525.00	235.83	235.63	0.00	579.03	10,108.93	2,290.00	2,128.02	161.98	14.137		
17,952.07	7,815.00	15,645.58	5,525.00	237.02	236.82	0.00	579.00	10,161.00	2,290.00	2,127.21	162.79	14.067		

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design											Leatherneck 3029 Fed Com - #106H - OH - Prelim A		Offset Site Error: 0.00 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	
0.00	0.00	1.00	-1.00	0.00	0.00	0.00	220.00	0.00	220.00					
100.00	100.00	101.00	99.00	0.13	0.13	0.00	220.00	0.00	220.00	219.74	0.26	846.505		
200.00	200.00	201.00	199.00	0.49	0.49	0.00	220.00	0.00	220.00	219.02	0.98	225.217		
300.00	300.00	301.00	299.00	0.85	0.85	0.00	220.00	0.00	220.00	218.31	1.69	129.887		
400.00	400.00	401.00	399.00	1.20	1.21	0.00	220.00	0.00	220.00	217.59	2.41	91.259		
500.00	500.00	501.00	499.00	1.56	1.57	0.00	220.00	0.00	220.00	216.87	3.13	70.340		
600.00	600.00	601.00	599.00	1.92	1.92	0.00	220.00	0.00	220.00	216.16	3.84	57.223		
700.00	700.00	701.00	699.00	2.28	2.28	0.00	220.00	0.00	220.00	215.44	4.56	48.229		
800.00	800.00	801.00	799.00	2.64	2.64	0.00	220.00	0.00	220.00	214.72	5.28	41.679		
900.00	900.00	901.00	899.00	3.00	3.00	0.00	220.00	0.00	220.00	214.00	6.00	36.695		
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	0.00	220.00	0.00	220.00	213.29	6.71	32.775		
1,100.00	1,099.98	1,101.02	1,098.98	3.71	3.72	50.37	220.00	0.00	218.88	211.46	7.43	29.472		
1,200.00	1,199.86	1,201.14	1,198.86	4.07	4.08	51.37	220.00	0.00	215.85	207.71	8.14	26.516		
1,300.00	1,299.73	1,301.27	1,298.73	4.42	4.43	52.47	220.00	0.00	212.62	203.77	8.85	24.012		
1,400.00	1,399.59	1,401.41	1,398.59	4.78	4.79	53.60	220.00	0.00	209.47	199.90	9.57	21.887		
1,500.00	1,499.45	1,498.45	1,498.45	5.14	5.14	54.77	220.00	0.00	206.41	196.13	10.28	20.086		
1,600.00	1,599.31	1,605.78	1,605.76	5.49	5.51	56.07	218.06	-0.19	201.61	190.62	10.99	18.338		
1,700.00	1,699.18	1,712.70	1,712.50	5.85	5.86	57.47	212.15	-0.77	193.19	181.51	11.68	16.539		
1,800.00	1,799.04	1,818.79	1,818.13	6.21	6.21	59.05	202.37	-1.73	181.18	168.82	12.36	14.664		
1,900.00	1,898.90	1,923.78	1,922.23	6.58	6.56	60.98	188.86	-3.06	165.68	152.66	13.01	12.730		
2,000.00	1,998.77	2,027.40	2,024.43	6.94	6.92	63.48	171.82	-4.73	146.82	133.16	13.66	10.751		
2,100.00	2,098.63	2,129.43	2,124.38	7.30	7.29	67.01	151.46	-6.73	124.82	110.54	14.29	8.738		
2,200.00	2,198.49	2,227.99	2,220.28	7.66	7.66	72.36	128.81	-8.95	100.51	85.55	14.95	6.723		
2,300.00	2,298.36	2,324.35	2,313.93	8.02	8.03	80.93	106.24	-11.17	77.09	61.40	15.69	4.914		
2,400.00	2,398.22	2,420.71	2,407.58	8.38	8.42	96.02	83.66	-13.38	56.70	40.19	16.51	3.435		
2,500.00	2,498.08	2,517.07	2,501.23	8.75	8.81	122.64	61.08	-15.60	43.76	26.31	17.45	2.508		
2,540.68	2,538.69	2,556.19	2,539.25	8.90	8.97	126.56	51.92	-16.50	42.35	24.53	17.82	2.377 CC, ES, SF		
2,600.00	2,597.87	2,612.97	2,594.43	9.11	9.20	137.66	38.62	-17.80	45.64	27.42	18.22	2.505		
2,700.00	2,697.43	2,707.82	2,686.62	9.48	9.60	154.44	16.39	-19.98	64.35	45.63	18.72	3.438		
2,800.00	2,796.84	2,802.14	2,778.28	9.85	10.01	168.60	-5.71	-22.15	91.89	72.62	19.27	4.768		
2,900.00	2,896.26	2,896.45	2,869.95	10.21	10.41	176.14	-27.80	-24.32	122.30	102.40	19.90	6.146		
3,000.00	2,995.67	3,009.23	2,961.61	10.58	10.91	-179.33	-49.90	-26.49	153.88	133.25	20.63	7.460		
3,100.00	3,095.08	3,085.08	3,053.28	10.96	11.24	-176.34	-72.00	-28.66	186.04	164.81	21.23	8.762		
3,200.00	3,194.49	3,179.40	3,144.94	11.33	11.66	-174.23	-94.10	-30.83	218.52	196.60	21.92	9.969		
3,300.00	3,293.90	3,273.71	3,236.61	11.70	12.08	-172.67	-116.19	-33.00	251.20	228.59	22.61	11.110		
3,400.00	3,393.32	3,368.03	3,328.27	12.07	12.50	-171.46	-138.29	-35.16	284.01	260.70	23.31	12.186		
3,500.00	3,492.73	3,462.35	3,419.94	12.45	12.93	-170.51	-160.39	-37.33	316.90	292.90	24.00	13.202		
3,600.00	3,592.14	3,556.66	3,511.60	12.82	13.36	-169.73	-182.49	-39.50	349.87	325.16	24.71	14.161		
3,700.00	3,691.55	3,650.98	3,603.26	13.20	13.79	-169.09	-204.58	-41.67	382.87	357.47	25.41	15.068		
3,800.00	3,790.96	3,745.29	3,694.93	13.57	14.22	-168.55	-226.68	-43.84	415.92	389.81	26.11	15.927		
3,900.00	3,890.38	3,839.61	3,786.59	13.95	14.66	-168.09	-248.78	-46.01	448.99	422.17	26.82	16.740		
4,000.00	3,989.79	3,933.92	3,878.26	14.33	15.09	-167.69	-270.88	-48.18	482.09	454.56	27.53	17.512		
4,100.00	4,089.20	4,028.24	3,969.92	14.71	15.53	-167.34	-292.98	-50.35	515.20	486.96	28.24	18.245		
4,200.00	4,188.61	4,122.55	4,061.59	15.08	15.97	-167.04	-315.07	-52.51	548.33	519.38	28.95	18.941		
4,300.00	4,288.02	4,216.87	4,153.25	15.46	16.41	-166.77	-337.17	-54.68	581.47	551.81	29.66	19.605		
4,400.00	4,387.44	4,311.18	4,244.92	15.84	16.85	-166.52	-359.27	-56.85	614.62	584.25	30.37	20.236		
4,500.00	4,486.85	4,405.50	4,336.58	16.22	17.29	-166.31	-381.37	-59.02	647.78	616.70	31.09	20.839		
4,600.00	4,586.26	4,500.19	4,428.24	16.60	17.74	-166.11	-403.46	-61.19	680.95	649.15	31.80	21.413		
4,700.00	4,685.67	4,605.87	4,519.91	16.98	18.23	-165.94	-425.56	-63.36	714.12	681.56	32.56	21.933		
4,800.00	4,785.08	4,688.44	4,611.57	17.36	18.62	-165.77	-447.66	-65.53	747.30	714.07	33.23	22.489		
4,900.00	4,884.50	4,782.76	4,703.24	17.74	19.07	-165.63	-469.76	-67.69	780.49	746.54	33.95	22.993		
5,000.00	4,983.91	4,877.07	4,794.90	18.12	19.51	-165.49	-491.85	-69.86	813.67	779.01	34.66	23.475		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #106H - OH - Prelim A												Offset Site Error:	0.00 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
5,100.00	5,083.32	4,971.39	4,886.57	18.50	19.96	-165.37	-513.95	-72.03	846.87	811.49	35.38	23.937	
5,200.00	5,182.73	5,063.62	4,976.20	18.88	20.40	-165.25	-535.56	-74.11	880.07	844.00	36.07	24.396	
5,300.00	5,282.14	5,134.82	5,045.15	19.26	20.73	-165.52	-552.77	-70.54	914.68	878.14	36.54	25.032	
5,400.00	5,381.56	5,200.00	5,107.26	19.64	21.03	-166.24	-569.11	-59.60	951.75	914.83	36.91	25.783	
5,500.00	5,480.97	5,266.03	5,168.34	20.02	21.32	-167.38	-586.03	-41.21	991.55	954.29	37.26	26.611	
5,600.00	5,580.38	5,323.63	5,219.48	20.40	21.57	-168.68	-600.91	-19.34	1,034.45	996.98	37.47	27.606	
5,700.00	5,679.79	5,375.31	5,263.22	20.78	21.78	-170.06	-614.23	4.72	1,080.76	1,043.19	37.57	28.770	
5,800.00	5,779.34	5,421.66	5,300.41	21.16	21.96	-171.58	-626.05	29.69	1,129.47	1,091.90	37.56	30.068	
5,900.00	5,879.16	5,463.59	5,332.20	21.52	22.13	-173.03	-636.58	54.92	1,178.99	1,141.55	37.44	31.490	
6,000.00	5,979.12	5,500.00	5,358.22	21.88	22.27	-174.32	-645.56	78.74	1,229.46	1,192.27	37.19	33.056	
6,100.00	6,079.12	5,535.48	5,382.06	22.22	22.40	-164.67	-654.11	103.57	1,281.86	1,244.95	36.90	34.735	
6,200.00	6,179.12	5,565.53	5,401.02	22.57	22.52	-163.64	-661.18	125.78	1,338.06	1,301.53	36.53	36.628	
6,300.00	6,279.12	5,600.00	5,421.30	22.91	22.66	-162.43	-669.08	152.51	1,397.98	1,361.76	36.22	38.598	
6,400.00	6,379.12	5,615.76	5,430.03	23.26	22.72	-161.86	-672.60	165.15	1,461.20	1,425.53	35.67	40.968	
6,500.00	6,479.12	5,650.00	5,447.78	23.60	22.87	-160.61	-680.05	193.46	1,527.75	1,492.37	35.38	43.176	
6,600.00	6,579.12	5,650.00	5,447.78	23.95	22.87	-160.61	-680.05	193.46	1,596.90	1,562.23	34.67	46.060	
6,700.00	6,679.12	5,672.53	5,458.53	24.30	22.97	-159.78	-684.80	212.68	1,668.74	1,634.45	34.30	48.654	
6,800.00	6,779.12	5,700.00	5,470.61	24.64	23.09	-158.75	-690.39	236.70	1,743.09	1,709.07	34.02	51.235	
6,900.00	6,879.12	5,700.00	5,470.61	24.99	23.09	-158.75	-690.39	236.70	1,819.31	1,785.87	33.43	54.417	
7,000.00	6,979.12	5,700.00	5,470.61	25.34	23.09	-158.75	-690.39	236.70	1,897.73	1,864.84	32.89	57.695	
7,100.00	7,079.12	5,725.44	5,480.77	25.69	23.22	-157.80	-695.38	259.49	1,977.53	1,944.82	32.72	60.447	
7,200.00	7,179.12	5,750.00	5,489.62	26.03	23.35	-156.88	-700.02	281.92	2,059.23	2,026.67	32.56	63.253	
7,300.00	7,278.92	5,750.00	5,489.62	26.38	23.35	-156.88	-700.02	281.92	2,142.28	2,110.12	32.15	66.626	
7,400.00	7,376.45	5,750.00	5,489.62	26.71	23.35	-156.88	-700.02	281.92	2,226.45	2,194.62	31.83	69.947	
7,500.00	7,468.78	5,772.31	5,496.83	27.03	23.47	-156.88	-704.06	302.64	2,308.82	2,276.98	31.84	72.518	
7,600.00	7,553.10	5,800.00	5,504.66	27.32	23.63	-156.88	-708.85	328.76	2,387.39	2,355.41	31.98	74.660	
7,700.00	7,626.93	5,800.00	5,504.66	27.61	23.63	-156.88	-708.85	328.76	2,459.58	2,427.65	31.93	77.041	
7,800.00	7,690.25	5,821.10	5,509.79	27.95	23.77	-156.88	-712.33	348.93	2,521.81	2,489.68	32.14	78.466	
7,900.00	7,742.08	5,850.00	5,515.62	28.39	23.96	-156.88	-716.84	376.87	2,571.85	2,539.39	32.46	79.232	
8,000.00	7,780.85	5,850.00	5,515.62	28.94	23.96	-156.88	-716.84	376.87	2,608.62	2,576.03	32.58	80.056	
8,100.00	7,805.36	5,900.00	5,522.40	29.59	24.34	-156.88	-723.90	425.89	2,631.56	2,598.31	33.25	79.142	
8,200.00	7,814.89	5,900.00	5,522.40	30.35	24.34	-156.88	-723.90	425.89	2,639.86	2,606.28	33.58	78.622	
8,300.00	7,815.00	5,928.53	5,524.39	31.20	24.58	-156.88	-727.50	454.11	2,640.53	2,606.28	34.25	77.091	
8,400.00	7,815.00	6,082.43	5,525.00	32.20	26.05	-156.88	-734.11	607.70	2,642.69	2,606.73	35.96	73.494	
8,500.00	7,815.00	6,182.43	5,525.00	33.32	27.21	-156.88	-734.20	707.70	2,642.70	2,605.32	37.38	70.705	
8,600.00	7,815.00	6,282.43	5,525.00	34.56	28.54	-156.88	-734.30	807.70	2,642.71	2,603.78	38.92	67.893	
8,700.00	7,815.00	6,382.43	5,525.00	35.91	30.01	-156.88	-734.39	907.70	2,642.71	2,602.12	40.59	65.110	
8,800.00	7,815.00	6,482.43	5,525.00	37.35	31.59	-156.88	-734.48	1,007.70	2,642.72	2,600.36	42.35	62.395	
8,900.00	7,815.00	6,582.43	5,525.00	38.87	33.26	-156.88	-734.57	1,107.70	2,642.73	2,598.51	44.21	59.775	
9,000.00	7,815.00	6,682.43	5,525.00	40.47	35.01	-156.88	-734.67	1,207.70	2,642.73	2,596.59	46.15	57.268	
9,100.00	7,815.00	6,782.43	5,525.00	42.13	36.82	-156.88	-734.76	1,307.70	2,642.74	2,594.59	48.15	54.882	
9,200.00	7,815.00	6,882.43	5,525.00	43.86	38.70	-156.88	-734.85	1,407.70	2,642.75	2,592.53	50.22	52.623	
9,300.00	7,815.00	6,982.43	5,525.00	45.63	40.61	-156.88	-734.95	1,507.70	2,642.75	2,590.41	52.34	50.490	
9,400.00	7,815.00	7,082.43	5,525.00	47.45	42.57	-156.88	-735.04	1,607.70	2,642.76	2,588.25	54.51	48.480	
9,500.00	7,815.00	7,182.43	5,525.00	49.31	44.56	-156.88	-735.13	1,707.70	2,642.77	2,586.04	56.73	46.589	
9,600.00	7,815.00	7,282.43	5,525.00	51.21	46.59	-156.88	-735.23	1,807.70	2,642.77	2,583.80	58.98	44.811	
9,700.00	7,815.00	7,382.43	5,525.00	53.14	48.64	-156.88	-735.32	1,907.70	2,642.78	2,581.52	61.26	43.140	
9,800.00	7,815.00	7,482.43	5,525.00	55.10	50.71	-156.88	-735.41	2,007.70	2,642.79	2,579.21	63.58	41.569	
9,900.00	7,815.00	7,582.43	5,525.00	57.08	52.80	-156.88	-735.51	2,107.70	2,642.79	2,576.88	65.92	40.093	
10,000.00	7,815.00	7,682.43	5,525.00	59.09	54.91	-156.88	-735.60	2,207.70	2,642.80	2,574.52	68.28	38.703	
10,100.00	7,815.00	7,782.43	5,525.00	61.12	57.03	-156.88	-735.69	2,307.70	2,642.81	2,572.13	70.67	37.396	
10,200.00	7,815.00	7,882.43	5,525.00	63.17	59.17	-156.88	-735.78	2,407.70	2,642.81	2,569.73	73.08	36.164	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #106H - OH - Prelim A													Offset Site Error: 0.00 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	7,815.00	7,982.43	5,525.00	65.24	61.32	29.99	-735.88	2,507.70	2,642.82	2,567.32	75.50	35.003	
10,400.00	7,815.00	8,082.43	5,525.00	67.32	63.49	29.99	-735.97	2,607.70	2,642.83	2,564.88	77.94	33.906	
10,500.00	7,815.00	8,182.43	5,525.00	69.42	65.66	29.99	-736.06	2,707.70	2,642.83	2,562.43	80.40	32.871	
10,600.00	7,815.00	8,282.43	5,525.00	71.53	67.84	29.99	-736.16	2,807.70	2,642.84	2,559.97	82.87	31.891	
10,700.00	7,815.00	8,382.43	5,525.00	73.65	70.03	29.99	-736.25	2,907.70	2,642.85	2,557.49	85.35	30.964	
10,800.00	7,815.00	8,482.43	5,525.00	75.78	72.23	29.99	-736.34	3,007.70	2,642.85	2,555.01	87.84	30.086	
10,900.00	7,815.00	8,582.43	5,525.00	77.92	74.43	29.99	-736.44	3,107.70	2,642.86	2,552.51	90.35	29.252	
11,000.00	7,815.00	8,682.43	5,525.00	80.08	76.64	29.99	-736.53	3,207.70	2,642.87	2,550.01	92.86	28.461	
11,100.00	7,815.00	8,782.43	5,525.00	82.24	78.86	29.99	-736.62	3,307.70	2,642.87	2,547.49	95.38	27.709	
11,200.00	7,815.00	8,882.43	5,525.00	84.40	81.08	29.99	-736.71	3,407.70	2,642.88	2,544.97	97.91	26.993	
11,300.00	7,815.00	8,982.43	5,525.00	86.58	83.31	29.99	-736.81	3,507.70	2,642.89	2,542.44	100.45	26.311	
11,400.00	7,815.00	9,082.43	5,525.00	88.76	85.54	29.99	-736.90	3,607.70	2,642.89	2,539.90	102.99	25.662	
11,500.00	7,815.00	9,182.43	5,525.00	90.95	87.77	29.99	-736.99	3,707.70	2,642.90	2,537.36	105.54	25.042	
11,600.00	7,815.00	9,282.43	5,525.00	93.14	90.01	29.99	-737.09	3,807.70	2,642.91	2,534.81	108.10	24.450	
11,700.00	7,815.00	9,382.43	5,525.00	95.34	92.25	29.99	-737.18	3,907.70	2,642.91	2,532.26	110.66	23.884	
11,800.00	7,815.00	9,482.43	5,525.00	97.55	94.50	29.99	-737.27	4,007.70	2,642.92	2,529.70	113.22	23.343	
11,900.00	7,815.00	9,582.43	5,525.00	99.76	96.74	29.99	-737.37	4,107.70	2,642.93	2,527.13	115.79	22.824	
12,000.00	7,815.00	9,682.43	5,525.00	101.97	98.99	29.99	-737.46	4,207.70	2,642.93	2,524.56	118.37	22.328	
12,100.00	7,815.00	9,782.43	5,525.00	104.19	101.25	29.99	-737.55	4,307.70	2,642.94	2,521.99	120.95	21.852	
12,200.00	7,815.00	9,882.43	5,525.00	106.41	103.50	29.99	-737.64	4,407.70	2,642.95	2,519.41	123.53	21.395	
12,300.00	7,815.00	9,982.43	5,525.00	108.64	105.76	29.99	-737.74	4,507.70	2,642.95	2,516.83	126.12	20.956	
12,400.00	7,815.00	10,082.43	5,525.00	110.87	108.02	29.99	-737.83	4,607.70	2,642.96	2,514.25	128.71	20.534	
12,500.00	7,815.00	10,182.43	5,525.00	113.10	110.28	29.99	-737.92	4,707.70	2,642.97	2,511.66	131.31	20.128	
12,600.00	7,815.00	10,282.43	5,525.00	115.33	112.55	29.99	-738.02	4,807.70	2,642.97	2,509.07	133.90	19.738	
12,700.00	7,815.00	10,382.43	5,525.00	117.57	114.81	29.99	-738.11	4,907.70	2,642.98	2,506.48	136.50	19.362	
12,800.00	7,815.00	10,482.43	5,525.00	119.81	117.08	30.00	-738.20	5,007.70	2,642.99	2,503.88	139.11	19.000	
12,900.00	7,815.00	10,582.43	5,525.00	122.05	119.35	30.00	-738.30	5,107.70	2,642.99	2,501.28	141.71	18.650	
13,000.00	7,815.00	10,682.43	5,525.00	124.30	121.62	30.00	-738.39	5,207.70	2,643.00	2,498.68	144.32	18.313	
13,100.00	7,815.00	10,782.43	5,525.00	126.55	123.89	30.00	-738.48	5,307.70	2,643.01	2,496.07	146.93	17.988	
13,200.00	7,815.00	10,882.43	5,525.00	128.80	126.17	30.00	-738.58	5,407.70	2,643.01	2,493.47	149.54	17.674	
13,300.00	7,815.00	10,982.43	5,525.00	131.05	128.44	30.00	-738.67	5,507.70	2,643.02	2,490.86	152.16	17.370	
13,400.00	7,815.00	11,082.43	5,525.00	133.30	130.72	30.00	-738.76	5,607.70	2,643.03	2,488.25	154.78	17.076	
13,500.00	7,815.00	11,182.43	5,525.00	135.56	133.00	30.00	-738.85	5,707.70	2,643.03	2,485.64	157.39	16.792	
13,600.00	7,815.00	11,282.43	5,525.00	137.82	135.27	30.00	-738.95	5,807.70	2,643.04	2,483.02	160.01	16.517	
13,700.00	7,815.00	11,382.43	5,525.00	140.08	137.55	30.00	-739.04	5,907.70	2,643.05	2,480.41	162.64	16.251	
13,800.00	7,815.00	11,482.43	5,525.00	142.34	139.83	30.00	-739.13	6,007.70	2,643.05	2,477.79	165.26	15.993	
13,900.00	7,815.00	11,582.43	5,525.00	144.60	142.11	30.00	-739.23	6,107.70	2,643.06	2,475.17	167.89	15.743	
14,000.00	7,815.00	11,682.43	5,525.00	146.86	144.40	30.00	-739.32	6,207.70	2,643.07	2,472.55	170.51	15.501	
14,100.00	7,815.00	11,782.43	5,525.00	149.13	146.68	30.00	-739.41	6,307.70	2,643.07	2,469.93	173.14	15.265	
14,200.00	7,815.00	11,882.43	5,525.00	151.40	148.96	30.00	-739.51	6,407.70	2,643.08	2,467.31	175.77	15.037	
14,300.00	7,815.00	11,982.43	5,525.00	153.66	151.25	30.00	-739.60	6,507.70	2,643.09	2,464.68	178.40	14.815	
14,400.00	7,815.00	12,082.43	5,525.00	155.93	153.53	30.00	-739.69	6,607.70	2,643.09	2,462.06	181.03	14.600	
14,500.00	7,815.00	12,182.43	5,525.00	158.20	155.82	30.00	-739.78	6,707.70	2,643.10	2,459.43	183.67	14.391	
14,600.00	7,815.00	12,282.43	5,525.00	160.47	158.10	30.00	-739.88	6,807.70	2,643.11	2,456.80	186.30	14.187	
14,700.00	7,815.00	12,382.43	5,525.00	162.75	160.39	30.00	-739.97	6,907.70	2,643.11	2,454.18	188.94	13.989	
14,800.00	7,815.00	12,482.43	5,525.00	165.02	162.68	30.00	-740.06	7,007.70	2,643.12	2,451.55	191.57	13.797	
14,900.00	7,815.00	12,582.43	5,525.00	167.29	164.97	30.00	-740.16	7,107.70	2,643.13	2,448.91	194.21	13.610	
15,000.00	7,815.00	12,682.43	5,525.00	169.57	167.26	30.00	-740.25	7,207.70	2,643.13	2,446.28	196.85	13.427	
15,100.00	7,815.00	12,782.43	5,525.00	171.84	169.55	30.00	-740.34	7,307.70	2,643.14	2,443.65	199.49	13.249	
15,200.00	7,815.00	12,882.43	5,525.00	174.12	171.84	30.00	-740.44	7,407.70	2,643.15	2,441.02	202.13	13.076	
15,300.00	7,815.00	12,982.43	5,525.00	176.40	174.13	30.00	-740.53	7,507.70	2,643.15	2,438.38	204.77	12.908	
15,400.00	7,815.00	13,082.43	5,525.00	178.68	176.42	30.00	-740.62	7,607.70	2,643.16	2,435.75	207.41	12.743	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #106H - OH - Prelim A													Offset Site Error: 0.00 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	
15,500.00	7,815.00	13,182.43	5,525.00	180.96	178.71	30.00	-740.71	7,707.70	2,643.17	2,433.11	210.06	12.583	
15,600.00	7,815.00	13,282.43	5,525.00	183.24	181.00	30.00	-740.81	7,807.70	2,643.17	2,430.47	212.70	12.427	
15,700.00	7,815.00	13,382.43	5,525.00	185.52	183.29	30.00	-740.90	7,907.70	2,643.18	2,427.84	215.35	12.274	
15,800.00	7,815.00	13,482.43	5,525.00	187.80	185.58	30.00	-740.99	8,007.70	2,643.19	2,425.20	217.99	12.125	
15,900.00	7,815.00	13,582.43	5,525.00	190.08	187.88	30.00	-741.09	8,107.70	2,643.19	2,422.56	220.64	11.980	
16,000.00	7,815.00	13,682.43	5,525.00	192.36	190.17	30.00	-741.18	8,207.70	2,643.20	2,419.92	223.28	11.838	
16,100.00	7,815.00	13,782.43	5,525.00	194.65	192.46	30.00	-741.27	8,307.70	2,643.21	2,417.28	225.93	11.699	
16,200.00	7,815.00	13,882.43	5,525.00	196.93	194.76	30.00	-741.37	8,407.70	2,643.21	2,414.64	228.58	11.564	
16,300.00	7,815.00	13,982.43	5,525.00	199.21	197.05	30.00	-741.46	8,507.70	2,643.22	2,411.99	231.23	11.431	
16,400.00	7,815.00	14,082.43	5,525.00	201.50	199.35	30.00	-741.55	8,607.70	2,643.23	2,409.35	233.88	11.302	
16,500.00	7,815.00	14,182.43	5,525.00	203.79	201.64	30.00	-741.65	8,707.70	2,643.23	2,406.71	236.52	11.175	
16,600.00	7,815.00	14,282.43	5,525.00	206.07	203.94	30.00	-741.74	8,807.70	2,643.24	2,404.07	239.18	11.051	
16,700.00	7,815.00	14,382.43	5,525.00	208.36	206.23	30.01	-741.83	8,907.70	2,643.25	2,401.42	241.83	10.930	
16,800.00	7,815.00	14,482.43	5,525.00	210.65	208.53	30.01	-741.92	9,007.70	2,643.25	2,398.78	244.48	10.812	
16,900.00	7,815.00	14,582.43	5,525.00	212.93	210.83	30.01	-742.02	9,107.70	2,643.26	2,396.13	247.13	10.696	
17,000.00	7,815.00	14,682.43	5,525.00	215.22	213.12	30.01	-742.11	9,207.70	2,643.27	2,393.49	249.78	10.582	
17,100.00	7,815.00	14,782.43	5,525.00	217.51	215.42	30.01	-742.20	9,307.70	2,643.27	2,390.84	252.43	10.471	
17,200.00	7,815.00	14,882.43	5,525.00	219.80	217.72	30.01	-742.30	9,407.70	2,643.28	2,388.19	255.09	10.362	
17,300.00	7,815.00	14,982.43	5,525.00	222.09	220.01	30.01	-742.39	9,507.70	2,643.29	2,385.55	257.74	10.256	
17,400.00	7,815.00	15,082.43	5,525.00	224.38	222.31	30.01	-742.48	9,607.70	2,643.29	2,382.90	260.39	10.151	
17,500.00	7,815.00	15,182.43	5,525.00	226.67	224.61	30.01	-742.58	9,707.70	2,643.30	2,380.25	263.05	10.049	
17,600.00	7,815.00	15,282.43	5,525.00	228.96	226.91	30.01	-742.67	9,807.70	2,643.31	2,377.60	265.70	9.948	
17,700.00	7,815.00	15,382.43	5,525.00	231.25	229.21	30.01	-742.76	9,907.70	2,643.31	2,374.96	268.36	9.850	
17,800.00	7,815.00	15,482.43	5,525.00	233.54	231.50	30.01	-742.85	10,007.70	2,643.32	2,372.31	271.01	9.753	
17,900.00	7,815.00	15,582.43	5,525.00	235.83	233.80	30.01	-742.95	10,107.70	2,643.33	2,369.66	273.67	9.659	
17,952.07	7,815.00	15,634.50	5,525.00	237.02	235.00	30.01	-743.00	10,159.77	2,643.33	2,368.28	275.05	9.610	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #112H - OH - Prelim A														Offset Site Error: 0.00 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		
0.00	0.00	1.00	-1.00	0.00	0.00	-12.09	140.00	-30.00	143.18					
100.00	100.00	101.00	99.00	0.13	0.13	-12.09	140.00	-30.00	143.18	142.92	0.26	550.914		
200.00	200.00	201.00	199.00	0.49	0.49	-12.09	140.00	-30.00	143.18	142.20	0.98	146.574		
300.00	300.00	301.00	299.00	0.85	0.85	-12.09	140.00	-30.00	143.18	141.48	1.69	84.532		
400.00	400.00	401.00	399.00	1.20	1.21	-12.09	140.00	-30.00	143.18	140.77	2.41	59.392		
500.00	500.00	501.00	499.00	1.56	1.57	-12.09	140.00	-30.00	143.18	140.05	3.13	45.778		
600.00	600.00	601.00	599.00	1.92	1.92	-12.09	140.00	-30.00	143.18	139.33	3.84	37.241		
700.00	700.00	701.00	699.00	2.28	2.28	-12.09	140.00	-30.00	143.18	138.62	4.56	31.388		
800.00	800.00	801.00	799.00	2.64	2.64	-12.09	140.00	-30.00	143.18	137.90	5.28	27.125		
900.00	900.00	901.00	899.00	3.00	3.00	-12.09	140.00	-30.00	143.18	137.18	6.00	23.881		
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	-12.09	140.00	-30.00	143.18	136.47	6.71	21.330		
1,100.00	1,099.98	1,101.02	1,098.98	3.71	3.72	38.36	140.00	-30.00	141.81	134.38	7.43	19.094		
1,200.00	1,199.86	1,201.14	1,198.86	4.07	4.08	39.61	140.00	-30.00	138.07	129.93	8.14	16.961		
1,300.00	1,299.73	1,301.27	1,298.73	4.42	4.43	41.04	140.00	-30.00	134.08	125.23	8.85	15.143		
1,400.00	1,399.59	1,401.41	1,398.59	4.78	4.79	42.55	140.00	-30.00	130.18	120.61	9.57	13.603		
1,500.00	1,499.45	1,498.45	1,498.45	5.14	5.14	44.15	140.00	-30.00	126.37	116.09	10.28	12.298		
1,600.00	1,599.31	1,597.97	1,597.95	5.49	5.49	45.07	140.00	-31.68	122.80	111.82	10.98	11.182		
1,700.00	1,699.18	1,702.49	1,697.36	5.85	5.85	44.39	140.00	-36.80	119.56	107.85	11.70	10.218		
1,800.00	1,799.04	1,802.59	1,797.01	6.21	6.20	42.77	140.00	-43.77	116.55	104.14	12.41	9.394		
1,900.00	1,898.90	1,902.69	1,896.67	6.58	6.55	41.07	140.00	-50.74	113.63	100.52	13.12	8.664		
2,000.00	1,998.77	2,002.79	1,996.32	6.94	6.90	39.29	140.00	-57.71	110.83	97.00	13.83	8.015		
2,100.00	2,098.63	2,097.11	2,095.98	7.30	7.23	37.41	140.00	-64.68	108.13	93.61	14.52	7.447		
2,200.00	2,198.49	2,202.99	2,195.64	7.66	7.61	35.44	140.00	-71.65	105.56	90.31	15.26	6.920		
2,300.00	2,298.36	2,296.91	2,295.29	8.02	7.95	33.37	140.00	-78.62	103.12	87.17	15.95	6.466		
2,400.00	2,398.22	2,403.19	2,394.95	8.38	8.33	31.21	140.00	-85.59	100.82	84.13	16.69	6.042		
2,500.00	2,498.08	2,503.29	2,494.60	8.75	8.69	28.95	140.00	-92.55	98.67	81.27	17.40	5.669		
2,600.00	2,597.87	2,603.47	2,594.18	9.11	9.05	5.70	140.00	-99.52	95.18	77.06	18.12	5.252		
2,700.00	2,697.43	2,703.89	2,693.52	9.48	9.41	-8.15	140.00	-106.46	88.92	70.08	18.84	4.720		
2,800.00	2,796.84	2,804.47	2,792.70	9.85	9.78	-13.53	140.00	-113.40	81.82	62.27	19.55	4.185		
2,900.00	2,896.26	2,905.04	2,891.89	10.21	10.14	-19.85	140.00	-120.33	75.58	55.32	20.26	3.731		
3,000.00	2,995.67	2,994.39	2,991.07	10.58	10.47	-27.20	140.00	-127.27	70.41	49.49	20.93	3.365		
3,100.00	3,095.08	3,094.93	3,091.35	10.96	10.83	-36.70	138.54	-134.33	65.82	44.18	21.64	3.042		
3,200.00	3,194.49	3,194.66	3,190.70	11.33	11.19	-50.17	133.62	-141.45	62.08	39.73	22.35	2.778		
3,254.66	3,248.84	3,248.69	3,244.44	11.53	11.38	-59.22	129.51	-145.36	61.37	38.63	22.74	2.699 CC, ES		
3,300.00	3,293.90	3,306.79	3,288.64	11.70	11.59	-67.35	125.38	-148.59	61.97	38.86	23.10	2.682 SF		
3,400.00	3,393.32	3,408.83	3,385.88	12.07	11.95	-84.16	115.90	-155.73	67.68	43.86	23.82	2.841		
3,500.00	3,492.73	3,489.14	3,483.12	12.45	12.24	-97.50	106.42	-162.86	78.29	53.83	24.46	3.200		
3,600.00	3,592.14	3,587.10	3,580.36	12.82	12.59	-107.33	96.94	-169.99	92.11	66.95	25.17	3.660		
3,700.00	3,691.55	3,686.02	3,678.57	13.20	12.95	-114.54	87.46	-177.12	107.81	81.92	25.90	4.163		
3,800.00	3,790.96	3,788.53	3,780.61	13.57	13.32	-119.98	79.72	-182.94	122.22	95.53	26.69	4.579		
3,900.00	3,890.38	3,892.05	3,883.96	13.95	13.68	-124.30	74.88	-186.59	133.88	106.41	27.46	4.875		
4,000.00	3,989.79	3,996.33	3,988.20	14.33	14.05	-128.04	73.02	-187.99	142.53	114.32	28.21	5.052		
4,100.00	4,089.20	4,103.67	4,088.20	14.71	14.42	-131.32	73.00	-188.00	149.50	120.53	28.96	5.162		
4,200.00	4,188.61	4,204.26	4,187.61	15.08	14.77	-134.28	73.00	-188.00	156.88	127.20	29.68	5.285		
4,300.00	4,288.02	4,304.85	4,287.02	15.46	15.11	-136.97	73.00	-188.00	164.64	134.24	30.40	5.415		
4,400.00	4,387.44	4,405.44	4,386.44	15.84	15.46	-139.42	73.00	-188.00	172.74	141.61	31.12	5.550		
4,500.00	4,486.85	4,506.03	4,485.85	16.22	15.81	-141.64	73.00	-188.00	181.12	149.28	31.84	5.688		
4,600.00	4,586.26	4,606.61	4,585.26	16.60	16.16	-143.67	73.00	-188.00	189.75	157.19	32.56	5.828		
4,700.00	4,685.67	4,707.20	4,684.67	16.98	16.51	-145.51	73.00	-188.00	198.59	165.32	33.28	5.968		
4,800.00	4,785.08	4,807.79	4,784.08	17.36	16.87	-147.20	73.00	-188.00	207.62	173.63	33.99	6.108		
4,900.00	4,884.50	4,908.38	4,883.50	17.74	17.22	-148.75	73.00	-188.00	216.82	182.11	34.71	6.247		
5,000.00	4,983.91	5,008.97	4,982.91	18.12	17.57	-150.17	73.00	-188.00	226.16	190.74	35.42	6.384		

