

Matador Resources

**Eddy County, NM (NAD27)
Leatherneck 3029 Fed Com
#206H**

**OH
Prelim A**

Anticollision Report

22 May, 2019

Pro Directional Anticollision Report

Company:	Matador Resources	Local Co-ordinate Reference:	Well #206H
Project:	Eddy County, NM (NAD27)	TVD Reference:	3241 + 28.5 = KB @ 3269.50usft (Patt 809)
Reference Site:	Leatherneck 3029 Fed Com	MD Reference:	3241 + 28.5 = KB @ 3269.50usft (Patt 809)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	#206H	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

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	19,410.64	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	1,000.00	1,001.00	190.00	183.29	28.306	CC, ES
#105H - OH - Prelim A	1,800.00	1,780.32	215.33	203.10	17.602	SF
#106H - OH - Prelim A	2,820.34	2,842.46	60.81	40.91	3.056	CC, ES
#106H - OH - Prelim A	2,900.00	2,921.49	61.63	41.11	3.003	SF
#112H - OH - Prelim A	1,000.00	1,002.00	110.00	103.28	16.379	CC, ES
#112H - OH - Prelim A	2,600.00	2,602.08	136.17	118.16	7.563	SF
#115H - OH - Prelim A	1,000.00	1,000.00	80.00	73.29	11.925	CC, ES
#115H - OH - Prelim A	2,100.00	2,096.76	102.37	87.91	7.082	SF
#116H - OH - Prelim A	2,237.10	2,245.47	58.51	43.14	3.806	CC, ES
#116H - OH - Prelim A	2,300.00	2,306.83	60.12	44.28	3.796	SF
#125H - OH - Prelim A	1,777.11	1,777.46	25.23	13.08	2.077	CC
#125H - OH - Prelim A	1,900.00	1,900.20	25.94	12.92	1.992	ES, SF
#126H - OH - Prelim A	1,000.00	999.00	30.00	23.29	4.474	CC, ES
#126H - OH - Prelim A	1,100.00	1,097.97	30.95	23.56	4.190	SF
#136H - OH - Prelim A	1,000.00	999.00	30.00	23.29	4.474	CC
#136H - OH - Prelim A	19,411.49	19,287.75	144.00	-21.64	0.869	Level 1, ES, SF
#242H - OH - Prelim A	1,000.00	1,002.00	114.02	107.30	16.977	CC, ES
#242H - OH - Prelim A	19,411.49	20,095.97	967.86	619.13	2.775	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			Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	-1.00	0.00	0.00	0.00	190.00	0.00	190.00				
100.00	100.00	101.00	99.00	0.13	0.13	0.00	190.00	0.00	190.00	189.74	0.26	731.072	
200.00	200.00	201.00	199.00	0.49	0.49	0.00	190.00	0.00	190.00	189.02	0.98	194.506	
300.00	300.00	301.00	299.00	0.85	0.85	0.00	190.00	0.00	190.00	188.31	1.69	112.175	
400.00	400.00	401.00	399.00	1.20	1.21	0.00	190.00	0.00	190.00	187.59	2.41	78.815	
500.00	500.00	501.00	499.00	1.56	1.57	0.00	190.00	0.00	190.00	186.87	3.13	60.748	
600.00	600.00	601.00	599.00	1.92	1.92	0.00	190.00	0.00	190.00	186.16	3.84	49.420	
700.00	700.00	701.00	699.00	2.28	2.28	0.00	190.00	0.00	190.00	185.44	4.56	41.653	
800.00	800.00	801.00	799.00	2.64	2.64	0.00	190.00	0.00	190.00	184.72	5.28	35.995	
900.00	900.00	901.00	899.00	3.00	3.00	0.00	190.00	0.00	190.00	184.00	6.00	31.691	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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					
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	0.00	190.00	0.00	190.00	183.29	6.71	28.306	CC, ES				
1,100.00	1,099.98	1,101.02	1,098.98	3.70	3.72	115.46	190.00	0.00	190.74	183.33	7.42	25.716					
1,200.00	1,199.92	1,201.08	1,198.92	4.04	4.08	116.40	190.00	0.00	192.27	184.16	8.11	23.697					
1,300.00	1,299.86	1,301.14	1,298.86	4.38	4.43	117.32	190.00	0.00	193.85	185.04	8.81	21.994					
1,400.00	1,399.80	1,401.20	1,398.80	4.72	4.79	118.23	190.00	0.00	195.48	185.96	9.52	20.540					
1,500.00	1,499.74	1,498.74	1,498.74	5.07	5.14	119.13	190.00	0.00	197.15	186.94	10.21	19.304					
1,600.00	1,599.68	1,592.92	1,592.91	5.42	5.48	119.75	191.39	-0.58	200.29	189.40	10.89	18.385					
1,700.00	1,699.61	1,686.82	1,686.69	5.77	5.82	119.96	195.62	-2.33	206.36	194.80	11.57	17.839					
1,800.00	1,799.55	1,780.32	1,779.87	6.12	6.15	119.77	202.66	-5.25	215.33	203.10	12.23	17.602	SF				
1,900.00	1,899.49	1,873.39	1,872.33	6.48	6.49	119.25	212.44	-9.31	227.18	214.29	12.89	17.627					
2,000.00	1,999.43	1,972.47	1,970.59	6.83	6.84	118.58	224.25	-14.21	240.41	226.81	13.59	17.686					
2,100.00	2,099.37	2,071.56	2,068.84	7.19	7.21	117.99	236.06	-19.11	253.67	239.36	14.30	17.736					
2,200.00	2,199.31	2,170.64	2,167.10	7.54	7.57	117.45	247.87	-24.01	266.95	251.94	15.01	17.781					
2,300.00	2,299.25	2,269.72	2,265.36	7.90	7.94	116.96	259.68	-28.90	280.25	264.53	15.73	17.821					
2,400.00	2,399.19	2,368.81	2,363.61	8.25	8.31	116.52	271.48	-33.80	293.57	277.13	16.44	17.858					
2,500.00	2,499.13	2,467.89	2,461.87	8.61	8.68	116.12	283.29	-38.70	306.91	289.76	17.15	17.891					
2,600.00	2,599.03	2,566.73	2,559.88	8.97	9.06	151.54	295.07	-43.59	321.95	304.08	17.87	18.018					
2,700.00	2,698.77	2,664.97	2,657.30	9.32	9.43	164.83	306.78	-48.44	340.41	321.83	18.58	18.325					
2,800.00	2,798.24	2,762.52	2,754.04	9.67	9.80	169.60	318.40	-53.27	362.18	342.90	19.28	18.786					
2,900.00	2,897.62	2,859.86	2,850.56	10.03	10.17	169.17	330.00	-58.08	384.96	364.98	19.98	19.270					
3,000.00	2,996.99	2,957.19	2,947.07	10.39	10.55	168.78	341.60	-62.89	407.76	387.08	20.68	19.721					
3,100.00	3,096.37	3,054.52	3,043.59	10.75	10.92	168.44	353.20	-67.70	430.57	409.19	21.38	20.141					
3,200.00	3,195.74	3,151.85	3,140.11	11.11	11.29	168.12	364.80	-72.51	453.39	431.31	22.08	20.533					
3,300.00	3,295.12	3,249.19	3,236.63	11.48	11.67	167.84	376.40	-77.33	476.23	453.45	22.78	20.901					
3,400.00	3,394.49	3,346.52	3,333.15	11.84	12.04	167.59	388.00	-82.14	499.08	475.59	23.49	21.246					
3,500.00	3,493.87	3,443.85	3,429.67	12.21	12.42	167.36	399.60	-86.95	521.93	497.74	24.20	21.570					
3,600.00	3,593.24	3,541.18	3,526.19	12.58	12.80	167.14	411.20	-91.76	544.79	519.89	24.90	21.876					
3,700.00	3,692.61	3,638.52	3,622.71	12.95	13.17	166.95	422.80	-96.57	567.66	542.05	25.61	22.164					
3,800.00	3,791.99	3,735.85	3,719.22	13.33	13.55	166.77	434.40	-101.39	590.54	564.22	26.32	22.435					
3,900.00	3,891.36	3,833.18	3,815.74	13.70	13.93	166.60	446.00	-106.20	613.42	586.39	27.03	22.692					
4,000.00	3,990.74	3,930.51	3,912.26	14.07	14.31	166.44	457.60	-111.01	636.30	608.56	27.74	22.936					
4,100.00	4,090.11	4,027.84	4,008.78	14.45	14.69	166.30	469.20	-115.82	659.19	630.74	28.45	23.167					
4,200.00	4,189.49	4,125.18	4,105.30	14.83	15.07	166.16	480.80	-120.63	682.09	652.92	29.17	23.386					
4,300.00	4,288.86	4,222.51	4,201.82	15.20	15.45	166.04	492.40	-125.44	704.98	675.10	29.88	23.594					
4,400.00	4,388.24	4,319.84	4,298.34	15.58	15.83	165.92	504.00	-130.26	727.88	697.29	30.59	23.793					
4,500.00	4,487.61	4,417.17	4,394.86	15.96	16.21	165.81	515.60	-135.07	750.78	719.48	31.31	23.982					
4,600.00	4,586.98	4,514.51	4,491.37	16.34	16.59	165.70	527.20	-139.88	773.69	741.67	32.02	24.162					
4,700.00	4,686.36	4,632.59	4,608.60	16.72	17.04	165.61	540.28	-145.31	795.84	762.96	32.88	24.205					
4,800.00	4,785.73	4,766.64	4,742.23	17.10	17.54	165.64	549.98	-149.33	814.03	780.23	33.80	24.085					
4,900.00	4,885.11	4,902.61	4,878.12	17.48	18.02	165.81	553.92	-150.97	827.81	793.15	34.66	23.882					
5,000.00	4,984.48	5,011.23	4,986.71	17.86	18.39	166.08	554.00	-149.95	838.64	803.24	35.40	23.693					
5,100.00	5,083.86	5,117.59	5,091.67	18.25	18.71	167.37	553.99	-133.72	848.70	812.61	36.09	23.515					
5,200.00	5,183.23	5,214.27	5,183.01	18.63	18.98	169.62	553.98	-102.38	858.92	822.17	36.75	23.371					
5,300.00	5,282.61	5,297.94	5,256.85	19.01	19.18	172.32	553.96	-83.19	871.16	833.79	37.36	23.317					
5,400.00	5,381.98	5,368.22	5,313.92	19.40	19.33	175.07	553.94	-22.25	887.28	849.40	37.88	23.424					
5,500.00	5,481.36	5,426.43	5,357.11	19.78	19.44	177.62	553.92	16.74	908.77	870.52	38.25	23.760					
5,600.00	5,580.73	5,474.51	5,389.65	20.16	19.52	179.89	553.90	52.12	936.56	898.13	38.42	24.375					
5,700.00	5,680.10	5,514.36	5,414.29	20.55	19.63	-178.15	553.89	83.43	971.03	932.64	38.39	25.294					
5,800.00	5,779.48	5,550.00	5,434.44	20.93	19.80	-176.34	553.87	112.82	1,012.17	973.99	38.19	26.507					
5,900.00	5,878.85	5,575.65	5,447.80	21.32	19.94	-175.01	553.86	134.72	1,059.65	1,021.88	37.78	28.051					
6,000.00	5,978.23	5,600.00	5,459.55	21.71	20.08	-173.74	553.85	156.04	1,112.99	1,075.73	37.27	29.866					
6,100.00	6,077.60	5,619.88	5,468.47	22.09	20.22	-172.69	553.84	173.81	1,171.61	1,134.94	36.67	31.947					

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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						
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
6,200.00	6,176.98	5,637.54	5,475.87	22.48	20.33	-171.76	553.84	189.84	1,234.91	1,198.88	36.04	34.265	
6,300.00	6,276.35	5,650.00	5,480.80	22.86	20.42	-171.10	553.83	201.28	1,302.35	1,267.00	35.35	36.838	
6,400.00	6,375.73	5,666.47	5,486.92	23.25	20.54	-170.23	553.82	216.57	1,373.36	1,338.61	34.76	39.515	
6,500.00	6,475.10	5,678.43	5,491.09	23.64	20.63	-169.60	553.82	227.78	1,447.52	1,413.37	34.14	42.396	
6,600.00	6,574.48	5,700.00	5,498.02	24.02	20.80	-168.46	553.81	248.20	1,524.50	1,490.81	33.69	45.249	
6,700.00	6,673.85	5,700.00	5,498.02	24.41	20.80	-168.46	553.81	248.20	1,603.62	1,570.58	33.04	48.537	
6,800.00	6,773.22	5,700.00	5,498.02	24.80	20.80	-168.46	553.81	248.20	1,684.97	1,652.52	32.45	51.931	
6,900.00	6,872.60	5,700.00	5,498.02	25.18	20.80	-168.46	553.81	248.20	1,768.22	1,736.31	31.91	55.407	
7,000.00	6,971.97	5,721.99	5,504.28	25.57	20.98	-167.31	553.80	269.28	1,852.66	1,820.98	31.68	58.480	
7,100.00	7,071.35	5,728.42	5,505.96	25.96	21.04	-166.97	553.79	275.49	1,938.69	1,907.37	31.32	61.898	
7,200.00	7,170.72	5,750.00	5,511.08	26.35	21.22	-165.85	553.78	296.45	2,026.18	1,995.01	31.16	65.018	
7,300.00	7,270.10	5,750.00	5,511.08	26.74	21.22	-165.85	553.78	296.45	2,114.35	2,083.52	30.83	68.589	
7,400.00	7,369.47	5,750.00	5,511.08	27.12	21.22	-165.85	553.78	296.45	2,203.54	2,173.00	30.53	72.167	
7,500.00	7,468.85	5,750.00	5,511.08	27.51	21.22	-165.85	553.78	296.45	2,293.61	2,263.33	30.28	75.740	
7,600.00	7,568.22	5,750.00	5,511.08	27.90	21.22	-165.85	553.78	296.45	2,384.48	2,354.41	30.07	79.298	
7,700.00	7,667.59	5,750.00	5,511.08	28.29	21.22	-165.85	553.78	296.45	2,476.05	2,446.16	29.89	82.832	
7,800.00	7,766.97	5,750.00	5,511.08	28.68	21.22	-165.85	553.78	296.45	2,568.26	2,538.51	29.75	86.336	
7,900.00	7,866.34	5,750.00	5,511.08	29.07	21.22	-165.85	553.78	296.45	2,661.02	2,631.39	29.63	89.801	
8,000.00	7,965.72	5,750.00	5,511.08	29.46	21.22	-165.85	553.78	296.45	2,754.29	2,724.75	29.55	93.223	
8,100.00	8,065.09	5,770.98	5,515.30	29.84	21.42	-164.76	553.77	317.00	2,847.59	2,817.93	29.66	96.013	
8,200.00	8,164.47	5,773.83	5,515.82	30.23	21.44	-164.62	553.77	319.80	2,941.61	2,911.97	29.64	99.246	
8,300.00	8,263.97	5,776.56	5,516.30	30.62	21.47	-165.67	553.77	322.49	3,035.60	3,005.96	29.63	102.446	
8,400.00	8,363.75	5,779.24	5,516.76	30.99	21.50	-166.77	553.77	325.13	3,128.80	3,099.18	29.62	105.636	
8,500.00	8,463.70	5,800.00	5,519.89	31.34	21.69	-166.98	553.76	345.65	3,221.48	3,191.74	29.74	108.319	
8,600.00	8,563.70	5,800.00	5,519.89	31.66	21.69	-22.88	553.76	345.65	3,313.17	3,283.47	29.70	111.544	
8,700.00	8,663.70	5,800.00	5,519.89	31.97	21.69	-22.88	553.76	345.65	3,405.24	3,375.55	29.69	114.701	
8,800.00	8,763.42	5,800.00	5,519.89	32.29	21.69	-58.29	553.76	345.65	3,496.94	3,467.26	29.68	117.808	
8,900.00	8,860.67	5,800.00	5,519.89	32.60	21.69	-43.64	553.76	345.65	3,585.30	3,555.63	29.67	120.846	
9,000.00	8,952.49	5,800.00	5,519.89	32.88	21.69	-34.39	553.76	345.65	3,667.95	3,638.30	29.64	123.733	
9,100.00	9,038.10	5,800.00	5,519.89	33.12	21.69	-28.48	553.76	345.65	3,742.82	3,713.20	29.62	126.374	
9,200.00	9,108.94	5,822.03	5,522.41	33.32	21.91	-24.57	553.75	367.54	3,807.70	3,777.96	29.74	128.033	
9,300.00	9,168.81	5,850.00	5,524.38	33.50	22.20	-22.02	553.74	395.43	3,861.73	3,831.81	29.92	129.082	
9,400.00	9,213.90	5,850.00	5,524.38	33.70	22.20	-20.38	553.74	395.43	3,902.78	3,872.81	29.97	130.224	
9,500.00	9,242.82	5,850.00	5,524.38	34.07	22.20	-19.39	553.74	395.43	3,930.76	3,900.67	30.10	130.602	
9,600.00	9,254.70	5,876.53	5,525.00	34.66	22.48	-18.96	553.72	421.96	3,944.69	3,914.23	30.46	129.515	
9,700.00	9,255.00	5,939.29	5,525.00	35.41	23.21	-19.10	553.69	484.71	3,949.08	3,917.97	31.11	126.953	
9,800.00	9,255.00	6,038.81	5,525.00	36.29	24.47	-19.29	553.64	584.24	3,952.26	3,920.22	32.05	123.323	
9,900.00	9,255.00	6,138.62	5,525.00	37.28	25.88	-19.42	553.60	684.04	3,954.31	3,921.23	33.09	119.517	
10,000.00	9,255.00	6,238.58	5,525.00	38.38	27.41	-19.47	553.55	784.00	3,955.21	3,921.00	34.21	115.631	
10,100.00	9,255.00	6,338.58	5,525.00	39.57	29.05	-19.47	553.50	884.00	3,955.26	3,919.86	35.40	111.734	
10,200.00	9,255.00	6,438.58	5,525.00	40.86	30.77	-19.47	553.45	984.00	3,955.27	3,918.60	36.67	107.847	
10,300.00	9,255.00	6,538.58	5,525.00	42.24	32.56	-19.47	553.40	1,084.00	3,955.28	3,917.26	38.03	104.015	
10,400.00	9,255.00	6,638.58	5,525.00	43.69	34.42	-19.48	553.35	1,184.00	3,955.30	3,915.85	39.44	100.276	
10,500.00	9,255.00	6,738.58	5,525.00	45.22	36.32	-19.48	553.31	1,284.00	3,955.31	3,914.39	40.92	96.653	
10,600.00	9,255.00	6,838.58	5,525.00	46.81	38.27	-19.48	553.26	1,384.00	3,955.32	3,912.86	42.46	93.165	
10,700.00	9,255.00	6,938.58	5,525.00	48.45	40.26	-19.48	553.21	1,484.00	3,955.33	3,911.30	44.04	89.820	
10,800.00	9,255.00	7,038.58	5,525.00	50.15	42.28	-19.48	553.16	1,584.00	3,955.34	3,909.68	45.66	86.623	
10,900.00	9,255.00	7,138.58	5,525.00	51.90	44.33	-19.48	553.11	1,684.00	3,955.36	3,908.03	47.33	83.576	
11,000.00	9,255.00	7,238.58	5,525.00	53.69	46.40	-19.48	553.06	1,784.00	3,955.37	3,906.34	49.03	80.678	
11,100.00	9,255.00	7,338.58	5,525.00	55.52	48.50	-19.48	553.02	1,884.00	3,955.38	3,904.62	50.76	77.925	
11,200.00	9,255.00	7,438.58	5,525.00	57.38	50.61	-19.48	552.97	1,984.00	3,955.39	3,902.87	52.52	75.311	
11,300.00	9,255.00	7,538.58	5,525.00	59.28	52.74	-19.48	552.92	2,084.00	3,955.41	3,901.10	54.31	72.832	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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 Tooface (")	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,400.00	9,255.00	7,638.58	5,525.00	61.20	54.88	-19.48	552.87	2,184.00	3,955.42	3,899.30	56.12	70.480				
11,500.00	9,255.00	7,738.58	5,525.00	63.15	57.04	-19.48	552.82	2,284.00	3,955.43	3,897.48	57.96	68.250				
11,600.00	9,255.00	7,838.58	5,525.00	65.12	59.21	-19.48	552.77	2,384.00	3,955.44	3,895.63	59.81	66.134				
11,700.00	9,255.00	7,938.58	5,525.00	67.11	61.39	-19.48	552.73	2,484.00	3,955.46	3,893.77	61.68	64.127				
11,800.00	9,255.00	8,038.58	5,525.00	69.12	63.58	-19.48	552.68	2,584.00	3,955.47	3,891.90	63.57	62.222				
11,900.00	9,255.00	8,138.58	5,525.00	71.15	65.77	-19.48	552.63	2,684.00	3,955.48	3,890.00	65.47	60.412				
12,000.00	9,255.00	8,238.58	5,525.00	73.20	67.98	-19.48	552.58	2,784.00	3,955.49	3,888.10	67.39	58.693				
12,100.00	9,255.00	8,338.58	5,525.00	75.26	70.19	-19.48	552.53	2,884.00	3,955.50	3,886.18	69.32	57.058				
12,200.00	9,255.00	8,438.58	5,525.00	77.34	72.40	-19.48	552.48	2,984.00	3,955.52	3,884.25	71.27	55.502				
12,300.00	9,255.00	8,538.58	5,525.00	79.43	74.62	-19.48	552.44	3,084.00	3,955.53	3,882.31	73.22	54.021				
12,400.00	9,255.00	8,638.58	5,525.00	81.53	76.85	-19.49	552.39	3,184.00	3,955.54	3,880.35	75.19	52.610				
12,500.00	9,255.00	8,738.58	5,525.00	83.64	79.08	-19.49	552.34	3,284.00	3,955.55	3,878.39	77.16	51.264				
12,600.00	9,255.00	8,838.58	5,525.00	85.76	81.32	-19.49	552.29	3,384.00	3,955.57	3,876.42	79.14	49.980				
12,700.00	9,255.00	8,938.58	5,525.00	87.90	83.56	-19.49	552.24	3,484.00	3,955.58	3,874.44	81.13	48.754				
12,800.00	9,255.00	9,038.58	5,525.00	90.04	85.80	-19.49	552.19	3,584.00	3,955.59	3,872.46	83.13	47.582				
12,900.00	9,255.00	9,138.58	5,525.00	92.18	88.05	-19.49	552.15	3,684.00	3,955.60	3,870.47	85.14	46.462				
13,000.00	9,255.00	9,238.58	5,525.00	94.34	90.30	-19.49	552.10	3,784.00	3,955.61	3,868.47	87.15	45.390				
13,100.00	9,255.00	9,338.58	5,525.00	96.50	92.55	-19.49	552.05	3,884.00	3,955.63	3,866.46	89.17	44.363				
13,200.00	9,255.00	9,438.58	5,525.00	98.67	94.81	-19.49	552.00	3,984.00	3,955.64	3,864.45	91.19	43.378				
13,300.00	9,255.00	9,538.58	5,525.00	100.85	97.07	-19.49	551.95	4,084.00	3,955.65	3,862.43	93.22	42.434				
13,400.00	9,255.00	9,638.58	5,525.00	103.03	99.33	-19.49	551.90	4,184.00	3,955.66	3,860.41	95.25	41.528				
13,500.00	9,255.00	9,738.58	5,525.00	105.22	101.59	-19.49	551.86	4,284.00	3,955.68	3,858.39	97.29	40.658				
13,600.00	9,255.00	9,838.58	5,525.00	107.41	103.85	-19.49	551.81	4,384.00	3,955.69	3,856.35	99.33	39.822				
13,700.00	9,255.00	9,938.58	5,525.00	109.60	106.12	-19.49	551.76	4,484.00	3,955.70	3,854.32	101.38	39.018				
13,800.00	9,255.00	10,038.58	5,525.00	111.81	108.39	-19.49	551.71	4,584.00	3,955.71	3,852.28	103.43	38.244				
13,900.00	9,255.00	10,138.58	5,525.00	114.01	110.66	-19.49	551.66	4,684.00	3,955.73	3,850.24	105.49	37.500				
14,000.00	9,255.00	10,238.58	5,525.00	116.22	112.93	-19.49	551.61	4,784.00	3,955.74	3,848.19	107.55	36.782				
14,100.00	9,255.00	10,338.58	5,525.00	118.43	115.20	-19.49	551.57	4,884.00	3,955.75	3,846.14	109.61	36.090				
14,200.00	9,255.00	10,438.58	5,525.00	120.65	117.48	-19.49	551.52	4,984.00	3,955.76	3,844.09	111.67	35.423				
14,300.00	9,255.00	10,538.58	5,525.00	122.87	119.75	-19.49	551.47	5,084.00	3,955.77	3,842.03	113.74	34.779				
14,400.00	9,255.00	10,638.58	5,525.00	125.09	122.03	-19.50	551.42	5,184.00	3,955.79	3,839.98	115.81	34.157				
14,500.00	9,255.00	10,738.58	5,525.00	127.32	124.31	-19.50	551.37	5,284.00	3,955.80	3,837.91	117.88	33.557				
14,600.00	9,255.00	10,838.58	5,525.00	129.55	126.59	-19.50	551.32	5,384.00	3,955.81	3,835.85	119.96	32.976				
14,700.00	9,255.00	10,938.58	5,525.00	131.78	128.87	-19.50	551.28	5,484.00	3,955.82	3,833.79	122.04	32.415				
14,800.00	9,255.00	11,038.58	5,525.00	134.02	131.15	-19.50	551.23	5,584.00	3,955.84	3,831.72	124.12	31.871				
14,900.00	9,255.00	11,138.58	5,525.00	136.25	133.43	-19.50	551.18	5,684.00	3,955.85	3,829.65	126.20	31.345				
15,000.00	9,255.00	11,238.58	5,525.00	138.49	135.71	-19.50	551.13	5,784.00	3,955.86	3,827.57	128.29	30.836				
15,100.00	9,255.00	11,338.58	5,525.00	140.74	138.00	-19.50	551.08	5,884.00	3,955.87	3,825.50	130.37	30.343				
15,200.00	9,255.00	11,438.58	5,525.00	142.98	140.28	-19.50	551.03	5,984.00	3,955.88	3,823.42	132.46	29.864				
15,300.00	9,255.00	11,538.58	5,525.00	145.23	142.57	-19.50	550.99	6,084.00	3,955.90	3,821.35	134.55	29.400				
15,400.00	9,255.00	11,638.58	5,525.00	147.47	144.86	-19.50	550.94	6,184.00	3,955.91	3,819.27	136.64	28.950				
15,500.00	9,255.00	11,738.58	5,525.00	149.72	147.14	-19.50	550.89	6,284.00	3,955.92	3,817.18	138.74	28.514				
15,600.00	9,255.00	11,838.58	5,525.00	151.97	149.43	-19.50	550.84	6,384.00	3,955.93	3,815.10	140.83	28.089				
15,700.00	9,255.00	11,938.58	5,525.00	154.23	151.72	-19.50	550.79	6,484.00	3,955.95	3,813.02	142.93	27.677				
15,800.00	9,255.00	12,038.58	5,525.00	156.48	154.01	-19.50	550.74	6,584.00	3,955.96	3,810.93	145.03	27.277				
15,900.00	9,255.00	12,138.58	5,525.00	158.74	156.30	-19.50	550.70	6,684.00	3,955.97	3,808.84	147.13	26.888				
16,000.00	9,255.00	12,238.58	5,525.00	161.00	158.59	-19.50	550.65	6,784.00	3,955.98	3,806.75	149.23	26.509				
16,100.00	9,255.00	12,338.58	5,525.00	163.26	160.88	-19.50	550.60	6,884.00	3,956.00	3,804.66	151.33	26.141				
16,200.00	9,255.00	12,438.58	5,525.00	165.52	163.17	-19.50	550.55	6,984.00	3,956.01	3,802.57	153.44	25.783				
16,300.00	9,255.00	12,538.58	5,525.00	167.78	165.46	-19.50	550.50	7,084.00	3,956.02	3,800.48	155.54	25.434				
16,400.00	9,255.00	12,638.58	5,525.00	170.04	167.75	-19.51	550.45	7,184.00	3,956.03	3,798.39	157.65	25.094				
16,500.00	9,255.00	12,738.58	5,525.00	172.31	170.04	-19.51	550.41	7,284.00	3,956.04	3,796.29	159.75	24.763				