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 #125H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#125H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #112H - OH - Prelim A														Offset Site Error: 0.00 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)	Separation Factor			
5,100.00	5,083.32	5,109.55	5,082.32	18.50	17.92	-151.48	73.00	-188.00	235.63	199.49	36.14	6.520			
5,200.00	5,182.73	5,189.86	5,181.73	18.88	18.20	-152.69	73.00	-188.00	245.21	208.43	36.79	6.666			
5,300.00	5,282.14	5,289.27	5,281.14	19.26	18.55	-153.80	73.00	-188.00	254.89	217.39	37.50	6.798			
5,400.00	5,381.56	5,388.68	5,380.56	19.64	18.90	-154.84	73.00	-188.00	264.66	226.45	38.21	6.927			
5,500.00	5,480.97	5,488.09	5,479.97	20.02	19.25	-155.80	73.00	-188.00	274.51	235.59	38.92	7.053			
5,600.00	5,580.38	5,587.51	5,579.38	20.40	19.60	-156.69	73.00	-188.00	284.43	244.80	39.63	7.176			
5,700.00	5,679.79	5,686.92	5,678.79	20.78	19.95	-157.52	73.00	-188.00	294.42	254.07	40.35	7.297			
5,800.00	5,779.34	5,786.47	5,778.34	21.16	20.30	-158.26	73.00	-188.00	303.15	262.09	41.06	7.383			
5,900.00	5,879.16	5,886.29	5,878.16	21.52	20.65	-158.71	73.00	-188.00	308.70	266.93	41.77	7.391			
6,000.00	5,979.12	5,986.25	5,978.12	21.88	21.00	-158.89	73.00	-188.00	311.01	268.53	42.48	7.322			
6,100.00	6,079.12	6,086.25	6,078.12	22.22	21.36	-178.71	73.00	-188.00	311.08	267.90	43.18	7.204			
6,200.00	6,179.12	6,186.25	6,178.12	22.57	21.71	-178.71	73.00	-188.00	311.08	267.19	43.89	7.088			
6,300.00	6,279.12	6,286.25	6,278.12	22.91	22.06	-178.71	73.00	-188.00	311.08	266.49	44.59	6.976			
6,305.73	6,284.85	6,291.98	6,283.85	22.93	22.08	-178.71	73.00	-188.00	311.08	266.45	44.63	6.970			
6,400.00	6,379.12	6,381.15	6,372.93	23.26	22.39	-179.22	72.49	-185.22	311.58	266.34	45.24	6.887			
6,500.00	6,479.12	6,470.17	6,460.47	23.60	22.67	177.96	69.66	-169.80	315.03	269.26	45.77	6.883			
6,600.00	6,579.12	6,552.58	6,538.45	23.95	22.92	173.35	64.89	-143.81	323.71	277.66	46.05	7.029			
6,700.00	6,679.12	6,626.13	6,604.22	24.30	23.14	167.94	58.97	-111.53	340.49	294.63	45.87	7.423			
6,800.00	6,779.12	6,690.16	6,657.65	24.64	23.33	162.56	52.61	-76.88	367.66	322.61	45.05	8.161			
6,900.00	6,879.12	6,745.10	6,700.12	24.99	23.50	157.72	46.32	-42.64	406.03	362.37	43.66	9.300			
7,000.00	6,979.12	6,791.95	6,733.56	25.34	23.67	153.59	40.40	-10.39	454.95	413.05	41.90	10.858			
7,100.00	7,079.12	6,831.86	6,759.86	25.69	23.82	150.17	34.98	19.14	512.99	472.96	40.04	12.813			
7,200.00	7,179.12	6,865.97	6,780.63	26.03	23.96	147.35	30.10	45.73	578.49	540.25	38.25	15.125			
7,300.00	7,278.92	6,900.00	6,799.72	26.38	24.11	80.36	25.02	73.44	649.72	612.92	36.80	17.656			
7,400.00	7,376.45	6,927.63	6,813.96	26.71	24.25	68.84	20.74	96.73	723.34	687.85	35.49	20.383			
7,500.00	7,468.78	6,950.00	6,824.64	27.03	24.37	58.93	17.20	116.06	796.37	761.98	34.39	23.157			
7,600.00	7,553.10	7,000.00	6,845.70	27.32	24.65	51.31	9.01	160.64	866.50	832.09	34.41	25.179			
7,700.00	7,626.93	7,020.04	6,853.02	27.61	24.78	45.00	5.64	179.00	931.97	897.96	34.01	27.407			
7,800.00	7,690.25	7,050.00	6,862.73	27.95	24.98	39.99	0.53	206.87	989.26	955.25	34.01	29.087			
7,900.00	7,742.08	7,085.59	6,872.32	28.39	25.23	36.75	-5.66	240.57	1,036.33	1,002.10	34.23	30.275			
8,000.00	7,780.85	7,120.71	6,879.68	28.94	25.50	34.73	-11.86	274.34	1,072.63	1,038.04	34.59	31.013			
8,100.00	7,805.36	7,150.00	6,884.20	29.59	25.74	33.61	-17.08	302.80	1,097.78	1,062.73	35.05	31.318			
8,200.00	7,814.89	7,200.00	6,888.49	30.35	26.17	33.53	-26.07	351.78	1,111.35	1,075.42	35.94	30.925			
8,300.00	7,815.00	7,249.55	6,889.00	31.20	26.63	33.90	-34.90	400.54	1,119.71	1,082.76	36.95	30.300			
8,400.00	7,815.00	7,376.80	6,889.00	32.20	27.99	34.71	-53.97	526.34	1,128.18	1,089.43	38.75	29.112			
8,500.00	7,815.00	7,505.51	6,889.00	33.32	29.59	35.27	-67.56	654.32	1,134.21	1,093.50	40.72	27.856			
8,600.00	7,815.00	7,635.19	6,889.00	34.56	31.41	35.59	-75.42	783.74	1,137.69	1,094.87	42.81	26.573			
8,700.00	7,815.00	7,760.08	6,889.00	35.91	33.29	35.67	-77.50	908.61	1,138.57	1,093.67	44.90	25.357			
8,800.00	7,815.00	7,860.08	6,889.00	37.35	34.91	35.67	-77.55	1,008.61	1,138.58	1,091.74	46.82	24.318			
8,900.00	7,815.00	7,960.08	6,889.00	38.87	36.59	35.66	-77.60	1,108.61	1,138.54	1,089.70	48.84	23.312			
9,000.00	7,815.00	8,060.08	6,889.00	40.47	38.34	35.66	-77.65	1,208.61	1,138.52	1,087.57	50.95	22.345			
9,100.00	7,815.00	8,160.08	6,889.00	42.13	40.14	35.66	-77.70	1,308.61	1,138.50	1,085.36	53.15	21.422			
9,200.00	7,815.00	8,260.08	6,889.00	43.86	41.99	35.66	-77.75	1,408.61	1,138.48	1,083.07	55.41	20.545			
9,300.00	7,815.00	8,360.08	6,889.00	45.63	43.89	35.66	-77.79	1,508.61	1,138.47	1,080.72	57.74	19.716			
9,400.00	7,815.00	8,460.08	6,889.00	47.45	45.83	35.66	-77.84	1,608.61	1,138.45	1,078.32	60.13	18.933			
9,500.00	7,815.00	8,560.08	6,889.00	49.31	47.79	35.66	-77.89	1,708.61	1,138.43	1,075.86	62.57	18.195			
9,600.00	7,815.00	8,660.08	6,889.00	51.21	49.79	35.66	-77.94	1,808.61	1,138.41	1,073.36	65.05	17.501			
9,700.00	7,815.00	8,760.08	6,889.00	53.14	51.81	35.65	-77.99	1,908.61	1,138.39	1,070.83	67.57	16.848			
9,800.00	7,815.00	8,860.08	6,889.00	55.10	53.86	35.65	-78.04	2,008.61	1,138.38	1,068.25	70.12	16.234			
9,900.00	7,815.00	8,960.08	6,889.00	57.08	55.93	35.65	-78.09	2,108.61	1,138.36	1,065.65	72.71	15.656			
10,000.00	7,815.00	9,060.08	6,889.00	59.09	58.01	35.65	-78.13	2,208.61	1,138.34	1,063.02	75.32	15.113			
10,100.00	7,815.00	9,160.08	6,889.00	61.12	60.11	35.65	-78.18	2,308.61	1,138.32	1,060.36	77.96	14.601			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #112H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
10,200.00	7,815.00	9,260.08	6,889.00	63.17	62.23	35.65	-78.23	2,408.61	1,138.30	1,057.68	80.63	14.118			
10,300.00	7,815.00	9,360.08	6,889.00	65.24	64.36	35.65	-78.28	2,508.61	1,138.28	1,054.97	83.31	13.663			
10,400.00	7,815.00	9,460.08	6,889.00	67.32	66.50	35.64	-78.33	2,608.61	1,138.27	1,052.25	86.01	13.234			
10,500.00	7,815.00	9,560.08	6,889.00	69.42	68.65	35.64	-78.38	2,708.61	1,138.25	1,049.52	88.73	12.828			
10,600.00	7,815.00	9,660.08	6,889.00	71.53	70.81	35.64	-78.43	2,808.61	1,138.23	1,046.76	91.47	12.444			
10,700.00	7,815.00	9,760.08	6,889.00	73.65	72.98	35.64	-78.47	2,908.61	1,138.21	1,044.00	94.21	12.081			
10,800.00	7,815.00	9,860.08	6,889.00	75.78	75.16	35.64	-78.52	3,008.61	1,138.19	1,041.22	96.98	11.737			
10,900.00	7,815.00	9,960.08	6,889.00	77.92	77.35	35.64	-78.57	3,108.61	1,138.18	1,038.43	99.75	11.410			
11,000.00	7,815.00	10,060.08	6,889.00	80.08	79.54	35.64	-78.62	3,208.61	1,138.16	1,035.63	102.53	11.100			
11,100.00	7,815.00	10,160.08	6,889.00	82.24	81.74	35.64	-78.67	3,308.61	1,138.14	1,032.81	105.33	10.806			
11,200.00	7,815.00	10,260.08	6,889.00	84.40	83.95	35.63	-78.72	3,408.61	1,138.12	1,029.99	108.13	10.526			
11,300.00	7,815.00	10,360.08	6,889.00	86.58	86.16	35.63	-78.77	3,508.61	1,138.10	1,027.16	110.94	10.259			
11,400.00	7,815.00	10,460.08	6,889.00	88.76	88.38	35.63	-78.81	3,608.61	1,138.09	1,024.33	113.76	10.004			
11,500.00	7,815.00	10,560.08	6,889.00	90.95	90.60	35.63	-78.86	3,708.61	1,138.07	1,021.48	116.59	9.762			
11,600.00	7,815.00	10,660.08	6,889.00	93.14	92.82	35.63	-78.91	3,808.61	1,138.05	1,018.63	119.42	9.530			
11,700.00	7,815.00	10,760.08	6,889.00	95.34	95.05	35.63	-78.96	3,908.61	1,138.03	1,015.77	122.26	9.308			
11,800.00	7,815.00	10,860.08	6,889.00	97.55	97.28	35.63	-79.01	4,008.61	1,138.01	1,012.91	125.10	9.097			
11,900.00	7,815.00	10,960.08	6,889.00	99.76	99.52	35.63	-79.06	4,108.61	1,138.00	1,010.04	127.95	8.894			
12,000.00	7,815.00	11,060.08	6,889.00	101.97	101.76	35.62	-79.11	4,208.61	1,137.98	1,007.17	130.81	8.699			
12,100.00	7,815.00	11,160.08	6,889.00	104.19	104.00	35.62	-79.15	4,308.61	1,137.96	1,004.29	133.67	8.513			
12,200.00	7,815.00	11,260.08	6,889.00	106.41	106.25	35.62	-79.20	4,408.61	1,137.94	1,001.41	136.54	8.334			
12,300.00	7,815.00	11,360.08	6,889.00	108.64	108.50	35.62	-79.25	4,508.61	1,137.92	998.52	139.40	8.163			
12,400.00	7,815.00	11,460.08	6,889.00	110.87	110.75	35.62	-79.30	4,608.61	1,137.90	995.63	142.28	7.998			
12,500.00	7,815.00	11,560.08	6,889.00	113.10	113.00	35.62	-79.35	4,708.61	1,137.89	992.73	145.15	7.839			
12,600.00	7,815.00	11,660.08	6,889.00	115.33	115.25	35.62	-79.40	4,808.61	1,137.87	989.84	148.03	7.687			
12,700.00	7,815.00	11,760.08	6,889.00	117.57	117.51	35.62	-79.45	4,908.61	1,137.85	986.93	150.92	7.540			
12,800.00	7,815.00	11,860.08	6,889.00	119.81	119.77	35.61	-79.50	5,008.61	1,137.83	984.03	153.80	7.398			
12,900.00	7,815.00	11,960.08	6,889.00	122.05	122.03	35.61	-79.54	5,108.61	1,137.81	981.12	156.69	7.261			
13,000.00	7,815.00	12,060.08	6,889.00	124.30	124.29	35.61	-79.59	5,208.61	1,137.80	978.21	159.58	7.130			
13,100.00	7,815.00	12,160.08	6,889.00	126.55	126.56	35.61	-79.64	5,308.61	1,137.78	975.30	162.48	7.003			
13,200.00	7,815.00	12,260.08	6,889.00	128.80	128.82	35.61	-79.69	5,408.61	1,137.76	972.39	165.37	6.880			
13,300.00	7,815.00	12,360.08	6,889.00	131.05	131.09	35.61	-79.74	5,508.61	1,137.74	969.47	168.27	6.761			
13,400.00	7,815.00	12,460.08	6,889.00	133.30	133.36	35.61	-79.79	5,608.61	1,137.72	966.55	171.17	6.647			
13,500.00	7,815.00	12,560.08	6,889.00	135.56	135.63	35.61	-79.84	5,708.61	1,137.71	963.63	174.08	6.536			
13,600.00	7,815.00	12,660.08	6,889.00	137.82	137.90	35.60	-79.88	5,808.61	1,137.69	960.71	176.98	6.428			
13,700.00	7,815.00	12,760.08	6,889.00	140.08	140.17	35.60	-79.93	5,908.61	1,137.67	957.78	179.89	6.324			
13,800.00	7,815.00	12,860.08	6,889.00	142.34	142.45	35.60	-79.98	6,008.61	1,137.65	954.86	182.80	6.224			
13,900.00	7,815.00	12,960.08	6,889.00	144.60	144.72	35.60	-80.03	6,108.61	1,137.63	951.93	185.71	6.126			
14,000.00	7,815.00	13,060.08	6,889.00	146.86	147.00	35.60	-80.08	6,208.61	1,137.62	949.00	188.62	6.031			
14,100.00	7,815.00	13,160.08	6,889.00	149.13	149.28	35.60	-80.13	6,308.61	1,137.60	946.07	191.53	5.940			
14,200.00	7,815.00	13,260.08	6,889.00	151.40	151.55	35.60	-80.18	6,408.61	1,137.58	943.13	194.45	5.850			
14,300.00	7,815.00	13,360.08	6,889.00	153.66	153.83	35.60	-80.22	6,508.61	1,137.56	940.20	197.36	5.764			
14,400.00	7,815.00	13,460.08	6,889.00	155.93	156.11	35.59	-80.27	6,608.61	1,137.54	937.27	200.28	5.680			
14,500.00	7,815.00	13,560.08	6,889.00	158.20	158.39	35.59	-80.32	6,708.61	1,137.53	934.33	203.20	5.598			
14,600.00	7,815.00	13,660.08	6,889.00	160.47	160.67	35.59	-80.37	6,808.61	1,137.51	931.39	206.12	5.519			
14,700.00	7,815.00	13,760.08	6,889.00	162.75	162.96	35.59	-80.42	6,908.61	1,137.49	928.45	209.04	5.442			
14,800.00	7,815.00	13,860.08	6,889.00	165.02	165.24	35.59	-80.47	7,008.61	1,137.47	925.51	211.96	5.366			
14,900.00	7,815.00	13,960.08	6,889.00	167.29	167.52	35.59	-80.52	7,108.61	1,137.45	922.57	214.88	5.293			
15,000.00	7,815.00	14,060.08	6,889.00	169.57	169.81	35.59	-80.56	7,208.61	1,137.43	919.63	217.80	5.222			
15,100.00	7,815.00	14,160.08	6,889.00	171.84	172.09	35.59	-80.61	7,308.61	1,137.42	916.69	220.73	5.153			
15,200.00	7,815.00	14,260.08	6,889.00	174.12	174.38	35.58	-80.66	7,408.61	1,137.40	913.74	223.65	5.086			
15,300.00	7,815.00	14,360.08	6,889.00	176.40	176.66	35.58	-80.71	7,508.61	1,137.38	910.80	226.58	5.020			

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 #125H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#125H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #125H - OH - Prelim A													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N-S (usft)	+E-W (usft)						
15,400.00	7,815.00	14,460.08	6,889.00	178.68	178.95	35.58	-80.76	7,608.61	1,137.36	907.86	229.51	4.956		
15,500.00	7,815.00	14,560.08	6,889.00	180.96	181.24	35.58	-80.81	7,708.61	1,137.34	904.91	232.43	4.893		
15,600.00	7,815.00	14,660.08	6,889.00	183.24	183.53	35.58	-80.86	7,808.61	1,137.33	901.96	235.36	4.832		
15,700.00	7,815.00	14,760.08	6,889.00	185.52	185.81	35.58	-80.90	7,908.61	1,137.31	899.02	238.29	4.773		
15,800.00	7,815.00	14,860.08	6,889.00	187.80	188.10	35.58	-80.95	8,008.61	1,137.29	896.07	241.22	4.715		
15,900.00	7,815.00	14,960.08	6,889.00	190.08	190.39	35.58	-81.00	8,108.61	1,137.27	893.12	244.15	4.658		
16,000.00	7,815.00	15,060.08	6,889.00	192.36	192.68	35.57	-81.05	8,208.61	1,137.25	890.17	247.08	4.603		
16,100.00	7,815.00	15,160.08	6,889.00	194.65	194.97	35.57	-81.10	8,308.61	1,137.24	887.22	250.02	4.549		
16,200.00	7,815.00	15,260.08	6,889.00	196.93	197.26	35.57	-81.15	8,408.61	1,137.22	884.27	252.95	4.496		
16,300.00	7,815.00	15,360.08	6,889.00	199.21	199.55	35.57	-81.20	8,508.61	1,137.20	881.32	255.88	4.444		
16,400.00	7,815.00	15,460.08	6,889.00	201.50	201.85	35.57	-81.24	8,608.61	1,137.18	878.37	258.81	4.394		
16,500.00	7,815.00	15,560.08	6,889.00	203.79	204.14	35.57	-81.29	8,708.61	1,137.16	875.42	261.75	4.345		
16,600.00	7,815.00	15,660.08	6,889.00	206.07	206.43	35.57	-81.34	8,808.61	1,137.15	872.46	264.68	4.296		
16,700.00	7,815.00	15,760.08	6,889.00	208.36	208.72	35.57	-81.39	8,908.61	1,137.13	869.51	267.62	4.249		
16,800.00	7,815.00	15,860.08	6,889.00	210.65	211.01	35.56	-81.44	9,008.61	1,137.11	866.56	270.55	4.203		
16,900.00	7,815.00	15,960.08	6,889.00	212.93	213.31	35.56	-81.49	9,108.61	1,137.09	863.61	273.49	4.158		
17,000.00	7,815.00	16,060.08	6,889.00	215.22	215.60	35.56	-81.54	9,208.61	1,137.07	860.65	276.42	4.114		
17,100.00	7,815.00	16,160.08	6,889.00	217.51	217.90	35.56	-81.59	9,308.61	1,137.06	857.70	279.36	4.070		
17,200.00	7,815.00	16,260.08	6,889.00	219.80	220.19	35.56	-81.63	9,408.61	1,137.04	854.74	282.30	4.028		
17,300.00	7,815.00	16,360.08	6,889.00	222.09	222.48	35.56	-81.68	9,508.61	1,137.02	851.79	285.23	3.986		
17,400.00	7,815.00	16,460.08	6,889.00	224.38	224.78	35.56	-81.73	9,608.61	1,137.00	848.83	288.17	3.946		
17,500.00	7,815.00	16,560.08	6,889.00	226.67	227.07	35.56	-81.78	9,708.61	1,136.98	845.88	291.11	3.906		
17,600.00	7,815.00	16,660.08	6,889.00	228.96	229.37	35.55	-81.83	9,808.61	1,136.97	842.92	294.05	3.867		
17,700.00	7,815.00	16,760.08	6,889.00	231.25	231.67	35.55	-81.88	9,908.61	1,136.95	839.96	296.98	3.828		
17,800.00	7,815.00	16,860.08	6,889.00	233.54	233.96	35.55	-81.93	10,008.61	1,136.93	837.01	299.92	3.791		
17,900.00	7,815.00	16,960.08	6,889.00	235.83	236.26	35.55	-81.97	10,108.61	1,136.91	834.05	302.86	3.754		
17,952.07	7,815.00	17,012.15	6,889.00	237.02	237.35	35.55	-82.00	10,160.68	1,136.90	832.58	304.32	3.736		

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #115H - OH - Prelim A														Offset Site Error: 0.00 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		
0.00	0.00	1.00	1.00	0.00	0.00	-15.26	110.00	-30.00	114.02					
100.00	100.00	101.00	101.00	0.13	0.13	-15.26	110.00	-30.00	114.02	113.76	0.26	438.711		
200.00	200.00	201.00	201.00	0.49	0.49	-15.26	110.00	-30.00	114.02	113.04	0.98	116.721		
300.00	300.00	301.00	301.00	0.85	0.85	-15.26	110.00	-30.00	114.02	112.32	1.69	67.316		
400.00	400.00	401.00	401.00	1.20	1.21	-15.26	110.00	-30.00	114.02	111.61	2.41	47.296		
500.00	500.00	501.00	501.00	1.56	1.57	-15.26	110.00	-30.00	114.02	110.89	3.13	36.455		
600.00	600.00	601.00	601.00	1.92	1.92	-15.26	110.00	-30.00	114.02	110.17	3.84	29.656		
700.00	700.00	701.00	701.00	2.28	2.28	-15.26	110.00	-30.00	114.02	109.46	4.56	24.995		
800.00	800.00	801.00	801.00	2.64	2.64	-15.26	110.00	-30.00	114.02	108.74	5.28	21.600		
900.00	900.00	901.00	901.00	3.00	3.00	-15.26	110.00	-30.00	114.02	108.02	6.00	19.017		
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-15.26	110.00	-30.00	114.02	107.31	6.71	16.986		
1,100.00	1,099.98	1,100.98	1,100.98	3.71	3.72	35.27	110.00	-30.00	112.59	105.16	7.43	15.160		
1,200.00	1,199.86	1,200.86	1,200.86	4.07	4.07	36.75	110.00	-30.00	108.71	100.57	8.14	13.355		
1,300.00	1,299.73	1,300.73	1,300.73	4.42	4.43	38.46	110.00	-30.00	104.56	95.70	8.85	11.811		
1,400.00	1,399.59	1,400.59	1,400.59	4.78	4.79	40.32	110.00	-30.00	100.51	90.94	9.57	10.506		
1,500.00	1,499.45	1,500.45	1,500.45	5.14	5.15	42.33	110.00	-30.00	96.58	86.29	10.28	9.393		
1,600.00	1,599.31	1,600.31	1,600.31	5.49	5.51	44.50	110.00	-30.00	92.77	81.77	11.00	8.435		
1,700.00	1,699.18	1,700.18	1,700.18	5.85	5.86	46.86	110.00	-30.00	89.11	77.40	11.72	7.606		
1,800.00	1,799.04	1,800.04	1,800.04	6.21	6.22	49.41	110.00	-30.00	85.61	73.18	12.43	6.886		
1,900.00	1,898.90	1,900.10	1,899.90	6.58	6.58	52.18	110.00	-30.00	82.30	69.15	13.15	6.257		
2,000.00	1,998.77	1,999.77	1,999.77	6.94	6.94	55.17	110.00	-30.00	79.20	65.33	13.87	5.709		
2,094.95	2,093.58	2,092.42	2,092.40	7.28	7.27	57.60	111.38	-30.56	77.79	63.25	14.54	5.348 CC		
2,100.00	2,098.63	2,097.35	2,097.33	7.30	7.29	57.70	111.53	-30.62	77.79	63.21	14.58	5.336		
2,200.00	2,198.49	2,195.01	2,194.86	7.66	7.64	59.04	116.15	-32.48	79.45	64.17	15.28	5.201		
2,300.00	2,298.36	2,292.53	2,292.02	8.02	7.99	59.11	123.84	-35.59	84.05	68.08	15.96	5.265		
2,400.00	2,398.22	2,407.72	2,391.25	8.38	8.40	58.58	133.34	-39.42	90.17	73.43	16.74	5.388		
2,500.00	2,498.08	2,507.91	2,490.53	8.75	8.76	58.12	142.85	-43.26	96.30	78.84	17.46	5.516		
2,600.00	2,597.87	2,608.01	2,589.89	9.11	9.12	37.37	152.37	-47.10	100.76	82.58	18.18	5.543		
2,700.00	2,697.43	2,708.03	2,689.35	9.48	9.49	27.55	161.89	-50.95	101.76	82.85	18.90	5.383		
2,800.00	2,796.84	2,808.03	2,788.82	9.85	9.85	27.51	171.42	-54.80	101.07	81.44	19.63	5.149		
2,900.00	2,896.26	2,908.03	2,888.29	10.21	10.22	27.46	180.95	-58.64	100.39	80.04	20.36	4.932		
3,000.00	2,995.67	3,008.03	2,987.76	10.58	10.58	27.41	190.47	-62.49	99.71	78.63	21.09	4.729		
3,100.00	3,095.08	3,108.03	3,087.23	10.96	10.95	27.36	200.00	-66.34	99.03	77.22	21.81	4.540		
3,200.00	3,194.49	3,208.04	3,186.70	11.33	11.32	27.31	209.53	-70.18	98.35	75.81	22.54	4.363		
3,300.00	3,293.90	3,308.04	3,286.16	11.70	11.69	27.26	219.05	-74.03	97.67	74.40	23.27	4.196		
3,400.00	3,393.32	3,408.04	3,385.63	12.07	12.06	27.21	228.58	-77.88	96.99	72.98	24.01	4.040		
3,500.00	3,492.73	3,508.04	3,485.10	12.45	12.44	27.15	238.11	-81.72	96.31	71.57	24.74	3.893		
3,600.00	3,592.14	3,591.95	3,584.57	12.82	12.75	27.10	247.63	-85.57	95.63	70.22	25.41	3.763		
3,700.00	3,691.55	3,708.05	3,684.04	13.20	13.18	27.05	257.16	-89.41	94.95	68.75	26.20	3.624		
3,800.00	3,790.96	3,808.05	3,783.51	13.57	13.55	26.99	266.69	-93.26	94.27	67.33	26.94	3.500		
3,900.00	3,890.38	3,908.05	3,882.97	13.95	13.93	26.94	276.21	-97.11	93.59	65.92	27.67	3.382		
4,000.00	3,989.79	4,008.06	3,982.44	14.33	14.30	26.88	285.74	-100.95	92.91	64.50	28.40	3.271		
4,100.00	4,089.20	4,091.94	4,081.91	14.71	14.62	26.82	295.27	-104.80	92.23	63.15	29.08	3.172		
4,200.00	4,188.61	4,208.06	4,181.38	15.08	15.05	26.76	304.79	-108.65	91.55	61.68	29.87	3.065		
4,300.00	4,288.02	4,308.06	4,280.85	15.46	15.43	26.71	314.32	-112.49	90.87	60.26	30.61	2.969		
4,400.00	4,387.44	4,408.07	4,380.32	15.84	15.80	26.65	323.85	-116.34	90.19	58.85	31.34	2.878		
4,500.00	4,486.85	4,491.93	4,479.79	16.22	16.12	26.58	333.37	-120.19	89.51	57.49	32.02	2.796		
4,600.00	4,586.26	4,608.07	4,579.25	16.60	16.56	26.52	342.90	-124.03	88.83	56.02	32.81	2.707		
4,700.00	4,685.67	4,708.07	4,678.72	16.98	16.93	26.46	352.43	-127.88	88.15	54.60	33.55	2.628		
4,800.00	4,785.08	4,808.07	4,778.19	17.36	17.31	26.40	361.96	-131.73	87.47	53.19	34.28	2.551		
4,900.00	4,884.50	4,908.08	4,877.66	17.74	17.69	26.33	371.48	-135.57	86.79	51.77	35.02	2.478		
5,000.00	4,983.91	4,991.92	4,977.13	18.12	18.00	26.27	381.01	-139.42	86.11	50.42	35.70	2.412		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #115H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
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
5,100.00	5,083.32	5,108.08	5,076.60	18.50	18.44	26.20	390.54	-143.26	85.43	48.94	36.49	2.341	
5,200.00	5,182.73	5,208.08	5,176.06	18.88	18.82	26.13	400.06	-147.11	84.75	47.53	37.23	2.277	
5,300.00	5,282.14	5,308.09	5,275.53	19.26	19.20	26.06	409.59	-150.96	84.07	46.11	37.96	2.215	
5,400.00	5,381.56	5,408.09	5,375.00	19.64	19.57	25.99	419.12	-154.80	83.40	44.70	38.70	2.155	
5,500.00	5,480.97	5,508.09	5,474.47	20.02	19.95	25.92	428.64	-158.65	82.72	43.28	39.44	2.097	
5,600.00	5,580.38	5,608.09	5,573.94	20.40	20.33	25.85	438.17	-162.50	82.04	41.87	40.17	2.042	
5,700.00	5,679.79	5,691.90	5,673.41	20.78	20.65	25.78	447.70	-166.34	81.36	40.51	40.85	1.992	
5,723.97	5,703.63	5,715.88	5,697.25	20.87	20.74	25.73	449.98	-167.26	81.28	40.25	41.03	1.981 ES	
5,800.00	5,779.34	5,791.90	5,772.87	21.16	21.03	25.28	457.22	-170.19	81.96	40.38	41.58	1.971 SF	
5,900.00	5,879.16	5,891.80	5,872.24	21.52	21.41	23.84	466.74	-174.03	85.72	43.44	42.29	2.027	
6,000.00	5,979.12	5,993.49	5,973.47	21.88	21.79	21.88	475.68	-177.64	92.05	49.05	43.00	2.141	
6,100.00	6,079.12	6,096.44	6,076.23	22.22	22.16	0.59	481.52	-180.00	97.60	53.90	43.70	2.233	
6,200.00	6,179.12	6,199.71	6,179.46	22.57	22.53	0.02	483.93	-180.97	99.93	55.57	44.37	2.252	
6,300.00	6,279.12	6,300.38	6,280.12	22.91	22.88	0.01	484.00	-181.00	100.00	54.94	45.06	2.219	
6,301.32	6,280.45	6,301.70	6,281.45	22.92	22.89	0.01	484.00	-181.00	100.00	54.93	45.07	2.219	
6,400.00	6,379.12	6,398.70	6,378.32	23.26	23.21	1.92	484.44	-177.63	100.52	54.71	45.81	2.194	
6,500.00	6,479.12	6,492.72	6,470.53	23.60	23.50	11.57	486.77	-159.96	105.34	58.75	46.59	2.261	
6,600.00	6,579.12	6,578.88	6,551.44	23.95	23.75	25.20	490.60	-130.84	121.26	74.58	46.67	2.598	
6,700.00	6,679.12	6,654.82	6,618.41	24.30	23.95	37.55	495.26	-95.46	153.32	108.01	45.31	3.384	
6,800.00	6,779.12	6,720.06	6,671.75	24.64	24.10	46.58	500.16	-58.27	200.75	157.71	43.04	4.664	
6,900.00	6,879.12	6,775.37	6,713.39	24.99	24.21	52.71	504.91	-22.20	260.07	219.42	40.64	6.399	
7,000.00	6,979.12	6,822.03	6,745.65	25.34	24.29	56.90	509.30	11.20	328.05	289.59	38.46	8.529	
7,100.00	7,079.12	6,861.43	6,770.68	25.69	24.39	59.83	513.27	41.35	402.38	365.77	36.61	10.991	
7,200.00	7,179.12	6,900.00	6,793.11	26.03	24.56	62.25	517.37	72.46	481.47	446.12	35.34	13.623	
7,300.00	7,278.92	6,925.19	6,806.59	26.38	24.69	5.64	520.14	93.55	561.30	527.64	33.66	16.676	
7,400.00	7,376.45	6,950.00	6,818.95	26.71	24.82	5.65	522.95	114.88	634.40	602.56	31.84	19.924	
7,500.00	7,468.78	7,000.00	6,840.96	27.03	25.10	6.56	528.81	159.37	699.64	668.65	30.99	22.577	
7,600.00	7,553.10	7,024.53	6,850.31	27.32	25.26	6.57	531.77	181.85	756.30	727.22	29.08	26.008	
7,700.00	7,626.93	7,050.00	6,858.98	27.61	25.42	5.99	534.90	205.59	804.51	777.16	27.36	29.409	
7,800.00	7,690.25	7,100.00	6,872.86	27.95	25.78	4.41	541.16	253.20	845.10	818.57	26.53	31.849	
7,900.00	7,742.08	7,132.19	6,879.57	28.39	26.03	3.17	545.27	284.41	878.27	852.83	25.43	34.531	
8,000.00	7,780.85	7,169.91	6,885.16	28.94	26.33	2.43	550.14	321.39	903.31	878.53	24.78	36.458	
8,100.00	7,805.36	7,200.00	6,887.85	29.59	26.59	1.97	554.05	351.10	919.86	895.43	24.43	37.652	
8,200.00	7,814.89	7,261.41	6,889.00	30.35	27.15	1.53	561.95	411.97	927.22	902.50	24.72	37.505	
8,300.00	7,815.00	7,360.18	6,889.00	31.20	28.16	0.89	572.30	510.20	927.12	901.77	25.35	36.571	
8,400.00	7,815.00	7,459.56	6,889.00	32.20	29.31	0.45	579.28	609.32	927.04	900.98	26.05	35.584	
8,500.00	7,815.00	7,559.30	6,889.00	33.32	30.59	0.23	582.82	709.00	927.01	900.20	26.81	34.579	
8,600.00	7,815.00	7,659.24	6,889.00	34.56	31.97	0.20	583.27	808.93	927.01	899.40	27.61	33.575	
8,622.54	7,815.00	7,681.78	6,889.00	34.87	32.29	0.20	583.26	831.47	927.01	899.21	27.80	33.344	
8,700.00	7,815.00	7,759.24	6,889.00	35.91	33.46	0.19	583.23	908.93	927.01	898.54	28.47	32.556	
8,800.00	7,815.00	7,859.24	6,889.00	37.35	35.03	0.19	583.18	1,008.93	927.01	897.62	29.40	31.536	
8,900.00	7,815.00	7,959.24	6,889.00	38.87	36.68	0.19	583.14	1,108.93	927.01	896.64	30.37	30.524	
9,000.00	7,815.00	8,059.24	6,889.00	40.47	38.40	0.19	583.09	1,208.93	927.01	895.62	31.39	29.530	
9,100.00	7,815.00	8,159.24	6,889.00	42.13	40.18	0.19	583.04	1,308.93	927.01	894.55	32.46	28.559	
9,200.00	7,815.00	8,259.24	6,889.00	43.86	42.01	0.18	583.00	1,408.93	927.01	893.45	33.56	27.618	
9,300.00	7,815.00	8,359.24	6,889.00	45.63	43.88	0.18	582.95	1,508.93	927.01	892.30	34.71	26.710	
9,400.00	7,815.00	8,459.24	6,889.00	47.45	45.79	0.18	582.91	1,608.93	927.01	891.13	35.88	25.836	
9,500.00	7,815.00	8,559.24	6,889.00	49.31	47.74	0.18	582.86	1,708.93	927.01	889.93	37.08	24.998	
9,600.00	7,815.00	8,659.24	6,889.00	51.21	49.72	0.17	582.82	1,808.93	927.01	888.70	38.31	24.196	
9,700.00	7,815.00	8,759.24	6,889.00	53.14	51.73	0.17	582.77	1,908.93	927.01	887.44	39.57	23.429	
9,800.00	7,815.00	8,859.24	6,889.00	55.10	53.76	0.17	582.72	2,008.93	927.01	886.17	40.84	22.698	
9,900.00	7,815.00	8,959.24	6,889.00	57.08	55.81	0.17	582.68	2,108.93	927.01	884.87	42.14	22.000	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design - Leatherneck 3029 Fed Com - #115H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)							
10,000.00	7,815.00	9,059.24	6,889.00	59.09	57.88	0.17	582.63	2,208.93	927.01	883.56	43.45	21.335			
10,100.00	7,815.00	9,159.24	6,889.00	61.12	59.97	0.16	582.59	2,308.93	927.01	882.23	44.78	20.702			
10,200.00	7,815.00	9,259.24	6,889.00	63.17	62.08	0.16	582.54	2,408.93	927.01	880.89	46.12	20.098			
10,300.00	7,815.00	9,359.24	6,889.00	65.24	64.20	0.16	582.50	2,508.93	927.01	879.53	47.48	19.523			
10,400.00	7,815.00	9,459.24	6,889.00	67.32	66.33	0.16	582.45	2,608.93	927.01	878.16	48.85	18.976			
10,500.00	7,815.00	9,559.24	6,889.00	69.42	68.47	0.16	582.40	2,708.93	927.01	876.77	50.24	18.453			
10,600.00	7,815.00	9,659.24	6,889.00	71.53	70.62	0.15	582.36	2,808.93	927.01	875.38	51.63	17.955			
10,700.00	7,815.00	9,759.24	6,889.00	73.65	72.79	0.15	582.31	2,908.93	927.01	873.98	53.03	17.480			
10,800.00	7,815.00	9,859.24	6,889.00	75.78	74.96	0.15	582.27	3,008.93	927.01	872.56	54.44	17.027			
10,900.00	7,815.00	9,959.24	6,889.00	77.92	77.14	0.15	582.22	3,108.93	927.01	871.14	55.86	16.594			
11,000.00	7,815.00	10,059.24	6,889.00	80.08	79.32	0.15	582.18	3,208.93	927.01	869.71	57.29	16.180			
11,100.00	7,815.00	10,159.24	6,889.00	82.24	81.52	0.14	582.13	3,308.93	927.01	868.28	58.73	15.785			
11,200.00	7,815.00	10,259.24	6,889.00	84.40	83.72	0.14	582.09	3,408.93	927.01	866.84	60.17	15.406			
11,300.00	7,815.00	10,359.24	6,889.00	86.58	85.92	0.14	582.04	3,508.93	927.01	865.39	61.62	15.044			
11,400.00	7,815.00	10,459.24	6,889.00	88.76	88.13	0.14	581.99	3,608.93	927.01	863.93	63.07	14.697			
11,500.00	7,815.00	10,559.24	6,889.00	90.95	90.35	0.14	581.95	3,708.93	927.01	862.47	64.53	14.365			
11,600.00	7,815.00	10,659.24	6,889.00	93.14	92.57	0.13	581.90	3,808.93	927.01	861.01	66.00	14.046			
11,700.00	7,815.00	10,759.24	6,889.00	95.34	94.79	0.13	581.86	3,908.93	927.01	859.54	67.47	13.740			
11,800.00	7,815.00	10,859.24	6,889.00	97.55	97.02	0.13	581.81	4,008.93	927.01	858.07	68.94	13.446			
11,900.00	7,815.00	10,959.24	6,889.00	99.76	99.25	0.13	581.77	4,108.93	927.01	856.59	70.42	13.164			
12,000.00	7,815.00	11,059.24	6,889.00	101.97	101.49	0.12	581.72	4,208.93	927.01	855.11	71.90	12.893			
12,100.00	7,815.00	11,159.24	6,889.00	104.19	103.73	0.12	581.67	4,308.93	927.01	853.62	73.39	12.632			
12,200.00	7,815.00	11,259.24	6,889.00	106.41	105.97	0.12	581.63	4,408.93	927.01	852.13	74.87	12.381			
12,300.00	7,815.00	11,359.24	6,889.00	108.64	108.21	0.12	581.58	4,508.93	927.01	850.64	76.37	12.139			
12,400.00	7,815.00	11,459.24	6,889.00	110.87	110.46	0.12	581.54	4,608.93	927.01	849.14	77.86	11.906			
12,500.00	7,815.00	11,559.24	6,889.00	113.10	112.71	0.11	581.49	4,708.93	927.01	847.65	79.36	11.681			
12,600.00	7,815.00	11,659.24	6,889.00	115.33	114.96	0.11	581.45	4,808.93	927.01	846.14	80.86	11.464			
12,700.00	7,815.00	11,759.24	6,889.00	117.57	117.22	0.11	581.40	4,908.93	927.01	844.64	82.36	11.255			
12,800.00	7,815.00	11,859.24	6,889.00	119.81	119.47	0.11	581.35	5,008.93	927.01	843.14	83.87	11.053			
12,900.00	7,815.00	11,959.24	6,889.00	122.05	121.73	0.11	581.31	5,108.93	927.00	841.63	85.38	10.858			
13,000.00	7,815.00	12,059.24	6,889.00	124.30	123.99	0.10	581.26	5,208.93	927.00	840.12	86.89	10.669			
13,100.00	7,815.00	12,159.24	6,889.00	126.55	126.25	0.10	581.22	5,308.93	927.00	838.60	88.40	10.486			
13,200.00	7,815.00	12,259.24	6,889.00	128.80	128.52	0.10	581.17	5,408.93	927.00	837.09	89.91	10.310			
13,300.00	7,815.00	12,359.24	6,889.00	131.05	130.78	0.10	581.13	5,508.93	927.00	835.57	91.43	10.139			
13,400.00	7,815.00	12,459.24	6,889.00	133.30	133.05	0.10	581.08	5,608.93	927.00	834.06	92.95	9.973			
13,500.00	7,815.00	12,559.24	6,889.00	135.56	135.31	0.09	581.03	5,708.93	927.00	832.54	94.47	9.813			
13,600.00	7,815.00	12,659.24	6,889.00	137.82	137.58	0.09	580.99	5,808.93	927.00	831.01	95.99	9.657			
13,700.00	7,815.00	12,759.24	6,889.00	140.08	139.85	0.09	580.94	5,908.93	927.00	829.49	97.51	9.506			
13,800.00	7,815.00	12,859.24	6,889.00	142.34	142.13	0.09	580.90	6,008.93	927.00	827.97	99.04	9.360			
13,900.00	7,815.00	12,959.24	6,889.00	144.60	144.40	0.08	580.85	6,108.93	927.00	826.44	100.56	9.218			
14,000.00	7,815.00	13,059.24	6,889.00	146.86	146.67	0.08	580.81	6,208.93	927.00	824.91	102.09	9.080			
14,100.00	7,815.00	13,159.24	6,889.00	149.13	148.95	0.08	580.76	6,308.93	927.00	823.39	103.62	8.946			
14,200.00	7,815.00	13,259.24	6,889.00	151.40	151.22	0.08	580.71	6,408.93	927.00	821.86	105.15	8.816			
14,300.00	7,815.00	13,359.24	6,889.00	153.66	153.50	0.08	580.67	6,508.93	927.00	820.33	106.68	8.690			
14,400.00	7,815.00	13,459.24	6,889.00	155.93	155.78	0.07	580.62	6,608.93	927.00	818.79	108.21	8.567			
14,500.00	7,815.00	13,559.24	6,889.00	158.20	158.06	0.07	580.58	6,708.93	927.00	817.26	109.74	8.447			
14,600.00	7,815.00	13,659.24	6,889.00	160.47	160.34	0.07	580.53	6,808.93	927.00	815.73	111.28	8.331			
14,700.00	7,815.00	13,759.24	6,889.00	162.75	162.62	0.07	580.49	6,908.93	927.00	814.19	112.81	8.217			
14,800.00	7,815.00	13,859.24	6,889.00	165.02	164.90	0.07	580.44	7,008.93	927.00	812.66	114.35	8.107			
14,900.00	7,815.00	13,959.24	6,889.00	167.29	167.18	0.06	580.39	7,108.93	927.00	811.12	115.88	7.999			
15,000.00	7,815.00	14,059.24	6,889.00	169.57	169.47	0.06	580.35	7,208.93	927.00	809.58	117.42	7.895			
15,100.00	7,815.00	14,159.24	6,889.00	171.84	171.75	0.06	580.30	7,308.93	927.00	808.04	118.96	7.793			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #115H - OH - Prelim A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
15,200.00	7,815.00	14,259.24	6,889.00	174.12	174.03	0.06	580.26	7,408.93	927.00	806.50	120.50	7.693	
15,300.00	7,815.00	14,359.24	6,889.00	176.40	176.32	0.06	580.21	7,508.93	927.00	804.96	122.04	7.596	
15,400.00	7,815.00	14,459.24	6,889.00	178.68	178.60	0.05	580.17	7,608.93	927.00	803.42	123.58	7.501	
15,500.00	7,815.00	14,559.24	6,889.00	180.96	180.89	0.05	580.12	7,708.93	927.00	801.88	125.12	7.409	
15,600.00	7,815.00	14,659.24	6,889.00	183.24	183.18	0.05	580.07	7,808.93	927.00	800.34	126.66	7.319	
15,700.00	7,815.00	14,759.24	6,889.00	185.52	185.46	0.05	580.03	7,908.93	927.00	798.79	128.21	7.230	
15,800.00	7,815.00	14,859.24	6,889.00	187.80	187.75	0.05	579.98	8,008.93	927.00	797.25	129.75	7.144	
15,900.00	7,815.00	14,959.24	6,889.00	190.08	190.04	0.04	579.94	8,108.93	927.00	795.71	131.30	7.060	
16,000.00	7,815.00	15,059.24	6,889.00	192.36	192.33	0.04	579.89	8,208.93	927.00	794.16	132.84	6.978	
16,100.00	7,815.00	15,159.24	6,889.00	194.65	194.62	0.04	579.85	8,308.93	927.00	792.62	134.39	6.898	
16,200.00	7,815.00	15,259.24	6,889.00	196.93	196.91	0.04	579.80	8,408.93	927.00	791.07	135.93	6.820	
16,300.00	7,815.00	15,359.24	6,889.00	199.21	199.20	0.03	579.75	8,508.93	927.00	789.52	137.48	6.743	
16,400.00	7,815.00	15,459.24	6,889.00	201.50	201.49	0.03	579.71	8,608.93	927.00	787.98	139.02	6.668	
16,500.00	7,815.00	15,559.24	6,889.00	203.79	203.78	0.03	579.66	8,708.93	927.00	786.43	140.57	6.594	
16,600.00	7,815.00	15,659.24	6,889.00	206.07	206.07	0.03	579.62	8,808.93	927.00	784.88	142.12	6.523	
16,700.00	7,815.00	15,759.24	6,889.00	208.36	208.36	0.03	579.57	8,908.93	927.00	783.33	143.67	6.452	
16,800.00	7,815.00	15,859.24	6,889.00	210.65	210.65	0.02	579.53	9,008.93	927.00	781.78	145.22	6.384	
16,900.00	7,815.00	15,959.24	6,889.00	212.93	212.95	0.02	579.48	9,108.93	927.00	780.23	146.77	6.316	
17,000.00	7,815.00	16,059.24	6,889.00	215.22	215.24	0.02	579.44	9,208.93	927.00	778.68	148.32	6.250	
17,100.00	7,815.00	16,159.24	6,889.00	217.51	217.53	0.02	579.39	9,308.93	927.00	777.13	149.87	6.185	
17,200.00	7,815.00	16,259.24	6,889.00	219.80	219.82	0.02	579.34	9,408.93	927.00	775.58	151.42	6.122	
17,300.00	7,815.00	16,359.24	6,889.00	222.09	222.12	0.01	579.30	9,508.93	927.00	774.03	152.97	6.060	
17,400.00	7,815.00	16,459.24	6,889.00	224.38	224.41	0.01	579.25	9,608.93	927.00	772.48	154.52	5.999	
17,500.00	7,815.00	16,559.24	6,889.00	226.67	226.71	0.01	579.21	9,708.93	927.00	770.93	156.07	5.940	
17,600.00	7,815.00	16,659.24	6,889.00	228.96	229.00	0.01	579.16	9,808.93	927.00	769.38	157.62	5.881	
17,700.00	7,815.00	16,759.24	6,889.00	231.25	231.30	0.01	579.12	9,908.93	927.00	767.82	159.18	5.824	
17,800.00	7,815.00	16,859.24	6,889.00	233.54	233.59	0.00	579.07	10,008.93	927.00	766.27	160.73	5.767	
17,900.00	7,815.00	16,959.24	6,889.00	235.83	235.89	0.00	579.02	10,108.93	927.00	764.72	162.28	5.712	
17,952.07	7,815.00	17,011.31	6,889.00	237.02	237.08	0.00	579.00	10,161.00	927.00	763.91	163.09	5.684	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #116H - OH - Prelim A														Offset Site Error: 0.00 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			
0.00	0.00	0.00	0.00	0.00	0.00	0.00	110.00	0.00	110.00						
100.00	100.00	100.00	100.00	0.13	0.13	0.00	110.00	0.00	110.00	109.74	0.26	429.172			
200.00	200.00	200.00	200.00	0.49	0.49	0.00	110.00	0.00	110.00	109.03	0.97	113.023			
300.00	300.00	300.00	300.00	0.85	0.85	0.00	110.00	0.00	110.00	108.31	1.69	65.081			
400.00	400.00	400.00	400.00	1.20	1.20	0.00	110.00	0.00	110.00	107.59	2.41	45.697			
500.00	500.00	500.00	500.00	1.56	1.56	0.00	110.00	0.00	110.00	106.88	3.12	35.210			
600.00	600.00	600.00	600.00	1.92	1.92	0.00	110.00	0.00	110.00	106.16	3.84	28.638			
700.00	700.00	700.00	700.00	2.28	2.28	0.00	110.00	0.00	110.00	105.44	4.56	24.134			
800.00	800.00	800.00	800.00	2.64	2.64	0.00	110.00	0.00	110.00	104.73	5.27	20.853			
900.00	900.00	900.00	900.00	3.00	3.00	0.00	110.00	0.00	110.00	104.01	5.99	18.358			
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	0.00	110.00	0.00	110.00	103.29	6.71	16.396			
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.71	50.72	110.00	0.00	108.89	101.46	7.42	14.669			
1,200.00	1,199.86	1,200.14	1,199.86	4.07	4.07	52.75	110.00	0.00	105.91	97.78	8.14	13.017			
1,300.00	1,299.73	1,300.27	1,299.73	4.42	4.43	55.07	110.00	0.00	102.83	93.98	8.85	11.617			
1,400.00	1,399.59	1,400.41	1,399.59	4.78	4.79	57.53	110.00	0.00	99.92	90.35	9.57	10.444			
1,500.00	1,499.45	1,499.55	1,499.45	5.14	5.14	60.13	110.00	0.00	97.21	86.93	10.28	9.456			
1,600.00	1,599.31	1,600.69	1,600.69	5.49	5.50	63.11	108.17	-0.17	92.94	81.96	10.98	8.461			
1,700.00	1,699.18	1,700.82	1,700.82	5.85	5.83	66.83	102.68	-0.70	85.42	73.76	11.66	7.325			
1,800.00	1,799.04	1,800.96	1,800.96	6.21	6.17	71.99	93.61	-1.57	74.88	62.55	12.33	6.073			
1,900.00	1,898.90	1,901.10	1,898.90	6.58	6.51	80.01	81.08	-2.76	61.86	48.87	12.99	4.762			
2,000.00	1,998.77	2,001.23	1,998.77	6.94	6.85	94.27	65.27	-4.28	47.82	34.14	13.68	3.497			
2,100.00	2,098.63	2,101.37	2,098.63	7.30	7.20	121.47	46.35	-6.09	37.11	22.67	14.44	2.569			
2,138.45	2,137.02	2,141.43	2,138.45	7.44	7.34	136.01	38.30	-6.86	35.89	21.15	14.75	2.434 CC, ES, SF			
2,200.00	2,198.49	2,201.51	2,198.49	7.66	7.56	159.61	24.62	-8.16	33.31	24.15	15.16	2.594			
2,300.00	2,298.36	2,301.64	2,298.36	8.02	7.94	-174.71	2.09	-10.32	55.75	40.03	15.72	3.546			
2,400.00	2,398.22	2,401.78	2,398.22	8.38	8.35	-161.81	-20.45	-12.47	78.08	61.72	16.36	4.771			
2,500.00	2,498.08	2,501.92	2,498.08	8.75	8.77	-154.76	-42.98	-14.63	102.52	85.47	17.05	6.014			
2,600.00	2,597.87	2,592.13	2,597.87	9.11	9.10	-170.79	-65.41	-16.77	129.35	111.68	17.67	7.322			
2,700.00	2,697.43	2,692.57	2,697.43	9.48	9.50	-177.22	-87.59	-18.89	159.83	141.49	18.35	8.711			
2,800.00	2,796.84	2,793.16	2,796.84	9.85	9.90	-174.70	-109.65	-21.00	192.21	173.18	19.03	10.102			
2,900.00	2,896.26	2,893.74	2,896.26	10.21	10.30	-172.90	-131.71	-23.11	224.82	205.11	19.71	11.406			
3,000.00	2,995.67	2,994.33	2,995.67	10.58	10.71	-171.56	-153.76	-25.22	257.58	237.18	20.40	12.626			
3,100.00	3,095.08	3,094.92	3,095.08	10.96	11.13	-170.52	-175.82	-27.33	290.44	269.35	21.09	13.769			
3,200.00	3,194.49	3,195.51	3,194.49	11.33	11.55	-169.69	-197.88	-29.44	323.37	301.58	21.79	14.841			
3,300.00	3,293.90	3,296.10	3,293.90	11.70	11.97	-169.02	-219.93	-31.54	356.35	333.86	22.49	15.846			
3,400.00	3,393.32	3,396.68	3,393.32	12.07	12.39	-168.46	-241.99	-33.65	389.36	366.17	23.19	16.791			
3,500.00	3,492.73	3,437.71	3,396.15	12.45	12.82	-167.98	-264.05	-35.76	422.40	398.51	23.89	17.681			
3,600.00	3,592.14	3,532.04	3,487.85	12.82	13.24	-167.58	-286.10	-37.87	455.47	430.87	24.59	18.519			
3,700.00	3,691.55	3,626.37	3,579.54	13.20	13.67	-167.23	-308.16	-39.98	488.55	463.25	25.30	19.311			
3,800.00	3,790.96	3,720.70	3,671.23	13.57	14.11	-166.92	-330.22	-42.09	521.64	495.64	26.01	20.059			
3,900.00	3,890.38	3,815.03	3,762.92	13.95	14.54	-166.65	-352.27	-44.20	554.75	528.04	26.71	20.787			
4,000.00	3,989.79	3,909.36	3,854.61	14.33	14.97	-166.41	-374.33	-46.31	587.87	560.44	27.42	21.437			
4,100.00	4,089.20	4,003.69	3,946.30	14.71	15.41	-166.20	-396.39	-48.41	620.99	592.86	28.13	22.074			
4,200.00	4,188.61	4,101.98	4,037.99	15.08	15.87	-166.01	-418.45	-50.52	654.12	625.26	28.86	22.666			
4,300.00	4,288.02	4,207.65	4,129.68	15.46	16.36	-165.83	-440.50	-52.63	687.26	657.65	29.61	23.207			
4,400.00	4,387.44	4,286.69	4,221.38	15.84	16.73	-165.68	-462.56	-54.74	720.40	690.13	30.27	23.801			
4,500.00	4,486.85	4,381.02	4,313.07	16.22	17.17	-165.53	-484.62	-56.85	753.55	722.57	30.98	24.323			
4,600.00	4,586.26	4,475.35	4,404.76	16.60	17.61	-165.40	-506.67	-58.96	786.70	755.01	31.70	24.821			
4,700.00	4,685.67	4,569.68	4,496.45	16.98	18.05	-165.28	-528.73	-61.07	819.86	787.45	32.41	25.296			
4,800.00	4,785.08	4,664.01	4,588.14	17.36	18.50	-165.17	-550.79	-63.18	853.01	819.89	33.13	25.751			
4,900.00	4,884.50	4,758.34	4,679.83	17.74	18.94	-165.07	-572.84	-65.28	886.17	852.33	33.84	26.186			
5,000.00	4,983.91	4,873.74	4,792.18	18.12	19.48	-164.96	-599.07	-67.79	918.81	884.05	34.76	26.435			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #116H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
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)					
5,100.00	5,083.32	5,014.71	4,930.62	18.50	20.11	-164.91	-625.46	-70.32	947.50	911.65	35.85	26.430	
5,200.00	5,182.73	5,159.51	5,074.00	18.88	20.69	-164.93	-645.48	-72.23	971.46	934.58	36.88	26.342	
5,300.00	5,282.14	5,307.53	5,221.43	19.26	21.24	-165.04	-658.45	-73.47	990.51	952.67	37.84	26.179	
5,400.00	5,381.56	5,458.07	5,371.86	19.64	21.73	-165.23	-663.86	-73.99	1,004.51	965.81	38.70	25.957	
5,500.00	5,480.97	5,567.18	5,480.97	20.02	22.05	-165.40	-664.00	-74.00	1,015.07	975.67	39.41	25.758	
5,600.00	5,580.38	5,666.59	5,580.38	20.40	22.34	-165.55	-664.00	-74.00	1,025.56	985.47	40.09	25.578	
5,700.00	5,679.79	5,766.00	5,679.79	20.78	22.63	-165.70	-664.00	-74.00	1,036.05	995.27	40.78	25.404	
5,800.00	5,779.34	5,865.55	5,779.34	21.16	22.92	-165.86	-664.00	-74.00	1,045.19	1,003.72	41.47	25.203	
5,900.00	5,879.16	5,965.37	5,879.16	21.52	23.22	-165.97	-664.00	-74.00	1,050.97	1,008.82	42.16	24.930	
6,000.00	5,979.12	6,065.34	5,979.12	21.88	23.52	-166.02	-664.00	-74.00	1,053.37	1,010.53	42.84	24.589	
6,100.00	6,079.12	6,165.34	6,079.12	22.22	23.81	-174.17	-664.00	-74.00	1,053.45	1,009.93	43.52	24.206	
6,200.00	6,179.12	6,265.34	6,179.12	22.57	24.11	174.17	-664.00	-74.00	1,053.45	1,009.25	44.20	23.834	
6,300.00	6,279.12	6,365.34	6,279.12	22.91	24.42	174.17	-664.00	-74.00	1,053.45	1,008.57	44.88	23.472	
6,400.00	6,379.12	6,450.00	6,363.73	23.26	24.67	174.06	-664.20	-72.02	1,053.96	1,008.43	45.53	23.151	
6,500.00	6,479.12	6,519.83	6,432.79	23.60	24.89	173.53	-665.19	-62.04	1,056.93	1,010.82	46.11	22.922	
6,600.00	6,579.12	6,587.86	6,498.42	23.95	25.10	172.59	-666.96	-44.35	1,062.88	1,016.23	46.64	22.787	
6,700.00	6,679.12	6,650.00	6,556.14	24.30	25.28	171.39	-669.24	-21.53	1,072.32	1,025.22	47.10	22.769	
6,800.00	6,779.12	6,708.10	6,607.57	24.64	25.44	169.99	-671.92	5.32	1,085.87	1,038.42	47.45	22.885	
6,900.00	6,879.12	6,759.29	6,650.41	24.99	25.57	168.56	-674.70	33.16	1,104.09	1,066.42	47.66	23.164	
7,000.00	6,979.12	6,800.00	6,682.60	25.34	25.67	167.31	-677.17	57.95	1,127.43	1,079.75	47.68	23.644	
7,100.00	7,079.12	6,850.00	6,719.59	25.69	25.79	165.65	-680.51	91.40	1,156.14	1,108.45	47.69	24.242	
7,200.00	7,179.12	6,879.92	6,740.26	26.03	25.86	164.59	-682.66	112.91	1,190.27	1,142.88	47.39	25.116	
7,300.00	7,278.92	6,912.23	6,761.30	26.38	25.93	103.18	-685.09	137.32	1,230.96	1,183.93	47.02	26.177	
7,400.00	7,376.45	6,950.00	6,784.08	26.71	26.02	96.61	-688.08	167.28	1,279.68	1,232.98	46.70	27.400	
7,500.00	7,468.78	6,977.63	6,799.47	27.03	26.09	89.59	-690.36	190.12	1,333.92	1,287.61	46.31	28.804	
7,600.00	7,553.10	7,000.00	6,811.11	27.32	26.14	82.26	-692.26	209.12	1,391.41	1,345.45	45.96	30.276	
7,700.00	7,626.93	7,050.00	6,834.36	27.61	26.28	74.17	-696.65	253.15	1,449.50	1,403.39	46.11	31.436	
7,800.00	7,690.25	7,075.74	6,844.80	27.95	26.36	65.95	-698.99	276.56	1,500.87	1,454.78	46.09	32.561	
7,900.00	7,742.08	7,100.00	6,853.67	28.39	26.44	60.38	-701.23	299.03	1,542.24	1,496.04	46.20	33.383	
8,000.00	7,780.85	7,150.00	6,868.89	28.94	26.65	56.91	-705.96	346.40	1,572.57	1,525.79	46.78	33.616	
8,100.00	7,805.36	7,182.86	6,876.60	29.59	26.82	54.95	-709.13	378.18	1,591.61	1,544.24	47.37	33.599	
8,200.00	7,814.89	7,220.01	6,883.11	30.35	27.05	54.37	-712.77	414.57	1,599.01	1,550.80	48.22	33.163	
8,300.00	7,815.00	7,250.00	6,886.62	31.20	27.25	54.52	-715.72	444.20	1,600.73	1,551.57	49.16	32.562	
8,400.00	7,815.00	7,302.25	6,889.00	32.20	27.67	54.69	-720.91	496.12	1,606.17	1,555.73	50.44	31.842	
8,500.00	7,815.00	7,454.20	6,889.00	33.32	29.17	54.92	-731.98	647.65	1,612.36	1,559.46	52.90	30.482	
8,600.00	7,815.00	7,614.41	6,889.00	34.56	31.11	54.98	-735.09	807.82	1,613.67	1,557.98	55.70	28.973	
8,700.00	7,815.00	7,714.41	6,889.00	35.91	32.48	54.98	-735.18	907.82	1,613.68	1,555.66	58.02	27.813	
8,800.00	7,815.00	7,814.41	6,889.00	37.35	33.96	54.98	-735.26	1,007.82	1,613.68	1,553.18	60.50	26.672	
8,900.00	7,815.00	7,914.41	6,889.00	38.87	35.53	54.98	-735.35	1,107.82	1,613.69	1,550.56	63.12	25.564	
9,000.00	7,815.00	8,014.41	6,889.00	40.47	37.18	54.98	-735.43	1,207.82	1,613.69	1,547.82	65.87	24.497	
9,100.00	7,815.00	8,114.41	6,889.00	42.13	38.90	54.98	-735.52	1,307.82	1,613.69	1,544.97	68.73	23.479	
9,200.00	7,815.00	8,214.41	6,889.00	43.86	40.68	54.98	-735.60	1,407.82	1,613.70	1,542.02	71.68	22.511	
9,300.00	7,815.00	8,314.41	6,889.00	45.63	42.51	54.98	-735.69	1,507.82	1,613.70	1,538.98	74.72	21.596	
9,400.00	7,815.00	8,414.41	6,889.00	47.45	44.38	54.98	-735.77	1,607.82	1,613.71	1,535.87	77.84	20.732	
9,500.00	7,815.00	8,514.41	6,889.00	49.31	46.30	54.98	-735.86	1,707.82	1,613.71	1,532.69	81.02	19.918	
9,600.00	7,815.00	8,614.41	6,889.00	51.21	48.25	54.98	-735.94	1,807.82	1,613.71	1,529.46	84.25	19.153	
9,700.00	7,815.00	8,714.41	6,889.00	53.14	50.23	54.98	-736.02	1,907.82	1,613.72	1,526.17	87.55	18.433	
9,800.00	7,815.00	8,814.41	6,889.00	55.10	52.23	54.98	-736.11	2,007.82	1,613.72	1,522.84	90.88	17.756	
9,900.00	7,815.00	8,914.41	6,889.00	57.08	54.26	54.98	-736.19	2,107.82	1,613.73	1,519.48	94.26	17.119	
10,000.00	7,815.00	9,014.41	6,889.00	59.09	56.32	54.98	-736.28	2,207.82	1,613.73	1,516.05	97.68	16.520	
10,100.00	7,815.00	9,114.41	6,889.00	61.12	58.39	54.98	-736.36	2,307.82	1,613.73	1,512.60	101.13	15.957	
10,200.00	7,815.00	9,214.41	6,889.00	63.17	60.48	54.98	-736.45	2,407.82	1,613.74	1,509.13	104.61	15.426	