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		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)							
16,600.00	9,255.00	12,838.58	5,525.00	174.57	172.34	-19.51	550.36	7,384.00	3,956.06	3,794.20	161.86	24.441			
16,700.00	9,255.00	12,938.58	5,525.00	176.84	174.63	-19.51	550.31	7,484.00	3,956.07	3,792.10	163.97	24.127			
16,800.00	9,255.00	13,038.58	5,525.00	179.11	176.92	-19.51	550.26	7,584.00	3,956.08	3,790.00	166.08	23.820			
16,900.00	9,255.00	13,138.58	5,525.00	181.37	179.22	-19.51	550.21	7,684.00	3,956.09	3,787.90	168.19	23.521			
17,000.00	9,255.00	13,238.58	5,525.00	183.64	181.51	-19.51	550.16	7,784.00	3,956.11	3,785.80	170.30	23.230			
17,100.00	9,255.00	13,338.58	5,525.00	185.91	183.81	-19.51	550.12	7,884.00	3,956.12	3,783.70	172.42	22.945			
17,200.00	9,255.00	13,438.58	5,525.00	188.19	186.10	-19.51	550.07	7,984.00	3,956.13	3,781.60	174.53	22.667			
17,300.00	9,255.00	13,538.58	5,525.00	190.46	188.40	-19.51	550.02	8,084.00	3,956.14	3,779.50	176.64	22.396			
17,400.00	9,255.00	13,638.58	5,525.00	192.73	190.69	-19.51	549.97	8,184.00	3,956.16	3,777.40	178.76	22.131			
17,500.00	9,255.00	13,738.58	5,525.00	195.01	192.99	-19.51	549.92	8,284.00	3,956.17	3,775.29	180.88	21.872			
17,600.00	9,255.00	13,838.58	5,525.00	197.28	195.29	-19.51	549.87	8,384.00	3,956.18	3,773.19	182.99	21.619			
17,700.00	9,255.00	13,938.58	5,525.00	199.56	197.58	-19.51	549.83	8,484.00	3,956.19	3,771.08	185.11	21.372			
17,800.00	9,255.00	14,038.58	5,525.00	201.83	199.88	-19.51	549.78	8,584.00	3,956.20	3,768.98	187.23	21.130			
17,900.00	9,255.00	14,138.58	5,525.00	204.11	202.18	-19.51	549.73	8,684.00	3,956.22	3,766.87	189.35	20.894			
18,000.00	9,255.00	14,238.58	5,525.00	206.39	204.47	-19.51	549.68	8,784.00	3,956.23	3,764.76	191.47	20.663			
18,100.00	9,255.00	14,338.58	5,525.00	208.67	206.77	-19.51	549.63	8,884.00	3,956.24	3,762.65	193.59	20.436			
18,200.00	9,255.00	14,438.58	5,525.00	210.95	209.07	-19.51	549.58	8,984.00	3,956.25	3,760.55	195.71	20.215			
18,300.00	9,255.00	14,538.58	5,525.00	213.23	211.37	-19.51	549.54	9,084.00	3,956.27	3,758.44	197.83	19.998			
18,400.00	9,255.00	14,638.58	5,525.00	215.51	213.67	-19.52	549.49	9,184.00	3,956.28	3,756.33	199.95	19.786			
18,500.00	9,255.00	14,738.58	5,525.00	217.79	215.97	-19.52	549.44	9,284.00	3,956.29	3,754.22	202.07	19.578			
18,600.00	9,255.00	14,838.58	5,525.00	220.07	218.26	-19.52	549.39	9,384.00	3,956.30	3,752.11	204.20	19.375			
18,700.00	9,255.00	14,938.58	5,525.00	222.35	220.56	-19.52	549.34	9,484.00	3,956.32	3,749.99	206.32	19.176			
18,800.00	9,255.00	15,038.58	5,525.00	224.64	222.86	-19.52	549.29	9,584.00	3,956.33	3,747.88	208.44	18.980			
18,900.00	9,255.00	15,138.58	5,525.00	226.92	225.16	-19.52	549.25	9,684.00	3,956.34	3,745.77	210.57	18.789			
19,000.00	9,255.00	15,238.58	5,525.00	229.20	227.46	-19.52	549.20	9,784.00	3,956.35	3,743.66	212.69	18.601			
19,100.00	9,255.00	15,338.58	5,525.00	231.49	229.76	-19.52	549.15	9,884.00	3,956.36	3,741.54	214.82	18.417			
19,200.00	9,255.00	15,438.58	5,525.00	233.77	232.06	-19.52	549.10	9,984.00	3,956.38	3,739.43	216.95	18.237			
19,300.00	9,255.00	15,538.58	5,525.00	236.06	234.36	-19.52	549.05	10,084.00	3,956.39	3,737.32	219.07	18.060			
19,400.00	9,255.00	15,638.58	5,525.00	238.34	236.66	-19.52	549.00	10,184.00	3,956.40	3,735.20	221.20	17.886			
19,411.49	9,255.00	15,650.06	5,525.00	238.60	236.93	-19.52	549.00	10,195.49	3,956.40	3,734.96	221.44	17.867			

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		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)						
0.00	0.00	2.00	-2.00	0.00	0.00	8.97	190.00	30.00	192.35					
100.00	100.00	102.00	98.00	0.13	0.14	8.97	190.00	30.00	192.35	192.09	0.26	730.060		
200.00	200.00	202.00	198.00	0.49	0.49	8.97	190.00	30.00	192.35	191.37	0.98	196.195		
300.00	300.00	302.00	298.00	0.85	0.85	8.97	190.00	30.00	192.35	190.66	1.70	113.325		
400.00	400.00	402.00	398.00	1.20	1.21	8.97	190.00	30.00	192.35	189.94	2.41	79.673		
500.00	500.00	502.00	498.00	1.56	1.57	8.97	190.00	30.00	192.35	189.22	3.13	61.430		
600.00	600.00	602.00	598.00	1.92	1.93	8.97	190.00	30.00	192.35	188.51	3.85	49.986		
700.00	700.00	702.00	698.00	2.28	2.29	8.97	190.00	30.00	192.35	187.79	4.57	42.135		
800.00	800.00	802.00	798.00	2.64	2.64	8.97	190.00	30.00	192.35	187.07	5.28	36.416		
900.00	900.00	902.00	898.00	3.00	3.00	8.97	190.00	30.00	192.35	186.35	6.00	32.064		
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	8.97	190.00	30.00	192.35	185.64	6.72	28.641		
1,100.00	1,099.98	1,102.02	1,097.98	3.70	3.72	124.39	190.00	30.00	193.33	185.91	7.42	26.053		
1,200.00	1,199.92	1,202.08	1,197.92	4.04	4.08	125.23	190.00	30.00	195.33	187.21	8.12	24.063		
1,300.00	1,299.86	1,302.14	1,297.86	4.38	4.44	126.06	190.00	30.00	197.36	188.54	8.82	22.384		
1,400.00	1,399.80	1,402.20	1,397.80	4.72	4.80	126.87	190.00	30.00	199.44	189.92	9.52	20.950		
1,500.00	1,499.74	1,497.74	1,497.74	5.07	5.14	127.66	190.00	30.00	201.55	191.34	10.21	19.744		
1,600.00	1,599.68	1,605.03	1,605.01	5.42	5.50	128.57	188.08	29.81	201.93	191.01	10.92	18.497		
1,700.00	1,699.61	1,712.34	1,712.15	5.77	5.85	129.65	182.17	29.23	198.65	187.05	11.60	17.127		
1,800.00	1,799.55	1,819.20	1,818.54	6.12	6.21	130.98	172.32	28.26	191.76	179.49	12.27	15.627		
1,900.00	1,899.49	1,925.32	1,923.76	6.48	6.56	132.65	158.64	26.92	181.34	168.41	12.93	14.022		
2,000.00	1,999.43	2,030.41	2,027.39	6.83	6.93	134.83	141.27	25.22	167.52	153.95	13.58	12.337		
2,100.00	2,099.37	2,134.22	2,129.05	7.19	7.31	137.80	120.42	23.17	150.51	136.29	14.22	10.587		
2,200.00	2,199.31	2,234.12	2,226.23	7.54	7.68	141.87	97.38	20.91	131.12	116.23	14.89	8.806		
2,300.00	2,299.25	2,331.67	2,321.04	7.90	8.06	147.27	74.52	18.67	112.23	96.62	15.61	7.189		
2,400.00	2,399.19	2,429.21	2,415.84	8.25	8.45	154.71	51.67	16.42	94.70	78.33	16.36	5.787		
2,500.00	2,499.13	2,526.76	2,510.65	8.61	8.85	165.18	28.81	14.18	79.42	62.26	17.17	4.626		
2,600.00	2,599.03	2,624.67	2,605.80	8.97	9.25	-145.99	5.87	11.93	68.51	50.48	18.03	3.801		
2,700.00	2,698.77	2,723.22	2,701.58	9.32	9.67	-118.60	-17.22	9.66	62.77	43.88	18.89	3.322		
2,800.00	2,798.24	2,822.29	2,797.87	9.67	10.09	-101.05	-40.43	7.39	60.86	41.13	19.73	3.085		
2,820.34	2,818.46	2,842.46	2,817.48	9.75	10.18	-98.65	-45.15	6.92	60.81	40.91	19.90	3.056 CC, ES		
2,900.00	2,897.62	2,921.49	2,894.28	10.03	10.52	-89.34	-63.67	5.10	61.63	41.11	20.52	3.003 SF		
3,000.00	2,996.99	3,020.69	2,990.69	10.39	10.96	-78.37	-86.91	2.82	64.89	43.63	21.26	3.052		
3,100.00	3,096.37	3,119.89	3,087.11	10.75	11.39	-68.74	-110.15	0.54	70.29	48.34	21.95	3.202		
3,200.00	3,195.74	3,219.09	3,183.52	11.11	11.84	-60.66	-133.40	-1.74	77.39	54.77	22.62	3.421		
3,300.00	3,295.12	3,318.30	3,279.94	11.48	12.28	-54.04	-156.64	-4.02	85.76	62.48	23.29	3.683		
3,400.00	3,394.49	3,417.50	3,376.35	11.84	12.73	-48.64	-179.88	-6.30	95.08	71.12	23.95	3.969		
3,500.00	3,493.87	3,516.70	3,472.76	12.21	13.18	-44.23	-203.12	-8.58	105.08	80.45	24.63	4.267		
3,600.00	3,593.24	3,615.90	3,569.18	12.58	13.63	-40.60	-226.37	-10.86	115.59	90.28	25.31	4.567		
3,700.00	3,692.61	3,715.10	3,665.59	12.95	14.08	-37.58	-249.61	-13.14	126.49	100.49	26.00	4.865		
3,800.00	3,791.99	3,814.31	3,762.00	13.33	14.54	-35.04	-272.85	-15.43	137.68	110.98	26.70	5.156		
3,900.00	3,891.36	3,913.51	3,858.42	13.70	15.00	-32.89	-296.09	-17.71	149.10	121.69	27.41	5.440		
4,000.00	3,990.74	4,012.71	3,954.83	14.07	15.46	-31.05	-319.34	-19.99	160.69	132.57	28.12	5.715		
4,100.00	4,090.11	4,111.91	4,051.24	14.45	15.92	-29.45	-342.58	-22.27	172.43	143.60	28.83	5.980		
4,200.00	4,189.49	4,211.11	4,147.66	14.83	16.38	-28.06	-365.82	-24.55	184.28	154.73	29.55	6.236		
4,300.00	4,288.86	4,310.32	4,244.07	15.20	16.85	-26.84	-389.06	-26.83	196.23	165.95	30.28	6.481		
4,400.00	4,388.24	4,409.52	4,340.49	15.58	17.31	-25.76	-412.31	-29.11	208.25	177.25	31.00	6.718		
4,500.00	4,487.61	4,508.72	4,436.90	15.96	17.78	-24.79	-435.55	-31.39	220.34	188.61	31.73	6.944		
4,600.00	4,586.98	4,607.92	4,533.31	16.34	18.24	-23.93	-458.79	-33.67	232.49	200.03	32.46	7.162		
4,700.00	4,686.36	4,707.12	4,629.73	16.72	18.71	-23.15	-482.04	-35.96	244.68	211.49	33.19	7.372		
4,800.00	4,785.73	4,806.32	4,726.14	17.10	19.18	-22.45	-505.28	-38.24	256.92	222.99	33.93	7.573		
4,900.00	4,885.11	4,905.53	4,822.55	17.48	19.65	-21.81	-528.52	-40.52	269.18	234.52	34.66	7.766		
5,000.00	4,984.48	5,004.73	4,918.97	17.86	20.12	-21.22	-551.76	-42.80	281.48	246.08	35.40	7.951		

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)
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Well Error: 0.00 usft
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Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
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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		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	
5,100.00	5,083.86	5,097.81	5,009.40	18.25	20.56	-20.99	-573.72	-43.49	294.29	258.26	36.04	8.167		
5,200.00	5,183.23	5,182.10	5,090.35	18.63	20.95	-22.75	-594.58	-33.33	311.02	274.51	36.51	8.520		
5,300.00	5,282.61	5,261.02	5,163.79	19.01	21.30	-26.10	-614.74	-12.86	333.26	296.46	36.80	9.057		
5,400.00	5,381.98	5,332.43	5,227.08	19.40	21.60	-30.19	-633.18	14.47	362.55	325.78	36.77	9.859		
5,500.00	5,481.36	5,395.46	5,279.64	19.78	21.86	-34.35	-649.39	45.19	400.07	363.70	36.38	10.999		
5,600.00	5,580.73	5,450.00	5,322.10	20.16	22.07	-38.15	-663.19	76.48	446.12	410.50	35.62	12.523		
5,700.00	5,680.10	5,500.00	5,358.22	20.55	22.27	-41.69	-675.56	108.74	500.23	465.48	34.75	14.396		
5,800.00	5,779.48	5,538.14	5,383.79	20.93	22.41	-44.35	-684.74	135.50	561.44	527.88	33.56	16.729		
5,900.00	5,878.85	5,573.13	5,405.63	21.32	22.55	-46.74	-692.95	161.57	628.69	596.24	32.45	19.372		
6,000.00	5,978.23	5,600.00	5,421.30	21.71	22.66	-48.52	-699.08	182.51	700.97	669.68	31.28	22.407		
6,100.00	6,077.60	5,629.61	5,437.41	22.09	22.78	-50.42	-705.65	206.46	777.31	746.88	30.43	25.545		
6,200.00	6,176.98	5,650.00	5,447.78	22.48	22.87	-51.68	-710.05	223.46	857.04	827.55	29.49	29.063		
6,300.00	6,276.35	5,672.62	5,458.57	22.86	22.97	-53.05	-714.81	242.76	939.50	910.70	28.80	32.617		
6,400.00	6,375.73	5,700.00	5,470.61	23.25	23.09	-54.64	-720.39	266.70	1,024.36	995.97	28.40	36.074		
6,500.00	6,475.10	5,700.00	5,470.61	23.64	23.09	-54.64	-720.39	266.70	1,110.91	1,083.48	27.43	40.494		
6,600.00	6,574.48	5,720.17	5,478.75	24.02	23.19	-55.77	-724.37	284.73	1,199.06	1,171.96	27.11	44.237		
6,700.00	6,673.85	5,732.77	5,483.51	24.41	23.25	-56.46	-726.79	296.14	1,288.58	1,261.88	26.70	48.254		
6,800.00	6,773.22	5,750.00	5,489.62	24.80	23.35	-57.38	-730.02	311.92	1,379.26	1,352.77	26.49	52.069		
6,900.00	6,872.60	5,750.00	5,489.62	25.18	23.35	-57.38	-730.02	311.92	1,470.84	1,444.82	26.01	56.541		
7,000.00	6,971.97	5,750.00	5,489.62	25.57	23.35	-57.38	-730.02	311.92	1,563.45	1,537.81	25.63	60.997		
7,100.00	7,071.35	5,772.26	5,496.81	25.96	23.47	-58.52	-734.05	332.60	1,656.36	1,630.65	25.71	64.435		
7,200.00	7,170.72	5,780.06	5,499.15	26.35	23.51	-58.91	-735.43	339.91	1,750.10	1,724.52	25.58	68.429		
7,300.00	7,270.10	5,800.00	5,504.66	26.74	23.63	-59.89	-738.85	358.76	1,844.56	1,818.88	25.68	71.832		
7,400.00	7,369.47	5,800.00	5,504.66	27.12	23.63	-59.89	-738.85	358.76	1,939.18	1,913.66	25.51	76.010		
7,500.00	7,468.85	5,800.00	5,504.66	27.51	23.63	-59.89	-738.85	358.76	2,034.31	2,008.92	25.39	80.117		
7,600.00	7,568.22	5,800.00	5,504.66	27.90	23.63	-59.89	-738.85	358.76	2,129.89	2,104.57	25.31	84.146		
7,700.00	7,667.59	5,800.00	5,504.66	28.29	23.63	-59.89	-738.85	358.76	2,225.85	2,200.58	25.27	88.091		
7,800.00	7,766.97	5,800.00	5,504.66	28.68	23.63	-59.89	-738.85	358.76	2,322.16	2,296.90	25.25	91.950		
7,900.00	7,866.34	5,820.31	5,509.61	29.07	23.76	-60.84	-742.20	378.17	2,418.33	2,392.82	25.51	94.799		
8,000.00	7,965.72	5,824.59	5,510.56	29.46	23.79	-61.04	-742.89	382.28	2,515.01	2,489.42	25.59	98.285		
8,100.00	8,065.09	5,828.60	5,511.43	29.84	23.82	-61.22	-743.53	386.15	2,611.90	2,586.21	25.68	101.693		
8,200.00	8,164.47	5,850.00	5,515.62	30.23	23.96	-62.18	-746.84	406.87	2,709.31	2,683.32	25.98	104.265		
8,300.00	8,263.97	5,850.00	5,515.62	30.62	23.96	-68.65	-746.84	406.87	2,806.58	2,780.51	26.07	107.661		
8,400.00	8,363.75	5,850.00	5,515.62	30.99	23.96	-77.46	-746.84	406.87	2,904.30	2,878.12	26.18	110.945		
8,500.00	8,463.70	5,850.00	5,515.62	31.34	23.96	-87.27	-746.84	406.87	3,002.32	2,976.01	26.31	114.118		
8,600.00	8,563.70	5,850.00	5,515.62	31.66	23.96	99.24	-746.84	406.87	3,100.51	3,074.05	26.46	117.190		
8,700.00	8,663.70	5,850.00	5,515.62	31.97	23.96	99.24	-746.84	406.87	3,198.81	3,172.19	26.62	120.177		
8,800.00	8,763.42	5,850.00	5,515.62	32.29	23.96	0.58	-746.84	406.87	3,295.92	3,269.17	26.76	123.182		
8,900.00	8,860.67	5,850.00	5,515.62	32.60	23.96	0.38	-746.84	406.87	3,387.97	3,361.15	26.82	126.312		
9,000.00	8,952.49	5,850.00	5,515.62	32.88	23.96	0.29	-746.84	406.87	3,472.61	3,445.78	26.83	129.446		
9,100.00	9,036.10	5,875.19	5,519.56	33.12	24.15	0.24	-750.51	431.48	3,547.27	3,520.29	26.98	131.475		
9,200.00	9,108.94	5,900.00	5,522.40	33.32	24.34	0.20	-753.90	455.89	3,611.09	3,584.01	27.08	133.341		
9,300.00	9,168.81	5,900.00	5,522.40	33.50	24.34	0.18	-753.90	455.89	3,661.87	3,634.90	26.98	135.732		
9,400.00	9,213.90	5,900.00	5,522.40	33.70	24.34	0.17	-753.90	455.89	3,699.22	3,672.33	26.89	137.554		
9,500.00	9,242.82	5,924.23	5,524.18	34.07	24.54	0.16	-756.98	479.86	3,721.85	3,694.85	26.99	137.878		
9,600.00	9,254.70	5,950.00	5,524.97	34.66	24.77	0.14	-760.00	505.43	3,729.77	3,702.64	27.14	137.447		
9,700.00	9,255.00	5,950.00	5,524.97	35.41	24.77	0.17	-760.00	505.43	3,728.11	3,700.90	27.21	137.035		
9,749.28	9,255.00	5,976.97	5,525.00	35.84	25.01	0.17	-762.56	532.28	3,728.02	3,700.60	27.41	135.994		
9,800.00	9,255.00	6,028.32	5,525.00	36.29	25.50	0.12	-764.06	583.60	3,728.01	3,700.27	27.74	134.389		
9,900.00	9,255.00	6,128.13	5,525.00	37.28	26.56	0.03	-764.15	683.40	3,728.00	3,699.56	28.44	131.077		
9,960.17	9,255.00	6,188.27	5,525.00	37.94	27.28	0.00	-764.21	743.54	3,728.00	3,699.10	28.90	128.986		
10,000.00	9,255.00	6,228.09	5,525.00	38.38	27.80	-0.01	-764.25	783.36	3,728.00	3,698.78	29.22	127.587		

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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
10,100.00	9,255.00	6,328.09	5,525.00	39.57	29.20	-0.01	-764.34	883.36	3,728.00	3,697.93	30.07	123.988	
10,200.00	9,255.00	6,428.09	5,525.00	40.86	30.72	-0.01	-764.43	983.36	3,728.00	3,697.03	30.97	120.370	
10,300.00	9,255.00	6,528.09	5,525.00	42.24	32.34	-0.01	-764.52	1,083.36	3,728.00	3,696.07	31.92	116.775	
10,400.00	9,255.00	6,628.09	5,525.00	43.69	34.05	-0.01	-764.62	1,183.36	3,728.00	3,695.08	32.92	113.232	
10,500.00	9,255.00	6,728.09	5,525.00	45.22	35.83	-0.01	-764.71	1,283.36	3,728.00	3,694.04	33.96	109.764	
10,600.00	9,255.00	6,828.09	5,525.00	46.81	37.67	-0.01	-764.80	1,383.36	3,728.00	3,692.96	35.04	106.389	
10,700.00	9,255.00	6,928.09	5,525.00	48.45	39.57	-0.01	-764.90	1,483.36	3,728.00	3,691.85	36.15	103.118	
10,800.00	9,255.00	7,028.09	5,525.00	50.15	41.50	-0.01	-764.99	1,583.36	3,728.00	3,690.70	37.30	99.959	
10,900.00	9,255.00	7,128.09	5,525.00	51.90	43.48	-0.01	-765.08	1,683.36	3,728.00	3,689.53	38.47	96.916	
11,000.00	9,255.00	7,228.09	5,525.00	53.69	45.49	-0.01	-765.18	1,783.36	3,728.00	3,688.34	39.66	93.992	
11,100.00	9,255.00	7,328.09	5,525.00	55.52	47.52	-0.01	-765.27	1,883.36	3,728.00	3,687.12	40.88	91.186	
11,200.00	9,255.00	7,428.09	5,525.00	57.38	49.58	-0.01	-765.36	1,983.36	3,728.00	3,685.87	42.13	88.497	
11,300.00	9,255.00	7,528.09	5,525.00	59.28	51.66	-0.01	-765.45	2,083.36	3,728.00	3,684.61	43.39	85.922	
11,400.00	9,255.00	7,628.09	5,525.00	61.20	53.76	-0.01	-765.55	2,183.36	3,728.00	3,683.33	44.67	83.459	
11,500.00	9,255.00	7,728.09	5,525.00	63.15	55.88	-0.01	-765.64	2,283.36	3,728.00	3,682.03	45.97	81.103	
11,600.00	9,255.00	7,828.09	5,525.00	65.12	58.01	-0.01	-765.73	2,383.36	3,728.00	3,680.72	47.28	78.851	
11,700.00	9,255.00	7,928.09	5,525.00	67.11	60.15	-0.01	-765.83	2,483.36	3,728.00	3,679.39	48.61	76.697	
11,800.00	9,255.00	8,028.09	5,525.00	69.12	62.31	-0.01	-765.92	2,583.36	3,728.00	3,678.05	49.95	74.639	
11,900.00	9,255.00	8,128.09	5,525.00	71.15	64.48	-0.01	-766.01	2,683.36	3,728.00	3,676.70	51.30	72.670	
12,000.00	9,255.00	8,228.09	5,525.00	73.20	66.65	-0.01	-766.11	2,783.36	3,728.00	3,675.33	52.66	70.787	
12,100.00	9,255.00	8,328.09	5,525.00	75.26	68.84	-0.01	-766.20	2,883.36	3,728.00	3,673.96	54.04	68.986	
12,200.00	9,255.00	8,428.09	5,525.00	77.34	71.03	-0.01	-766.29	2,983.36	3,728.00	3,672.57	55.42	67.262	
12,300.00	9,255.00	8,528.09	5,525.00	79.43	73.23	-0.01	-766.38	3,083.36	3,728.00	3,671.18	56.82	65.612	
12,400.00	9,255.00	8,628.09	5,525.00	81.53	75.44	-0.01	-766.48	3,183.36	3,728.00	3,669.78	58.22	64.031	
12,500.00	9,255.00	8,728.09	5,525.00	83.64	77.65	-0.01	-766.57	3,283.36	3,728.00	3,668.37	59.63	62.517	
12,600.00	9,255.00	8,828.09	5,525.00	85.76	79.87	-0.01	-766.66	3,383.36	3,728.00	3,666.95	61.05	61.065	
12,700.00	9,255.00	8,928.09	5,525.00	87.90	82.10	-0.01	-766.76	3,483.36	3,728.00	3,665.52	62.48	59.672	
12,800.00	9,255.00	9,028.09	5,525.00	90.04	84.32	-0.01	-766.85	3,583.36	3,728.00	3,664.09	63.91	58.335	
12,900.00	9,255.00	9,128.09	5,525.00	92.18	86.56	-0.01	-766.94	3,683.36	3,728.00	3,662.66	65.34	57.052	
13,000.00	9,255.00	9,228.09	5,525.00	94.34	88.79	-0.01	-767.04	3,783.36	3,728.00	3,661.21	66.79	55.819	
13,100.00	9,255.00	9,328.09	5,525.00	96.50	91.03	-0.01	-767.13	3,883.36	3,728.00	3,659.76	68.24	54.634	
13,200.00	9,255.00	9,428.09	5,525.00	98.67	93.28	-0.01	-767.22	3,983.36	3,728.00	3,658.31	69.69	53.494	
13,300.00	9,255.00	9,528.09	5,525.00	100.85	95.52	-0.01	-767.32	4,083.36	3,728.00	3,656.85	71.15	52.397	
13,400.00	9,255.00	9,628.09	5,525.00	103.03	97.77	-0.01	-767.41	4,183.36	3,728.00	3,655.39	72.61	51.342	
13,500.00	9,255.00	9,728.09	5,525.00	105.22	100.02	-0.01	-767.50	4,283.36	3,728.00	3,653.92	74.08	50.325	
13,600.00	9,255.00	9,828.09	5,525.00	107.41	102.28	-0.01	-767.59	4,383.36	3,728.00	3,652.45	75.55	49.345	
13,700.00	9,255.00	9,928.09	5,525.00	109.60	104.53	-0.01	-767.69	4,483.36	3,728.00	3,650.97	77.03	48.400	
13,800.00	9,255.00	10,028.09	5,525.00	111.81	106.79	-0.01	-767.78	4,583.36	3,728.00	3,649.50	78.50	47.488	
13,900.00	9,255.00	10,128.09	5,525.00	114.01	109.05	-0.01	-767.87	4,683.36	3,728.00	3,648.01	79.99	46.608	
14,000.00	9,255.00	10,228.09	5,525.00	116.22	111.32	-0.01	-767.97	4,783.36	3,728.00	3,646.53	81.47	45.758	
14,100.00	9,255.00	10,328.09	5,525.00	118.43	113.58	-0.01	-768.06	4,883.36	3,728.00	3,645.04	82.96	44.938	
14,200.00	9,255.00	10,428.09	5,525.00	120.65	115.85	-0.01	-768.15	4,983.36	3,728.00	3,643.55	84.45	44.144	
14,300.00	9,255.00	10,528.09	5,525.00	122.87	118.12	-0.01	-768.25	5,083.36	3,728.00	3,642.06	85.94	43.377	
14,400.00	9,255.00	10,628.09	5,525.00	125.09	120.39	-0.01	-768.34	5,183.36	3,728.00	3,640.56	87.44	42.635	
14,500.00	9,255.00	10,728.09	5,525.00	127.32	122.66	-0.01	-768.43	5,283.36	3,728.00	3,639.06	88.94	41.916	
14,600.00	9,255.00	10,828.09	5,525.00	129.55	124.93	-0.01	-768.52	5,383.36	3,728.00	3,637.56	90.44	41.220	
14,700.00	9,255.00	10,928.09	5,525.00	131.78	127.21	-0.01	-768.62	5,483.36	3,728.00	3,636.06	91.94	40.546	
14,800.00	9,255.00	11,028.09	5,525.00	134.02	129.48	-0.01	-768.71	5,583.36	3,728.00	3,634.55	93.45	39.893	
14,900.00	9,255.00	11,128.09	5,525.00	136.25	131.76	-0.01	-768.80	5,683.36	3,728.00	3,633.04	94.96	39.260	
15,000.00	9,255.00	11,228.09	5,525.00	138.49	134.04	-0.01	-768.90	5,783.36	3,728.00	3,631.53	96.47	38.645	
15,100.00	9,255.00	11,328.09	5,525.00	140.74	136.31	-0.01	-768.99	5,883.36	3,728.00	3,630.02	97.98	38.049	
15,200.00	9,255.00	11,428.09	5,525.00	142.98	138.59	-0.01	-769.08	5,983.36	3,728.00	3,628.51	99.49	37.470	