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 #125H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#125H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #116H - OH - Prelim A														Offset Site Error:	0.00 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		
10,300.00	7,815.00	9,314.41	6,889.00	65.24	62.58	54.98	-736.53	2,507.82	1,613.74	1,505.62	108.12	14.926			
10,400.00	7,815.00	9,414.41	6,889.00	67.32	64.70	54.98	-736.62	2,607.82	1,613.75	1,502.09	111.65	14.453			
10,500.00	7,815.00	9,514.41	6,889.00	69.42	66.83	54.98	-736.70	2,707.82	1,613.75	1,498.54	115.21	14.007			
10,600.00	7,815.00	9,614.41	6,889.00	71.53	68.97	54.98	-736.78	2,807.82	1,613.75	1,494.97	118.78	13.586			
10,700.00	7,815.00	9,714.41	6,889.00	73.65	71.12	54.98	-736.87	2,907.82	1,613.76	1,491.38	122.38	13.187			
10,800.00	7,815.00	9,814.41	6,889.00	75.78	73.29	54.98	-736.95	3,007.82	1,613.76	1,487.77	125.99	12.809			
10,900.00	7,815.00	9,914.41	6,889.00	77.92	75.46	54.98	-737.04	3,107.82	1,613.77	1,484.15	129.62	12.450			
11,000.00	7,815.00	10,014.41	6,889.00	80.08	77.64	54.98	-737.12	3,207.82	1,613.77	1,480.51	133.26	12.110			
11,100.00	7,815.00	10,114.41	6,889.00	82.24	79.82	54.98	-737.21	3,307.82	1,613.77	1,476.86	136.91	11.787			
11,200.00	7,815.00	10,214.41	6,889.00	84.40	82.02	54.98	-737.29	3,407.82	1,613.78	1,473.20	140.58	11.479			
11,300.00	7,815.00	10,314.41	6,889.00	86.58	84.22	54.98	-737.38	3,507.81	1,613.78	1,469.52	144.26	11.187			
11,400.00	7,815.00	10,414.41	6,889.00	88.76	86.42	54.98	-737.46	3,607.81	1,613.79	1,465.84	147.95	10.908			
11,500.00	7,815.00	10,514.41	6,889.00	90.95	88.63	54.98	-737.55	3,707.81	1,613.79	1,462.15	151.64	10.642			
11,600.00	7,815.00	10,614.41	6,889.00	93.14	90.85	54.98	-737.63	3,807.81	1,613.79	1,458.44	155.35	10.388			
11,700.00	7,815.00	10,714.41	6,889.00	95.34	93.06	54.98	-737.71	3,907.81	1,613.80	1,454.73	159.07	10.145			
11,800.00	7,815.00	10,814.41	6,889.00	97.55	95.29	54.98	-737.80	4,007.81	1,613.80	1,451.01	162.79	9.913			
11,900.00	7,815.00	10,914.41	6,889.00	99.76	97.52	54.98	-737.88	4,107.81	1,613.81	1,447.28	166.52	9.691			
12,000.00	7,815.00	11,014.41	6,889.00	101.97	99.75	54.98	-737.97	4,207.81	1,613.81	1,443.55	170.26	9.479			
12,100.00	7,815.00	11,114.41	6,889.00	104.19	101.98	54.98	-738.05	4,307.81	1,613.81	1,439.81	174.00	9.275			
12,200.00	7,815.00	11,214.41	6,889.00	106.41	104.22	54.98	-738.14	4,407.81	1,613.82	1,436.07	177.75	9.079			
12,300.00	7,815.00	11,314.41	6,889.00	108.64	106.46	54.98	-738.22	4,507.81	1,613.82	1,432.31	181.51	8.891			
12,400.00	7,815.00	11,414.41	6,889.00	110.87	108.71	54.98	-738.31	4,607.81	1,613.83	1,428.56	185.27	8.711			
12,500.00	7,815.00	11,514.41	6,889.00	113.10	110.95	54.98	-738.39	4,707.81	1,613.83	1,424.80	189.03	8.537			
12,600.00	7,815.00	11,614.41	6,889.00	115.33	113.20	54.98	-738.47	4,807.81	1,613.83	1,421.03	192.80	8.370			
12,700.00	7,815.00	11,714.41	6,889.00	117.57	115.45	54.99	-738.56	4,907.81	1,613.84	1,417.26	196.58	8.210			
12,800.00	7,815.00	11,814.41	6,889.00	119.81	117.71	54.99	-738.64	5,007.81	1,613.84	1,413.49	200.36	8.055			
12,900.00	7,815.00	11,914.41	6,889.00	122.05	119.96	54.99	-738.73	5,107.81	1,613.85	1,409.71	204.14	7.906			
13,000.00	7,815.00	12,014.41	6,889.00	124.30	122.22	54.99	-738.81	5,207.81	1,613.85	1,405.93	207.93	7.762			
13,100.00	7,815.00	12,114.41	6,889.00	126.55	124.48	54.99	-738.90	5,307.81	1,613.85	1,402.14	211.71	7.623			
13,200.00	7,815.00	12,214.41	6,889.00	128.80	126.74	54.99	-738.98	5,407.81	1,613.86	1,398.35	215.51	7.489			
13,300.00	7,815.00	12,314.41	6,889.00	131.05	129.00	54.99	-739.07	5,507.81	1,613.86	1,394.56	219.30	7.359			
13,400.00	7,815.00	12,414.41	6,889.00	133.30	131.27	54.99	-739.15	5,607.81	1,613.87	1,390.76	223.10	7.234			
13,500.00	7,815.00	12,514.41	6,889.00	135.56	133.54	54.99	-739.23	5,707.81	1,613.87	1,386.97	226.90	7.113			
13,600.00	7,815.00	12,614.41	6,889.00	137.82	135.80	54.99	-739.32	5,807.81	1,613.87	1,383.17	230.71	6.995			
13,700.00	7,815.00	12,714.41	6,889.00	140.08	138.07	54.99	-739.40	5,907.81	1,613.88	1,379.36	234.52	6.882			
13,800.00	7,815.00	12,814.41	6,889.00	142.34	140.34	54.99	-739.49	6,007.81	1,613.88	1,375.56	238.33	6.772			
13,900.00	7,815.00	12,914.41	6,889.00	144.60	142.61	54.99	-739.57	6,107.81	1,613.89	1,371.75	242.14	6.665			
14,000.00	7,815.00	13,014.41	6,889.00	146.86	144.89	54.99	-739.66	6,207.81	1,613.89	1,367.94	245.95	6.562			
14,100.00	7,815.00	13,114.41	6,889.00	149.13	147.16	54.99	-739.74	6,307.81	1,613.89	1,364.13	249.77	6.462			
14,200.00	7,815.00	13,214.41	6,889.00	151.40	149.44	54.99	-739.83	6,407.81	1,613.90	1,360.31	253.59	6.364			
14,300.00	7,815.00	13,314.41	6,889.00	153.66	151.71	54.99	-739.91	6,507.81	1,613.90	1,356.50	257.41	6.270			
14,400.00	7,815.00	13,414.41	6,889.00	155.93	153.99	54.99	-740.00	6,607.81	1,613.91	1,352.68	261.23	6.178			
14,500.00	7,815.00	13,514.41	6,889.00	158.20	156.27	54.99	-740.08	6,707.81	1,613.91	1,348.86	265.05	6.089			
14,600.00	7,815.00	13,614.41	6,889.00	160.47	158.54	54.99	-740.16	6,807.81	1,613.91	1,345.04	268.88	6.002			
14,700.00	7,815.00	13,714.41	6,889.00	162.75	160.82	54.99	-740.25	6,907.81	1,613.92	1,341.22	272.70	5.918			
14,800.00	7,815.00	13,814.41	6,889.00	165.02	163.10	54.99	-740.33	7,007.81	1,613.92	1,337.39	276.53	5.836			
14,900.00	7,815.00	13,914.41	6,889.00	167.29	165.39	54.99	-740.42	7,107.81	1,613.93	1,333.56	280.36	5.757			
15,000.00	7,815.00	14,014.41	6,889.00	169.57	167.67	54.99	-740.50	7,207.81	1,613.93	1,329.74	284.19	5.679			
15,100.00	7,815.00	14,114.41	6,889.00	171.84	169.95	54.99	-740.59	7,307.81	1,613.93	1,325.91	288.03	5.603			
15,200.00	7,815.00	14,214.41	6,889.00	174.12	172.23	54.99	-740.67	7,407.81	1,613.94	1,322.08	291.86	5.530			
15,300.00	7,815.00	14,314.41	6,889.00	176.40	174.52	54.99	-740.76	7,507.81	1,613.94	1,318.25	295.70	5.458			
15,400.00	7,815.00	14,414.41	6,889.00	178.68	176.80	54.99	-740.84	7,607.81	1,613.95	1,314.41	299.53	5.388			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #116H - OH - Prelim A													Offset Site Error: 0.00 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
15,500.00	7,815.00	14,514.41	6,889.00	180.96	179.09	54.99	-740.92	7,707.81	1,613.95	1,310.58	303.37	5.320	
15,600.00	7,815.00	14,614.41	6,889.00	183.24	181.37	54.99	-741.01	7,807.81	1,613.95	1,306.75	307.21	5.254	
15,700.00	7,815.00	14,714.41	6,889.00	185.52	183.66	54.99	-741.09	7,907.81	1,613.96	1,302.91	311.05	5.189	
15,800.00	7,815.00	14,814.41	6,889.00	187.80	185.95	54.99	-741.18	8,007.81	1,613.96	1,299.07	314.89	5.125	
15,900.00	7,815.00	14,914.41	6,889.00	190.08	188.23	54.99	-741.26	8,107.81	1,613.97	1,295.23	318.73	5.064	
16,000.00	7,815.00	15,014.41	6,889.00	192.36	190.52	54.99	-741.35	8,207.81	1,613.97	1,291.40	322.57	5.003	
16,100.00	7,815.00	15,114.41	6,889.00	194.65	192.81	54.99	-741.43	8,307.81	1,613.97	1,287.56	326.42	4.944	
16,200.00	7,815.00	15,214.41	6,889.00	196.93	195.10	54.99	-741.52	8,407.81	1,613.98	1,283.72	330.26	4.887	
16,300.00	7,815.00	15,314.41	6,889.00	199.21	197.39	54.99	-741.60	8,507.81	1,613.98	1,279.87	334.11	4.831	
16,400.00	7,815.00	15,414.41	6,889.00	201.50	199.68	54.99	-741.69	8,607.81	1,613.99	1,276.03	337.96	4.776	
16,500.00	7,815.00	15,514.41	6,889.00	203.79	201.97	54.99	-741.77	8,707.81	1,613.99	1,272.19	341.80	4.722	
16,600.00	7,815.00	15,614.41	6,889.00	206.07	204.26	54.99	-741.85	8,807.81	1,613.99	1,268.34	345.65	4.669	
16,700.00	7,815.00	15,714.41	6,889.00	208.36	206.55	54.99	-741.94	8,907.81	1,614.00	1,264.50	349.50	4.618	
16,800.00	7,815.00	15,814.41	6,889.00	210.65	208.84	54.99	-742.02	9,007.81	1,614.00	1,260.65	353.35	4.568	
16,900.00	7,815.00	15,914.41	6,889.00	212.93	211.14	54.99	-742.11	9,107.81	1,614.01	1,256.81	357.20	4.518	
17,000.00	7,815.00	16,014.41	6,889.00	215.22	213.43	54.99	-742.19	9,207.81	1,614.01	1,252.96	361.05	4.470	
17,100.00	7,815.00	16,114.41	6,889.00	217.51	215.72	54.99	-742.28	9,307.81	1,614.01	1,249.11	364.90	4.423	
17,200.00	7,815.00	16,214.41	6,889.00	219.80	218.01	54.99	-742.36	9,407.81	1,614.02	1,245.26	368.76	4.377	
17,300.00	7,815.00	16,314.41	6,889.00	222.09	220.31	54.99	-742.45	9,507.81	1,614.02	1,241.41	372.61	4.332	
17,400.00	7,815.00	16,414.41	6,889.00	224.38	222.60	54.99	-742.53	9,607.81	1,614.03	1,237.56	376.46	4.287	
17,500.00	7,815.00	16,514.41	6,889.00	226.67	224.89	54.99	-742.61	9,707.81	1,614.03	1,233.71	380.32	4.244	
17,600.00	7,815.00	16,614.41	6,889.00	228.96	227.19	54.99	-742.70	9,807.81	1,614.03	1,229.86	384.17	4.201	
17,700.00	7,815.00	16,714.41	6,889.00	231.25	229.48	54.99	-742.78	9,907.81	1,614.04	1,226.01	388.03	4.160	
17,800.00	7,815.00	16,814.41	6,889.00	233.54	231.78	54.99	-742.87	10,007.81	1,614.04	1,222.16	391.88	4.119	
17,900.00	7,815.00	16,914.41	6,889.00	235.83	234.07	54.99	-742.95	10,107.81	1,614.05	1,218.31	395.74	4.079	
17,952.07	7,815.00	16,966.48	6,889.00	237.02	235.27	54.99	-743.00	10,159.88	1,614.05	1,216.30	397.75	4.058	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #126H - OH - Prelim A														Offset Site Error:	0.00 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			
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	1,099.98	1,099.71	1,099.69	3.71	3.69	-45.57	-1.70	-30.33	29.13	21.73	7.40	3.935			
1,174.09	1,174.01	1,173.31	1,173.20	3.97	3.94	-56.74	-5.14	-31.00	28.54	20.64	7.90	3.611			
1,200.00	1,199.86	1,198.92	1,198.76	4.07	4.02	-62.59	-6.78	-31.32	28.53	20.45	8.08	3.532 CC, ES			
1,300.00	1,299.73	1,297.46	1,296.93	4.42	4.35	-83.27	-15.15	-32.94	33.11	24.36	8.75	3.786			
1,400.00	1,399.59	1,395.13	1,393.87	4.78	4.68	-99.11	-26.71	-35.19	44.05	34.65	9.40	4.686			
1,500.00	1,499.45	1,493.18	1,490.90	5.14	5.03	-108.78	-40.67	-37.90	59.41	49.33	10.08	5.896			
1,600.00	1,599.31	1,608.40	1,588.26	5.49	5.45	-114.43	-54.78	-40.64	75.86	65.03	10.83	7.007			
1,700.00	1,699.18	1,690.02	1,685.62	5.85	5.75	-118.06	-68.90	-43.39	92.77	81.31	11.46	8.092			
1,800.00	1,799.04	1,788.44	1,782.99	6.21	6.12	-120.56	-83.01	-46.13	109.93	97.77	12.16	9.037			
1,900.00	1,898.90	1,886.87	1,880.35	6.58	6.50	-122.38	-97.13	-48.87	127.24	114.37	12.87	9.888			
2,000.00	1,998.77	1,985.29	1,977.72	6.94	6.87	-123.77	-111.25	-51.62	144.65	131.07	13.57	10.656			
2,100.00	2,098.63	2,083.71	2,075.08	7.30	7.25	-124.86	-125.36	-54.36	162.12	147.83	14.28	11.350			
2,200.00	2,198.49	2,182.13	2,172.44	7.66	7.64	-125.73	-139.48	-57.10	179.63	164.64	14.99	11.981			
2,300.00	2,298.36	2,280.55	2,269.81	8.02	8.02	-126.46	-153.60	-59.85	197.18	181.48	15.71	12.555			
2,400.00	2,398.22	2,378.97	2,367.17	8.38	8.41	-127.06	-167.71	-62.59	214.76	198.34	16.42	13.080			
2,500.00	2,498.08	2,477.39	2,464.54	8.75	8.80	-127.57	-181.83	-65.33	232.35	215.22	17.13	13.561			
2,600.00	2,597.87	2,575.49	2,561.59	9.11	9.19	-148.43	-195.90	-68.07	251.61	233.76	17.85	14.096			
2,700.00	2,697.43	2,672.87	2,657.92	9.48	9.58	-158.48	-209.87	-70.78	274.29	255.72	18.57	14.773			
2,800.00	2,796.84	2,769.86	2,753.87	9.85	9.97	-158.78	-223.78	-73.48	298.61	279.34	19.28	15.491			
2,900.00	2,896.26	2,866.84	2,849.81	10.21	10.36	-159.03	-237.69	-76.19	322.94	302.96	19.99	16.158			
3,000.00	2,995.67	2,963.83	2,945.76	10.58	10.75	-159.25	-251.60	-78.89	347.28	326.58	20.70	16.779			
3,100.00	3,095.08	3,060.81	3,041.70	10.96	11.14	-159.43	-265.51	-81.59	371.62	350.21	21.41	17.358			
3,200.00	3,194.49	3,157.80	3,137.65	11.33	11.53	-159.60	-279.42	-84.30	395.96	373.84	22.12	17.900			
3,300.00	3,293.90	3,254.79	3,233.59	11.70	11.92	-159.74	-293.33	-87.00	420.31	397.47	22.83	18.407			
3,400.00	3,393.32	3,351.77	3,329.54	12.07	12.32	-159.87	-307.24	-89.70	444.65	421.10	23.55	18.883			
3,500.00	3,492.73	3,448.76	3,425.48	12.45	12.71	-159.99	-321.16	-92.40	469.00	444.74	24.26	19.330			
3,600.00	3,592.14	3,545.74	3,521.43	12.82	13.11	-160.10	-335.07	-95.11	493.35	468.38	24.98	19.752			
3,700.00	3,691.55	3,642.73	3,617.37	13.20	13.50	-160.19	-348.98	-97.81	517.71	492.01	25.69	20.150			
3,800.00	3,790.96	3,739.72	3,713.32	13.57	13.90	-160.28	-362.89	-100.51	542.06	515.65	26.41	20.526			
3,900.00	3,890.38	3,836.70	3,809.26	13.95	14.29	-160.36	-376.80	-103.22	566.41	539.29	27.13	20.881			
4,000.00	3,989.79	3,933.69	3,905.21	14.33	14.69	-160.43	-390.71	-105.92	590.77	562.93	27.84	21.219			
4,100.00	4,089.20	4,030.67	4,001.15	14.71	15.08	-160.49	-404.62	-108.62	615.13	586.57	28.56	21.539			
4,200.00	4,188.61	4,127.66	4,097.10	15.08	15.48	-160.56	-418.53	-111.33	639.48	610.21	29.28	21.843			
4,300.00	4,288.02	4,224.65	4,193.04	15.46	15.88	-160.61	-432.44	-114.03	663.84	633.85	29.99	22.132			
4,400.00	4,387.44	4,321.63	4,288.99	15.84	16.27	-160.67	-446.35	-116.73	688.20	657.49	30.71	22.407			
4,500.00	4,486.85	4,418.62	4,384.93	16.22	16.67	-160.72	-460.26	-119.44	712.56	681.13	31.43	22.670			
4,600.00	4,586.26	4,515.61	4,480.88	16.60	17.07	-160.76	-474.18	-122.14	736.92	704.77	32.15	22.921			
4,700.00	4,685.67	4,612.59	4,576.82	16.98	17.46	-160.81	-488.09	-124.84	761.28	728.41	32.87	23.161			
4,800.00	4,785.08	4,709.58	4,672.77	17.36	17.86	-160.85	-502.00	-127.54	785.64	752.05	33.59	23.390			
4,900.00	4,884.50	4,806.56	4,768.72	17.74	18.26	-160.88	-515.91	-130.25	810.00	775.69	34.31	23.609			
5,000.00	4,983.91	4,903.55	4,864.66	18.12	18.66	-160.92	-529.82	-132.95	834.36	799.33	35.03	23.820			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #126H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
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
5,100.00	5,083.32	5,000.54	4,960.61	18.50	19.06	-160.95	-543.73	-135.65	858.72	822.97	35.75	24.021	
5,200.00	5,182.73	5,102.48	5,056.55	18.88	19.48	-160.99	-557.64	-138.36	883.08	846.59	36.49	24.202	
5,300.00	5,282.14	5,205.49	5,152.50	19.26	19.90	-161.02	-571.55	-141.06	907.44	870.21	37.23	24.374	
5,400.00	5,381.56	5,291.49	5,248.44	19.64	20.25	-161.05	-585.46	-143.76	931.80	893.89	37.91	24.579	
5,500.00	5,480.97	5,388.48	5,344.39	20.02	20.65	-161.07	-599.37	-146.47	956.17	917.53	38.63	24.751	
5,600.00	5,580.38	5,485.47	5,440.33	20.40	21.05	-161.10	-613.28	-149.17	980.53	941.18	39.35	24.917	
5,700.00	5,679.79	5,582.45	5,536.28	20.78	21.45	-161.12	-627.19	-151.87	1,004.89	964.82	40.07	25.076	
5,800.00	5,779.34	5,679.75	5,632.53	21.16	21.85	-161.26	-641.15	-154.58	1,027.95	987.16	40.79	25.199	
5,900.00	5,879.16	5,777.75	5,729.48	21.52	22.25	-161.32	-655.21	-157.31	1,047.80	1,006.29	41.51	25.240	
6,000.00	5,979.12	5,876.33	5,827.00	21.88	22.66	-161.31	-669.35	-160.06	1,064.41	1,022.18	42.23	25.203	
6,100.00	6,079.12	5,975.25	5,924.86	22.22	23.07	-179.02	-683.53	-162.82	1,078.78	1,035.83	42.95	25.117	
6,200.00	6,179.12	6,074.17	6,022.72	22.57	23.47	179.18	-697.72	-165.58	1,093.08	1,049.41	43.67	25.032	
6,300.00	6,279.12	6,173.10	6,120.59	22.91	23.88	179.34	-711.91	-168.33	1,107.39	1,063.01	44.39	24.950	
6,400.00	6,379.12	6,272.03	6,218.45	23.26	24.29	179.49	-726.10	-171.09	1,121.71	1,076.61	45.10	24.870	
6,500.00	6,479.12	6,370.95	6,316.32	23.60	24.70	179.64	-740.29	-173.85	1,136.04	1,090.22	45.82	24.793	
6,600.00	6,579.12	6,469.88	6,414.18	23.95	25.11	179.78	-754.48	-176.61	1,150.37	1,103.83	46.54	24.718	
6,700.00	6,679.12	6,568.81	6,512.05	24.30	25.51	179.92	-768.67	-179.36	1,164.72	1,117.46	47.26	24.645	
6,800.00	6,779.12	6,667.73	6,609.91	24.64	25.92	-179.95	-782.86	-182.12	1,179.06	1,131.09	47.98	24.575	
6,900.00	6,879.12	6,766.66	6,707.78	24.99	26.33	-179.81	-797.05	-184.88	1,193.42	1,144.72	48.70	24.507	
7,000.00	6,979.12	6,865.59	6,805.64	25.34	26.74	-179.68	-811.24	-187.63	1,207.78	1,158.36	49.42	24.441	
7,100.00	7,079.12	7,022.89	6,961.70	25.69	27.36	-179.51	-830.50	-191.38	1,220.21	1,169.69	50.52	24.155	
7,200.00	7,179.12	7,194.95	7,133.33	26.03	27.99	-179.41	-841.97	-193.61	1,226.89	1,175.33	51.57	23.793	
7,300.00	7,278.92	7,358.72	7,296.99	26.38	28.50	123.54	-843.63	-191.39	1,230.45	1,178.05	52.40	23.482	
7,400.00	7,376.45	7,506.75	7,440.88	26.71	28.90	122.54	-838.98	-158.75	1,238.96	1,185.90	53.06	23.348	
7,500.00	7,468.78	7,649.67	7,567.38	27.03	29.19	120.37	-829.72	-93.68	1,253.09	1,199.44	53.65	23.356	
7,600.00	7,553.10	7,783.61	7,667.78	27.32	29.37	117.20	-817.30	-6.37	1,272.94	1,218.67	54.27	23.455	
7,700.00	7,626.93	7,907.30	7,740.04	27.61	29.46	111.67	-803.19	92.73	1,298.10	1,243.08	55.01	23.595	
7,800.00	7,690.25	8,023.60	7,786.93	27.95	29.50	102.85	-788.23	197.87	1,319.87	1,263.91	55.96	23.587	
7,900.00	7,742.08	8,133.05	7,810.65	28.39	29.53	96.48	-773.20	303.49	1,334.31	1,277.19	57.11	23.362	
8,000.00	7,780.85	8,223.92	7,815.00	28.94	29.93	92.27	-760.49	393.29	1,341.29	1,282.91	58.37	22.978	
8,100.00	7,805.36	8,289.86	7,815.00	29.59	30.46	90.24	-752.41	458.73	1,342.33	1,282.75	59.58	22.528	
8,200.00	7,814.89	8,357.52	7,815.00	30.35	31.10	89.92	-745.69	526.05	1,337.53	1,276.55	60.98	21.934	
8,300.00	7,815.00	8,425.55	7,815.00	31.20	31.80	90.00	-740.54	593.89	1,329.94	1,267.41	62.53	21.269	
8,400.00	7,815.00	8,500.00	7,815.00	32.20	32.63	90.00	-736.75	668.24	1,324.68	1,260.33	64.35	20.585	
8,500.00	7,815.00	8,562.18	7,815.00	33.32	33.40	90.00	-735.07	730.39	1,321.76	1,255.54	66.22	19.960	
8,563.47	7,815.00	8,619.42	7,815.00	34.11	34.13	90.00	-734.68	771.23	1,321.15	1,253.45	67.71	19.512	
8,600.00	7,815.00	8,639.55	7,815.00	34.56	34.40	90.00	-734.72	807.76	1,321.16	1,252.72	68.44	19.304	
8,700.00	7,815.00	8,739.55	7,815.00	35.91	35.80	90.00	-734.80	907.76	1,321.17	1,249.97	71.19	18.557	
8,800.00	7,815.00	8,839.55	7,815.00	37.35	37.28	90.00	-734.89	1,007.76	1,321.18	1,247.05	74.13	17.823	
8,900.00	7,815.00	8,939.55	7,815.00	38.87	38.84	90.00	-734.98	1,107.76	1,321.18	1,243.95	77.23	17.107	
9,000.00	7,815.00	9,039.55	7,815.00	40.47	40.47	90.00	-735.07	1,207.76	1,321.19	1,240.72	80.48	16.417	
9,100.00	7,815.00	9,139.55	7,815.00	42.13	42.17	90.00	-735.16	1,307.76	1,321.20	1,237.35	83.85	15.757	
9,200.00	7,815.00	9,239.55	7,815.00	43.86	43.92	90.00	-735.25	1,407.76	1,321.21	1,233.87	87.34	15.127	
9,300.00	7,815.00	9,339.55	7,815.00	45.63	45.72	90.00	-735.34	1,507.76	1,321.22	1,230.29	90.93	14.530	
9,400.00	7,815.00	9,439.55	7,815.00	47.45	47.56	90.00	-735.42	1,607.76	1,321.23	1,226.62	94.61	13.965	
9,500.00	7,815.00	9,539.55	7,815.00	49.31	49.45	90.00	-735.51	1,707.76	1,321.24	1,222.87	98.36	13.432	
9,600.00	7,815.00	9,639.55	7,815.00	51.21	51.36	90.00	-735.60	1,807.76	1,321.25	1,219.05	102.19	12.929	
9,700.00	7,815.00	9,739.55	7,815.00	53.14	53.31	90.00	-735.69	1,907.76	1,321.26	1,215.17	106.08	12.455	
9,800.00	7,815.00	9,839.55	7,815.00	55.10	55.29	90.00	-735.78	2,007.76	1,321.27	1,211.23	110.03	12.008	
9,900.00	7,815.00	9,939.55	7,815.00	57.08	57.29	90.00	-735.87	2,107.76	1,321.27	1,207.24	114.03	11.587	
10,000.00	7,815.00	10,039.55	7,815.00	59.09	59.31	90.00	-735.96	2,207.76	1,321.28	1,203.21	118.07	11.190	
10,100.00	7,815.00	10,139.55	7,815.00	61.12	61.36	90.00	-736.04	2,307.76	1,321.29	1,199.14	122.16	10.816	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design - Leatherneck 3029 Fed Com - #126H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 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)							
10,200.00	7,815.00	10,239.55	7,815.00	63.17	63.42	90.00	-736.13	2,407.76	1,321.30	1,195.02	126.28	10.464			
10,300.00	7,815.00	10,339.55	7,815.00	65.24	65.50	90.00	-736.22	2,507.76	1,321.31	1,190.88	130.43	10.130			
10,400.00	7,815.00	10,439.55	7,815.00	67.32	67.59	90.00	-736.31	2,607.76	1,321.32	1,186.70	134.61	9.816			
10,500.00	7,815.00	10,539.55	7,815.00	69.42	69.69	90.00	-736.40	2,707.76	1,321.33	1,182.50	138.83	9.518			
10,600.00	7,815.00	10,639.55	7,815.00	71.53	71.81	90.00	-736.49	2,807.76	1,321.34	1,178.27	143.06	9.236			
10,700.00	7,815.00	10,739.55	7,815.00	73.65	73.94	90.00	-736.58	2,907.76	1,321.35	1,174.02	147.32	8.969			
10,800.00	7,815.00	10,839.55	7,815.00	75.78	76.08	90.00	-736.66	3,007.76	1,321.35	1,169.75	151.60	8.716			
10,900.00	7,815.00	10,939.55	7,815.00	77.92	78.24	90.00	-736.75	3,107.76	1,321.36	1,165.46	155.90	8.476			
11,000.00	7,815.00	11,039.55	7,815.00	80.08	80.39	90.00	-736.84	3,207.76	1,321.37	1,161.15	160.22	8.247			
11,100.00	7,815.00	11,139.55	7,815.00	82.24	82.56	90.00	-736.93	3,307.76	1,321.38	1,156.83	164.55	8.030			
11,200.00	7,815.00	11,239.55	7,815.00	84.40	84.74	90.00	-737.02	3,407.76	1,321.39	1,152.49	168.90	7.823			
11,300.00	7,815.00	11,339.55	7,815.00	86.58	86.92	90.00	-737.11	3,507.76	1,321.40	1,148.13	173.27	7.626			
11,400.00	7,815.00	11,439.55	7,815.00	88.76	89.11	90.00	-737.19	3,607.76	1,321.41	1,143.77	177.64	7.439			
11,500.00	7,815.00	11,539.55	7,815.00	90.95	91.30	90.00	-737.28	3,707.76	1,321.42	1,139.39	182.03	7.259			
11,600.00	7,815.00	11,639.55	7,815.00	93.14	93.50	90.00	-737.37	3,807.76	1,321.43	1,135.00	186.43	7.088			
11,700.00	7,815.00	11,739.55	7,815.00	95.34	95.70	90.00	-737.46	3,907.76	1,321.44	1,130.60	190.84	6.924			
11,800.00	7,815.00	11,839.55	7,815.00	97.55	97.91	90.00	-737.55	4,007.76	1,321.44	1,126.19	195.25	6.768			
11,900.00	7,815.00	11,939.55	7,815.00	99.76	100.13	90.00	-737.64	4,107.76	1,321.45	1,121.77	199.68	6.618			
12,000.00	7,815.00	12,039.55	7,815.00	101.97	102.34	90.00	-737.73	4,207.76	1,321.46	1,117.34	204.12	6.474			
12,100.00	7,815.00	12,139.55	7,815.00	104.19	104.57	90.00	-737.81	4,307.76	1,321.47	1,112.91	208.56	6.336			
12,200.00	7,815.00	12,239.55	7,815.00	106.41	106.79	90.00	-737.90	4,407.76	1,321.48	1,108.47	213.01	6.204			
12,300.00	7,815.00	12,339.55	7,815.00	108.64	109.02	90.00	-737.99	4,507.76	1,321.49	1,104.02	217.47	6.077			
12,400.00	7,815.00	12,439.55	7,815.00	110.87	111.25	90.00	-738.08	4,607.76	1,321.50	1,099.56	221.94	5.954			
12,500.00	7,815.00	12,539.55	7,815.00	113.10	113.49	90.00	-738.17	4,707.76	1,321.51	1,095.10	226.41	5.837			
12,600.00	7,815.00	12,639.55	7,815.00	115.33	115.73	90.00	-738.26	4,807.76	1,321.52	1,090.63	230.88	5.724			
12,700.00	7,815.00	12,739.55	7,815.00	117.57	117.97	90.00	-738.35	4,907.76	1,321.53	1,086.16	235.37	5.615			
12,800.00	7,815.00	12,839.55	7,815.00	119.81	120.21	90.00	-738.43	5,007.76	1,321.53	1,081.68	239.85	5.510			
12,900.00	7,815.00	12,939.55	7,815.00	122.05	122.46	90.00	-738.52	5,107.76	1,321.54	1,077.20	244.34	5.409			
13,000.00	7,815.00	13,039.55	7,815.00	124.30	124.70	90.00	-738.61	5,207.76	1,321.55	1,072.71	248.84	5.311			
13,100.00	7,815.00	13,139.55	7,815.00	126.55	126.95	90.00	-738.70	5,307.76	1,321.56	1,068.22	253.34	5.217			
13,200.00	7,815.00	13,239.55	7,815.00	128.80	129.21	90.00	-738.79	5,407.76	1,321.57	1,063.72	257.85	5.125			
13,300.00	7,815.00	13,339.55	7,815.00	131.05	131.46	90.00	-738.88	5,507.76	1,321.58	1,059.22	262.36	5.037			
13,400.00	7,815.00	13,439.55	7,815.00	133.30	133.72	90.00	-738.97	5,607.76	1,321.59	1,054.72	266.87	4.952			
13,500.00	7,815.00	13,539.55	7,815.00	135.56	135.98	90.00	-739.05	5,707.76	1,321.60	1,050.21	271.39	4.870			
13,600.00	7,815.00	13,639.55	7,815.00	137.82	138.24	90.00	-739.14	5,807.76	1,321.61	1,045.70	275.90	4.790			
13,700.00	7,815.00	13,739.55	7,815.00	140.08	140.50	90.00	-739.23	5,907.76	1,321.62	1,041.19	280.43	4.713			
13,800.00	7,815.00	13,839.55	7,815.00	142.34	142.76	90.00	-739.32	6,007.76	1,321.62	1,036.67	284.95	4.638			
13,900.00	7,815.00	13,939.55	7,815.00	144.60	145.02	90.00	-739.41	6,107.76	1,321.63	1,032.15	289.48	4.566			
14,000.00	7,815.00	14,039.55	7,815.00	146.86	147.29	90.00	-739.50	6,207.76	1,321.64	1,027.63	294.01	4.495			
14,100.00	7,815.00	14,139.55	7,815.00	149.13	149.56	90.00	-739.59	6,307.76	1,321.65	1,023.10	298.55	4.427			
14,200.00	7,815.00	14,239.55	7,815.00	151.40	151.82	90.00	-739.67	6,407.76	1,321.66	1,018.58	303.08	4.361			
14,300.00	7,815.00	14,339.55	7,815.00	153.66	154.09	90.00	-739.76	6,507.76	1,321.67	1,014.05	307.62	4.296			
14,400.00	7,815.00	14,439.55	7,815.00	155.93	156.36	90.00	-739.85	6,607.76	1,321.68	1,009.51	312.16	4.234			
14,500.00	7,815.00	14,539.55	7,815.00	158.20	158.64	90.00	-739.94	6,707.76	1,321.69	1,004.98	316.71	4.173			
14,600.00	7,815.00	14,639.55	7,815.00	160.47	160.91	90.00	-740.03	6,807.76	1,321.70	1,000.44	321.25	4.114			
14,700.00	7,815.00	14,739.55	7,815.00	162.75	163.18	90.00	-740.12	6,907.76	1,321.70	995.90	325.80	4.057			
14,800.00	7,815.00	14,839.55	7,815.00	165.02	165.46	90.00	-740.21	7,007.76	1,321.71	991.36	330.35	4.001			
14,900.00	7,815.00	14,939.55	7,815.00	167.29	167.73	90.00	-740.29	7,107.76	1,321.72	986.82	334.90	3.947			
15,000.00	7,815.00	15,039.55	7,815.00	169.57	170.01	90.00	-740.38	7,207.76	1,321.73	982.28	339.46	3.894			
15,100.00	7,815.00	15,139.55	7,815.00	171.84	172.29	90.00	-740.47	7,307.76	1,321.74	977.73	344.01	3.842			
15,200.00	7,815.00	15,239.55	7,815.00	174.12	174.56	90.00	-740.56	7,407.76	1,321.75	973.18	348.57	3.792			
15,300.00	7,815.00	15,339.55	7,815.00	176.40	176.84	90.00	-740.65	7,507.76	1,321.76	968.63	353.13	3.743			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #126H - OH - Prelim A													Offset Site Error: 0.00 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	
15,400.00	7,815.00	15,439.55	7,815.00	178.68	179.12	90.00	-740.74	7,607.76	1,321.77	964.08	357.69	3.695	
15,500.00	7,815.00	15,539.55	7,815.00	180.96	181.40	90.00	-740.83	7,707.76	1,321.78	959.53	362.25	3.649	
15,600.00	7,815.00	15,639.55	7,815.00	183.24	183.68	90.00	-740.91	7,807.76	1,321.79	954.98	366.81	3.603	
15,700.00	7,815.00	15,739.55	7,815.00	185.52	185.97	90.00	-741.00	7,907.76	1,321.79	950.42	371.37	3.559	
15,800.00	7,815.00	15,839.55	7,815.00	187.80	188.25	90.00	-741.09	8,007.76	1,321.80	945.87	375.94	3.516	
15,900.00	7,815.00	15,939.55	7,815.00	190.08	190.53	90.00	-741.18	8,107.76	1,321.81	941.31	380.50	3.474	
16,000.00	7,815.00	16,039.55	7,815.00	192.36	192.82	90.00	-741.27	8,207.76	1,321.82	936.75	385.07	3.433	
16,100.00	7,815.00	16,139.55	7,815.00	194.65	195.10	90.00	-741.36	8,307.76	1,321.83	932.19	389.64	3.392	
16,200.00	7,815.00	16,239.55	7,815.00	196.93	197.39	90.00	-741.44	8,407.76	1,321.84	927.63	394.21	3.353	
16,300.00	7,815.00	16,339.55	7,815.00	199.21	199.67	90.00	-741.53	8,507.76	1,321.85	923.07	398.78	3.315	
16,400.00	7,815.00	16,439.55	7,815.00	201.50	201.96	90.00	-741.62	8,607.76	1,321.86	918.50	403.35	3.277	
16,500.00	7,815.00	16,539.55	7,815.00	203.79	204.24	90.00	-741.71	8,707.76	1,321.87	913.94	407.93	3.240	
16,600.00	7,815.00	16,639.55	7,815.00	206.07	206.53	90.00	-741.80	8,807.76	1,321.88	909.37	412.50	3.205	
16,700.00	7,815.00	16,739.55	7,815.00	208.36	208.82	90.00	-741.89	8,907.76	1,321.88	904.81	417.08	3.169	
16,800.00	7,815.00	16,839.55	7,815.00	210.65	211.11	90.00	-741.98	9,007.76	1,321.89	900.24	421.65	3.135	
16,900.00	7,815.00	16,939.55	7,815.00	212.93	213.39	90.00	-742.06	9,107.76	1,321.90	895.67	426.23	3.101	
17,000.00	7,815.00	17,039.55	7,815.00	215.22	215.68	90.00	-742.15	9,207.76	1,321.91	891.10	430.81	3.068	
17,100.00	7,815.00	17,139.55	7,815.00	217.51	217.97	90.00	-742.24	9,307.76	1,321.92	886.53	435.39	3.036	
17,200.00	7,815.00	17,239.55	7,815.00	219.80	220.26	90.00	-742.33	9,407.76	1,321.93	881.96	439.97	3.005	
17,300.00	7,815.00	17,339.55	7,815.00	222.09	222.55	90.00	-742.42	9,507.76	1,321.94	877.39	444.55	2.974	
17,400.00	7,815.00	17,439.55	7,815.00	224.38	224.84	90.00	-742.51	9,607.76	1,321.95	872.82	449.13	2.943	
17,500.00	7,815.00	17,539.55	7,815.00	226.67	227.13	90.00	-742.60	9,707.76	1,321.96	868.25	453.71	2.914	
17,600.00	7,815.00	17,639.55	7,815.00	228.96	229.42	90.00	-742.68	9,807.76	1,321.97	863.67	458.29	2.885	
17,700.00	7,815.00	17,739.55	7,815.00	231.25	231.72	90.00	-742.77	9,907.76	1,321.97	859.10	462.87	2.856	
17,800.00	7,815.00	17,839.55	7,815.00	233.54	234.01	90.00	-742.86	10,007.76	1,321.98	854.53	467.46	2.828	
17,900.00	7,815.00	17,939.55	7,815.00	235.83	236.30	90.00	-742.95	10,107.76	1,321.99	849.95	472.04	2.801	
17,952.07	7,815.00	17,991.62	7,815.00	237.02	237.49	90.00	-743.00	10,159.83	1,322.00	847.57	474.43	2.786 SF	

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design: Leatherneck 3029 Fed Com - #136H - OH - Prelim A													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HDGM													Offset Well Error: 0.00 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)					
0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.00	0.00	30.00				
100.00	100.00	100.00	100.00	0.13	0.13	0.00	30.00	0.00	30.00	29.74	0.26	117.047	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	30.00	0.00	30.00	29.03	0.97	30.825	
300.00	300.00	300.00	300.00	0.85	0.85	0.00	30.00	0.00	30.00	28.31	1.69	17.749	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	30.00	0.00	30.00	27.59	2.41	12.463	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	30.00	0.00	30.00	26.88	3.12	9.603	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	30.00	0.00	30.00	26.16	3.84	7.810	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	30.00	0.00	30.00	25.44	4.56	6.582	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	30.00	0.00	30.00	24.73	5.27	5.687	
900.00	900.00	900.00	900.00	3.00	3.00	0.00	30.00	0.00	30.00	24.01	5.99	5.007	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	0.00	30.00	0.00	30.00	23.29	6.71	4.472	
1,100.00	1,099.98	1,100.11	1,099.87	3.71	3.70	56.09	30.00	1.74	29.04	21.63	7.41	3.917	
1,200.00	1,199.86	1,200.41	1,199.51	4.07	4.05	71.63	30.00	5.22	27.75	19.64	8.11	3.420	
1,214.92	1,214.76	1,214.46	1,214.37	4.12	4.10	74.15	30.00	5.74	27.73	19.51	8.22	3.375 CC, ES	
1,300.00	1,299.73	1,300.75	1,299.11	4.42	4.40	88.25	30.00	8.70	28.59	19.78	8.82	3.243 SF	
1,400.00	1,399.59	1,401.09	1,398.71	4.78	4.75	102.80	30.00	12.18	31.62	22.10	9.52	3.321	
1,500.00	1,499.45	1,501.43	1,498.31	5.14	5.10	114.23	30.00	15.66	36.29	26.06	10.22	3.549	
1,600.00	1,599.31	1,601.76	1,597.91	5.49	5.46	122.81	30.00	19.13	42.06	31.13	10.93	3.848	
1,700.00	1,699.18	1,702.10	1,697.51	5.85	5.81	129.22	30.00	22.61	48.54	36.90	11.64	4.171	
1,800.00	1,799.04	1,802.44	1,797.11	6.21	6.17	134.08	30.00	26.09	55.47	43.13	12.35	4.493	
1,900.00	1,898.90	1,902.78	1,896.72	6.58	6.52	137.84	30.00	29.57	62.72	49.67	13.06	4.804	
2,000.00	1,998.77	2,003.12	1,996.32	6.94	6.88	140.81	30.00	33.05	70.18	56.42	13.77	5.098	
2,100.00	2,098.63	2,103.45	2,095.92	7.30	7.24	143.20	30.00	36.52	77.80	63.32	14.48	5.373	
2,200.00	2,198.49	2,196.21	2,195.52	7.66	7.57	145.17	30.00	40.00	85.52	70.35	15.17	5.639	
2,300.00	2,298.36	2,296.98	2,296.24	8.02	7.92	147.76	28.57	42.75	92.75	76.88	15.88	5.841	
2,400.00	2,398.22	2,397.60	2,396.75	8.38	8.27	151.90	24.04	43.82	99.11	82.53	16.58	5.978	
2,500.00	2,498.08	2,497.79	2,496.64	8.75	8.60	157.38	16.44	43.23	105.19	87.92	17.27	6.090	
2,600.00	2,597.87	2,597.01	2,595.26	9.11	8.94	164.17	5.89	40.99	112.42	94.46	17.96	6.259	
2,700.00	2,697.43	2,694.46	2,691.73	9.48	9.27	173.50	-7.39	37.22	123.24	104.60	18.64	6.612	
2,800.00	2,796.84	2,808.98	2,786.98	9.85	9.66	182.48	-22.47	32.43	138.37	119.01	19.36	7.146	
2,900.00	2,896.26	2,887.66	2,882.31	10.21	9.93	189.65	-37.63	27.61	156.29	136.32	19.97	7.827	
3,000.00	2,995.67	2,984.30	2,977.63	10.58	10.28	195.32	-52.78	22.79	176.15	155.51	20.64	8.535	
3,100.00	3,095.08	3,080.94	3,072.96	10.96	10.63	199.83	-67.94	17.96	197.36	176.04	21.31	9.259	
3,200.00	3,194.49	3,177.59	3,168.28	11.33	10.98	173.47	-83.09	13.14	219.53	197.53	22.00	9.980	
3,300.00	3,293.90	3,274.23	3,263.61	11.70	11.34	176.44	-98.25	8.32	242.39	219.71	22.68	10.688	
3,400.00	3,393.32	3,370.87	3,358.93	12.07	11.70	178.89	-113.40	3.50	265.78	242.41	23.37	11.373	
3,500.00	3,492.73	3,467.51	3,454.26	12.45	12.07	-179.04	-128.55	-1.33	289.55	265.49	24.06	12.034	
3,600.00	3,592.14	3,564.16	3,549.58	12.82	12.44	-177.30	-143.71	-6.15	313.63	288.88	24.76	12.689	
3,700.00	3,691.55	3,660.80	3,644.91	13.20	12.81	-175.79	-158.86	-10.97	337.95	312.50	25.45	13.278	
3,800.00	3,790.96	3,757.44	3,740.23	13.57	13.18	-174.49	-174.02	-15.80	362.46	336.31	26.15	13.860	
3,900.00	3,890.38	3,854.08	3,835.56	13.95	13.56	-173.36	-189.17	-20.62	387.12	360.27	26.85	14.417	
4,000.00	3,989.79	3,950.73	3,930.88	14.33	13.94	-172.36	-204.33	-25.44	411.91	384.35	27.55	14.949	
4,100.00	4,089.20	4,047.37	4,026.21	14.71	14.32	-171.47	-219.48	-30.26	436.80	408.54	28.26	15.457	
4,200.00	4,188.61	4,144.01	4,121.53	15.08	14.70	-170.68	-234.63	-35.09	461.78	432.82	28.96	15.943	
4,300.00	4,288.02	4,240.65	4,216.85	15.46	15.09	-169.97	-249.79	-39.91	486.83	457.16	29.67	16.408	
4,400.00	4,387.44	4,337.30	4,312.18	15.84	15.47	-169.33	-264.94	-44.73	511.95	481.58	30.38	16.852	
4,500.00	4,486.85	4,433.94	4,407.50	16.22	15.86	-168.75	-280.10	-49.55	537.13	506.04	31.09	17.278	
4,600.00	4,586.26	4,530.58	4,502.83	16.60	16.25	-168.22	-295.25	-54.38	562.35	530.55	31.80	17.685	
4,700.00	4,685.67	4,627.22	4,598.15	16.98	16.64	-167.74	-310.41	-59.20	587.61	555.10	32.51	18.076	
4,800.00	4,785.08	4,723.86	4,693.48	17.36	17.03	-167.29	-325.56	-64.02	612.91	579.69	33.22	18.450	
4,900.00	4,884.50	4,820.51	4,788.80	17.74	17.42	-166.88	-340.72	-68.84	638.24	604.30	33.93	18.809	
5,000.00	4,983.91	4,917.15	4,884.13	18.12	17.81	-166.51	-355.87	-73.67	663.59	628.95	34.65	19.154	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #136H - OH - Prelim A											Offset Site Error: 0.00 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
5,100.00	5,083.32	5,013.79	4,979.45	18.50	18.20	-166.16	-371.02	-78.49	688.98	653.62	35.36	19.485	
5,200.00	5,182.73	5,110.43	5,074.78	18.88	18.60	-165.83	-386.18	-83.31	714.38	678.31	36.07	19.803	
5,300.00	5,282.14	5,207.08	5,170.10	19.26	18.99	-165.53	-401.33	-88.13	739.81	703.02	36.79	20.109	
5,400.00	5,381.56	5,303.72	5,265.43	19.64	19.39	-165.24	-416.49	-92.96	765.25	727.74	37.51	20.404	
5,500.00	5,480.97	5,400.36	5,360.75	20.02	19.79	-164.98	-431.64	-97.78	790.71	752.49	38.22	20.688	
5,600.00	5,580.38	5,497.00	5,456.08	20.40	20.18	-164.73	-446.80	-102.60	816.18	777.24	38.94	20.961	
5,700.00	5,679.79	5,606.35	5,551.40	20.78	20.63	-164.50	-461.95	-107.42	841.67	801.97	39.70	21.199	
5,800.00	5,779.34	5,690.61	5,647.04	21.16	20.98	-164.37	-477.15	-112.26	865.85	825.48	40.37	21.446	
5,900.00	5,879.16	5,788.29	5,743.39	21.52	21.38	-164.19	-492.47	-117.14	886.79	845.70	41.09	21.582	
6,000.00	5,979.12	5,886.56	5,840.33	21.88	21.79	-163.95	-507.88	-122.04	904.47	862.66	41.81	21.635	
6,100.00	6,079.12	5,985.19	5,937.61	22.22	22.20	176.59	-523.35	-126.96	919.91	877.38	42.52	21.634	
6,200.00	6,179.12	6,083.83	6,034.90	22.57	22.61	176.95	-538.81	-131.89	935.31	892.07	43.24	21.632	
6,300.00	6,279.12	6,182.46	6,132.19	22.91	23.02	177.30	-554.28	-136.81	950.74	906.79	43.95	21.631	
6,400.00	6,379.12	6,281.10	6,229.49	23.26	23.43	177.64	-569.75	-141.73	966.21	921.55	44.67	21.631	
6,500.00	6,479.12	6,379.74	6,326.78	23.60	23.84	177.97	-585.22	-146.65	981.72	936.33	45.39	21.631	
6,600.00	6,579.12	6,478.38	6,424.07	23.95	24.25	178.29	-600.68	-151.57	997.25	951.15	46.10	21.631	
6,700.00	6,679.12	6,577.01	6,521.36	24.30	24.66	178.60	-616.15	-156.50	1,012.81	965.99	46.82	21.632	
6,800.00	6,779.12	6,675.65	6,618.66	24.64	25.07	178.90	-631.62	-161.42	1,028.40	980.87	47.54	21.634	
6,900.00	6,879.12	6,774.29	6,715.95	24.99	25.48	179.19	-647.08	-166.34	1,044.02	995.76	48.25	21.636	
7,000.00	6,979.12	6,872.92	6,813.24	25.34	25.89	179.47	-662.55	-171.26	1,059.66	1,010.69	48.97	21.638	
7,100.00	7,079.12	6,971.56	6,910.53	25.69	26.31	179.74	-678.02	-176.18	1,075.33	1,025.64	49.69	21.641	
7,200.00	7,179.12	7,070.20	7,007.82	26.03	26.72	-179.99	-693.49	-181.11	1,091.02	1,040.61	50.41	21.643	
7,300.00	7,278.92	7,213.11	7,149.18	26.38	27.30	122.59	-713.45	-187.46	1,107.74	1,056.27	51.47	21.524	
7,400.00	7,376.45	7,365.76	7,301.10	26.71	27.88	122.45	-727.41	-191.90	1,128.71	1,076.23	52.48	21.508	
7,500.00	7,468.78	7,513.59	7,448.78	27.03	28.41	122.73	-733.56	-193.86	1,154.71	1,101.38	53.33	21.650	
7,600.00	7,553.10	7,617.91	7,553.10	27.32	28.73	122.20	-734.00	-194.00	1,187.48	1,133.53	53.95	22.012	
7,700.00	7,626.93	7,708.26	7,626.93	27.61	29.01	118.68	-734.00	-194.00	1,230.13	1,175.63	54.50	22.571	
7,800.00	7,690.25	7,755.07	7,690.25	27.95	29.15	110.93	-734.00	-194.00	1,275.34	1,220.44	54.90	23.230	
7,900.00	7,742.08	7,806.90	7,742.08	28.39	29.31	104.78	-734.00	-194.00	1,320.13	1,264.79	55.34	23.855	
8,000.00	7,780.85	7,845.66	7,780.85	28.94	29.43	99.55	-734.00	-194.00	1,364.63	1,308.86	55.77	24.469	
8,100.00	7,805.36	7,870.18	7,805.36	29.59	29.51	94.84	-734.00	-194.00	1,408.69	1,352.50	56.19	25.070	
8,200.00	7,814.89	7,879.70	7,814.89	30.35	29.54	90.51	-734.00	-194.00	1,451.81	1,395.22	56.60	25.651	
8,300.00	7,815.00	7,879.82	7,815.00	31.20	29.54	90.00	-734.00	-194.00	1,496.10	1,439.09	57.01	26.242	
8,400.00	7,815.00	7,879.82	7,815.00	32.20	29.54	90.00	-734.00	-194.00	1,545.54	1,488.07	57.47	26.895	
8,500.00	7,815.00	7,879.82	7,815.00	33.32	29.54	90.00	-734.00	-194.00	1,599.71	1,541.77	57.94	27.610	
8,600.00	7,815.00	7,879.82	7,815.00	34.56	29.54	90.00	-734.00	-194.00	1,658.14	1,599.72	58.42	28.384	
8,700.00	7,815.00	7,879.82	7,815.00	35.91	29.54	90.00	-734.00	-194.00	1,720.41	1,661.52	58.89	29.214	
8,800.00	7,815.00	7,879.82	7,815.00	37.35	29.54	90.00	-734.00	-194.00	1,786.11	1,726.76	59.35	30.095	
8,900.00	7,815.00	10,230.68	9,110.00	38.87	42.16	134.42	-735.13	1,107.78	1,850.12	1,788.09	62.02	29.829	
9,000.00	7,815.00	10,330.68	9,110.00	40.47	43.68	134.42	-735.22	1,207.78	1,850.12	1,785.79	64.34	28.758	
9,100.00	7,815.00	10,430.68	9,110.00	42.13	45.27	134.42	-735.30	1,307.78	1,850.13	1,783.38	66.75	27.718	
9,200.00	7,815.00	10,530.68	9,110.00	43.86	46.91	134.42	-735.39	1,407.78	1,850.13	1,780.88	69.25	26.716	
9,300.00	7,815.00	10,630.68	9,110.00	45.63	48.61	134.42	-735.48	1,507.78	1,850.14	1,778.30	71.84	25.754	
9,400.00	7,815.00	10,730.68	9,110.00	47.45	50.35	134.42	-735.57	1,607.78	1,850.14	1,775.65	74.50	24.835	
9,500.00	7,815.00	10,830.68	9,110.00	49.31	52.14	134.42	-735.65	1,707.78	1,850.15	1,772.93	77.22	23.959	
9,600.00	7,815.00	10,930.68	9,110.00	51.21	53.97	134.42	-735.74	1,807.78	1,850.15	1,770.15	80.01	23.125	
9,700.00	7,815.00	11,030.68	9,110.00	53.14	55.84	134.42	-735.83	1,907.78	1,850.16	1,767.32	82.84	22.334	
9,800.00	7,815.00	11,130.68	9,110.00	55.10	57.73	134.42	-735.91	2,007.78	1,850.16	1,764.44	85.73	21.582	
9,900.00	7,815.00	11,230.68	9,110.00	57.08	59.66	134.42	-736.00	2,107.78	1,850.17	1,761.52	88.65	20.870	
10,000.00	7,815.00	11,330.68	9,110.00	59.09	61.61	134.42	-736.09	2,207.78	1,850.18	1,758.56	91.62	20.194	
10,100.00	7,815.00	11,430.68	9,110.00	61.12	63.59	134.42	-736.17	2,307.78	1,850.18	1,755.56	94.62	19.554	
10,200.00	7,815.00	11,530.68	9,110.00	63.17	65.58	134.42	-736.26	2,407.78	1,850.19	1,752.53	97.65	18.946	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
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Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #136H - OH - Prelim A													Offset Site Error: 0.00 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
10,300.00	7,815.00	11,630.68	9,110.00	65.24	67.60	134.42	-736.35	2,507.78	1,850.19	1,749.47	100.72	18.370	
10,400.00	7,815.00	11,730.68	9,110.00	67.32	69.63	134.42	-736.43	2,607.78	1,850.20	1,746.39	103.80	17.824	
10,500.00	7,815.00	11,830.68	9,110.00	69.42	71.69	134.42	-736.52	2,707.78	1,850.20	1,743.28	106.92	17.305	
10,600.00	7,815.00	11,930.68	9,110.00	71.53	73.75	134.42	-736.61	2,807.78	1,850.21	1,740.15	110.05	16.812	
10,700.00	7,815.00	12,030.68	9,110.00	73.65	75.83	134.42	-736.70	2,907.78	1,850.21	1,737.00	113.21	16.343	
10,800.00	7,815.00	12,130.68	9,110.00	75.78	77.93	134.42	-736.78	3,007.78	1,850.22	1,733.83	116.38	15.898	
10,900.00	7,815.00	12,230.68	9,110.00	77.92	80.03	134.42	-736.87	3,107.78	1,850.22	1,730.65	119.58	15.473	
11,000.00	7,815.00	12,330.68	9,110.00	80.08	82.15	134.42	-736.96	3,207.78	1,850.23	1,727.45	122.78	15.069	
11,100.00	7,815.00	12,430.68	9,110.00	82.24	84.27	134.42	-737.04	3,307.78	1,850.23	1,724.23	126.00	14.684	
11,200.00	7,815.00	12,530.68	9,110.00	84.40	86.41	134.42	-737.13	3,407.78	1,850.24	1,721.00	129.24	14.316	
11,300.00	7,815.00	12,630.68	9,110.00	86.58	88.55	134.42	-737.22	3,507.78	1,850.24	1,717.76	132.49	13.965	
11,400.00	7,815.00	12,730.68	9,110.00	88.76	90.71	134.42	-737.30	3,607.78	1,850.25	1,714.50	135.75	13.630	
11,500.00	7,815.00	12,830.68	9,110.00	90.95	92.87	134.42	-737.39	3,707.78	1,850.25	1,711.24	139.02	13.309	
11,600.00	7,815.00	12,930.68	9,110.00	93.14	95.03	134.42	-737.48	3,807.78	1,850.26	1,707.96	142.30	13.003	
11,700.00	7,815.00	13,030.68	9,110.00	95.34	97.21	134.42	-737.56	3,907.78	1,850.26	1,704.67	145.59	12.709	
11,800.00	7,815.00	13,130.68	9,110.00	97.55	99.39	134.42	-737.65	4,007.78	1,850.27	1,701.38	148.89	12.427	
11,900.00	7,815.00	13,230.68	9,110.00	99.76	101.57	134.42	-737.74	4,107.78	1,850.28	1,698.08	152.20	12.157	
12,000.00	7,815.00	13,330.68	9,110.00	101.97	103.76	134.42	-737.82	4,207.78	1,850.28	1,694.77	155.51	11.898	
12,100.00	7,815.00	13,430.68	9,110.00	104.19	105.96	134.42	-737.91	4,307.78	1,850.29	1,691.45	158.83	11.649	
12,200.00	7,815.00	13,530.68	9,110.00	106.41	108.16	134.42	-738.00	4,407.78	1,850.29	1,688.13	162.16	11.410	
12,300.00	7,815.00	13,630.68	9,110.00	108.64	110.36	134.42	-738.09	4,507.78	1,850.30	1,684.80	165.50	11.180	
12,400.00	7,815.00	13,730.68	9,110.00	110.87	112.57	134.42	-738.17	4,607.78	1,850.30	1,681.46	168.84	10.959	
12,500.00	7,815.00	13,830.68	9,110.00	113.10	114.78	134.42	-738.26	4,707.78	1,850.31	1,678.12	172.19	10.746	
12,600.00	7,815.00	13,930.68	9,110.00	115.33	117.00	134.42	-738.35	4,807.78	1,850.31	1,674.77	175.54	10.541	
12,700.00	7,815.00	14,030.68	9,110.00	117.57	119.22	134.42	-738.43	4,907.78	1,850.32	1,671.42	178.90	10.343	
12,800.00	7,815.00	14,130.68	9,110.00	119.81	121.44	134.42	-738.52	5,007.78	1,850.32	1,668.07	182.26	10.152	
12,900.00	7,815.00	14,230.68	9,110.00	122.05	123.67	134.42	-738.61	5,107.78	1,850.33	1,664.70	185.62	9.968	
13,000.00	7,815.00	14,330.68	9,110.00	124.30	125.90	134.42	-738.69	5,207.78	1,850.33	1,661.34	188.99	9.790	
13,100.00	7,815.00	14,430.68	9,110.00	126.55	128.13	134.42	-738.78	5,307.78	1,850.34	1,657.97	192.37	9.619	
13,200.00	7,815.00	14,530.68	9,110.00	128.80	130.37	134.42	-738.87	5,407.78	1,850.34	1,654.60	195.75	9.453	
13,300.00	7,815.00	14,630.68	9,110.00	131.05	132.60	134.42	-738.95	5,507.78	1,850.35	1,651.22	199.13	9.292	
13,400.00	7,815.00	14,730.68	9,110.00	133.30	134.84	134.42	-739.04	5,607.78	1,850.35	1,647.84	202.52	9.137	
13,500.00	7,815.00	14,830.68	9,110.00	135.56	137.08	134.42	-739.13	5,707.78	1,850.36	1,644.45	205.90	8.986	
13,600.00	7,815.00	14,930.68	9,110.00	137.82	139.33	134.42	-739.21	5,807.78	1,850.37	1,641.07	209.30	8.841	
13,700.00	7,815.00	15,030.68	9,110.00	140.08	141.58	134.42	-739.30	5,907.78	1,850.37	1,637.68	212.69	8.700	
13,800.00	7,815.00	15,130.68	9,110.00	142.34	143.82	134.42	-739.39	6,007.78	1,850.38	1,634.29	216.09	8.563	
13,900.00	7,815.00	15,230.68	9,110.00	144.60	146.07	134.42	-739.48	6,107.78	1,850.38	1,630.89	219.49	8.430	
14,000.00	7,815.00	15,330.68	9,110.00	146.86	148.33	134.42	-739.56	6,207.78	1,850.39	1,627.49	222.89	8.302	
14,100.00	7,815.00	15,430.68	9,110.00	149.13	150.58	134.42	-739.65	6,307.78	1,850.39	1,624.09	226.30	8.177	
14,200.00	7,815.00	15,530.68	9,110.00	151.40	152.83	134.41	-739.74	6,407.78	1,850.40	1,620.69	229.71	8.055	
14,300.00	7,815.00	15,630.68	9,110.00	153.66	155.09	134.41	-739.82	6,507.78	1,850.40	1,617.28	233.12	7.938	
14,400.00	7,815.00	15,730.68	9,110.00	155.93	157.35	134.41	-739.91	6,607.78	1,850.41	1,613.88	236.53	7.823	
14,500.00	7,815.00	15,830.68	9,110.00	158.20	159.61	134.41	-740.00	6,707.78	1,850.41	1,610.47	239.94	7.712	
14,600.00	7,815.00	15,930.68	9,110.00	160.47	161.87	134.41	-740.08	6,807.78	1,850.42	1,607.06	243.36	7.604	
14,700.00	7,815.00	16,030.68	9,110.00	162.75	164.13	134.41	-740.17	6,907.78	1,850.42	1,603.64	246.78	7.498	
14,800.00	7,815.00	16,130.68	9,110.00	165.02	166.40	134.41	-740.26	7,007.78	1,850.43	1,600.23	250.20	7.396	
14,900.00	7,815.00	16,230.68	9,110.00	167.29	168.66	134.41	-740.34	7,107.78	1,850.43	1,596.81	253.62	7.296	
15,000.00	7,815.00	16,330.68	9,110.00	169.57	170.93	134.41	-740.43	7,207.78	1,850.44	1,593.40	257.04	7.199	
15,100.00	7,815.00	16,430.68	9,110.00	171.84	173.20	134.41	-740.52	7,307.78	1,850.44	1,589.98	260.47	7.104	
15,200.00	7,815.00	16,530.68	9,110.00	174.12	175.46	134.41	-740.61	7,407.78	1,850.45	1,586.55	263.90	7.012	
15,300.00	7,815.00	16,630.68	9,110.00	176.40	177.73	134.41	-740.69	7,507.78	1,850.45	1,583.13	267.32	6.922	
15,400.00	7,815.00	16,730.68	9,110.00	178.68	180.00	134.41	-740.78	7,607.78	1,850.46	1,579.71	270.75	6.834	