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: #206H
Well Error: 0.00 usft
Reference Wellbore OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		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)					
15,300.00	9,255.00	11,528.09	5,525.00	145.23	140.87	0.00	-769.18	6,083.36	3,728.00	3,626.99	101.01	36.908	
15,400.00	9,255.00	11,628.09	5,525.00	147.47	143.16	0.00	-769.27	6,183.36	3,728.00	3,625.48	102.52	36.362	
15,500.00	9,255.00	11,728.09	5,525.00	149.72	145.44	0.00	-769.36	6,283.36	3,728.00	3,623.96	104.04	35.832	
15,600.00	9,255.00	11,828.09	5,525.00	151.97	147.72	0.00	-769.45	6,383.36	3,728.00	3,622.44	105.56	35.316	
15,700.00	9,255.00	11,928.09	5,525.00	154.23	150.01	0.00	-769.55	6,483.36	3,728.00	3,620.92	107.08	34.814	
15,800.00	9,255.00	12,028.09	5,525.00	156.48	152.29	0.00	-769.64	6,583.36	3,728.00	3,619.40	108.60	34.326	
15,900.00	9,255.00	12,128.09	5,525.00	158.74	154.58	0.00	-769.73	6,683.36	3,728.00	3,617.87	110.13	33.851	
16,000.00	9,255.00	12,228.09	5,525.00	161.00	156.86	0.00	-769.83	6,783.36	3,728.00	3,616.35	111.65	33.389	
16,100.00	9,255.00	12,328.09	5,525.00	163.26	159.15	0.00	-769.92	6,883.36	3,728.00	3,614.82	113.18	32.939	
16,200.00	9,255.00	12,428.09	5,525.00	165.52	161.44	0.00	-770.01	6,983.36	3,728.00	3,613.29	114.71	32.500	
16,300.00	9,255.00	12,528.09	5,525.00	167.78	163.72	0.00	-770.11	7,083.36	3,728.00	3,611.77	116.23	32.073	
16,400.00	9,255.00	12,628.09	5,525.00	170.04	166.01	0.00	-770.20	7,183.36	3,728.00	3,610.24	117.76	31.656	
16,500.00	9,255.00	12,728.09	5,525.00	172.31	168.30	0.00	-770.29	7,283.36	3,728.00	3,608.71	119.29	31.250	
16,600.00	9,255.00	12,828.09	5,525.00	174.57	170.59	0.00	-770.39	7,383.36	3,728.00	3,607.17	120.83	30.854	
16,700.00	9,255.00	12,928.09	5,525.00	176.84	172.88	0.00	-770.48	7,483.36	3,728.00	3,605.64	122.36	30.468	
16,800.00	9,255.00	13,028.09	5,525.00	179.11	175.17	0.00	-770.57	7,583.36	3,728.00	3,604.11	123.89	30.091	
16,900.00	9,255.00	13,128.09	5,525.00	181.37	177.46	0.00	-770.66	7,683.36	3,728.00	3,602.57	125.43	29.723	
17,000.00	9,255.00	13,228.09	5,525.00	183.64	179.75	0.00	-770.76	7,783.36	3,728.00	3,601.04	126.96	29.363	
17,100.00	9,255.00	13,328.09	5,525.00	185.91	182.05	0.00	-770.85	7,883.36	3,728.00	3,599.50	128.50	29.012	
17,200.00	9,255.00	13,428.09	5,525.00	188.19	184.34	0.00	-770.94	7,983.36	3,728.00	3,597.97	130.03	28.669	
17,300.00	9,255.00	13,528.09	5,525.00	190.46	186.63	0.00	-771.04	8,083.36	3,728.00	3,596.43	131.57	28.334	
17,400.00	9,255.00	13,628.09	5,525.00	192.73	188.92	0.00	-771.13	8,183.36	3,728.00	3,594.89	133.11	28.007	
17,500.00	9,255.00	13,728.09	5,525.00	195.01	191.22	0.00	-771.22	8,283.36	3,728.00	3,593.35	134.65	27.687	
17,600.00	9,255.00	13,828.09	5,525.00	197.28	193.51	0.00	-771.32	8,383.36	3,728.00	3,591.81	136.19	27.374	
17,700.00	9,255.00	13,928.09	5,525.00	199.56	195.81	0.00	-771.41	8,483.36	3,728.00	3,590.27	137.73	27.068	
17,800.00	9,255.00	14,028.09	5,525.00	201.83	198.10	0.00	-771.50	8,583.36	3,728.00	3,588.73	139.27	26.768	
17,900.00	9,255.00	14,128.09	5,525.00	204.11	200.40	0.00	-771.59	8,683.36	3,728.00	3,587.19	140.81	26.475	
18,000.00	9,255.00	14,228.09	5,525.00	206.39	202.69	0.00	-771.69	8,783.36	3,728.00	3,585.65	142.35	26.188	
18,100.00	9,255.00	14,328.09	5,525.00	208.67	204.99	0.00	-771.78	8,883.36	3,728.00	3,584.10	143.90	25.908	
18,200.00	9,255.00	14,428.09	5,525.00	210.95	207.28	0.00	-771.87	8,983.36	3,728.00	3,582.56	145.44	25.633	
18,300.00	9,255.00	14,528.09	5,525.00	213.23	209.58	0.00	-771.97	9,083.36	3,728.00	3,581.02	146.98	25.363	
18,400.00	9,255.00	14,628.09	5,525.00	215.51	211.88	0.00	-772.06	9,183.36	3,728.00	3,579.47	148.53	25.100	
18,500.00	9,255.00	14,728.09	5,525.00	217.79	214.17	0.00	-772.15	9,283.36	3,728.00	3,577.93	150.07	24.841	
18,600.00	9,255.00	14,828.09	5,525.00	220.07	216.47	0.00	-772.25	9,383.36	3,728.00	3,576.38	151.62	24.588	
18,700.00	9,255.00	14,928.09	5,525.00	222.35	218.77	0.00	-772.34	9,483.36	3,728.00	3,574.84	153.16	24.340	
18,800.00	9,255.00	15,028.09	5,525.00	224.64	221.06	0.00	-772.43	9,583.36	3,728.00	3,573.29	154.71	24.097	
18,900.00	9,255.00	15,128.09	5,525.00	226.92	223.36	0.00	-772.52	9,683.36	3,728.00	3,571.74	156.26	23.858	
19,000.00	9,255.00	15,228.09	5,525.00	229.20	225.66	0.00	-772.62	9,783.36	3,728.00	3,570.20	157.80	23.624	
19,100.00	9,255.00	15,328.09	5,525.00	231.49	227.96	0.00	-772.71	9,883.36	3,728.00	3,568.65	159.35	23.395	
19,200.00	9,255.00	15,428.09	5,525.00	233.77	230.26	0.00	-772.80	9,983.36	3,728.00	3,567.10	160.90	23.170	
19,300.00	9,255.00	15,528.09	5,525.00	236.06	232.55	0.00	-772.90	10,083.36	3,728.00	3,565.55	162.45	22.949	
19,400.00	9,255.00	15,628.09	5,525.00	238.34	234.85	0.00	-772.99	10,183.36	3,728.00	3,564.00	164.00	22.732	
19,411.49	9,255.00	15,639.58	5,525.00	238.60	235.12	0.00	-773.00	10,194.85	3,728.00	3,563.83	164.17	22.708	

CC - Min centre to center distance or covergent 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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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							
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	2.00	-2.00	0.00	0.00	0.00	110.00	0.00	110.00					
100.00	100.00	102.00	98.00	0.13	0.14	0.00	110.00	0.00	110.00	109.74	0.26	417.494		
200.00	200.00	202.00	198.00	0.49	0.49	0.00	110.00	0.00	110.00	109.02	0.98	112.197		
300.00	300.00	302.00	298.00	0.85	0.85	0.00	110.00	0.00	110.00	108.30	1.70	64.806		
400.00	400.00	402.00	398.00	1.20	1.21	0.00	110.00	0.00	110.00	107.59	2.41	45.562		
500.00	500.00	502.00	498.00	1.56	1.57	0.00	110.00	0.00	110.00	106.87	3.13	35.130		
600.00	600.00	602.00	598.00	1.92	1.93	0.00	110.00	0.00	110.00	106.15	3.85	28.585		
700.00	700.00	702.00	698.00	2.28	2.29	0.00	110.00	0.00	110.00	105.43	4.57	24.096		
800.00	800.00	802.00	798.00	2.64	2.64	0.00	110.00	0.00	110.00	104.72	5.28	20.825		
900.00	900.00	902.00	898.00	3.00	3.00	0.00	110.00	0.00	110.00	104.00	6.00	18.336		
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	0.00	110.00	0.00	110.00	103.28	6.72	16.379 CC, ES		
1,100.00	1,099.98	1,102.02	1,097.98	3.70	3.72	115.80	110.00	0.00	110.75	103.33	7.42	14.924		
1,200.00	1,199.92	1,202.08	1,197.92	4.04	4.08	117.41	110.00	0.00	112.31	104.20	8.12	13.836		
1,300.00	1,299.86	1,302.14	1,297.86	4.38	4.44	118.96	110.00	0.00	113.96	105.14	8.82	12.925		
1,400.00	1,399.80	1,402.20	1,397.80	4.72	4.80	120.48	110.00	0.00	115.69	106.17	9.52	12.152		
1,500.00	1,499.74	1,497.74	1,497.74	5.07	5.14	121.94	110.00	0.00	117.50	107.29	10.21	11.510		
1,600.00	1,599.68	1,598.23	1,598.21	5.42	5.49	122.57	110.00	-1.68	119.15	108.24	10.91	10.922		
1,700.00	1,699.61	1,698.72	1,698.56	5.77	5.84	121.52	110.00	-6.89	120.37	108.76	11.60	10.372		
1,800.00	1,799.55	1,801.35	1,798.24	6.12	6.19	119.65	110.00	-13.86	121.46	109.15	12.31	9.865		
1,900.00	1,899.49	1,901.44	1,897.92	6.48	6.54	117.82	110.00	-20.83	122.69	109.67	13.02	9.426		
2,000.00	1,999.43	2,001.52	1,997.59	6.83	6.90	116.03	110.00	-27.80	124.03	110.31	13.72	9.039		
2,100.00	2,099.37	2,101.61	2,097.26	7.19	7.25	114.27	110.00	-34.77	125.50	111.06	14.43	8.696		
2,200.00	2,199.31	2,201.69	2,196.93	7.54	7.61	112.56	110.00	-41.74	127.08	111.93	15.14	8.392		
2,300.00	2,299.25	2,301.77	2,296.61	7.90	7.96	110.89	110.00	-48.71	128.77	112.91	15.86	8.120		
2,400.00	2,399.19	2,401.86	2,396.28	8.25	8.32	109.27	110.00	-55.68	130.56	113.99	16.57	7.878		
2,500.00	2,499.13	2,501.94	2,495.95	8.61	8.68	107.69	110.00	-62.65	132.46	115.17	17.29	7.662		
2,600.00	2,599.03	2,602.08	2,595.57	8.97	9.04	141.97	110.00	-69.61	136.17	118.16	18.00	7.563 SF		
2,700.00	2,698.77	2,702.40	2,695.01	9.32	9.41	154.31	110.00	-76.57	143.45	124.73	18.72	7.663		
2,800.00	2,798.24	2,803.02	2,794.14	9.67	9.77	158.38	110.00	-83.50	154.16	134.73	19.43	7.933		
2,900.00	2,897.62	2,903.75	2,893.17	10.03	10.14	157.44	110.00	-90.42	165.93	145.78	20.15	8.235		
3,000.00	2,996.99	2,995.52	2,992.20	10.39	10.47	156.62	110.00	-97.35	177.74	156.90	20.83	8.532		
3,100.00	3,096.37	3,100.97	3,097.37	10.75	10.85	155.72	108.34	-104.76	188.08	166.51	21.57	8.720		
3,200.00	3,195.74	3,207.51	3,203.49	11.11	11.23	154.59	102.73	-112.38	194.92	172.64	22.29	8.747		
3,300.00	3,295.12	3,312.17	3,307.46	11.48	11.60	153.22	93.55	-119.97	198.47	175.48	22.99	8.632		
3,400.00	3,394.49	3,412.02	3,406.57	11.84	11.96	151.88	83.88	-127.24	201.28	177.57	23.71	8.489		
3,500.00	3,493.87	3,511.87	3,505.69	12.21	12.32	150.58	74.22	-134.51	204.20	179.77	24.43	8.357		
3,600.00	3,593.24	3,611.72	3,604.81	12.58	12.68	149.31	64.55	-141.78	207.22	182.06	25.16	8.236		
3,700.00	3,692.61	3,709.67	3,702.09	12.95	13.03	148.21	55.41	-148.66	210.58	184.68	25.89	8.133		
3,800.00	3,791.99	3,805.82	3,797.86	13.33	13.38	147.81	48.71	-153.71	215.52	188.91	26.61	8.098		
3,900.00	3,891.36	3,901.78	3,893.68	13.70	13.72	148.14	44.58	-156.81	222.21	194.89	27.32	8.133		
4,000.00	3,990.74	3,997.33	3,989.21	14.07	14.05	149.13	43.02	-157.99	230.68	202.67	28.01	8.236		
4,100.00	4,090.11	4,103.76	4,088.11	14.45	14.42	150.49	43.00	-158.00	240.34	211.60	28.73	8.365		
4,200.00	4,189.49	4,204.39	4,187.49	14.83	14.77	151.74	43.00	-158.00	250.13	220.69	29.44	8.497		
4,300.00	4,288.86	4,305.01	4,286.86	15.20	15.11	152.91	43.00	-158.00	260.03	229.89	30.14	8.627		
4,400.00	4,388.24	4,405.64	4,386.24	15.58	15.46	153.99	43.00	-158.00	270.03	239.19	30.85	8.754		
4,500.00	4,487.61	4,506.26	4,485.61	15.96	15.81	154.99	43.00	-158.00	280.12	248.57	31.55	8.877		
4,600.00	4,586.98	4,606.89	4,584.98	16.34	16.16	155.92	43.00	-158.00	290.29	258.03	32.26	8.998		
4,700.00	4,686.36	4,707.51	4,684.36	16.72	16.52	156.79	43.00	-158.00	300.53	267.56	32.97	9.115		
4,800.00	4,785.73	4,808.14	4,783.73	17.10	16.87	157.60	43.00	-158.00	310.84	277.16	33.68	9.230		
4,900.00	4,885.11	4,908.77	4,883.11	17.48	17.22	158.35	43.00	-158.00	321.20	286.81	34.39	9.341		
5,000.00	4,984.48	5,009.39	4,982.48	17.86	17.57	159.07	43.00	-158.00	331.61	296.52	35.10	9.448		
5,100.00	5,083.86	5,089.98	5,081.86	18.25	17.85	159.73	43.00	-158.00	342.07	306.34	35.74	9.572		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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					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
5,200.00	5,183.23	5,189.36	5,181.23	18.63	18.20	160.36	43.00	-158.00	352.58	316.13	36.44	9.675	
5,300.00	5,282.61	5,288.73	5,280.61	19.01	18.55	160.95	43.00	-158.00	363.12	325.97	37.15	9.774	
5,400.00	5,381.98	5,388.11	5,379.98	19.40	18.90	161.51	43.00	-158.00	373.70	335.84	37.86	9.871	
5,500.00	5,481.36	5,487.48	5,479.36	19.78	19.25	162.04	43.00	-158.00	384.32	345.75	38.57	9.965	
5,600.00	5,580.73	5,586.86	5,578.73	20.16	19.60	162.54	43.00	-158.00	394.96	355.69	39.27	10.056	
5,700.00	5,680.10	5,686.23	5,678.10	20.55	19.95	163.01	43.00	-158.00	405.63	365.65	39.98	10.145	
5,800.00	5,779.48	5,785.61	5,777.48	20.93	20.30	163.46	43.00	-158.00	416.33	375.64	40.69	10.231	
5,900.00	5,878.85	5,884.98	5,876.85	21.32	20.65	163.89	43.00	-158.00	427.05	385.65	41.40	10.315	
6,000.00	5,978.23	5,984.35	5,976.23	21.71	21.00	164.29	43.00	-158.00	437.80	395.68	42.11	10.396	
6,100.00	6,077.60	6,083.73	6,075.60	22.09	21.35	164.68	43.00	-158.00	448.56	405.74	42.82	10.475	
6,200.00	6,176.98	6,183.10	6,174.98	22.48	21.70	165.05	43.00	-158.00	459.35	415.81	43.53	10.551	
6,300.00	6,276.35	6,282.48	6,274.35	22.86	22.05	165.40	43.00	-158.00	470.15	425.90	44.25	10.626	
6,400.00	6,375.73	6,396.63	6,388.31	23.25	22.44	166.31	42.17	-153.50	480.08	435.06	45.01	10.665	
6,500.00	6,475.10	6,515.12	6,503.48	23.64	22.81	169.76	37.31	-126.99	486.07	440.36	45.71	10.633	
6,600.00	6,574.48	6,618.95	6,597.99	24.02	23.12	174.89	29.61	-85.04	491.03	444.67	46.36	10.591	
6,700.00	6,673.85	6,705.27	6,669.66	24.41	23.38	-179.50	20.95	-37.86	499.46	452.54	46.93	10.643	
6,800.00	6,773.22	6,775.18	6,721.90	24.80	23.61	-174.23	12.58	7.77	515.34	468.16	47.19	10.922	
6,900.00	6,872.60	6,831.39	6,759.56	25.18	23.82	-169.65	5.05	48.78	541.14	494.22	46.92	11.533	
7,000.00	6,971.97	6,876.75	6,786.86	25.57	24.01	-165.81	-1.49	84.40	577.67	531.56	46.10	12.530	
7,100.00	7,071.35	6,913.70	6,806.92	25.96	24.18	-162.65	-7.09	114.90	624.41	579.56	44.85	13.922	
7,200.00	7,170.72	6,950.00	6,824.64	26.35	24.37	-159.54	-12.80	146.06	680.21	636.73	43.48	15.643	
7,300.00	7,270.10	6,969.51	6,833.33	26.74	24.48	-157.88	-15.96	163.24	743.48	701.67	41.80	17.785	
7,400.00	7,369.47	7,000.00	6,845.70	27.12	24.65	-155.32	-20.99	190.64	813.05	772.56	40.49	20.079	
7,500.00	7,468.85	7,000.00	6,845.70	27.51	24.65	-155.32	-20.99	190.64	887.49	848.76	38.74	22.911	
7,600.00	7,568.22	7,024.87	6,854.68	27.90	24.81	-153.27	-25.17	213.45	965.81	928.12	37.69	25.622	
7,700.00	7,667.59	7,050.00	6,862.73	28.29	24.98	-151.24	-29.47	236.87	1,047.60	1,010.76	36.83	28.442	
7,800.00	7,766.97	7,050.00	6,862.73	28.68	24.98	-151.24	-29.47	236.87	1,131.66	1,095.97	35.69	31.705	
7,900.00	7,866.34	7,050.00	6,862.73	29.07	24.98	-151.24	-29.47	236.87	1,218.14	1,183.40	34.74	35.064	
8,000.00	7,965.72	7,070.39	6,868.48	29.46	25.12	-149.63	-33.00	256.10	1,306.07	1,271.81	34.26	38.123	
8,100.00	8,065.09	7,078.76	6,870.65	29.84	25.18	-148.98	-34.46	264.06	1,395.58	1,361.87	33.71	41.401	
8,200.00	8,164.47	7,100.00	6,875.60	30.23	25.34	-147.35	-38.19	284.37	1,486.51	1,453.07	33.44	44.454	
8,300.00	8,263.97	7,100.00	6,875.60	30.62	25.34	-149.32	-38.19	284.37	1,577.66	1,544.71	32.95	47.878	
8,400.00	8,363.75	7,100.00	6,875.60	30.99	25.34	-151.48	-38.19	284.37	1,668.68	1,636.17	32.51	51.326	
8,500.00	8,463.70	7,100.00	6,875.60	31.34	25.34	-153.48	-38.19	284.37	1,759.45	1,727.34	32.12	54.785	
8,600.00	8,563.70	7,100.00	6,875.60	31.66	25.34	36.06	-38.19	284.37	1,850.19	1,818.43	31.76	58.246	
8,700.00	8,663.70	7,100.00	6,875.60	31.97	25.34	36.06	-38.19	284.37	1,941.76	1,910.27	31.49	61.665	
8,800.00	8,763.42	7,120.52	6,879.65	32.29	25.50	-46.71	-41.82	304.16	2,032.41	2,000.97	31.44	64.641	
8,900.00	8,860.67	7,129.38	6,881.18	32.60	25.57	-35.15	-43.40	312.74	2,118.83	2,087.60	31.23	67.843	
9,000.00	8,952.49	7,150.00	6,884.20	32.88	25.74	-27.82	-47.08	332.80	2,198.71	2,167.62	31.09	70.713	
9,100.00	9,036.10	7,150.00	6,884.20	33.12	25.74	-23.42	-47.08	332.80	2,270.01	2,239.23	30.78	73.755	
9,200.00	9,108.94	7,170.46	6,886.48	33.32	25.91	-20.33	-50.75	352.80	2,331.41	2,300.77	30.64	76.092	
9,300.00	9,168.81	7,200.00	6,888.49	33.50	26.17	-18.23	-56.07	381.78	2,381.83	2,351.24	30.59	77.864	
9,400.00	9,213.90	7,200.00	6,888.49	33.70	26.17	-16.99	-56.07	381.78	2,419.86	2,389.41	30.45	79.483	
9,500.00	9,242.82	7,225.86	6,889.00	34.07	26.40	-16.16	-60.73	407.21	2,445.16	2,414.62	30.54	80.057	
9,600.00	9,254.70	7,306.25	6,889.00	34.66	27.20	-15.76	-74.09	486.48	2,455.96	2,424.98	30.98	79.286	
9,700.00	9,255.00	7,387.37	6,889.00	35.41	28.11	-15.73	-85.30	566.82	2,456.04	2,424.52	31.52	77.914	
9,800.00	9,255.00	7,468.51	6,889.00	36.29	29.11	-15.70	-94.24	647.47	2,455.68	2,423.53	32.15	76.382	
9,900.00	9,255.00	7,549.69	6,889.00	37.28	30.19	-15.66	-100.90	728.36	2,455.15	2,422.30	32.85	74.742	
10,000.00	9,255.00	7,630.90	6,889.00	38.38	31.34	-15.60	-105.26	809.46	2,454.44	2,420.83	33.61	73.027	
10,100.00	9,255.00	7,712.18	6,889.00	39.57	32.55	-15.55	-107.32	890.71	2,453.81	2,419.37	34.44	71.253	
10,134.24	9,255.00	7,746.16	6,889.00	40.01	33.07	-15.55	-107.49	917.92	2,453.76	2,418.98	34.78	70.543	
10,200.00	9,255.00	7,805.15	6,889.00	40.86	34.01	-15.55	-107.52	983.68	2,453.77	2,418.33	35.44	69.237	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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				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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
10,300.00	9,255.00	7,905.15	6,889.00	42.24	35.65	-15.55	-107.57	1,083.68	2,453.78	2,417.21	36.57	67.104	
10,400.00	9,255.00	8,005.15	6,889.00	43.69	37.36	-15.55	-107.62	1,183.68	2,453.79	2,416.03	37.76	64.982	
10,500.00	9,255.00	8,105.15	6,889.00	45.22	39.14	-15.55	-107.67	1,283.68	2,453.80	2,414.78	39.02	62.892	
10,600.00	9,255.00	8,205.15	6,889.00	46.81	40.97	-15.55	-107.72	1,383.68	2,453.81	2,413.48	40.33	60.848	
10,700.00	9,255.00	8,305.15	6,889.00	48.45	42.84	-15.55	-107.77	1,483.68	2,453.82	2,412.13	41.69	58.863	
10,800.00	9,255.00	8,405.15	6,889.00	50.15	44.76	-15.55	-107.82	1,583.68	2,453.83	2,410.73	43.09	56.943	
10,900.00	9,255.00	8,505.15	6,889.00	51.90	46.71	-15.55	-107.86	1,683.68	2,453.84	2,409.30	44.54	55.093	
11,000.00	9,255.00	8,605.15	6,889.00	53.69	48.69	-15.55	-107.91	1,783.68	2,453.85	2,407.82	46.02	53.316	
11,100.00	9,255.00	8,705.15	6,889.00	55.52	50.70	-15.55	-107.96	1,883.68	2,453.86	2,406.31	47.54	51.614	
11,200.00	9,255.00	8,805.15	6,889.00	57.38	52.73	-15.55	-108.01	1,983.68	2,453.87	2,404.77	49.09	49.986	
11,300.00	9,255.00	8,905.15	6,889.00	59.28	54.79	-15.55	-108.06	2,083.68	2,453.88	2,403.21	50.67	48.430	
11,400.00	9,255.00	9,005.15	6,889.00	61.20	56.86	-15.56	-108.11	2,183.68	2,453.89	2,401.61	52.27	46.945	
11,500.00	9,255.00	9,105.15	6,889.00	63.15	58.96	-15.56	-108.16	2,283.68	2,453.90	2,400.00	53.90	45.530	
11,600.00	9,255.00	9,205.15	6,889.00	65.12	61.06	-15.56	-108.20	2,383.68	2,453.91	2,398.36	55.54	44.179	
11,700.00	9,255.00	9,305.15	6,889.00	67.11	63.19	-15.56	-108.25	2,483.68	2,453.91	2,396.70	57.21	42.893	
11,800.00	9,255.00	9,405.15	6,889.00	69.12	65.32	-15.56	-108.30	2,583.68	2,453.92	2,395.03	58.90	41.666	
11,900.00	9,255.00	9,505.15	6,889.00	71.15	67.47	-15.56	-108.35	2,683.68	2,453.93	2,393.34	60.60	40.496	
12,000.00	9,255.00	9,605.15	6,889.00	73.20	69.62	-15.56	-108.40	2,783.68	2,453.94	2,391.63	62.31	39.381	
12,100.00	9,255.00	9,705.15	6,889.00	75.26	71.79	-15.56	-108.45	2,883.68	2,453.95	2,389.91	64.04	38.317	
12,200.00	9,255.00	9,805.15	6,889.00	77.34	73.96	-15.56	-108.50	2,983.68	2,453.96	2,388.18	65.79	37.302	
12,300.00	9,255.00	9,905.15	6,889.00	79.43	76.15	-15.56	-108.54	3,083.68	2,453.97	2,386.43	67.54	36.333	
12,400.00	9,255.00	10,005.15	6,889.00	81.53	78.34	-15.56	-108.59	3,183.68	2,453.98	2,384.68	69.31	35.408	
12,500.00	9,255.00	10,105.15	6,889.00	83.64	80.53	-15.56	-108.64	3,283.68	2,453.99	2,382.91	71.08	34.523	
12,600.00	9,255.00	10,205.15	6,889.00	85.76	82.74	-15.57	-108.69	3,383.68	2,454.00	2,381.13	72.87	33.677	
12,700.00	9,255.00	10,305.15	6,889.00	87.90	84.94	-15.57	-108.74	3,483.68	2,454.01	2,379.35	74.66	32.868	
12,800.00	9,255.00	10,405.15	6,889.00	90.04	87.16	-15.57	-108.79	3,583.68	2,454.02	2,377.56	76.47	32.093	
12,900.00	9,255.00	10,505.15	6,889.00	92.18	89.38	-15.57	-108.84	3,683.68	2,454.03	2,375.76	78.28	31.351	
13,000.00	9,255.00	10,605.15	6,889.00	94.34	91.60	-15.57	-108.89	3,783.68	2,454.04	2,373.95	80.09	30.640	
13,100.00	9,255.00	10,705.15	6,889.00	96.50	93.83	-15.57	-108.93	3,883.68	2,454.05	2,372.14	81.92	29.958	
13,200.00	9,255.00	10,805.15	6,889.00	98.67	96.06	-15.57	-108.98	3,983.68	2,454.06	2,370.31	83.75	29.303	
13,300.00	9,255.00	10,905.15	6,889.00	100.85	98.29	-15.57	-109.03	4,083.68	2,454.07	2,368.49	85.58	28.674	
13,400.00	9,255.00	11,005.15	6,889.00	103.03	100.53	-15.57	-109.08	4,183.68	2,454.08	2,366.66	87.43	28.071	
13,500.00	9,255.00	11,105.15	6,889.00	105.22	102.77	-15.57	-109.13	4,283.68	2,454.09	2,364.82	89.27	27.490	
13,600.00	9,255.00	11,205.15	6,889.00	107.41	105.01	-15.57	-109.18	4,383.68	2,454.10	2,362.98	91.12	26.931	
13,700.00	9,255.00	11,305.15	6,889.00	109.60	107.26	-15.57	-109.23	4,483.68	2,454.11	2,361.13	92.98	26.394	
13,800.00	9,255.00	11,405.15	6,889.00	111.81	109.51	-15.58	-109.27	4,583.68	2,454.12	2,359.28	94.84	25.876	
13,900.00	9,255.00	11,505.15	6,889.00	114.01	111.76	-15.58	-109.32	4,683.68	2,454.13	2,357.42	96.71	25.377	
14,000.00	9,255.00	11,605.15	6,889.00	116.22	114.01	-15.58	-109.37	4,783.68	2,454.14	2,355.57	98.57	24.896	
14,100.00	9,255.00	11,705.15	6,889.00	118.43	116.27	-15.58	-109.42	4,883.68	2,454.15	2,353.70	100.45	24.432	
14,200.00	9,255.00	11,805.15	6,889.00	120.65	118.53	-15.58	-109.47	4,983.68	2,454.16	2,351.84	102.32	23.984	
14,300.00	9,255.00	11,905.15	6,889.00	122.87	120.79	-15.58	-109.52	5,083.68	2,454.17	2,349.97	104.20	23.552	
14,400.00	9,255.00	12,005.15	6,889.00	125.09	123.05	-15.58	-109.57	5,183.68	2,454.18	2,348.10	106.08	23.134	
14,500.00	9,255.00	12,105.15	6,889.00	127.32	125.31	-15.58	-109.61	5,283.68	2,454.19	2,346.22	107.97	22.730	
14,600.00	9,255.00	12,205.15	6,889.00	129.55	127.58	-15.58	-109.66	5,383.68	2,454.20	2,344.34	109.86	22.340	
14,700.00	9,255.00	12,305.15	6,889.00	131.78	129.85	-15.58	-109.71	5,483.68	2,454.21	2,342.46	111.75	21.962	
14,800.00	9,255.00	12,405.15	6,889.00	134.02	132.11	-15.58	-109.76	5,583.68	2,454.22	2,340.58	113.64	21.596	
14,900.00	9,255.00	12,505.15	6,889.00	136.25	134.38	-15.58	-109.81	5,683.68	2,454.23	2,338.69	115.54	21.242	
15,000.00	9,255.00	12,605.15	6,889.00	138.49	136.65	-15.59	-109.86	5,783.68	2,454.24	2,336.80	117.43	20.899	
15,100.00	9,255.00	12,705.15	6,889.00	140.74	138.93	-15.59	-109.91	5,883.68	2,454.25	2,334.91	119.33	20.566	
15,200.00	9,255.00	12,805.15	6,889.00	142.98	141.20	-15.59	-109.95	5,983.68	2,454.26	2,333.02	121.24	20.244	
15,300.00	9,255.00	12,905.15	6,889.00	145.23	143.47	-15.59	-110.00	6,083.68	2,454.27	2,331.13	123.14	19.931	
15,400.00	9,255.00	13,005.15	6,889.00	147.47	145.75	-15.59	-110.05	6,183.68	2,454.28	2,329.23	125.05	19.627	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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							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	9,255.00	13,105.15	6,889.00	149.72	148.02	-15.59	-110.10	6,283.68	2,454.29	2,327.33	126.95	19.332		
15,600.00	9,255.00	13,205.15	6,889.00	151.97	150.30	-15.59	-110.15	6,383.68	2,454.30	2,325.43	128.86	19.046		
15,700.00	9,255.00	13,305.15	6,889.00	154.23	152.58	-15.59	-110.20	6,483.68	2,454.31	2,323.53	130.78	18.767		
15,800.00	9,255.00	13,405.15	6,889.00	156.48	154.86	-15.59	-110.25	6,583.68	2,454.32	2,321.63	132.69	18.497		
15,900.00	9,255.00	13,505.15	6,889.00	158.74	157.14	-15.59	-110.29	6,683.68	2,454.33	2,319.72	134.60	18.234		
16,000.00	9,255.00	13,605.15	6,889.00	161.00	159.42	-15.59	-110.34	6,783.68	2,454.34	2,317.82	136.52	17.978		
16,100.00	9,255.00	13,705.15	6,889.00	163.26	161.70	-15.59	-110.39	6,883.68	2,454.35	2,315.91	138.44	17.729		
16,200.00	9,255.00	13,805.15	6,889.00	165.52	163.99	-15.60	-110.44	6,983.68	2,454.36	2,314.00	140.35	17.487		
16,300.00	9,255.00	13,905.15	6,889.00	167.78	166.27	-15.60	-110.49	7,083.68	2,454.37	2,312.09	142.27	17.251		
16,400.00	9,255.00	14,005.15	6,889.00	170.04	168.55	-15.60	-110.54	7,183.68	2,454.38	2,310.18	144.20	17.021		
16,500.00	9,255.00	14,105.15	6,889.00	172.31	170.84	-15.60	-110.59	7,283.68	2,454.39	2,308.27	146.12	16.797		
16,600.00	9,255.00	14,205.15	6,889.00	174.57	173.12	-15.60	-110.63	7,383.68	2,454.40	2,306.35	148.04	16.579		
16,700.00	9,255.00	14,305.15	6,889.00	176.84	175.41	-15.60	-110.68	7,483.68	2,454.41	2,304.44	149.97	16.366		
16,800.00	9,255.00	14,405.15	6,889.00	179.11	177.69	-15.60	-110.73	7,583.68	2,454.42	2,302.52	151.89	16.159		
16,900.00	9,255.00	14,505.15	6,889.00	181.37	179.98	-15.60	-110.78	7,683.68	2,454.43	2,300.61	153.82	15.956		
17,000.00	9,255.00	14,605.15	6,889.00	183.64	182.27	-15.60	-110.83	7,783.68	2,454.44	2,298.69	155.75	15.759		
17,100.00	9,255.00	14,705.15	6,889.00	185.91	184.56	-15.60	-110.88	7,883.68	2,454.44	2,296.77	157.68	15.566		
17,200.00	9,255.00	14,805.15	6,889.00	188.19	186.85	-15.60	-110.93	7,983.68	2,454.45	2,294.85	159.61	15.378		
17,300.00	9,255.00	14,905.15	6,889.00	190.46	189.13	-15.60	-110.98	8,083.68	2,454.46	2,292.93	161.54	15.194		
17,400.00	9,255.00	15,005.15	6,889.00	192.73	191.42	-15.61	-111.02	8,183.68	2,454.47	2,291.00	163.47	15.015		
17,500.00	9,255.00	15,105.15	6,889.00	195.01	193.71	-15.61	-111.07	8,283.68	2,454.48	2,289.08	165.40	14.839		
17,600.00	9,255.00	15,205.15	6,889.00	197.28	196.00	-15.61	-111.12	8,383.68	2,454.49	2,287.16	167.34	14.668		
17,700.00	9,255.00	15,305.15	6,889.00	199.56	198.30	-15.61	-111.17	8,483.68	2,454.50	2,285.23	169.27	14.501		
17,800.00	9,255.00	15,405.15	6,889.00	201.83	200.59	-15.61	-111.22	8,583.68	2,454.51	2,283.31	171.21	14.337		
17,900.00	9,255.00	15,505.15	6,889.00	204.11	202.88	-15.61	-111.27	8,683.68	2,454.52	2,281.38	173.14	14.176		
18,000.00	9,255.00	15,605.15	6,889.00	206.39	205.17	-15.61	-111.32	8,783.68	2,454.53	2,279.46	175.08	14.020		
18,100.00	9,255.00	15,705.15	6,889.00	208.67	207.46	-15.61	-111.36	8,883.68	2,454.54	2,277.53	177.02	13.866		
18,200.00	9,255.00	15,805.15	6,889.00	210.95	209.76	-15.61	-111.41	8,983.68	2,454.55	2,275.60	178.95	13.716		
18,300.00	9,255.00	15,905.15	6,889.00	213.23	212.05	-15.61	-111.46	9,083.68	2,454.56	2,273.67	180.89	13.569		
18,400.00	9,255.00	16,005.15	6,889.00	215.51	214.34	-15.61	-111.51	9,183.68	2,454.57	2,271.74	182.83	13.425		
18,500.00	9,255.00	16,105.15	6,889.00	217.79	216.64	-15.61	-111.56	9,283.68	2,454.58	2,269.81	184.77	13.284		
18,600.00	9,255.00	16,205.15	6,889.00	220.07	218.93	-15.61	-111.61	9,383.68	2,454.59	2,267.88	186.71	13.146		
18,700.00	9,255.00	16,305.15	6,889.00	222.35	221.22	-15.62	-111.66	9,483.68	2,454.60	2,265.95	188.65	13.011		
18,800.00	9,255.00	16,405.15	6,889.00	224.64	223.52	-15.62	-111.70	9,583.68	2,454.61	2,264.02	190.59	12.879		
18,900.00	9,255.00	16,505.15	6,889.00	226.92	225.81	-15.62	-111.75	9,683.68	2,454.62	2,262.08	192.54	12.749		
19,000.00	9,255.00	16,605.15	6,889.00	229.20	228.11	-15.62	-111.80	9,783.68	2,454.63	2,260.15	194.48	12.622		
19,100.00	9,255.00	16,705.15	6,889.00	231.49	230.40	-15.62	-111.85	9,883.68	2,454.64	2,258.22	196.42	12.497		
19,200.00	9,255.00	16,805.15	6,889.00	233.77	232.70	-15.62	-111.90	9,983.68	2,454.65	2,256.28	198.37	12.374		
19,300.00	9,255.00	16,905.15	6,889.00	236.06	235.00	-15.62	-111.95	10,083.68	2,454.66	2,254.35	200.31	12.254		
19,400.00	9,255.00	17,005.15	6,889.00	238.34	237.25	-15.62	-112.00	10,183.68	2,454.67	2,252.44	202.23	12.138		
19,400.10	9,255.00	17,005.25	6,889.00	238.34	237.25	-15.62	-112.00	10,183.78	2,454.67	2,252.43	202.24	12.138		
19,411.49	9,255.00	17,013.47	6,889.00	238.60	237.37	-15.62	-112.00	10,192.00	2,454.67	2,252.30	202.38	12.129		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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						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	80.00	0.00	80.00				
100.00	100.00	100.00	100.00	0.13	0.13	0.00	80.00	0.00	80.00	79.74	0.26	312.125	
200.00	200.00	200.00	200.00	0.49	0.49	0.00	80.00	0.00	80.00	79.03	0.97	82.199	
300.00	300.00	300.00	300.00	0.85	0.85	0.00	80.00	0.00	80.00	78.31	1.69	47.332	
400.00	400.00	400.00	400.00	1.20	1.20	0.00	80.00	0.00	80.00	77.59	2.41	33.235	
500.00	500.00	500.00	500.00	1.56	1.56	0.00	80.00	0.00	80.00	76.88	3.12	25.608	
600.00	600.00	600.00	600.00	1.92	1.92	0.00	80.00	0.00	80.00	76.16	3.84	20.828	
700.00	700.00	700.00	700.00	2.28	2.28	0.00	80.00	0.00	80.00	75.44	4.56	17.552	
800.00	800.00	800.00	800.00	2.64	2.64	0.00	80.00	0.00	80.00	74.73	5.27	15.166	
900.00	900.00	900.00	900.00	3.00	3.00	0.00	80.00	0.00	80.00	74.01	5.99	13.351	
1,000.00	1,000.00	1,000.00	1,000.00	3.35	3.35	0.00	80.00	0.00	80.00	73.29	6.71	11.925 CC, ES	
1,100.00	1,099.98	1,100.02	1,099.98	3.70	3.71	116.11	80.00	0.00	80.75	73.34	7.41	10.892	
1,200.00	1,199.92	1,200.08	1,199.92	4.04	4.07	118.29	80.00	0.00	82.35	74.24	8.11	10.154	
1,300.00	1,299.86	1,300.14	1,299.86	4.38	4.43	120.38	80.00	0.00	84.06	75.25	8.81	9.541	
1,400.00	1,399.80	1,400.20	1,399.80	4.72	4.79	122.39	80.00	0.00	85.88	76.37	9.51	9.028	
1,500.00	1,499.74	1,500.26	1,499.74	5.07	5.15	124.31	80.00	0.00	87.80	77.58	10.22	8.593	
1,600.00	1,599.68	1,600.32	1,599.68	5.42	5.51	126.15	80.00	0.00	89.81	78.89	10.92	8.221	
1,700.00	1,699.61	1,700.39	1,699.61	5.77	5.87	127.91	80.00	0.00	91.92	80.28	11.63	7.902	
1,800.00	1,799.55	1,800.45	1,799.55	6.12	6.22	129.58	80.00	0.00	94.10	81.76	12.34	7.624	
1,900.00	1,899.49	1,900.51	1,899.49	6.48	6.58	131.18	80.00	0.00	96.36	83.31	13.05	7.383	
2,000.00	1,999.43	1,999.57	1,999.43	6.83	6.94	132.71	80.00	0.00	98.70	84.94	13.76	7.173	
2,100.00	2,099.37	2,099.63	2,099.37	7.19	7.29	133.52	81.52	-0.61	102.37	87.91	14.46	7.082 SF	
2,200.00	2,199.31	2,199.69	2,199.31	7.54	7.63	133.13	86.08	-2.45	108.63	93.48	15.14	7.174	
2,300.00	2,299.25	2,299.75	2,299.25	7.90	7.98	131.75	93.64	-5.51	117.50	101.68	15.82	7.429	
2,400.00	2,399.19	2,399.81	2,399.19	8.25	8.33	130.04	103.10	-9.32	127.89	111.36	16.52	7.739	
2,500.00	2,499.13	2,499.87	2,499.13	8.61	8.69	128.58	112.56	-13.15	138.37	121.14	17.23	8.029	
2,600.00	2,599.03	2,599.97	2,599.03	8.97	9.05	162.97	122.01	-16.96	150.54	132.60	17.94	8.390	
2,700.00	2,698.97	2,699.03	2,698.97	9.32	9.41	175.15	131.42	-20.76	166.09	147.44	18.65	8.907	
2,800.00	2,798.24	2,798.76	2,798.24	9.67	9.77	178.79	140.76	-24.53	184.95	165.61	19.35	9.560	
2,900.00	2,897.62	2,898.38	2,897.62	10.03	10.13	177.37	150.08	-28.30	204.90	184.86	20.04	10.224	
3,000.00	2,996.99	2,997.01	2,996.99	10.39	10.48	176.21	159.41	-32.06	224.94	204.20	20.74	10.846	
3,100.00	3,096.37	3,096.63	3,096.37	10.75	10.85	175.24	168.73	-35.83	245.06	223.62	21.44	11.431	
3,200.00	3,195.74	3,195.26	3,195.74	11.11	11.21	174.41	178.06	-39.59	265.23	243.09	22.14	11.981	
3,300.00	3,295.12	3,294.88	3,295.12	11.48	11.57	173.71	187.38	-43.36	285.45	262.61	22.84	12.498	
3,400.00	3,394.49	3,394.51	3,394.49	11.84	11.93	173.09	196.71	-47.12	305.71	282.16	23.54	12.985	
3,500.00	3,493.87	3,493.13	3,493.87	12.21	12.30	172.55	206.03	-50.89	325.99	301.74	24.25	13.444	
3,600.00	3,593.24	3,592.76	3,593.24	12.58	12.66	172.08	215.36	-54.65	346.30	321.35	24.95	13.878	
3,700.00	3,692.61	3,691.39	3,692.61	12.95	13.02	171.66	224.68	-58.41	366.63	340.97	25.66	14.288	
3,800.00	3,791.99	3,790.01	3,791.99	13.33	13.39	171.28	234.01	-62.18	386.98	360.61	26.37	14.676	
3,900.00	3,891.36	3,889.64	3,891.36	13.70	13.76	170.94	243.33	-65.94	407.34	380.26	27.08	15.044	
4,000.00	3,990.74	3,989.26	3,990.74	14.07	14.12	170.63	252.66	-69.71	427.71	399.93	27.79	15.394	
4,100.00	4,090.11	4,089.89	4,090.11	14.45	14.49	170.35	261.98	-73.47	448.10	419.60	28.49	15.726	
4,200.00	4,189.49	4,188.51	4,189.49	14.83	14.85	170.10	271.31	-77.24	468.49	439.29	29.21	16.041	
4,300.00	4,288.86	4,287.14	4,288.86	15.20	15.22	169.86	280.63	-81.00	488.89	458.98	29.92	16.342	
4,400.00	4,388.24	4,386.76	4,388.24	15.58	15.59	169.65	289.96	-84.77	509.30	478.68	30.63	16.629	
4,500.00	4,487.61	4,485.39	4,487.61	15.96	15.96	169.45	299.28	-88.53	529.72	498.38	31.34	16.902	
4,600.00	4,586.98	4,584.02	4,586.98	16.34	16.33	169.26	308.61	-92.30	550.14	518.09	32.05	17.164	
4,700.00	4,686.36	4,683.64	4,686.36	16.72	16.69	169.09	317.93	-96.06	570.57	537.80	32.77	17.414	
4,800.00	4,785.73	4,781.27	4,785.73	17.10	17.06	168.93	327.26	-99.83	591.00	557.52	33.48	17.653	
4,900.00	4,885.11	4,880.89	4,885.11	17.48	17.43	168.78	336.58	-103.59	611.43	577.24	34.19	17.882	
5,000.00	4,984.48	4,979.52	4,984.48	17.86	17.80	168.65	345.91	-107.36	631.87	596.96	34.91	18.101	
5,100.00	5,083.86	5,078.14	5,083.86	18.25	18.17	168.52	355.23	-111.12	652.31	616.69	35.62	18.312	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N-S (usft)	Offset Wellbore Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,200.00	5,183.23	5,134.12	5,118.57	18.63	18.54	168.39	364.56	-114.89	672.76	636.42	36.34	18.514		
5,300.00	5,282.61	5,232.00	5,215.93	19.01	18.91	168.28	373.88	-118.65	693.21	656.15	37.05	18.709		
5,400.00	5,381.98	5,329.87	5,313.29	19.40	19.28	168.17	383.21	-122.42	713.66	675.89	37.77	18.895		
5,500.00	5,481.36	5,427.75	5,410.65	19.78	19.65	168.07	392.53	-126.18	734.11	695.63	38.48	19.075		
5,600.00	5,580.73	5,525.63	5,508.01	20.16	20.02	167.97	401.86	-129.95	754.57	715.36	39.20	19.249		
5,700.00	5,680.10	5,623.51	5,605.37	20.55	20.39	167.88	411.18	-133.71	775.02	735.10	39.92	19.415		
5,800.00	5,779.48	5,721.39	5,702.73	20.93	20.76	167.79	420.51	-137.48	795.48	754.85	40.63	19.576		
5,900.00	5,878.85	5,819.26	5,800.09	21.32	21.13	167.71	429.83	-141.24	815.94	774.59	41.35	19.732		
6,000.00	5,978.23	5,917.14	5,897.45	21.71	21.50	167.63	439.16	-145.01	836.40	794.33	42.07	19.882		
6,100.00	6,077.60	6,050.02	6,029.86	22.09	21.99	167.59	449.31	-149.11	855.03	812.01	43.02	19.874		
6,200.00	6,176.98	6,188.05	6,167.79	22.48	22.49	167.70	453.83	-150.93	869.24	825.31	43.94	19.784		
6,300.00	6,276.35	6,303.39	6,276.35	22.86	22.89	167.87	454.00	-151.00	880.28	835.57	44.71	19.689		
6,400.00	6,375.73	6,387.71	6,367.39	23.25	23.17	168.15	454.30	-148.71	891.48	846.13	45.36	19.655		
6,500.00	6,475.10	6,470.48	6,449.01	23.64	23.44	169.12	456.04	-135.49	904.27	858.30	45.97	19.671		
6,600.00	6,574.48	6,547.20	6,522.21	24.02	23.66	170.65	459.01	-112.95	919.44	872.92	46.52	19.765		
6,700.00	6,673.85	6,616.10	6,584.86	24.41	23.85	172.48	462.74	-84.60	937.91	890.94	46.97	19.969		
6,800.00	6,773.22	6,676.66	6,636.73	24.80	24.00	174.42	466.81	-53.68	960.63	913.35	47.28	20.317		
6,900.00	6,872.60	6,729.17	6,678.85	25.18	24.11	176.31	470.90	-22.61	988.36	940.93	47.43	20.840		
7,000.00	6,971.97	6,774.43	6,712.71	25.57	24.20	178.08	474.82	7.15	1,021.56	974.17	47.39	21.559		
7,100.00	7,071.35	6,813.38	6,739.87	25.96	24.27	179.68	478.46	34.81	1,060.41	1,013.25	47.16	22.485		
7,200.00	7,170.72	6,850.00	6,763.64	26.35	24.34	-178.76	482.10	62.43	1,104.85	1,058.03	46.82	23.599		
7,300.00	7,270.10	6,876.01	6,779.41	26.74	24.45	-177.62	484.80	82.94	1,154.62	1,108.35	46.27	24.953		
7,400.00	7,369.47	6,900.00	6,793.11	27.12	24.56	-176.56	487.37	102.46	1,209.38	1,163.74	45.64	26.497		
7,500.00	7,468.85	6,923.38	6,805.65	27.51	24.68	-175.51	489.94	122.01	1,268.69	1,223.69	45.00	28.196		
7,600.00	7,568.22	6,950.00	6,818.95	27.90	24.82	-174.31	492.95	144.88	1,332.16	1,287.77	44.39	30.012		
7,700.00	7,667.59	6,950.00	6,818.95	28.29	24.82	-174.31	492.95	144.88	1,399.31	1,355.87	43.44	32.209		
7,800.00	7,766.97	6,975.27	6,830.56	28.68	24.96	-173.16	495.88	167.12	1,469.59	1,426.70	42.89	34.264		
7,900.00	7,866.34	7,000.00	6,840.96	29.07	25.10	-172.03	498.81	189.37	1,542.97	1,500.60	42.37	36.419		
8,000.00	7,965.72	7,000.00	6,840.96	29.46	25.10	-172.03	498.81	189.37	1,618.67	1,577.10	41.57	38.936		
8,100.00	8,065.09	7,000.00	6,840.96	29.84	25.10	-172.03	498.81	189.37	1,696.89	1,656.05	40.84	41.547		
8,200.00	8,164.47	7,022.27	6,849.49	30.23	25.25	-171.02	501.50	209.76	1,776.82	1,736.36	40.46	43.918		
8,300.00	8,263.97	7,031.50	6,852.79	30.62	25.31	-170.98	502.62	218.31	1,857.95	1,818.00	39.95	46.510		
8,400.00	8,363.75	7,050.00	6,858.98	30.99	25.42	-170.62	504.90	235.59	1,938.87	1,899.31	39.56	49.011		
8,500.00	8,463.70	7,050.00	6,858.98	31.34	25.42	-171.05	504.90	235.59	2,019.23	1,980.26	38.97	51.809		
8,600.00	8,563.70	7,050.00	6,858.98	31.66	25.42	19.02	504.90	235.59	2,099.71	2,061.30	38.41	54.663		
8,700.00	8,663.70	7,050.00	6,858.98	31.97	25.42	19.02	504.90	235.59	2,181.68	2,143.77	37.91	57.550		
8,800.00	8,763.42	7,071.31	6,865.41	32.29	25.57	-67.09	507.55	255.73	2,263.84	2,226.16	37.68	60.082		
8,900.00	8,863.67	7,100.00	6,872.86	32.60	25.78	-54.90	511.16	283.20	2,343.93	2,306.40	37.53	62.452		
9,000.00	8,963.49	7,100.00	6,872.86	32.88	25.78	-46.24	511.16	283.20	2,418.58	2,381.46	37.13	65.146		
9,100.00	9,063.10	7,100.00	6,872.86	33.12	25.78	-39.86	511.16	283.20	2,486.85	2,450.08	36.78	67.619		
9,200.00	9,162.94	7,125.52	6,878.32	33.32	25.98	-35.20	514.42	307.92	2,566.63	2,509.90	36.73	69.331		
9,300.00	9,262.81	7,150.00	6,882.51	33.50	26.17	-31.98	517.56	331.82	2,596.85	2,560.09	36.76	70.644		
9,400.00	9,362.69	7,150.00	6,882.51	33.70	26.17	-29.77	517.56	331.82	2,636.35	2,599.62	36.72	71.790		
9,500.00	9,462.82	7,179.32	6,886.17	34.07	26.41	-28.45	521.36	360.66	2,664.15	2,627.08	37.07	71.876		
9,600.00	9,562.70	7,200.00	6,887.85	34.66	26.59	-27.79	524.05	381.10	2,680.01	2,642.50	37.51	71.450		
9,700.00	9,662.50	7,216.81	6,888.67	35.41	26.74	-27.93	528.24	397.74	2,688.15	2,650.07	38.07	70.604		
9,800.00	9,762.39	7,236.29	6,889.00	36.29	26.91	-28.18	528.79	417.06	2,697.43	2,658.71	38.73	69.651		
9,900.00	9,862.28	7,256.19	6,889.00	37.28	28.75	-28.85	546.41	592.55	2,705.27	2,664.84	40.44	66.902		
10,000.00	9,962.17	7,276.17	6,889.00	38.38	31.09	-29.12	553.26	776.87	2,708.41	2,666.02	42.39	63.899		
10,100.00	10,062.06	7,296.15	6,889.00	39.57	32.62	-29.13	553.25	883.97	2,708.49	2,664.65	43.85	61.772		
10,200.00	10,161.95	7,316.13	6,889.00	40.86	34.15	-29.13	553.21	983.97	2,708.51	2,663.15	45.36	59.712		
10,300.00	10,261.84	7,336.11	6,889.00	42.24	35.76	-29.13	553.16	1,083.97	2,708.53	2,661.56	46.97	57.664		