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 #125H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#125H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #136H - OH - Prelim A													Offset Site Error:	0.00 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		
15,500.00	7,815.00	16,830.68	9,110.00	180.96	182.27	134.41	-740.87	7,707.78	1,850.47	1,576.28	274.18	6.749		
15,600.00	7,815.00	16,930.68	9,110.00	183.24	184.55	134.41	-740.95	7,807.78	1,850.47	1,572.85	277.62	6.666		
15,700.00	7,815.00	17,030.68	9,110.00	185.52	186.82	134.41	-741.04	7,907.78	1,850.48	1,569.43	281.05	6.584		
15,800.00	7,815.00	17,130.68	9,110.00	187.80	189.09	134.41	-741.13	8,007.78	1,850.48	1,566.00	284.48	6.505		
15,900.00	7,815.00	17,230.68	9,110.00	190.08	191.37	134.41	-741.21	8,107.78	1,850.49	1,562.57	287.92	6.427		
16,000.00	7,815.00	17,330.68	9,110.00	192.36	193.64	134.41	-741.30	8,207.78	1,850.49	1,559.13	291.36	6.351		
16,100.00	7,815.00	17,430.68	9,110.00	194.65	195.92	134.41	-741.39	8,307.78	1,850.50	1,555.70	294.80	6.277		
16,200.00	7,815.00	17,530.68	9,110.00	196.93	198.20	134.41	-741.47	8,407.78	1,850.50	1,552.27	298.24	6.205		
16,300.00	7,815.00	17,630.68	9,110.00	199.21	200.48	134.41	-741.56	8,507.78	1,850.51	1,548.83	301.68	6.134		
16,400.00	7,815.00	17,730.68	9,110.00	201.50	202.75	134.41	-741.65	8,607.78	1,850.51	1,545.40	305.12	6.065		
16,500.00	7,815.00	17,830.68	9,110.00	203.79	205.03	134.41	-741.73	8,707.78	1,850.52	1,541.96	308.56	5.997		
16,600.00	7,815.00	17,930.68	9,110.00	206.07	207.31	134.41	-741.82	8,807.78	1,850.52	1,538.52	312.00	5.931		
16,700.00	7,815.00	18,030.68	9,110.00	208.36	209.59	134.41	-741.91	8,907.78	1,850.53	1,535.08	315.45	5.866		
16,800.00	7,815.00	18,130.68	9,110.00	210.65	211.88	134.41	-742.00	9,007.78	1,850.53	1,531.64	318.89	5.803		
16,900.00	7,815.00	18,230.68	9,110.00	212.93	214.16	134.41	-742.08	9,107.78	1,850.54	1,528.20	322.34	5.741		
17,000.00	7,815.00	18,330.68	9,110.00	215.22	216.44	134.41	-742.17	9,207.78	1,850.54	1,524.76	325.78	5.680		
17,100.00	7,815.00	18,430.68	9,110.00	217.51	218.72	134.41	-742.26	9,307.78	1,850.55	1,521.32	329.23	5.621		
17,200.00	7,815.00	18,530.68	9,110.00	219.80	221.01	134.41	-742.34	9,407.78	1,850.56	1,517.88	332.68	5.563		
17,300.00	7,815.00	18,630.68	9,110.00	222.09	223.29	134.41	-742.43	9,507.78	1,850.56	1,514.43	336.13	5.506		
17,400.00	7,815.00	18,730.68	9,110.00	224.38	225.57	134.41	-742.52	9,607.78	1,850.57	1,510.99	339.58	5.450		
17,500.00	7,815.00	18,830.68	9,110.00	226.67	227.86	134.41	-742.60	9,707.78	1,850.57	1,507.54	343.03	5.395		
17,600.00	7,815.00	18,930.68	9,110.00	228.96	230.14	134.41	-742.69	9,807.78	1,850.58	1,504.10	346.48	5.341		
17,700.00	7,815.00	19,030.68	9,110.00	231.25	232.43	134.41	-742.78	9,907.78	1,850.58	1,500.65	349.93	5.288		
17,800.00	7,815.00	19,130.68	9,110.00	233.54	234.72	134.41	-742.86	10,007.78	1,850.59	1,497.20	353.38	5.237		
17,900.00	7,815.00	19,230.68	9,110.00	235.83	237.00	134.41	-742.95	10,107.78	1,850.59	1,493.75	356.84	5.186		
17,952.07	7,815.00	19,282.75	9,110.00	237.02	238.19	134.41	-743.00	10,159.85	1,850.59	1,491.96	358.64	5.160		