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: #206H
Well Error: 0.00 usft
Reference Wellbore OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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						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	
10,400.00	9,255.00	8,004.27	6,889.00	43.69	37.44	-29.13	553.12	1,183.96	2,708.55	2,659.88	48.67	55.650	
10,500.00	9,255.00	8,104.27	6,889.00	45.22	39.19	-29.13	553.07	1,283.96	2,708.57	2,658.12	50.45	53.686	
10,600.00	9,255.00	8,204.27	6,889.00	46.81	40.99	-29.13	553.02	1,383.96	2,708.59	2,656.28	52.30	51.785	
10,700.00	9,255.00	8,304.27	6,889.00	48.45	42.84	-29.13	552.98	1,483.96	2,708.61	2,654.39	54.22	49.954	
10,800.00	9,255.00	8,404.27	6,889.00	50.15	44.73	-29.13	552.93	1,583.96	2,708.63	2,652.43	56.20	48.199	
10,900.00	9,255.00	8,504.27	6,889.00	51.90	46.67	-29.13	552.89	1,683.96	2,708.65	2,650.42	58.22	46.521	
11,000.00	9,255.00	8,604.27	6,889.00	53.69	48.63	-29.13	552.84	1,783.96	2,708.67	2,648.37	60.30	44.920	
11,100.00	9,255.00	8,704.27	6,889.00	55.52	50.62	-29.13	552.80	1,883.96	2,708.69	2,646.27	62.42	43.397	
11,200.00	9,255.00	8,804.27	6,889.00	57.38	52.64	-29.13	552.75	1,983.96	2,708.70	2,644.13	64.57	41.949	
11,300.00	9,255.00	8,904.27	6,889.00	59.28	54.68	-29.14	552.70	2,083.96	2,708.72	2,641.96	66.76	40.573	
11,400.00	9,255.00	9,004.27	6,889.00	61.20	56.74	-29.14	552.66	2,183.96	2,708.74	2,639.76	68.98	39.266	
11,500.00	9,255.00	9,104.27	6,889.00	63.15	58.82	-29.14	552.61	2,283.96	2,708.76	2,637.53	71.23	38.026	
11,600.00	9,255.00	9,204.27	6,889.00	65.12	60.92	-29.14	552.57	2,383.96	2,708.78	2,635.27	73.51	36.849	
11,700.00	9,255.00	9,304.27	6,889.00	67.11	63.03	-29.14	552.52	2,483.96	2,708.80	2,632.99	75.81	35.731	
11,800.00	9,255.00	9,404.27	6,889.00	69.12	65.15	-29.14	552.48	2,583.96	2,708.82	2,630.69	78.13	34.670	
11,900.00	9,255.00	9,504.27	6,889.00	71.15	67.29	-29.14	552.43	2,683.96	2,708.84	2,628.37	80.47	33.662	
12,000.00	9,255.00	9,604.27	6,889.00	73.20	69.44	-29.14	552.38	2,783.96	2,708.86	2,626.03	82.83	32.703	
12,100.00	9,255.00	9,704.27	6,889.00	75.26	71.60	-29.14	552.34	2,883.96	2,708.88	2,623.67	85.21	31.791	
12,200.00	9,255.00	9,804.27	6,889.00	77.34	73.76	-29.14	552.29	2,983.96	2,708.90	2,621.30	87.60	30.924	
12,300.00	9,255.00	9,904.27	6,889.00	79.43	75.94	-29.14	552.25	3,083.96	2,708.92	2,618.91	90.00	30.098	
12,400.00	9,255.00	10,004.27	6,889.00	81.53	78.12	-29.14	552.20	3,183.96	2,708.93	2,616.51	92.42	29.310	
12,500.00	9,255.00	10,104.27	6,889.00	83.64	80.31	-29.14	552.16	3,283.96	2,708.95	2,614.10	94.85	28.560	
12,600.00	9,255.00	10,204.27	6,889.00	85.76	82.51	-29.14	552.11	3,383.96	2,708.97	2,611.68	97.29	27.843	
12,700.00	9,255.00	10,304.27	6,889.00	87.90	84.71	-29.15	552.06	3,483.96	2,708.99	2,609.25	99.75	27.159	
12,800.00	9,255.00	10,404.27	6,889.00	90.04	86.92	-29.15	552.02	3,583.96	2,709.01	2,606.81	102.21	26.505	
12,900.00	9,255.00	10,504.27	6,889.00	92.18	89.13	-29.15	551.97	3,683.96	2,709.03	2,604.35	104.68	25.880	
13,000.00	9,255.00	10,604.27	6,889.00	94.34	91.35	-29.15	551.93	3,783.96	2,709.05	2,601.90	107.15	25.282	
13,100.00	9,255.00	10,704.27	6,889.00	96.50	93.57	-29.15	551.88	3,883.96	2,709.07	2,599.43	109.64	24.709	
13,200.00	9,255.00	10,804.27	6,889.00	98.67	95.80	-29.15	551.84	3,983.96	2,709.09	2,596.96	112.13	24.159	
13,300.00	9,255.00	10,904.27	6,889.00	100.85	98.03	-29.15	551.79	4,083.96	2,709.11	2,594.47	114.63	23.633	
13,400.00	9,255.00	11,004.27	6,889.00	103.03	100.26	-29.15	551.74	4,183.96	2,709.13	2,591.99	117.14	23.127	
13,500.00	9,255.00	11,104.27	6,889.00	105.22	102.50	-29.15	551.70	4,283.96	2,709.15	2,589.49	119.65	22.642	
13,600.00	9,255.00	11,204.27	6,889.00	107.41	104.74	-29.15	551.65	4,383.96	2,709.17	2,587.00	122.17	22.175	
13,700.00	9,255.00	11,304.27	6,889.00	109.60	106.98	-29.15	551.61	4,483.96	2,709.18	2,584.49	124.69	21.727	
13,800.00	9,255.00	11,404.27	6,889.00	111.81	109.22	-29.15	551.56	4,583.96	2,709.20	2,581.98	127.22	21.295	
13,900.00	9,255.00	11,504.27	6,889.00	114.01	111.47	-29.15	551.52	4,683.96	2,709.22	2,579.47	129.75	20.880	
14,000.00	9,255.00	11,604.27	6,889.00	116.22	113.72	-29.15	551.47	4,783.96	2,709.24	2,576.95	132.29	20.479	
14,100.00	9,255.00	11,704.27	6,889.00	118.43	115.98	-29.16	551.42	4,883.96	2,709.26	2,574.43	134.83	20.093	
14,200.00	9,255.00	11,804.27	6,889.00	120.65	118.23	-29.16	551.38	4,983.96	2,709.28	2,571.90	137.38	19.721	
14,300.00	9,255.00	11,904.27	6,889.00	122.87	120.49	-29.16	551.33	5,083.96	2,709.30	2,569.37	139.93	19.362	
14,400.00	9,255.00	12,004.27	6,889.00	125.09	122.75	-29.16	551.29	5,183.96	2,709.32	2,566.84	142.48	19.015	
14,500.00	9,255.00	12,104.27	6,889.00	127.32	125.01	-29.16	551.24	5,283.96	2,709.34	2,564.30	145.04	18.681	
14,600.00	9,255.00	12,204.27	6,889.00	129.55	127.27	-29.16	551.20	5,383.96	2,709.36	2,561.76	147.59	18.357	
14,700.00	9,255.00	12,304.27	6,889.00	131.78	129.54	-29.16	551.15	5,483.96	2,709.38	2,559.22	150.16	18.044	
14,800.00	9,255.00	12,404.27	6,889.00	134.02	131.80	-29.16	551.11	5,583.96	2,709.40	2,556.67	152.72	17.741	
14,900.00	9,255.00	12,504.27	6,889.00	136.25	134.07	-29.16	551.06	5,683.96	2,709.42	2,554.13	155.29	17.448	
15,000.00	9,255.00	12,604.27	6,889.00	138.49	136.34	-29.16	551.01	5,783.96	2,709.43	2,551.58	157.86	17.164	
15,100.00	9,255.00	12,704.27	6,889.00	140.74	138.61	-29.16	550.97	5,883.96	2,709.45	2,549.02	160.43	16.888	
15,200.00	9,255.00	12,804.27	6,889.00	142.98	140.88	-29.16	550.92	5,983.96	2,709.47	2,546.47	163.01	16.622	
15,300.00	9,255.00	12,904.27	6,889.00	145.23	143.15	-29.16	550.88	6,083.96	2,709.49	2,543.91	165.58	16.363	
15,400.00	9,255.00	13,004.27	6,889.00	147.47	145.42	-29.16	550.83	6,183.96	2,709.51	2,541.35	168.16	16.112	
15,500.00	9,255.00	13,104.27	6,889.00	149.72	147.70	-29.17	550.79	6,283.96	2,709.53	2,538.79	170.75	15.869	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		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)							
15,600.00	9,255.00	13,204.27	6,889.00	151.97	149.97	-29.17	550.74	6,383.96	2,709.55	2,536.22	173.33	15.632			
15,700.00	9,255.00	13,304.27	6,889.00	154.23	152.25	-29.17	550.69	6,483.96	2,709.57	2,533.65	175.91	15.403			
15,800.00	9,255.00	13,404.27	6,889.00	156.48	154.53	-29.17	550.65	6,583.96	2,709.59	2,531.09	178.50	15.180			
15,900.00	9,255.00	13,504.27	6,889.00	158.74	156.81	-29.17	550.60	6,683.96	2,709.61	2,528.52	181.09	14.963			
16,000.00	9,255.00	13,604.27	6,889.00	161.00	159.09	-29.17	550.56	6,783.96	2,709.63	2,525.95	183.68	14.752			
16,100.00	9,255.00	13,704.27	6,889.00	163.26	161.37	-29.17	550.51	6,883.96	2,709.65	2,523.37	186.27	14.547			
16,200.00	9,255.00	13,804.27	6,889.00	165.52	163.65	-29.17	550.47	6,983.96	2,709.67	2,520.80	188.87	14.347			
16,300.00	9,255.00	13,904.27	6,889.00	167.78	165.93	-29.17	550.42	7,083.96	2,709.68	2,518.22	191.46	14.153			
16,400.00	9,255.00	14,004.27	6,889.00	170.04	168.21	-29.17	550.37	7,183.96	2,709.70	2,515.64	194.06	13.963			
16,500.00	9,255.00	14,104.27	6,889.00	172.31	170.49	-29.17	550.33	7,283.96	2,709.72	2,513.07	196.66	13.779			
16,600.00	9,255.00	14,204.27	6,889.00	174.57	172.78	-29.17	550.28	7,383.96	2,709.74	2,510.49	199.26	13.599			
16,700.00	9,255.00	14,304.27	6,889.00	176.84	175.06	-29.17	550.24	7,483.96	2,709.76	2,507.90	201.86	13.424			
16,800.00	9,255.00	14,404.27	6,889.00	179.11	177.35	-29.18	550.19	7,583.96	2,709.78	2,505.32	204.46	13.253			
16,900.00	9,255.00	14,504.27	6,889.00	181.37	179.63	-29.18	550.15	7,683.96	2,709.80	2,502.74	207.06	13.087			
17,000.00	9,255.00	14,604.27	6,889.00	183.64	181.92	-29.18	550.10	7,783.96	2,709.82	2,500.15	209.67	12.924			
17,100.00	9,255.00	14,704.27	6,889.00	185.91	184.21	-29.18	550.05	7,883.96	2,709.84	2,497.57	212.27	12.766			
17,200.00	9,255.00	14,804.27	6,889.00	188.19	186.49	-29.18	550.01	7,983.96	2,709.86	2,494.98	214.88	12.611			
17,300.00	9,255.00	14,904.27	6,889.00	190.46	188.78	-29.18	549.96	8,083.96	2,709.88	2,492.39	217.49	12.460			
17,400.00	9,255.00	15,004.27	6,889.00	192.73	191.07	-29.18	549.92	8,183.96	2,709.90	2,489.80	220.10	12.312			
17,500.00	9,255.00	15,104.27	6,889.00	195.01	193.36	-29.18	549.87	8,283.96	2,709.92	2,487.21	222.70	12.168			
17,600.00	9,255.00	15,204.27	6,889.00	197.28	195.65	-29.18	549.83	8,383.96	2,709.93	2,484.62	225.31	12.027			
17,700.00	9,255.00	15,304.27	6,889.00	199.56	197.94	-29.18	549.78	8,483.96	2,709.95	2,482.03	227.93	11.890			
17,800.00	9,255.00	15,404.27	6,889.00	201.83	200.23	-29.18	549.73	8,583.96	2,709.97	2,479.44	230.54	11.755			
17,900.00	9,255.00	15,504.27	6,889.00	204.11	202.52	-29.18	549.69	8,683.96	2,709.99	2,476.84	233.15	11.623			
18,000.00	9,255.00	15,604.27	6,889.00	206.39	204.81	-29.18	549.64	8,783.96	2,710.01	2,474.25	235.77	11.495			
18,100.00	9,255.00	15,704.27	6,889.00	208.67	207.10	-29.18	549.60	8,883.96	2,710.03	2,471.65	238.38	11.369			
18,200.00	9,255.00	15,804.27	6,889.00	210.95	209.39	-29.19	549.55	8,983.96	2,710.05	2,469.06	241.00	11.245			
18,300.00	9,255.00	15,904.27	6,889.00	213.23	211.69	-29.19	549.51	9,083.96	2,710.07	2,466.46	243.61	11.125			
18,400.00	9,255.00	16,004.27	6,889.00	215.51	213.98	-29.19	549.46	9,183.96	2,710.09	2,463.86	246.23	11.006			
18,500.00	9,255.00	16,104.27	6,889.00	217.79	216.27	-29.19	549.41	9,283.96	2,710.11	2,461.26	248.85	10.891			
18,600.00	9,255.00	16,204.27	6,889.00	220.07	218.56	-29.19	549.37	9,383.96	2,710.13	2,458.66	251.46	10.777			
18,700.00	9,255.00	16,304.27	6,889.00	222.35	220.86	-29.19	549.32	9,483.96	2,710.15	2,456.06	254.08	10.666			
18,800.00	9,255.00	16,404.27	6,889.00	224.64	223.15	-29.19	549.28	9,583.96	2,710.17	2,453.46	256.70	10.558			
18,900.00	9,255.00	16,504.27	6,889.00	226.92	225.45	-29.19	549.23	9,683.96	2,710.19	2,450.86	259.32	10.451			
19,000.00	9,255.00	16,604.27	6,889.00	229.20	227.74	-29.19	549.19	9,783.96	2,710.20	2,448.26	261.94	10.347			
19,100.00	9,255.00	16,704.27	6,889.00	231.49	230.04	-29.19	549.14	9,883.96	2,710.22	2,445.66	264.57	10.244			
19,200.00	9,255.00	16,804.27	6,889.00	233.77	232.33	-29.19	549.09	9,983.96	2,710.24	2,443.06	267.19	10.144			
19,300.00	9,255.00	16,904.27	6,889.00	236.06	234.63	-29.19	549.05	10,083.96	2,710.26	2,440.45	269.81	10.045			
19,400.00	9,255.00	17,004.27	6,889.00	238.34	236.92	-29.19	549.00	10,183.96	2,710.28	2,437.85	272.43	9.948			
19,411.49	9,255.00	17,011.31	6,889.00	238.60	237.08	-29.19	549.00	10,191.00	2,710.29	2,437.62	272.67	9.940			

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	-1.00	0.00	0.00	20.56	80.00	30.00	85.44				
100.00	100.00	101.00	99.00	0.13	0.13	20.56	80.00	30.00	85.44	85.18	0.26	328.752	
200.00	200.00	201.00	199.00	0.49	0.49	20.56	80.00	30.00	85.44	84.46	0.98	87.466	
300.00	300.00	301.00	299.00	0.85	0.85	20.56	80.00	30.00	85.44	83.75	1.69	50.443	
400.00	400.00	401.00	399.00	1.20	1.21	20.56	80.00	30.00	85.44	83.03	2.41	35.442	
500.00	500.00	501.00	499.00	1.56	1.57	20.56	80.00	30.00	85.44	82.31	3.13	27.318	
600.00	600.00	601.00	599.00	1.92	1.92	20.56	80.00	30.00	85.44	81.60	3.84	22.223	
700.00	700.00	701.00	699.00	2.28	2.28	20.56	80.00	30.00	85.44	80.88	4.56	18.730	
800.00	800.00	801.00	799.00	2.64	2.64	20.56	80.00	30.00	85.44	80.16	5.28	16.186	
900.00	900.00	901.00	899.00	3.00	3.00	20.56	80.00	30.00	85.44	79.44	6.00	14.251	
1,000.00	1,000.00	1,001.00	999.00	3.35	3.36	20.56	80.00	30.00	85.44	78.73	6.71	12.729	
1,100.00	1,099.98	1,101.02	1,098.98	3.70	3.72	136.35	80.00	30.00	86.69	79.28	7.42	11.688	
1,200.00	1,199.92	1,201.08	1,198.92	4.04	4.08	137.89	80.00	30.00	89.25	81.14	8.11	11.000	
1,300.00	1,299.86	1,301.14	1,298.86	4.38	4.43	139.35	80.00	30.00	91.87	83.06	8.81	10.425	
1,400.00	1,399.80	1,401.20	1,398.80	4.72	4.79	140.73	80.00	30.00	94.55	85.03	9.52	9.937	
1,500.00	1,499.74	1,498.74	1,498.74	5.07	5.14	142.03	80.00	30.00	97.28	87.07	10.21	9.527	
1,600.00	1,599.68	1,601.91	1,601.89	5.42	5.49	143.71	78.20	29.83	98.44	87.53	10.91	9.026	
1,700.00	1,699.61	1,705.00	1,704.83	5.77	5.83	146.27	72.70	29.30	96.42	84.84	11.58	8.328	
1,800.00	1,799.55	1,807.69	1,807.10	6.12	6.17	150.02	63.57	28.43	91.45	79.20	12.24	7.469	
1,900.00	1,899.49	1,909.72	1,908.33	6.48	6.51	155.55	50.88	27.22	83.94	71.03	12.91	6.501	
2,000.00	1,999.43	2,010.84	2,008.14	6.83	6.86	163.86	34.78	25.68	74.70	61.11	13.59	5.497	
2,100.00	2,099.37	2,110.83	2,106.21	7.19	7.22	176.56	15.42	23.83	65.34	51.04	14.31	4.568	
2,200.00	2,199.31	2,209.27	2,202.09	7.54	7.59	-164.94	-6.81	21.70	59.08	43.99	15.08	3.917	
2,237.10	2,236.39	2,245.47	2,237.27	7.67	7.73	-157.21	-15.27	20.89	58.51	43.14	15.37	3.806 CC, ES	
2,300.00	2,299.25	2,306.83	2,296.92	7.90	7.96	-144.24	-29.62	19.52	60.12	44.28	15.84	3.796 SF	
2,400.00	2,399.19	2,404.39	2,391.75	8.25	8.35	-126.39	-52.43	17.34	68.58	52.07	16.51	4.153	
2,500.00	2,499.13	2,501.95	2,486.58	8.61	8.74	-113.30	-75.24	15.16	82.20	65.05	17.16	4.791	
2,600.00	2,599.03	2,600.14	2,581.75	8.97	9.15	-68.73	-98.14	12.97	97.45	79.63	17.81	5.470	
2,700.00	2,698.77	2,701.58	2,677.55	9.32	9.58	-49.47	-121.18	10.77	111.19	92.69	18.50	6.010	
2,800.00	2,798.24	2,802.50	2,773.85	9.67	10.01	-40.60	-144.35	8.55	122.61	103.41	19.20	6.386	
2,900.00	2,897.62	2,903.29	2,870.29	10.03	10.44	-37.77	-167.55	6.33	133.48	113.57	19.91	6.704	
3,000.00	2,996.99	3,004.09	2,966.72	10.39	10.88	-35.38	-190.74	4.11	144.63	124.01	20.62	7.012	
3,100.00	3,096.37	3,095.12	3,063.15	10.75	11.28	-33.33	-213.94	1.90	155.99	134.69	21.31	7.322	
3,200.00	3,195.74	3,194.33	3,159.58	11.11	11.72	-31.55	-237.14	-0.32	167.53	145.51	22.02	7.608	
3,300.00	3,295.12	3,306.46	3,256.02	11.48	12.22	-30.01	-260.34	-2.54	179.20	156.41	22.79	7.863	
3,400.00	3,394.49	3,407.25	3,352.45	11.84	12.68	-28.66	-283.53	-4.76	190.98	167.46	23.52	8.121	
3,500.00	3,493.87	3,491.96	3,448.88	12.21	13.06	-27.46	-306.73	-6.97	202.86	178.67	24.18	8.388	
3,600.00	3,593.24	3,591.16	3,545.31	12.58	13.51	-26.40	-329.93	-9.19	214.81	189.90	24.91	8.623	
3,700.00	3,692.61	3,709.63	3,641.75	12.95	14.05	-25.45	-353.13	-11.41	226.83	201.12	25.71	8.822	
3,800.00	3,791.99	3,789.58	3,738.18	13.33	14.42	-24.59	-376.32	-13.63	238.91	212.54	26.37	9.061	
3,900.00	3,891.36	3,888.79	3,834.61	13.70	14.88	-23.82	-399.52	-15.85	251.03	223.93	27.10	9.263	
4,000.00	3,990.74	3,988.00	3,931.04	14.07	15.34	-23.12	-422.72	-18.06	263.20	235.36	27.83	9.456	
4,100.00	4,090.11	4,087.20	4,027.48	14.45	15.80	-22.48	-445.92	-20.28	275.40	246.83	28.57	9.640	
4,200.00	4,189.49	4,186.41	4,123.91	14.83	16.26	-21.89	-469.11	-22.50	287.63	258.32	29.30	9.816	
4,300.00	4,288.86	4,285.62	4,220.34	15.20	16.72	-21.35	-492.31	-24.72	299.88	269.84	30.04	9.983	
4,400.00	4,388.24	4,384.83	4,316.77	15.58	17.19	-20.86	-515.51	-26.93	312.17	281.39	30.78	10.143	
4,500.00	4,487.61	4,484.04	4,413.21	15.96	17.65	-20.40	-538.71	-29.15	324.47	292.95	31.52	10.295	
4,600.00	4,586.98	4,583.25	4,509.64	16.34	18.12	-19.97	-561.90	-31.37	336.79	304.53	32.26	10.441	
4,700.00	4,686.36	4,682.45	4,606.07	16.72	18.59	-19.58	-585.10	-33.59	349.13	316.13	33.00	10.581	
4,800.00	4,785.73	4,781.66	4,702.50	17.10	19.05	-19.21	-608.30	-35.81	361.48	327.75	33.74	10.714	
4,900.00	4,885.11	4,891.56	4,809.61	17.48	19.56	-18.88	-632.78	-38.15	372.79	338.18	34.61	10.770	
5,000.00	4,984.48	5,005.84	4,921.88	17.86	20.07	-18.72	-654.00	-40.18	380.39	344.89	35.50	10.715	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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
5,100.00	5,083.86	5,120.65	5,035.42	18.25	20.54	-18.72	-670.81	-41.78	384.12	347.79	36.34	10.571	
5,200.00	5,183.23	5,235.59	5,149.70	18.63	20.98	-18.89	-683.09	-42.96	383.96	346.84	37.12	10.344	
5,300.00	5,282.61	5,350.32	5,264.16	19.01	21.39	-19.23	-690.79	-43.69	379.92	342.07	37.85	10.037	
5,400.00	5,381.98	5,464.46	5,378.25	19.40	21.75	-19.76	-693.92	-43.99	372.04	333.52	38.52	9.658	
5,500.00	5,481.36	5,566.57	5,480.36	19.78	22.05	-20.37	-694.00	-44.00	361.61	322.40	39.21	9.223	
5,600.00	5,580.73	5,665.94	5,579.73	20.16	22.34	-21.01	-694.00	-44.00	351.16	311.25	39.91	8.799	
5,700.00	5,680.10	5,765.32	5,679.10	20.55	22.63	-21.68	-694.00	-44.00	340.75	300.13	40.61	8.390	
5,800.00	5,779.48	5,864.69	5,778.48	20.93	22.92	-22.39	-694.00	-44.00	330.39	289.06	41.32	7.995	
5,900.00	5,878.85	5,964.07	5,877.85	21.32	23.21	-23.15	-694.00	-44.00	320.08	278.04	42.04	7.614	
6,000.00	5,978.23	6,063.44	5,977.23	21.71	23.51	-23.97	-694.00	-44.00	309.83	267.08	42.75	7.247	
6,100.00	6,077.60	6,162.82	6,076.60	22.09	23.81	-24.83	-694.00	-44.00	299.65	256.18	43.47	6.893	
6,200.00	6,176.98	6,262.19	6,175.98	22.48	24.11	-25.76	-694.00	-44.00	289.54	245.35	44.20	6.551	
6,300.00	6,276.35	6,361.56	6,275.35	22.86	24.41	-26.75	-694.00	-44.00	279.52	234.59	44.92	6.222	
6,400.00	6,375.73	6,461.66	6,365.38	23.25	24.68	-28.13	-694.21	-41.88	270.58	224.85	45.73	5.917	
6,487.60	6,462.78	6,523.27	6,436.16	23.59	24.90	-31.01	-695.26	-31.33	267.64	221.20	46.44	5.763	
6,500.00	6,475.10	6,533.15	6,445.80	23.64	24.93	-31.54	-695.48	-29.19	267.71	221.18	46.53	5.753	
6,600.00	6,574.48	6,609.42	6,518.72	24.02	25.16	-36.60	-697.68	-7.14	273.60	226.54	47.06	5.814	
6,700.00	6,673.85	6,678.58	6,581.78	24.41	25.36	-42.32	-700.49	21.03	290.79	243.79	47.00	6.187	
6,800.00	6,773.22	6,739.86	6,634.45	24.80	25.52	-47.83	-703.60	52.14	320.65	274.47	46.17	6.944	
6,900.00	6,872.60	6,793.37	6,677.48	25.18	25.65	-52.63	-706.75	83.76	362.82	318.08	44.74	8.110	
7,000.00	6,971.97	6,839.73	6,712.23	25.57	25.77	-56.60	-709.80	114.27	415.70	372.73	42.97	9.674	
7,100.00	7,071.35	6,879.78	6,740.17	25.96	25.86	-59.81	-712.65	142.81	477.31	436.14	41.17	11.594	
7,200.00	7,170.72	6,914.42	6,762.67	26.35	25.94	-62.38	-715.26	169.01	545.80	506.33	39.47	13.828	
7,300.00	7,270.10	6,950.00	6,784.08	26.74	26.02	-64.82	-718.08	197.28	619.72	581.51	38.21	16.220	
7,400.00	7,369.47	6,970.62	6,795.67	27.12	26.07	-66.13	-719.78	214.25	697.75	661.11	36.64	19.043	
7,500.00	7,468.85	7,000.00	6,811.11	27.51	26.14	-67.88	-722.26	239.12	779.22	743.46	35.77	21.786	
7,600.00	7,568.22	7,013.67	6,817.85	27.90	26.18	-68.64	-723.44	250.96	863.23	828.66	34.57	24.969	
7,700.00	7,667.59	7,031.50	6,826.21	28.29	26.23	-69.59	-725.00	266.63	949.44	915.66	33.78	28.108	
7,800.00	7,766.97	7,050.00	6,834.36	28.68	26.28	-70.53	-726.65	283.15	1,037.42	1,004.22	33.20	31.250	
7,900.00	7,866.34	7,050.00	6,834.36	29.07	26.28	-70.53	-726.65	283.15	1,127.00	1,094.74	32.26	34.934	
8,000.00	7,965.72	7,074.26	6,844.23	29.46	26.35	-71.68	-728.85	305.20	1,217.46	1,185.33	32.13	37.891	
8,100.00	8,065.09	7,100.00	6,853.67	29.84	26.44	-72.81	-731.23	329.03	1,309.35	1,277.25	32.11	40.780	
8,200.00	8,164.47	7,100.00	6,853.67	30.23	26.44	-72.81	-731.23	329.03	1,401.62	1,370.05	31.57	44.396	
8,300.00	8,263.97	7,100.00	6,853.67	30.62	26.44	-77.09	-731.23	329.03	1,495.00	1,463.85	31.16	47.985	
8,400.00	8,363.75	7,100.00	6,853.67	30.99	26.44	-82.75	-731.23	329.03	1,589.44	1,558.59	30.85	51.526	
8,500.00	8,463.70	7,122.54	6,861.04	31.34	26.53	-89.19	-733.35	350.21	1,684.05	1,653.02	31.02	54.281	
8,600.00	8,563.70	7,130.05	6,863.31	31.66	26.56	98.73	-734.06	357.34	1,779.36	1,748.39	30.97	57.449	
8,700.00	8,663.70	7,150.00	6,868.89	31.97	26.65	98.62	-735.96	376.40	1,875.24	1,844.08	31.16	60.181	
8,800.00	8,763.42	7,150.00	6,868.89	32.29	26.65	0.29	-735.96	376.40	1,969.24	1,938.25	31.00	63.531	
8,900.00	8,860.67	7,150.00	6,868.89	32.60	26.65	0.21	-735.96	376.40	2,057.08	2,026.37	30.71	66.981	
9,000.00	8,952.49	7,150.00	6,868.89	32.88	26.65	0.17	-735.96	376.40	2,136.92	2,106.58	30.34	70.421	
9,100.00	9,036.10	7,200.00	6,879.90	33.12	26.92	0.06	-740.80	424.92	2,206.45	2,175.93	30.51	72.307	
9,200.00	9,108.94	7,200.00	6,879.90	33.32	26.92	0.06	-740.80	424.92	2,264.46	2,234.42	30.04	75.383	
9,300.00	9,168.81	7,200.00	6,879.90	33.50	26.92	0.05	-740.80	424.92	2,310.82	2,281.22	29.60	78.068	
9,400.00	9,213.90	7,250.00	6,886.62	33.70	27.25	-0.01	-745.72	474.20	2,343.66	2,314.01	29.65	79.032	
9,500.00	9,242.82	7,250.00	6,886.62	34.07	27.25	-0.01	-745.72	474.20	2,362.80	2,333.46	29.34	80.536	
9,600.00	9,254.70	7,274.53	6,888.33	34.66	27.44	-0.03	-748.15	498.55	2,368.15	2,338.84	29.31	80.786	
9,700.00	9,255.00	7,302.25	6,889.00	35.41	27.67	0.00	-750.91	526.12	2,365.38	2,335.96	29.42	80.408	
9,742.32	9,255.00	7,302.27	6,889.00	35.78	27.67	0.00	-750.91	526.14	2,365.00	2,335.54	29.46	80.285	
9,800.00	9,255.00	7,359.95	6,889.00	36.29	28.19	0.00	-756.06	583.59	2,365.00	2,335.21	29.79	79.399	
9,900.00	9,255.00	7,459.96	6,889.00	37.28	29.24	0.00	-762.24	683.40	2,365.00	2,334.59	30.41	77.768	
10,000.00	9,255.00	7,559.96	6,889.00	38.38	30.42	0.00	-764.94	783.36	2,365.00	2,333.90	31.10	76.041	