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #206H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
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)					
0.00	0.00	1.00	1.00	0.00	0.00	-45.00	30.00	-30.00	42.43				
100.00	100.00	101.00	101.00	0.13	0.13	-45.00	30.00	-30.00	42.43	42.17	0.26	163.246	
200.00	200.00	201.00	201.00	0.49	0.49	-45.00	30.00	-30.00	42.43	41.45	0.98	43.433	
300.00	300.00	301.00	301.00	0.85	0.85	-45.00	30.00	-30.00	42.43	40.73	1.69	25.048	
400.00	400.00	401.00	401.00	1.20	1.21	-45.00	30.00	-30.00	42.43	40.02	2.41	17.599	
500.00	500.00	501.00	501.00	1.56	1.57	-45.00	30.00	-30.00	42.43	39.30	3.13	13.565	
600.00	600.00	601.00	601.00	1.92	1.92	-45.00	30.00	-30.00	42.43	38.58	3.84	11.035	
700.00	700.00	701.00	701.00	2.28	2.28	-45.00	30.00	-30.00	42.43	37.86	4.56	9.301	
800.00	800.00	801.00	801.00	2.64	2.64	-45.00	30.00	-30.00	42.43	37.15	5.28	8.038	
900.00	900.00	901.00	901.00	3.00	3.00	-45.00	30.00	-30.00	42.43	36.43	6.00	7.076	
1,000.00	1,000.00	1,001.00	1,001.00	3.35	3.36	-45.00	30.00	-30.00	42.43	35.71	6.71	6.321	
1,100.00	1,099.98	1,100.46	1,100.44	3.71	3.70	2.92	29.26	-31.60	41.32	33.91	7.41	5.575	
1,200.00	1,199.86	1,200.35	1,200.27	4.07	4.04	-1.60	27.78	-34.76	37.96	29.86	8.10	4.685	
1,300.00	1,299.73	1,300.23	1,300.09	4.42	4.38	-7.04	26.31	-37.91	34.44	25.65	8.80	3.916	
1,400.00	1,399.59	1,400.11	1,399.91	4.78	4.72	-13.63	24.84	-41.07	31.31	21.82	9.49	3.298	
1,500.00	1,499.45	1,500.01	1,499.72	5.14	5.07	-21.56	23.36	-44.23	28.67	18.48	10.19	2.813	
1,600.00	1,599.31	1,600.13	1,599.54	5.49	5.42	-30.87	21.89	-47.39	26.69	15.80	10.89	2.450	
1,700.00	1,699.18	1,700.25	1,699.36	5.85	5.77	-41.35	20.42	-50.55	25.51	13.91	11.60	2.199	
1,777.46	1,776.53	1,777.11	1,776.68	6.13	6.04	-49.91	19.28	-53.00	25.23	13.08	12.15	2.077 CC	
1,800.00	1,799.04	1,800.37	1,799.18	6.21	6.12	-52.42	18.94	-53.71	25.25	12.94	12.31	2.051	
1,900.00	1,898.90	1,900.49	1,899.00	6.58	6.48	-63.31	17.47	-56.87	25.94	12.91	13.02	1.991 ES, SF	
2,000.00	1,998.77	2,000.61	1,998.82	6.94	6.83	-73.31	16.00	-60.03	27.49	13.75	13.74	2.001	
2,100.00	2,098.63	2,100.74	2,098.64	7.30	7.19	-82.01	14.52	-63.19	29.79	15.33	14.46	2.060	
2,200.00	2,198.49	2,200.86	2,198.45	7.66	7.54	-89.32	13.05	-66.35	32.67	17.49	15.18	2.152	
2,300.00	2,298.36	2,299.02	2,298.27	8.02	7.89	-95.37	11.58	-69.51	35.99	20.10	15.89	2.265	
2,400.00	2,398.22	2,401.10	2,398.09	8.38	8.26	-100.35	10.10	-72.67	39.64	23.02	16.62	2.385	
2,500.00	2,498.08	2,498.78	2,497.91	8.75	8.61	-104.47	8.63	-75.82	43.54	26.21	17.33	2.513	
2,600.00	2,597.87	2,597.07	2,596.10	9.11	8.96	-129.73	5.58	-78.74	50.66	32.64	18.03	2.811	
2,700.00	2,697.43	2,694.16	2,692.95	9.48	9.30	-144.96	-0.72	-81.21	64.57	45.87	18.70	3.453	
2,800.00	2,796.84	2,790.20	2,788.50	9.85	9.64	-149.45	-10.11	-83.26	83.64	64.30	19.34	4.324	
2,900.00	2,896.26	2,887.94	2,885.64	10.21	9.99	-152.49	-20.86	-85.19	104.20	84.16	20.04	5.199	
3,000.00	2,995.67	2,985.69	2,982.77	10.58	10.34	-154.53	-31.60	-87.13	124.95	104.21	20.74	6.025	
3,100.00	3,095.08	3,083.43	3,079.90	10.96	10.69	-155.99	-42.34	-89.07	145.80	124.36	21.44	6.801	
3,200.00	3,194.49	3,181.17	3,177.03	11.33	11.04	-157.08	-53.08	-91.01	166.73	144.59	22.14	7.531	
3,300.00	3,293.90	3,278.92	3,274.16	11.70	11.40	-157.93	-63.82	-92.95	187.69	164.85	22.84	8.217	
3,400.00	3,393.32	3,376.66	3,371.30	12.07	11.76	-158.61	-74.56	-94.88	208.69	185.15	23.55	8.863	
3,500.00	3,492.73	3,474.40	3,468.43	12.45	12.12	-159.17	-85.31	-96.82	229.72	205.47	24.25	9.472	
3,600.00	3,592.14	3,572.15	3,565.56	12.82	12.48	-159.63	-96.05	-98.76	250.76	225.80	24.96	10.048	
3,700.00	3,691.55	3,669.89	3,662.69	13.20	12.84	-160.02	-106.79	-100.70	271.81	246.14	25.66	10.591	
3,800.00	3,790.96	3,767.63	3,759.82	13.57	13.20	-160.35	-117.53	-102.63	292.87	266.50	26.37	11.106	
3,900.00	3,890.38	3,865.38	3,856.96	13.95	13.57	-160.64	-128.27	-104.57	313.94	286.86	27.08	11.593	
4,000.00	3,989.79	3,963.12	3,954.09	14.33	13.94	-160.89	-139.02	-106.51	335.02	307.23	27.79	12.056	
4,100.00	4,089.20	4,060.86	4,051.22	14.71	14.30	-161.12	-149.76	-108.45	356.11	327.61	28.50	12.495	
4,200.00	4,188.61	4,158.61	4,148.35	15.08	14.67	-161.32	-160.50	-110.39	377.19	347.98	29.21	12.913	
4,300.00	4,288.02	4,256.35	4,245.48	15.46	15.04	-161.49	-171.24	-112.32	398.29	368.36	29.92	13.311	
4,400.00	4,387.44	4,354.09	4,342.62	15.84	15.41	-161.65	-181.98	-114.26	419.38	388.75	30.63	13.690	
4,500.00	4,486.85	4,451.84	4,439.75	16.22	15.78	-161.80	-192.72	-116.20	440.48	409.13	31.35	14.052	
4,600.00	4,586.26	4,549.58	4,536.88	16.60	16.15	-161.93	-203.47	-118.14	461.58	429.52	32.06	14.398	
4,700.00	4,685.67	4,647.32	4,634.01	16.98	16.52	-162.05	-214.21	-120.07	482.68	449.91	32.77	14.729	
4,800.00	4,785.08	4,745.07	4,731.14	17.36	16.89	-162.16	-224.95	-122.01	503.79	470.30	33.49	15.045	
4,900.00	4,884.50	4,842.81	4,828.28	17.74	17.26	-162.26	-235.69	-123.95	524.89	490.69	34.20	15.348	
5,000.00	4,983.91	4,940.55	4,925.41	18.12	17.64	-162.35	-246.43	-125.89	546.00	511.09	34.91	15.639	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #206H - OH - Prelim A													Offset Site Error:	0.00 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		
5,100.00	5,083.32	5,038.30	5,022.54	18.50	18.01	-162.43	-257.17	-127.83	567.11	531.48	35.63	15.917		
5,200.00	5,182.73	5,136.04	5,119.67	18.88	18.39	-162.51	-267.92	-129.76	588.22	551.88	36.34	16.185		
5,300.00	5,282.14	5,233.78	5,216.80	19.26	18.76	-162.59	-278.66	-131.70	609.33	572.27	37.06	16.442		
5,400.00	5,381.56	5,331.53	5,313.93	19.64	19.13	-162.66	-289.40	-133.64	630.44	592.67	37.77	16.690		
5,500.00	5,480.97	5,429.27	5,411.07	20.02	19.51	-162.72	-300.14	-135.58	651.55	613.06	38.49	16.928		
5,600.00	5,580.38	5,527.01	5,508.20	20.40	19.88	-162.78	-310.88	-137.51	672.67	633.46	39.21	17.157		
5,700.00	5,679.79	5,624.76	5,605.33	20.78	20.26	-162.84	-321.63	-139.45	693.78	653.86	39.92	17.378		
5,800.00	5,779.34	5,722.77	5,702.73	21.16	20.64	-162.97	-332.40	-141.40	713.57	672.93	40.64	17.558		
5,900.00	5,879.16	5,821.39	5,800.73	21.52	21.02	-163.00	-343.23	-143.35	730.10	688.75	41.36	17.654		
6,000.00	5,979.12	5,920.49	5,899.21	21.88	21.40	-162.94	-354.13	-145.32	743.33	701.26	42.07	17.669		
6,100.00	6,079.12	6,019.86	5,997.96	22.22	21.78	177.42	-365.05	-147.29	754.29	711.51	42.78	17.631		
6,200.00	6,179.12	6,119.23	6,096.71	22.57	22.17	177.61	-375.97	-149.26	765.19	721.70	43.49	17.593		
6,300.00	6,279.12	6,218.60	6,195.47	22.91	22.55	177.79	-386.89	-151.23	776.09	731.89	44.21	17.556		
6,400.00	6,379.12	6,317.98	6,294.22	23.26	22.93	177.96	-397.81	-153.20	787.01	742.09	44.92	17.520		
6,500.00	6,479.12	6,417.35	6,392.97	23.60	23.32	178.13	-408.73	-155.17	797.92	752.29	45.63	17.486		
6,600.00	6,579.12	6,516.73	6,491.72	23.95	23.70	178.30	-419.65	-157.14	808.85	762.50	46.35	17.452		
6,700.00	6,679.12	6,616.10	6,590.48	24.30	24.09	178.46	-430.57	-159.11	819.78	772.72	47.06	17.420		
6,800.00	6,779.12	6,715.48	6,689.23	24.64	24.47	178.62	-441.49	-161.08	830.72	782.95	47.77	17.389		
6,900.00	6,879.12	6,814.85	6,787.98	24.99	24.85	178.77	-452.41	-163.05	841.67	793.18	48.49	17.358		
7,000.00	6,979.12	6,914.23	6,886.74	25.34	25.24	178.92	-463.34	-165.02	852.62	803.41	49.20	17.329		
7,100.00	7,079.12	7,013.60	6,985.49	25.69	25.62	179.06	-474.26	-166.99	863.57	813.65	49.92	17.300		
7,200.00	7,179.12	7,112.98	7,084.24	26.03	26.01	179.21	-485.18	-168.96	874.53	823.90	50.63	17.272		
7,300.00	7,278.92	7,211.78	7,182.43	26.38	26.39	121.69	-496.04	-170.92	888.03	836.70	51.34	17.298		
7,400.00	7,378.45	7,307.06	7,277.12	26.71	26.76	120.99	-506.51	-172.80	910.46	858.45	52.01	17.505		
7,500.00	7,468.78	7,395.90	7,365.40	27.03	27.11	120.09	-516.27	-174.57	942.32	889.68	52.64	17.901		
7,600.00	7,553.10	7,475.59	7,444.59	27.32	27.42	118.60	-525.03	-176.15	983.87	930.66	53.21	18.489		
7,700.00	7,626.93	7,543.85	7,512.42	27.61	27.68	114.40	-532.53	-177.50	1,034.83	981.11	53.72	19.264		
7,800.00	7,690.25	7,601.62	7,569.83	27.95	27.91	106.05	-538.88	-178.64	1,087.78	1,033.61	54.17	20.081		
7,900.00	7,742.08	7,648.43	7,616.34	28.39	28.09	99.32	-544.02	-179.57	1,139.79	1,085.20	54.59	20.878		
8,000.00	7,780.85	7,682.86	7,650.56	28.84	28.22	93.54	-547.81	-180.25	1,190.86	1,135.86	55.00	21.653		
8,100.00	7,805.36	7,703.86	7,671.43	29.59	28.30	88.34	-550.11	-180.67	1,240.71	1,185.33	55.38	22.403		
8,200.00	7,814.89	7,710.79	7,678.32	30.35	28.33	83.64	-550.88	-180.81	1,288.72	1,232.98	55.73	23.123		
8,300.00	7,815.00	7,708.93	7,676.47	31.20	28.32	83.01	-550.67	-180.77	1,337.43	1,281.35	56.08	23.849		
8,400.00	7,815.00	7,706.95	7,674.50	32.20	28.32	82.91	-550.45	-180.73	1,391.58	1,335.12	56.45	24.650		
8,500.00	7,815.00	7,704.98	7,672.54	33.32	28.31	82.81	-550.24	-180.69	1,450.60	1,393.76	56.83	25.523		
8,600.00	7,815.00	7,703.01	7,670.58	34.56	28.30	82.71	-550.02	-180.65	1,513.93	1,456.72	57.21	26.462		
8,700.00	7,815.00	7,701.03	7,668.62	35.91	28.29	82.61	-549.80	-180.62	1,581.05	1,523.47	57.57	27.461		
8,800.00	7,815.00	7,699.06	7,666.66	37.35	28.29	82.52	-549.59	-180.58	1,651.49	1,593.57	57.92	28.514		
8,900.00	7,815.00	7,697.08	7,664.70	38.87	28.28	82.42	-549.37	-180.54	1,724.86	1,666.62	58.24	29.615		
9,000.00	7,815.00	7,704.89	7,662.74	40.47	28.31	82.32	-549.15	-180.50	1,800.79	1,742.21	58.58	30.740		
9,100.00	7,815.00	7,706.86	7,660.77	42.13	28.32	82.22	-548.94	-180.46	1,878.98	1,820.10	58.87	31.915		
9,200.00	7,815.00	10,654.44	9,255.00	43.86	47.70	137.44	-735.54	1,407.81	1,953.74	1,886.46	67.28	29.041		
9,300.00	7,815.00	10,754.44	9,255.00	45.63	49.38	137.44	-735.63	1,507.81	1,953.74	1,884.01	69.73	28.019		
9,400.00	7,815.00	10,854.44	9,255.00	47.45	51.11	137.44	-735.71	1,607.81	1,953.74	1,881.49	72.25	27.040		
9,500.00	7,815.00	10,954.44	9,255.00	49.31	52.88	137.44	-735.80	1,707.81	1,953.75	1,878.90	74.84	26.104		
9,600.00	7,815.00	11,054.44	9,255.00	51.21	54.69	137.44	-735.88	1,807.81	1,953.75	1,876.26	77.49	25.213		
9,700.00	7,815.00	11,154.44	9,255.00	53.14	56.53	137.44	-735.97	1,907.81	1,953.76	1,873.57	80.19	24.365		
9,800.00	7,815.00	11,254.44	9,255.00	55.10	58.41	137.44	-736.05	2,007.81	1,953.76	1,870.83	82.93	23.559		
9,900.00	7,815.00	11,354.44	9,255.00	57.08	60.32	137.44	-736.14	2,107.81	1,953.76	1,868.05	85.72	22.793		
10,000.00	7,815.00	11,454.44	9,255.00	59.09	62.26	137.44	-736.22	2,207.81	1,953.77	1,865.23	88.54	22.066		
10,100.00	7,815.00	11,554.44	9,255.00	61.12	64.22	137.44	-736.31	2,307.81	1,953.77	1,862.37	91.40	21.376		
10,200.00	7,815.00	11,654.44	9,255.00	63.17	66.20	137.44	-736.40	2,407.81	1,953.78	1,859.48	94.29	20.721		

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #206H - OH - Prelim A													Offset Site Error:
Survey Program: 0-MWD+HDGM													Offset Well Error:
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
10,300.00	7,815.00	11,754.44	9,255.00	65.24	68.21	137.44	-736.48	2,507.81	1,953.78	1,856.57	97.21	20.099	
10,400.00	7,815.00	11,854.44	9,255.00	67.32	70.23	137.44	-736.57	2,607.81	1,953.78	1,853.63	100.16	19.508	
10,500.00	7,815.00	11,954.44	9,255.00	69.42	72.27	137.44	-736.65	2,707.81	1,953.79	1,850.66	103.12	18.946	
10,600.00	7,815.00	12,054.44	9,255.00	71.53	74.32	137.44	-736.74	2,807.81	1,953.79	1,847.68	106.12	18.412	
10,700.00	7,815.00	12,154.44	9,255.00	73.65	76.39	137.44	-736.82	2,907.81	1,953.79	1,844.67	109.13	17.904	
10,800.00	7,815.00	12,254.44	9,255.00	75.78	78.48	137.44	-736.91	3,007.81	1,953.80	1,841.64	112.16	17.420	
10,900.00	7,815.00	12,354.44	9,255.00	77.92	80.57	137.43	-736.99	3,107.81	1,953.80	1,838.60	115.20	16.960	
11,000.00	7,815.00	12,454.44	9,255.00	80.08	82.68	137.43	-737.08	3,207.81	1,953.81	1,835.54	118.26	16.521	
11,100.00	7,815.00	12,554.44	9,255.00	82.24	84.80	137.43	-737.16	3,307.81	1,953.81	1,832.47	121.34	16.102	
11,200.00	7,815.00	12,654.44	9,255.00	84.40	86.92	137.43	-737.25	3,407.81	1,953.81	1,829.38	124.43	15.702	
11,300.00	7,815.00	12,754.44	9,255.00	86.58	89.06	137.43	-737.33	3,507.81	1,953.82	1,826.28	127.54	15.320	
11,400.00	7,815.00	12,854.44	9,255.00	88.76	91.20	137.43	-737.42	3,607.81	1,953.82	1,823.17	130.65	14.955	
11,500.00	7,815.00	12,954.44	9,255.00	90.95	93.36	137.43	-737.50	3,707.81	1,953.82	1,820.05	133.77	14.605	
11,600.00	7,815.00	13,054.44	9,255.00	93.14	95.52	137.43	-737.59	3,807.81	1,953.83	1,816.92	136.91	14.271	
11,700.00	7,815.00	13,154.44	9,255.00	95.34	97.68	137.43	-737.67	3,907.81	1,953.83	1,813.78	140.05	13.951	
11,800.00	7,815.00	13,254.44	9,255.00	97.55	99.86	137.43	-737.76	4,007.81	1,953.84	1,810.63	143.21	13.643	
11,900.00	7,815.00	13,354.44	9,255.00	99.76	102.03	137.43	-737.84	4,107.81	1,953.84	1,807.47	146.37	13.349	
12,000.00	7,815.00	13,454.44	9,255.00	101.97	104.22	137.43	-737.93	4,207.81	1,953.84	1,804.31	149.54	13.066	
12,100.00	7,815.00	13,554.44	9,255.00	104.19	106.41	137.43	-738.01	4,307.81	1,953.85	1,801.13	152.72	12.794	
12,200.00	7,815.00	13,654.44	9,255.00	106.41	108.60	137.43	-738.10	4,407.81	1,953.85	1,797.95	155.90	12.533	
12,300.00	7,815.00	13,754.44	9,255.00	108.64	110.80	137.43	-738.18	4,507.81	1,953.86	1,794.77	159.09	12.282	
12,400.00	7,815.00	13,854.44	9,255.00	110.87	113.01	137.43	-738.27	4,607.81	1,953.86	1,791.58	162.28	12.040	
12,500.00	7,815.00	13,954.44	9,255.00	113.10	115.21	137.43	-738.35	4,707.81	1,953.86	1,788.38	165.48	11.807	
12,600.00	7,815.00	14,054.44	9,255.00	115.33	117.43	137.43	-738.44	4,807.81	1,953.87	1,785.18	168.69	11.583	
12,700.00	7,815.00	14,154.44	9,255.00	117.57	119.64	137.43	-738.52	4,907.81	1,953.87	1,781.97	171.90	11.366	
12,800.00	7,815.00	14,254.44	9,255.00	119.81	121.86	137.43	-738.61	5,007.81	1,953.87	1,778.76	175.12	11.157	
12,900.00	7,815.00	14,354.44	9,255.00	122.05	124.08	137.43	-738.69	5,107.81	1,953.88	1,775.54	178.34	10.956	
13,000.00	7,815.00	14,454.44	9,255.00	124.30	126.31	137.43	-738.78	5,207.81	1,953.88	1,772.32	181.56	10.761	
13,100.00	7,815.00	14,554.44	9,255.00	126.55	128.53	137.43	-738.86	5,307.81	1,953.89	1,769.09	184.79	10.573	
13,200.00	7,815.00	14,654.44	9,255.00	128.80	130.77	137.43	-738.95	5,407.81	1,953.89	1,765.86	188.03	10.392	
13,300.00	7,815.00	14,754.44	9,255.00	131.05	133.00	137.43	-739.03	5,507.81	1,953.89	1,762.63	191.26	10.216	
13,400.00	7,815.00	14,854.44	9,255.00	133.30	135.24	137.43	-739.12	5,607.80	1,953.90	1,759.40	194.50	10.046	
13,500.00	7,815.00	14,954.44	9,255.00	135.56	137.47	137.43	-739.21	5,707.80	1,953.90	1,756.16	197.74	9.881	
13,600.00	7,815.00	15,054.44	9,255.00	137.82	139.71	137.43	-739.29	5,807.80	1,953.91	1,752.91	200.99	9.721	
13,700.00	7,815.00	15,154.44	9,255.00	140.08	141.96	137.43	-739.38	5,907.80	1,953.91	1,749.67	204.24	9.567	
13,800.00	7,815.00	15,254.44	9,255.00	142.34	144.20	137.43	-739.46	6,007.80	1,953.91	1,746.42	207.49	9.417	
13,900.00	7,815.00	15,354.44	9,255.00	144.60	146.45	137.43	-739.55	6,107.80	1,953.92	1,743.17	210.75	9.271	
14,000.00	7,815.00	15,454.44	9,255.00	146.86	148.70	137.43	-739.63	6,207.80	1,953.92	1,739.92	214.00	9.130	
14,100.00	7,815.00	15,554.44	9,255.00	149.13	150.95	137.43	-739.72	6,307.80	1,953.92	1,736.66	217.26	8.993	
14,200.00	7,815.00	15,654.44	9,255.00	151.40	153.20	137.43	-739.80	6,407.80	1,953.93	1,733.40	220.53	8.860	
14,300.00	7,815.00	15,754.44	9,255.00	153.66	155.46	137.43	-739.89	6,507.80	1,953.93	1,730.14	223.79	8.731	
14,400.00	7,815.00	15,854.44	9,255.00	155.93	157.71	137.43	-739.97	6,607.80	1,953.94	1,726.88	227.06	8.605	
14,500.00	7,815.00	15,954.44	9,255.00	158.20	159.97	137.43	-740.06	6,707.80	1,953.94	1,723.61	230.33	8.483	
14,600.00	7,815.00	16,054.44	9,255.00	160.47	162.23	137.43	-740.14	6,807.80	1,953.94	1,720.35	233.60	8.365	
14,700.00	7,815.00	16,154.44	9,255.00	162.75	164.49	137.43	-740.23	6,907.80	1,953.95	1,717.08	236.87	8.249	
14,800.00	7,815.00	16,254.44	9,255.00	165.02	166.75	137.43	-740.31	7,007.80	1,953.95	1,713.81	240.14	8.137	
14,900.00	7,815.00	16,354.44	9,255.00	167.29	169.01	137.43	-740.40	7,107.80	1,953.96	1,710.54	243.42	8.027	
15,000.00	7,815.00	16,454.44	9,255.00	169.57	171.27	137.43	-740.48	7,207.80	1,953.96	1,707.26	246.70	7.921	
15,100.00	7,815.00	16,554.44	9,255.00	171.84	173.54	137.43	-740.57	7,307.80	1,953.96	1,703.99	249.98	7.817	
15,200.00	7,815.00	16,654.44	9,255.00	174.12	175.81	137.43	-740.65	7,407.80	1,953.97	1,700.71	253.26	7.715	
15,300.00	7,815.00	16,754.44	9,255.00	176.40	178.07	137.43	-740.74	7,507.80	1,953.97	1,697.43	256.54	7.617	
15,400.00	7,815.00	16,854.44	9,255.00	178.68	180.34	137.43	-740.82	7,607.80	1,953.97	1,694.15	259.82	7.520	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #206H - OH - Prelim A														Offset Site Error: 0.00 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			
15,500.00	7,815.00	16,954.44	9,255.00	180.96	182.61	137.43	-740.91	7,707.80	1,953.98	1,690.87	263.11	7.427			
15,600.00	7,815.00	17,054.44	9,255.00	183.24	184.88	137.43	-740.99	7,807.80	1,953.98	1,687.59	266.39	7.335			
15,700.00	7,815.00	17,154.44	9,255.00	185.52	187.15	137.43	-741.08	7,907.80	1,953.99	1,684.30	269.68	7.246			
15,800.00	7,815.00	17,254.44	9,255.00	187.80	189.42	137.43	-741.16	8,007.80	1,953.99	1,681.02	272.97	7.158			
15,900.00	7,815.00	17,354.44	9,255.00	190.08	191.70	137.43	-741.25	8,107.80	1,953.99	1,677.73	276.26	7.073			
16,000.00	7,815.00	17,454.44	9,255.00	192.36	193.97	137.43	-741.33	8,207.80	1,954.00	1,674.45	279.55	6.990			
16,100.00	7,815.00	17,554.44	9,255.00	194.65	196.25	137.43	-741.42	8,307.80	1,954.00	1,671.16	282.84	6.908			
16,200.00	7,815.00	17,654.44	9,255.00	196.93	198.52	137.43	-741.50	8,407.80	1,954.00	1,667.87	286.14	6.829			
16,300.00	7,815.00	17,754.44	9,255.00	199.21	200.80	137.43	-741.59	8,507.80	1,954.01	1,664.58	289.43	6.751			
16,400.00	7,815.00	17,854.44	9,255.00	201.50	203.07	137.43	-741.67	8,607.80	1,954.01	1,661.29	292.73	6.675			
16,500.00	7,815.00	17,954.44	9,255.00	203.79	205.35	137.43	-741.76	8,707.80	1,954.02	1,657.99	296.02	6.601			
16,600.00	7,815.00	18,054.44	9,255.00	206.07	207.63	137.43	-741.85	8,807.80	1,954.02	1,654.70	299.32	6.528			
16,700.00	7,815.00	18,154.44	9,255.00	208.36	209.91	137.43	-741.93	8,907.80	1,954.02	1,651.40	302.62	6.457			
16,800.00	7,815.00	18,254.44	9,255.00	210.65	212.19	137.43	-742.02	9,007.80	1,954.03	1,648.11	305.92	6.387			
16,900.00	7,815.00	18,354.44	9,255.00	212.93	214.47	137.43	-742.10	9,107.80	1,954.03	1,644.81	309.22	6.319			
17,000.00	7,815.00	18,454.44	9,255.00	215.22	216.75	137.43	-742.19	9,207.80	1,954.04	1,641.52	312.52	6.253			
17,100.00	7,815.00	18,554.44	9,255.00	217.51	219.03	137.43	-742.27	9,307.80	1,954.04	1,638.22	315.82	6.187			
17,200.00	7,815.00	18,654.44	9,255.00	219.80	221.31	137.43	-742.36	9,407.80	1,954.04	1,634.92	319.12	6.123			
17,300.00	7,815.00	18,754.44	9,255.00	222.09	223.60	137.43	-742.44	9,507.80	1,954.05	1,631.62	322.43	6.060			
17,400.00	7,815.00	18,854.44	9,255.00	224.38	225.88	137.43	-742.53	9,607.80	1,954.05	1,628.32	325.73	5.999			
17,500.00	7,815.00	18,954.44	9,255.00	226.67	228.16	137.43	-742.61	9,707.80	1,954.05	1,625.02	329.04	5.939			
17,600.00	7,815.00	19,054.44	9,255.00	228.96	230.45	137.43	-742.70	9,807.80	1,954.06	1,621.72	332.34	5.880			
17,700.00	7,815.00	19,154.44	9,255.00	231.25	232.73	137.43	-742.78	9,907.80	1,954.06	1,618.42	335.65	5.822			
17,800.00	7,815.00	19,254.44	9,255.00	233.54	235.02	137.43	-742.87	10,007.80	1,954.07	1,615.11	338.95	5.765			
17,900.00	7,815.00	19,354.44	9,255.00	235.83	237.30	137.43	-742.95	10,107.80	1,954.07	1,611.81	342.26	5.709			
17,952.07	7,815.00	19,406.52	9,255.00	237.02	238.49	137.43	-743.00	10,159.87	1,954.07	1,610.09	343.98	5.681			

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #242H - OH - Prelim A													Offset Site Error: 0.00 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)	Separation Factor	
0.00	0.00	1.00	-1.00	0.00	0.00	0.00	140.00	0.00	140.00				
100.00	100.00	101.00	99.00	0.13	0.13	0.00	140.00	0.00	140.00	139.74	0.26	538.685	
200.00	200.00	201.00	199.00	0.49	0.49	0.00	140.00	0.00	140.00	139.02	0.98	143.320	
300.00	300.00	301.00	299.00	0.85	0.85	0.00	140.00	0.00	140.00	138.31	1.69	82.655	
400.00	400.00	401.00	399.00	1.20	1.21	0.00	140.00	0.00	140.00	137.59	2.41	58.074	
500.00	500.00	501.00	499.00	1.56	1.57	0.00	140.00	0.00	140.00	136.87	3.13	44.762	
600.00	600.00	601.00	599.00	1.92	1.92	0.00	140.00	0.00	140.00	136.16	3.84	36.415	
700.00	700.00	701.00	699.00	2.28	2.28	0.00	140.00	0.00	140.00	135.44	4.56	30.691	
800.00	800.00	801.00	799.00	2.64	2.64	0.00	140.00	0.00	140.00	134.72	5.28	26.523	
900.00	900.00	901.00	899.00	3.00	3.00	0.00	140.00	0.00	140.00	134.00	6.00	23.351	
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	0.00	140.00	0.00	140.00	133.29	6.71	20.857	
1,100.00	1,099.98	1,101.02	1,098.98	3.71	3.72	50.57	140.00	0.00	138.88	131.46	7.43	18.701	
1,200.00	1,199.86	1,201.14	1,198.86	4.07	4.08	52.15	140.00	0.00	135.89	127.75	8.14	16.693	
1,300.00	1,299.73	1,301.27	1,298.73	4.42	4.43	53.93	140.00	0.00	132.74	123.88	8.85	14.990	
1,400.00	1,399.59	1,401.41	1,398.59	4.78	4.79	55.80	140.00	0.00	129.72	120.15	9.57	13.554	
1,500.00	1,499.45	1,498.45	1,498.45	5.14	5.14	57.76	140.00	0.00	126.85	116.58	10.28	12.344	
1,600.00	1,599.31	1,602.46	1,597.52	5.49	5.51	60.53	140.00	1.66	124.43	113.43	11.00	11.312	
1,700.00	1,699.18	1,702.80	1,697.12	5.85	5.85	64.25	140.00	5.14	122.75	111.05	11.70	10.488	
1,800.00	1,799.04	1,803.14	1,796.72	6.21	6.20	68.05	140.00	8.62	121.60	109.19	12.41	9.798	
1,900.00	1,898.90	1,903.47	1,896.33	6.58	6.54	71.91	140.00	12.09	121.00	107.88	13.12	9.223	
1,957.81	1,956.63	1,954.14	1,953.90	6.78	6.72	74.15	140.00	14.10	120.91	107.41	13.50	8.953 CC	
2,000.00	1,998.77	2,003.81	1,995.93	6.94	6.89	75.78	140.00	15.57	120.96	107.13	13.83	8.746	
2,100.00	2,098.63	2,104.15	2,095.53	7.30	7.25	79.65	140.00	19.05	121.47	106.93	14.54	8.353	
2,200.00	2,198.49	2,204.49	2,195.13	7.66	7.60	83.46	140.00	22.53	122.54	107.28	15.25	8.033	
2,300.00	2,298.36	2,304.82	2,294.73	8.02	7.95	87.19	140.00	26.01	124.13	108.17	15.97	7.774	
2,400.00	2,398.22	2,405.16	2,394.33	8.38	8.31	90.81	140.00	29.48	126.25	109.57	16.68	7.569	
2,500.00	2,498.08	2,505.50	2,493.94	8.75	8.66	94.30	140.00	32.96	128.85	111.46	17.39	7.408	
2,600.00	2,597.87	2,605.91	2,593.47	9.11	9.02	97.71	140.00	36.44	130.73	112.62	18.11	7.219	
2,700.00	2,697.43	2,706.54	2,692.78	9.48	9.37	101.88	140.00	39.91	130.93	112.10	18.83	6.955	
2,733.54	2,730.78	2,726.74	2,726.04	9.60	9.44	104.70	140.00	41.07	130.86	111.84	19.02	6.881	
2,800.00	2,796.84	2,807.31	2,791.94	9.85	9.73	107.28	140.00	43.37	131.12	111.58	19.54	6.709	
2,900.00	2,896.26	2,908.09	2,891.10	10.21	10.09	110.62	140.00	46.83	132.49	112.23	20.26	6.539	
3,000.00	2,995.67	2,991.13	2,990.26	10.58	10.38	114.00	140.00	50.29	135.00	114.08	20.92	6.453	
3,100.00	3,095.08	3,094.72	3,093.82	10.96	10.75	117.13	139.23	52.58	137.16	115.51	21.65	6.335	
3,200.00	3,194.49	3,198.62	3,197.67	11.33	11.09	120.19	136.57	51.63	137.01	114.66	22.35	6.130	
3,300.00	3,293.90	3,302.08	3,300.94	11.70	11.43	123.26	132.06	47.46	134.86	111.83	23.03	5.856	
3,400.00	3,393.32	3,402.12	3,400.61	12.07	11.77	126.33	126.31	41.04	131.97	108.25	23.72	5.564	
3,500.00	3,492.73	3,500.79	3,498.90	12.45	12.09	129.40	120.56	34.56	130.87	106.46	24.41	5.361	
3,504.66	3,497.36	3,505.39	3,503.48	12.47	12.11	132.47	120.29	34.26	130.87	106.42	24.44	5.354 ES	
3,600.00	3,592.14	3,600.53	3,597.20	12.82	12.43	135.54	114.81	28.08	131.78	106.67	25.11	5.248	
3,700.00	3,691.55	3,701.86	3,695.49	13.20	12.77	138.61	109.05	21.59	134.65	108.84	25.81	5.217 SF	
3,800.00	3,790.96	3,803.18	3,793.78	13.57	13.11	141.68	103.30	15.11	139.37	112.85	26.52	5.256	
3,900.00	3,890.38	3,895.49	3,892.08	13.95	13.42	144.75	97.54	8.63	145.75	118.56	27.19	5.361	
4,000.00	3,989.79	4,005.83	3,990.37	14.33	13.80	147.82	91.79	2.15	153.58	125.65	27.93	5.500	
4,100.00	4,089.20	4,107.16	4,088.66	14.71	14.15	150.89	86.04	-4.33	162.66	134.03	28.63	5.681	
4,200.00	4,188.61	4,191.51	4,186.96	15.08	14.44	153.96	80.28	-10.81	172.79	143.51	29.28	5.901	
4,300.00	4,288.02	4,309.81	4,285.25	15.46	14.86	157.03	74.53	-17.30	183.80	153.74	30.05	6.116	
4,400.00	4,387.44	4,388.86	4,383.55	15.84	15.14	160.10	68.78	-23.78	195.53	164.84	30.89	6.372	
4,500.00	4,486.85	4,487.54	4,481.84	16.22	15.48	163.17	63.02	-30.26	207.87	176.48	31.39	6.622	
4,600.00	4,586.26	4,586.21	4,580.13	16.60	15.83	166.24	57.27	-36.74	220.71	188.62	32.10	6.876	
4,700.00	4,685.67	4,684.89	4,678.43	16.98	16.18	169.31	51.52	-43.22	233.98	201.17	32.81	7.132	
4,800.00	4,785.08	4,783.56	4,776.72	17.36	16.54	172.38	45.76	-49.70	247.60	214.08	33.52	7.387	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #242H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Offset Wellbore Centre		Between Centres		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.00	4,884.50	4,882.24	4,875.01	17.74	16.89	179.82	40.01	-56.19	261.51	227.28	34.23	7.640			
5,000.00	4,983.91	4,980.91	4,973.31	18.12	17.24	-178.49	34.25	-62.67	275.68	240.74	34.94	7.890			
5,100.00	5,083.32	5,079.59	5,071.60	18.50	17.60	-176.95	28.50	-69.15	290.06	254.41	35.65	8.136			
5,200.00	5,182.73	5,178.26	5,169.89	18.88	17.95	-175.56	22.75	-75.63	304.63	268.26	36.37	8.376			
5,300.00	5,282.14	5,276.94	5,268.19	19.26	18.31	-174.30	16.99	-82.11	319.36	282.28	37.08	8.612			
5,400.00	5,381.56	5,375.61	5,366.48	19.64	18.66	-173.15	11.24	-88.59	334.23	296.43	37.80	8.842			
5,500.00	5,480.97	5,474.29	5,464.77	20.02	19.02	-172.10	5.49	-95.08	349.21	310.70	38.51	9.067			
5,600.00	5,580.38	5,572.96	5,563.07	20.40	19.38	-171.13	-0.27	-101.56	364.31	325.08	39.23	9.286			
5,700.00	5,679.79	5,671.64	5,661.36	20.78	19.74	-170.24	-6.02	-108.04	379.50	339.55	39.95	9.499			
5,800.00	5,779.34	5,770.50	5,759.84	21.16	20.10	-169.43	-11.79	-114.53	393.39	352.72	40.67	9.673			
5,900.00	5,879.16	5,869.73	5,858.69	21.52	20.46	-168.57	-17.57	-121.05	403.99	362.61	41.38	9.762			
6,000.00	5,979.12	5,969.23	5,957.80	21.88	20.82	-167.65	-23.37	-127.59	411.29	369.19	42.10	9.770			
6,100.00	6,079.12	6,068.84	6,057.03	22.22	21.19	-173.53	-29.18	-134.13	416.37	373.56	42.81	9.726			
6,200.00	6,179.12	6,168.45	6,156.26	22.57	21.55	-174.50	-34.99	-140.67	421.49	377.97	43.52	9.685			
6,300.00	6,279.12	6,268.07	6,255.49	22.91	21.92	-175.45	-40.80	-147.22	426.74	382.51	44.23	9.648			
6,400.00	6,379.12	6,367.68	6,354.71	23.26	22.29	-176.38	-46.61	-153.76	432.10	387.16	44.94	9.614			
6,500.00	6,479.12	6,467.29	6,453.94	23.60	22.65	-177.28	-52.42	-160.30	437.57	391.92	45.66	9.584			
6,600.00	6,579.12	6,566.91	6,553.17	23.95	23.02	-178.17	-58.22	-166.85	443.15	396.78	46.37	9.557			
6,700.00	6,679.12	6,666.52	6,652.40	24.30	23.39	-179.03	-64.03	-173.39	448.83	401.75	47.08	9.533			
6,800.00	6,779.12	6,766.52	6,752.01	24.64	23.75	-179.87	-69.86	-179.96	454.61	406.81	47.80	9.511			
6,900.00	6,879.12	6,878.19	6,863.42	24.99	24.16	-179.43	-74.84	-185.56	459.10	410.48	48.61	9.444			
7,000.00	6,979.12	6,990.28	6,975.46	25.34	24.56	-179.14	-76.93	-187.92	460.99	411.59	49.40	9.333			
7,100.00	7,079.12	7,107.06	7,078.12	25.69	24.96	-179.13	-77.00	-188.00	461.05	410.90	50.15	9.193			
7,200.00	7,179.12	7,207.06	7,178.12	26.03	25.30	-179.13	-77.00	-188.00	461.05	410.20	50.85	9.067			
7,300.00	7,278.92	7,307.26	7,277.92	26.38	25.64	-124.14	-77.00	-188.00	463.74	412.20	51.54	8.998			
7,400.00	7,378.45	7,409.73	7,375.45	26.71	25.99	-125.22	-77.00	-188.00	476.19	423.96	52.23	9.118			
7,500.00	7,468.78	7,482.60	7,467.78	27.03	26.24	-126.69	-77.00	-188.00	499.77	446.98	52.79	9.467			
7,600.00	7,553.10	7,566.92	7,552.10	27.32	26.53	-127.87	-77.00	-188.00	535.76	482.39	53.37	10.039			
7,700.00	7,628.93	7,640.75	7,625.93	27.61	26.78	-126.18	-77.00	-188.00	584.57	530.70	53.87	10.851			
7,800.00	7,690.25	7,704.07	7,689.25	27.95	27.00	-119.16	-77.00	-188.00	639.43	585.12	54.30	11.775			
7,900.00	7,742.08	7,755.90	7,741.08	28.39	27.18	-112.80	-77.00	-188.00	697.92	643.25	54.66	12.768			
8,000.00	7,780.85	7,805.33	7,779.85	28.94	27.35	-106.19	-77.00	-188.00	760.13	705.14	54.99	13.823			
8,100.00	7,805.36	7,819.18	7,804.36	29.59	27.39	-98.90	-77.00	-188.00	825.46	770.29	55.17	14.963			
8,200.00	7,814.89	7,828.71	7,813.89	30.35	27.43	-90.99	-77.00	-188.00	892.65	837.35	55.30	16.142			
8,300.00	7,815.00	7,828.82	7,814.00	31.20	27.43	-90.00	-77.00	-188.00	962.39	906.99	55.39	17.374			
8,400.00	7,815.00	7,828.82	7,814.00	32.20	27.43	-90.00	-77.00	-188.00	1,037.05	981.56	55.49	18.689			
8,500.00	7,815.00	7,828.82	7,814.00	33.32	27.43	-90.00	-77.00	-188.00	1,115.68	1,060.10	55.59	20.071			
8,600.00	7,815.00	7,828.82	7,814.00	34.56	27.43	-90.00	-77.00	-188.00	1,197.51	1,141.83	55.68	21.508			
8,700.00	7,815.00	7,828.82	7,814.00	35.91	27.43	-90.00	-77.00	-188.00	1,281.92	1,226.15	55.76	22.988			
8,800.00	7,815.00	7,828.82	7,814.00	37.35	27.43	-90.00	-77.00	-188.00	1,368.43	1,312.58	55.84	24.505			
8,900.00	7,815.00	7,828.82	7,814.00	38.87	27.43	-90.00	-77.00	-188.00	1,456.66	1,400.75	55.92	26.050			
9,000.00	7,815.00	7,828.82	7,814.00	40.47	27.43	-90.00	-77.00	-188.00	1,546.33	1,490.35	55.99	27.620			
9,100.00	7,815.00	7,828.82	7,814.00	42.13	27.43	-90.00	-77.00	-188.00	1,637.20	1,581.15	56.05	29.210			
9,200.00	7,815.00	7,828.82	7,814.00	43.86	27.43	-90.00	-77.00	-188.00	1,729.08	1,672.97	56.11	30.816			
9,300.00	7,815.00	7,828.82	7,814.00	45.63	27.43	-90.00	-77.00	-188.00	1,821.81	1,765.65	56.17	32.436			
9,400.00	7,815.00	7,828.82	7,814.00	47.45	27.43	-90.00	-77.00	-188.00	1,915.27	1,859.06	56.22	34.068			
9,500.00	7,815.00	7,828.82	7,814.00	49.31	27.43	-90.00	-77.00	-188.00	2,009.37	1,953.10	56.27	35.710			
9,600.00	7,815.00	7,828.82	7,814.00	51.21	27.43	-90.00	-77.00	-188.00	2,104.00	2,047.69	56.32	37.359			
9,700.00	7,815.00	7,828.82	7,814.00	53.14	27.43	-90.00	-77.00	-188.00	2,199.12	2,142.75	56.36	39.016			
9,800.00	7,815.00	11,941.33	9,970.80	55.10	59.23	-162.90	-78.06	2,011.47	2,256.57	2,200.35	56.22	40.138			
9,900.00	7,815.00	12,041.33	9,970.67	57.08	61.11	-162.90	-78.11	2,111.47	2,256.43	2,198.64	57.79	39.044			
10,000.00	7,815.00	12,141.33	9,970.54	59.09	63.02	-162.90	-78.16	2,211.47	2,256.29	2,196.90	59.39	37.990			

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 #125H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3240 + 28.5 = KB @ 3268.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#125H	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 A	Offset TVD Reference:	Offset Datum

Offset Design Leatherneck 3029 Fed Com - #242H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 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)							
10,100.00	7,815.00	12,241.33	9,970.41	61.12	64.96	162.90	-78.21	2,311.47	2,256.16	2,195.14	61.02	36.976			
10,200.00	7,815.00	12,341.33	9,970.27	63.17	66.92	162.90	-78.26	2,411.47	2,256.02	2,193.36	62.67	36.001			
10,300.00	7,815.00	12,441.33	9,970.14	65.24	68.90	162.90	-78.30	2,511.47	2,255.89	2,191.55	64.34	35.064			
10,400.00	7,815.00	12,541.33	9,970.01	67.32	70.90	162.90	-78.35	2,611.47	2,255.75	2,189.72	66.03	34.164			
10,500.00	7,815.00	12,641.33	9,969.88	69.42	72.92	162.90	-78.40	2,711.47	2,255.61	2,187.88	67.73	33.301			
10,600.00	7,815.00	12,741.33	9,969.74	71.53	74.96	162.90	-78.45	2,811.47	2,255.48	2,186.02	69.46	32.471			
10,700.00	7,815.00	12,841.33	9,969.61	73.65	77.01	162.90	-78.50	2,911.47	2,255.34	2,184.14	71.20	31.675			
10,800.00	7,815.00	12,941.33	9,969.48	75.78	79.07	162.90	-78.55	3,011.47	2,255.21	2,182.25	72.96	30.910			
10,900.00	7,815.00	13,041.33	9,969.34	77.92	81.15	162.90	-78.59	3,111.47	2,255.07	2,180.34	74.73	30.176			
11,000.00	7,815.00	13,141.33	9,969.21	80.08	83.24	162.90	-78.64	3,211.47	2,254.94	2,178.42	76.51	29.471			
11,100.00	7,815.00	13,241.33	9,969.08	82.24	85.34	162.90	-78.69	3,311.47	2,254.80	2,176.49	78.31	28.794			
11,200.00	7,815.00	13,341.33	9,968.95	84.40	87.45	162.90	-78.74	3,411.47	2,254.66	2,174.55	80.11	28.143			
11,300.00	7,815.00	13,441.33	9,968.81	86.58	89.58	162.90	-78.79	3,511.47	2,254.53	2,172.60	81.93	27.517			
11,400.00	7,815.00	13,541.33	9,968.68	88.76	91.71	162.90	-78.84	3,611.47	2,254.39	2,170.63	83.76	26.916			
11,500.00	7,815.00	13,641.33	9,968.55	90.95	93.85	162.90	-78.88	3,711.47	2,254.26	2,168.66	85.59	26.337			
11,600.00	7,815.00	13,741.33	9,968.42	93.14	95.99	162.90	-78.93	3,811.47	2,254.12	2,166.68	87.44	25.780			
11,700.00	7,815.00	13,841.33	9,968.28	95.34	98.15	162.89	-78.98	3,911.47	2,253.98	2,164.69	89.29	25.243			
11,800.00	7,815.00	13,941.33	9,968.15	97.55	100.31	162.89	-79.03	4,011.47	2,253.85	2,162.70	91.15	24.727			
11,900.00	7,815.00	14,041.33	9,968.02	99.76	102.48	162.89	-79.08	4,111.47	2,253.71	2,160.70	93.02	24.229			
12,000.00	7,815.00	14,141.33	9,967.89	101.97	104.65	162.89	-79.13	4,211.47	2,253.58	2,158.69	94.89	23.749			
12,100.00	7,815.00	14,241.33	9,967.75	104.19	106.83	162.89	-79.17	4,311.47	2,253.44	2,156.67	96.77	23.286			
12,200.00	7,815.00	14,341.33	9,967.62	106.41	109.02	162.89	-79.22	4,411.47	2,253.31	2,154.65	98.66	22.840			
12,300.00	7,815.00	14,441.33	9,967.49	108.64	111.21	162.89	-79.27	4,511.47	2,253.17	2,152.62	100.55	22.409			
12,400.00	7,815.00	14,541.33	9,967.36	110.87	113.40	162.89	-79.32	4,611.47	2,253.03	2,150.59	102.45	21.992			
12,500.00	7,815.00	14,641.33	9,967.22	113.10	115.60	162.89	-79.37	4,711.46	2,252.90	2,148.55	104.35	21.590			
12,600.00	7,815.00	14,741.33	9,967.09	115.33	117.80	162.89	-79.42	4,811.46	2,252.76	2,146.51	106.25	21.202			
12,700.00	7,815.00	14,841.33	9,966.96	117.57	120.01	162.89	-79.46	4,911.46	2,252.63	2,144.46	108.17	20.826			
12,800.00	7,815.00	14,941.33	9,966.83	119.81	122.22	162.89	-79.51	5,011.46	2,252.49	2,142.41	110.08	20.462			
12,900.00	7,815.00	15,041.33	9,966.69	122.05	124.44	162.89	-79.56	5,111.46	2,252.35	2,140.35	112.00	20.110			
13,000.00	7,815.00	15,141.33	9,966.56	124.30	126.65	162.89	-79.61	5,211.46	2,252.22	2,138.29	113.92	19.769			
13,100.00	7,815.00	15,241.33	9,966.43	126.55	128.87	162.89	-79.66	5,311.46	2,252.08	2,136.23	115.85	19.439			
13,200.00	7,815.00	15,341.33	9,966.30	128.80	131.10	162.89	-79.71	5,411.46	2,251.95	2,134.16	117.78	19.120			
13,300.00	7,815.00	15,441.33	9,966.16	131.05	133.32	162.89	-79.75	5,511.46	2,251.81	2,132.10	119.72	18.810			
13,400.00	7,815.00	15,541.33	9,966.03	133.30	135.55	162.89	-79.80	5,611.46	2,251.68	2,130.02	121.65	18.509			
13,500.00	7,815.00	15,641.33	9,965.90	135.56	137.79	162.89	-79.85	5,711.46	2,251.54	2,127.95	123.59	18.217			
13,600.00	7,815.00	15,741.33	9,965.77	137.82	140.02	162.89	-79.90	5,811.46	2,251.40	2,125.87	125.54	17.934			
13,700.00	7,815.00	15,841.33	9,965.63	140.08	142.26	162.89	-79.95	5,911.46	2,251.27	2,123.79	127.48	17.659			
13,800.00	7,815.00	15,941.33	9,965.50	142.34	144.50	162.89	-79.99	6,011.46	2,251.13	2,121.70	129.43	17.393			
13,900.00	7,815.00	16,041.33	9,965.37	144.60	146.74	162.89	-80.04	6,111.46	2,251.00	2,119.61	131.38	17.133			
14,000.00	7,815.00	16,141.33	9,965.24	146.86	148.98	162.89	-80.09	6,211.46	2,250.86	2,117.53	133.33	16.881			
14,100.00	7,815.00	16,241.33	9,965.10	149.13	151.23	162.89	-80.14	6,311.46	2,250.72	2,115.43	135.29	16.636			
14,200.00	7,815.00	16,341.33	9,964.97	151.40	153.48	162.89	-80.19	6,411.46	2,250.59	2,113.34	137.25	16.398			
14,300.00	7,815.00	16,441.33	9,964.84	153.66	155.72	162.89	-80.24	6,511.46	2,250.45	2,111.24	139.21	16.166			
14,400.00	7,815.00	16,541.33	9,964.71	155.93	157.98	162.89	-80.28	6,611.46	2,250.32	2,109.15	141.17	15.940			
14,500.00	7,815.00	16,641.33	9,964.57	158.20	160.23	162.89	-80.33	6,711.46	2,250.18	2,107.05	143.13	15.721			
14,600.00	7,815.00	16,741.33	9,964.44	160.47	162.48	162.89	-80.38	6,811.46	2,250.05	2,104.95	145.10	15.507			
14,700.00	7,815.00	16,841.33	9,964.31	162.75	164.74	162.89	-80.43	6,911.46	2,249.91	2,102.84	147.07	15.298			
14,800.00	7,815.00	16,941.33	9,964.18	165.02	166.99	162.89	-80.48	7,011.46	2,249.77	2,100.74	149.04	15.095			
14,900.00	7,815.00	17,041.33	9,964.04	167.29	169.25	162.89	-80.53	7,111.46	2,249.64	2,098.63	151.01	14.898			
15,000.00	7,815.00	17,141.33	9,963.91	169.57	171.51	162.89	-80.57	7,211.46	2,249.50	2,096.52	152.98	14.705			
15,100.00	7,815.00	17,241.33	9,963.78	171.84	173.77	162.89	-80.62	7,311.46	2,249.37	2,094.41	154.95	14.516			
15,200.00	7,815.00	17,341.33	9,963.65	174.12	176.04	162.89	-80.67	7,411.46	2,249.23	2,092.30	156.93	14.333			

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
MD Reference: 3240 + 28.5 = KB @ 3268.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Offset Design Leatherneck 3029 Fed Com - #242H - OH - Prelim A														Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HDGM														Offset Well Error:	0.00 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)	Between Ellipses (usft)		
15,300.00	7,815.00	17,441.33	9,963.51	176.40	178.30	162.89	-80.72	7,511.46	2,249.09	2,090.19	158.91	14.154			
15,400.00	7,815.00	17,541.33	9,963.38	178.68	180.56	162.89	-80.77	7,611.46	2,248.96	2,088.07	160.89	13.979			
15,500.00	7,815.00	17,641.33	9,963.25	180.96	182.83	162.89	-80.82	7,711.46	2,248.82	2,085.96	162.86	13.808			
15,600.00	7,815.00	17,741.33	9,963.12	183.24	185.10	162.89	-80.86	7,811.46	2,248.69	2,083.84	164.85	13.641			
15,700.00	7,815.00	17,841.33	9,962.98	185.52	187.36	162.89	-80.91	7,911.46	2,248.55	2,081.72	166.83	13.478			
15,800.00	7,815.00	17,941.33	9,962.85	187.80	189.63	162.89	-80.96	8,011.46	2,248.42	2,079.60	168.81	13.319			
15,900.00	7,815.00	18,041.33	9,962.72	190.08	191.90	162.89	-81.01	8,111.46	2,248.28	2,077.48	170.80	13.164			
16,000.00	7,815.00	18,141.33	9,962.59	192.36	194.17	162.88	-81.06	8,211.46	2,248.14	2,075.36	172.78	13.011			
16,100.00	7,815.00	18,241.33	9,962.45	194.65	196.45	162.88	-81.11	8,311.46	2,248.01	2,073.24	174.77	12.863			
16,200.00	7,815.00	18,341.33	9,962.32	196.93	198.72	162.88	-81.15	8,411.46	2,247.87	2,071.12	176.76	12.717			
16,300.00	7,815.00	18,441.33	9,962.19	199.21	200.99	162.88	-81.20	8,511.46	2,247.74	2,068.99	178.74	12.575			
16,400.00	7,815.00	18,541.33	9,962.06	201.50	203.27	162.88	-81.25	8,611.46	2,247.60	2,066.87	180.73	12.436			
16,500.00	7,815.00	18,641.33	9,961.92	203.79	205.54	162.88	-81.30	8,711.46	2,247.46	2,064.74	182.72	12.300			
16,600.00	7,815.00	18,741.33	9,961.79	206.07	207.82	162.88	-81.35	8,811.46	2,247.33	2,062.61	184.72	12.166			
16,700.00	7,815.00	18,841.33	9,961.66	208.36	210.09	162.88	-81.40	8,911.46	2,247.19	2,060.48	186.71	12.036			
16,800.00	7,815.00	18,941.33	9,961.53	210.65	212.37	162.88	-81.44	9,011.46	2,247.06	2,058.36	188.70	11.908			
16,900.00	7,815.00	19,041.33	9,961.39	212.93	214.65	162.88	-81.49	9,111.46	2,246.92	2,056.23	190.70	11.783			
17,000.00	7,815.00	19,141.33	9,961.26	215.22	216.92	162.88	-81.54	9,211.46	2,246.79	2,054.09	192.69	11.660			
17,100.00	7,815.00	19,241.33	9,961.13	217.51	219.20	162.88	-81.59	9,311.46	2,246.65	2,051.96	194.69	11.540			
17,200.00	7,815.00	19,341.33	9,960.99	219.80	221.48	162.88	-81.64	9,411.46	2,246.51	2,049.83	196.68	11.422			
17,300.00	7,815.00	19,441.33	9,960.86	222.09	223.76	162.88	-81.69	9,511.46	2,246.38	2,047.70	198.68	11.306			
17,400.00	7,815.00	19,541.33	9,960.73	224.38	226.04	162.88	-81.73	9,611.46	2,246.24	2,045.56	200.68	11.193			
17,500.00	7,815.00	19,641.33	9,960.60	226.67	228.33	162.88	-81.78	9,711.46	2,246.11	2,043.43	202.68	11.082			
17,600.00	7,815.00	19,741.33	9,960.46	228.96	230.61	162.88	-81.83	9,811.46	2,245.97	2,041.29	204.68	10.973			
17,700.00	7,815.00	19,841.33	9,960.33	231.25	232.89	162.88	-81.88	9,911.45	2,245.83	2,039.16	206.68	10.866			
17,800.00	7,815.00	19,941.33	9,960.20	233.54	235.17	162.88	-81.93	10,011.45	2,245.70	2,037.02	208.68	10.762			
17,900.00	7,815.00	20,041.33	9,960.07	235.83	237.46	162.88	-81.98	10,111.45	2,245.56	2,034.89	210.68	10.659			
17,952.07	7,815.00	20,093.40	9,960.00	237.02	238.65	162.88	-82.00	10,163.53	2,245.49	2,033.77	211.72	10.606			

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

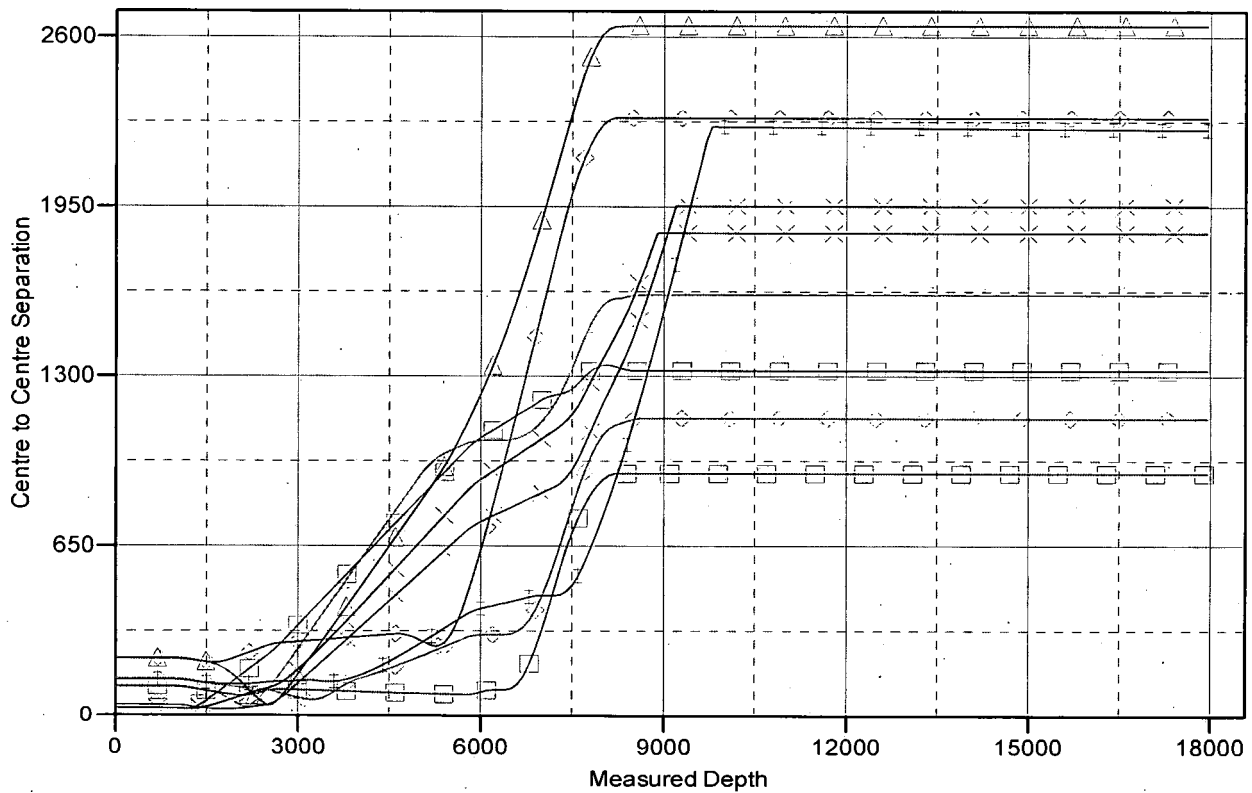
Local Co-ordinate Reference: Well #125H
TVD Reference: $3240 + 28.5 = \text{KB @ } 3268.50\text{usft (Patt 809)}$
MD Reference: $3240 + 28.5 = \text{KB @ } 3268.50\text{usft (Patt 809)}$
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to $3240 + 28.5 = \text{KB @ } 3268.50\text{usft}$ (Pat Coordinates are relative to: #125H)

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: 0.11°

Ladder Plot



LEGEND

#125H, OH, Prelim A VO #242H, OH, Prelim A VO #105H, OH, Prelim A VO
#110H, OH, Prelim A VO #112H, OH, Prelim A VO #209H, OH, Prelim A VO
#115H, OH, Prelim A VO #136H, OH, Prelim A VO #106H, OH, Prelim A VO

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #125H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #125H
TVD Reference: $3240 + 28.5 = \text{KB @ } 3268.50\text{usft (Patt 809)}$
MD Reference: $3240 + 28.5 = \text{KB @ } 3268.50\text{usft (Patt 809)}$
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

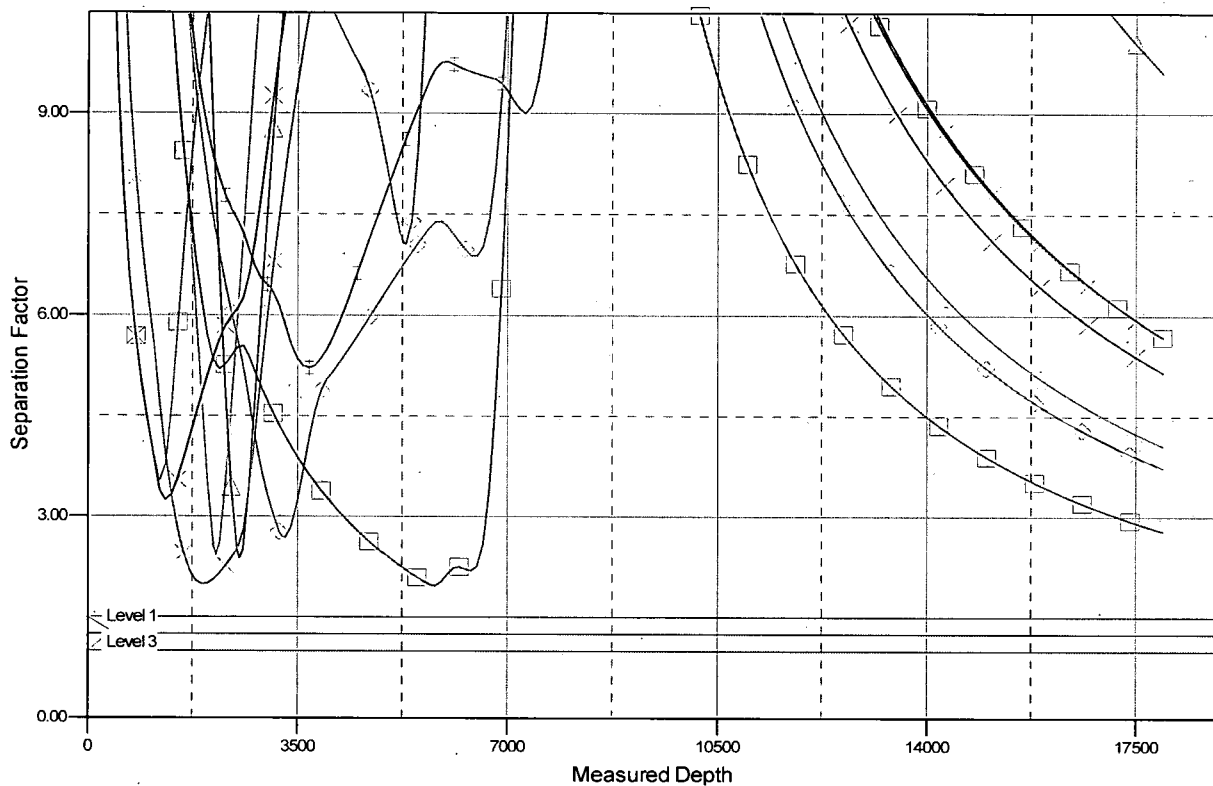
Reference Depths are relative to $3240 + 28.5 = \text{KB @ } 3268.50\text{usft}$ (Pat Coordinates are relative to: #125H)

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: 0.11°

Separation Factor Plot



LEGEND

#125H, OH, Prelim A VO	#242H, OH, Prelim A VO	#105H, OH, Prelim A VO
#118H, OH, Prelim A VO	#112H, OH, Prelim A VO	#208H, OH, Prelim A VO
#115H, OH, Prelim A VO	#136H, OH, Prelim A VO	#109H, OH, Prelim A VO