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

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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		
10,100.00	9,255.00	7,659.96	6,889.00	39.57	31.73	0.00	-765.13	883.36	2,365.00	2,333.14	31.86	74.235			
10,200.00	9,255.00	7,759.96	6,889.00	40.86	33.15	0.00	-765.22	983.36	2,365.00	2,332.33	32.67	72.386			
10,300.00	9,255.00	7,859.96	6,889.00	42.24	34.67	0.00	-765.30	1,083.36	2,365.00	2,331.46	33.54	70.515			
10,400.00	9,255.00	7,959.96	6,889.00	43.69	36.28	0.00	-765.39	1,183.36	2,365.00	2,330.54	34.46	68.639			
10,500.00	9,255.00	8,059.96	6,889.00	45.22	37.96	0.00	-765.47	1,283.36	2,365.00	2,329.58	35.42	66.775			
10,600.00	9,255.00	8,159.96	6,889.00	46.81	39.71	0.00	-765.56	1,383.36	2,365.00	2,328.58	36.42	64.935			
10,700.00	9,255.00	8,259.96	6,889.00	48.45	41.51	0.00	-765.64	1,483.36	2,365.00	2,327.54	37.46	63.129			
10,800.00	9,255.00	8,359.96	6,889.00	50.15	43.36	0.00	-765.72	1,583.36	2,365.00	2,326.46	38.54	61.365			
10,900.00	9,255.00	8,459.96	6,889.00	51.90	45.25	0.00	-765.81	1,683.36	2,365.00	2,325.35	39.65	59.648			
11,000.00	9,255.00	8,559.96	6,889.00	53.69	47.18	0.00	-765.89	1,783.36	2,365.00	2,324.21	40.79	57.982			
11,100.00	9,255.00	8,659.96	6,889.00	55.52	49.15	0.00	-765.98	1,883.36	2,365.00	2,323.05	41.95	56.371			
11,200.00	9,255.00	8,759.96	6,889.00	57.38	51.14	0.00	-766.06	1,983.36	2,365.00	2,321.85	43.15	54.814			
11,300.00	9,255.00	8,859.96	6,889.00	59.28	53.16	0.00	-766.15	2,083.36	2,365.00	2,320.64	44.36	53.314			
11,400.00	9,255.00	8,959.96	6,889.00	61.20	55.20	0.00	-766.23	2,183.36	2,365.00	2,319.40	45.60	51.869			
11,500.00	9,255.00	9,059.96	6,889.00	63.15	57.26	0.00	-766.32	2,283.36	2,365.00	2,318.15	46.85	50.480			
11,600.00	9,255.00	9,159.96	6,889.00	65.12	59.34	0.00	-766.40	2,383.36	2,365.00	2,316.88	48.12	49.145			
11,700.00	9,255.00	9,259.96	6,889.00	67.11	61.43	0.00	-766.49	2,483.36	2,365.00	2,315.59	49.41	47.862			
11,800.00	9,255.00	9,359.96	6,889.00	69.12	63.54	0.00	-766.57	2,583.36	2,365.00	2,314.28	50.72	46.630			
11,900.00	9,255.00	9,459.96	6,889.00	71.15	65.67	0.00	-766.65	2,683.36	2,365.00	2,312.96	52.04	45.448			
12,000.00	9,255.00	9,559.96	6,889.00	73.20	67.80	0.00	-766.74	2,783.36	2,365.00	2,311.63	53.37	44.313			
12,100.00	9,255.00	9,659.96	6,889.00	75.26	69.95	0.00	-766.82	2,883.36	2,365.00	2,310.29	54.71	43.224			
12,200.00	9,255.00	9,759.96	6,889.00	77.34	72.11	0.00	-766.91	2,983.36	2,365.00	2,308.93	56.07	42.178			
12,300.00	9,255.00	9,859.96	6,889.00	79.43	74.28	0.00	-766.99	3,083.36	2,365.00	2,307.56	57.44	41.175			
12,400.00	9,255.00	9,959.96	6,889.00	81.53	76.45	0.00	-767.08	3,183.36	2,365.00	2,306.18	58.82	40.211			
12,500.00	9,255.00	10,059.96	6,889.00	83.64	78.63	0.00	-767.16	3,283.36	2,365.00	2,304.80	60.20	39.285			
12,600.00	9,255.00	10,159.96	6,889.00	85.76	80.82	0.00	-767.25	3,383.36	2,365.00	2,303.40	61.60	38.395			
12,700.00	9,255.00	10,259.96	6,889.00	87.90	83.02	0.00	-767.33	3,483.36	2,365.00	2,302.00	63.00	37.540			
12,800.00	9,255.00	10,359.96	6,889.00	90.04	85.22	0.00	-767.41	3,583.36	2,365.00	2,300.59	64.41	36.718			
12,900.00	9,255.00	10,459.96	6,889.00	92.18	87.43	0.00	-767.50	3,683.36	2,365.00	2,299.17	65.83	35.928			
13,000.00	9,255.00	10,559.96	6,889.00	94.34	89.64	0.00	-767.58	3,783.36	2,365.00	2,297.75	67.25	35.167			
13,100.00	9,255.00	10,659.96	6,889.00	96.50	91.86	0.00	-767.67	3,883.36	2,365.00	2,296.32	68.68	34.434			
13,200.00	9,255.00	10,759.96	6,889.00	98.67	94.08	0.00	-767.75	3,983.36	2,365.00	2,294.88	70.12	33.729			
13,300.00	9,255.00	10,859.96	6,889.00	100.85	96.30	0.00	-767.84	4,083.36	2,365.00	2,293.44	71.56	33.049			
13,400.00	9,255.00	10,959.96	6,889.00	103.03	98.53	0.00	-767.92	4,183.36	2,365.00	2,291.99	73.01	32.394			
13,500.00	9,255.00	11,059.96	6,889.00	105.22	100.77	0.00	-768.01	4,283.36	2,365.00	2,290.54	74.46	31.763			
13,600.00	9,255.00	11,159.96	6,889.00	107.41	103.00	0.00	-768.09	4,383.36	2,365.00	2,289.09	75.91	31.153			
13,700.00	9,255.00	11,259.96	6,889.00	109.60	105.24	0.00	-768.17	4,483.36	2,365.00	2,287.62	77.38	30.565			
13,800.00	9,255.00	11,359.96	6,889.00	111.81	107.48	0.00	-768.26	4,583.36	2,365.00	2,286.16	78.84	29.997			
13,900.00	9,255.00	11,459.96	6,889.00	114.01	109.73	0.00	-768.34	4,683.36	2,365.00	2,284.69	80.31	29.449			
14,000.00	9,255.00	11,559.96	6,889.00	116.22	111.98	0.00	-768.43	4,783.36	2,365.00	2,283.22	81.78	28.918			
14,100.00	9,255.00	11,659.96	6,889.00	118.43	114.23	0.00	-768.51	4,883.36	2,365.00	2,281.74	83.26	28.406			
14,200.00	9,255.00	11,759.96	6,889.00	120.65	116.48	0.00	-768.60	4,983.36	2,365.00	2,280.26	84.74	27.910			
14,300.00	9,255.00	11,859.96	6,889.00	122.87	118.73	0.00	-768.68	5,083.36	2,365.00	2,278.78	86.22	27.430			
14,400.00	9,255.00	11,959.96	6,889.00	125.09	120.99	0.00	-768.77	5,183.36	2,365.00	2,277.29	87.71	26.965			
14,500.00	9,255.00	12,059.96	6,889.00	127.32	123.25	0.00	-768.85	5,283.36	2,365.00	2,275.81	89.19	26.515			
14,600.00	9,255.00	12,159.96	6,889.00	129.55	125.51	0.00	-768.94	5,383.36	2,365.00	2,274.32	90.68	26.079			
14,700.00	9,255.00	12,259.96	6,889.00	131.78	127.77	0.00	-769.02	5,483.36	2,365.00	2,272.82	92.18	25.657			
14,800.00	9,255.00	12,359.96	6,889.00	134.02	130.04	0.00	-769.10	5,583.36	2,365.00	2,271.33	93.67	25.247			
14,900.00	9,255.00	12,459.96	6,889.00	136.25	132.30	0.00	-769.19	5,683.36	2,365.00	2,269.83	95.17	24.850			
15,000.00	9,255.00	12,559.96	6,889.00	138.49	134.57	0.00	-769.27	5,783.36	2,365.00	2,268.33	96.67	24.464			
15,100.00	9,255.00	12,659.96	6,889.00	140.74	136.84	0.00	-769.36	5,883.36	2,365.00	2,266.82	98.18	24.089			
15,200.00	9,255.00	12,759.96	6,889.00	142.98	139.11	0.00	-769.44	5,983.36	2,365.00	2,265.32	99.68	23.726			

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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		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
15,300.00	9,255.00	12,859.96	6,889.00	145.23	141.38	0.00	-769.53	6,083.36	2,365.00	2,263.81	101.19	23.372	
15,400.00	9,255.00	12,959.96	6,889.00	147.47	143.65	0.00	-769.61	6,183.36	2,365.00	2,262.30	102.70	23.029	
15,500.00	9,255.00	13,059.96	6,889.00	149.72	145.92	0.00	-769.70	6,283.36	2,365.00	2,260.79	104.21	22.695	
15,600.00	9,255.00	13,159.96	6,889.00	151.97	148.20	0.00	-769.78	6,383.36	2,365.00	2,259.28	105.72	22.371	
15,700.00	9,255.00	13,259.96	6,889.00	154.23	150.47	0.00	-769.86	6,483.36	2,365.00	2,257.77	107.23	22.055	
15,800.00	9,255.00	13,359.96	6,889.00	156.48	152.75	0.00	-769.95	6,583.36	2,365.00	2,256.25	108.75	21.748	
15,900.00	9,255.00	13,459.96	6,889.00	158.74	155.03	0.00	-770.03	6,683.36	2,365.00	2,254.74	110.26	21.448	
16,000.00	9,255.00	13,559.96	6,889.00	161.00	157.30	0.00	-770.12	6,783.36	2,365.00	2,253.22	111.78	21.157	
16,100.00	9,255.00	13,659.96	6,889.00	163.26	159.58	0.00	-770.20	6,883.36	2,365.00	2,251.70	113.30	20.873	
16,200.00	9,255.00	13,759.96	6,889.00	165.52	161.86	0.00	-770.29	6,983.36	2,365.00	2,250.18	114.82	20.597	
16,300.00	9,255.00	13,859.96	6,889.00	167.78	164.14	0.00	-770.37	7,083.36	2,365.00	2,248.65	116.35	20.327	
16,400.00	9,255.00	13,959.96	6,889.00	170.04	166.43	0.00	-770.46	7,183.36	2,365.00	2,247.13	117.87	20.065	
16,500.00	9,255.00	14,059.96	6,889.00	172.31	168.71	0.00	-770.54	7,283.36	2,365.00	2,245.61	119.39	19.808	
16,600.00	9,255.00	14,159.96	6,889.00	174.57	170.99	0.00	-770.63	7,383.36	2,365.00	2,244.08	120.92	19.558	
16,700.00	9,255.00	14,259.96	6,889.00	176.84	173.27	0.00	-770.71	7,483.36	2,365.00	2,242.55	122.45	19.314	
16,800.00	9,255.00	14,359.96	6,889.00	179.11	175.56	0.00	-770.79	7,583.36	2,365.00	2,241.02	123.98	19.076	
16,900.00	9,255.00	14,459.96	6,889.00	181.37	177.84	0.00	-770.88	7,683.36	2,365.00	2,239.50	125.50	18.844	
17,000.00	9,255.00	14,559.96	6,889.00	183.64	180.13	0.00	-770.96	7,783.36	2,365.00	2,237.97	127.03	18.617	
17,100.00	9,255.00	14,659.96	6,889.00	185.91	182.41	0.00	-771.05	7,883.36	2,365.00	2,236.43	128.57	18.395	
17,200.00	9,255.00	14,759.96	6,889.00	188.19	184.70	0.00	-771.13	7,983.36	2,365.00	2,234.90	130.10	18.179	
17,300.00	9,255.00	14,859.96	6,889.00	190.46	186.99	0.00	-771.22	8,083.36	2,365.00	2,233.37	131.63	17.967	
17,400.00	9,255.00	14,959.96	6,889.00	192.73	189.28	0.00	-771.30	8,183.36	2,365.00	2,231.84	133.16	17.760	
17,500.00	9,255.00	15,059.96	6,889.00	195.01	191.56	0.00	-771.39	8,283.36	2,365.00	2,230.30	134.70	17.558	
17,600.00	9,255.00	15,159.96	6,889.00	197.28	193.85	0.00	-771.47	8,383.36	2,365.00	2,228.77	136.23	17.360	
17,700.00	9,255.00	15,259.96	6,889.00	199.56	196.14	0.00	-771.55	8,483.36	2,365.00	2,227.23	137.77	17.166	
17,800.00	9,255.00	15,359.96	6,889.00	201.83	198.43	0.00	-771.64	8,583.36	2,365.00	2,225.69	139.31	16.977	
17,900.00	9,255.00	15,459.96	6,889.00	204.11	200.72	0.00	-771.72	8,683.36	2,365.00	2,224.16	140.84	16.792	
18,000.00	9,255.00	15,559.96	6,889.00	206.39	203.01	0.00	-771.81	8,783.36	2,365.00	2,222.62	142.38	16.610	
18,100.00	9,255.00	15,659.96	6,889.00	208.67	205.30	0.00	-771.89	8,883.36	2,365.00	2,221.08	143.92	16.433	
18,200.00	9,255.00	15,759.96	6,889.00	210.95	207.60	0.00	-771.98	8,983.36	2,365.00	2,219.54	145.46	16.259	
18,300.00	9,255.00	15,859.96	6,889.00	213.23	209.89	0.00	-772.06	9,083.36	2,365.00	2,218.00	147.00	16.088	
18,400.00	9,255.00	15,959.96	6,889.00	215.51	212.18	0.00	-772.15	9,183.36	2,365.00	2,216.46	148.54	15.922	
18,500.00	9,255.00	16,059.96	6,889.00	217.79	214.47	0.00	-772.23	9,283.36	2,365.00	2,214.92	150.08	15.758	
18,600.00	9,255.00	16,159.96	6,889.00	220.07	216.76	0.00	-772.32	9,383.36	2,365.00	2,213.38	151.62	15.598	
18,700.00	9,255.00	16,259.96	6,889.00	222.35	219.06	0.00	-772.40	9,483.36	2,365.00	2,211.83	153.17	15.441	
18,800.00	9,255.00	16,359.96	6,889.00	224.64	221.35	0.00	-772.48	9,583.36	2,365.00	2,210.29	154.71	15.287	
18,900.00	9,255.00	16,459.96	6,889.00	226.92	223.64	0.00	-772.57	9,683.36	2,365.00	2,208.75	156.25	15.136	
19,000.00	9,255.00	16,559.96	6,889.00	229.20	225.94	0.00	-772.65	9,783.36	2,365.00	2,207.20	157.80	14.988	
19,100.00	9,255.00	16,659.96	6,889.00	231.49	228.23	0.00	-772.74	9,883.36	2,365.00	2,205.66	159.34	14.842	
19,200.00	9,255.00	16,759.96	6,889.00	233.77	230.53	0.00	-772.82	9,983.36	2,365.00	2,204.11	160.89	14.700	
19,300.00	9,255.00	16,859.96	6,889.00	236.06	232.82	0.00	-772.91	10,083.36	2,365.00	2,202.57	162.43	14.560	
19,400.00	9,255.00	16,959.96	6,889.00	238.34	235.12	0.00	-772.99	10,183.36	2,365.00	2,201.02	163.98	14.423	
19,411.49	9,255.00	16,971.45	6,889.00	238.60	235.38	0.00	-773.00	10,194.85	2,365.00	2,200.85	164.15	14.407	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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 - #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 Tooface ('')	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.00	-1.00	0.00	0.00	135.00	-30.00	30.00	42.43				
100.00	100.00	101.00	99.00	0.13	0.13	135.00	-30.00	30.00	42.43	42.17	0.26	163.246	
200.00	200.00	201.00	199.00	0.49	0.49	135.00	-30.00	30.00	42.43	41.45	0.98	43.433	
300.00	300.00	301.00	299.00	0.85	0.85	135.00	-30.00	30.00	42.43	40.73	1.69	25.048	
400.00	400.00	401.00	399.00	1.20	1.21	135.00	-30.00	30.00	42.43	40.02	2.41	17.599	
500.00	500.00	501.00	499.00	1.56	1.57	135.00	-30.00	30.00	42.43	39.30	3.13	13.565	
600.00	600.00	601.00	599.00	1.92	1.92	135.00	-30.00	30.00	42.43	38.58	3.84	11.035	
700.00	700.00	701.00	699.00	2.28	2.28	135.00	-30.00	30.00	42.43	37.86	4.56	9.301	
800.00	800.00	801.00	799.00	2.64	2.64	135.00	-30.00	30.00	42.43	37.15	5.28	8.038	
900.00	900.00	901.00	899.00	3.00	3.00	135.00	-30.00	30.00	42.43	36.43	6.00	7.076	
1,000.00	1,000.00	999.00	999.00	3.35	3.35	135.00	-30.00	30.00	42.43	35.72	6.71	6.327	
1,100.00	1,099.98	1,100.45	1,100.43	3.70	3.71	-112.12	-28.87	28.65	41.32	33.91	7.41	5.577	
1,200.00	1,199.92	1,201.04	1,200.90	4.04	4.07	-116.66	-25.76	24.95	37.95	29.85	8.10	4.687	
1,300.00	1,299.86	1,300.92	1,300.65	4.38	4.42	-122.10	-22.40	20.94	34.43	25.64	8.79	3.917	
1,400.00	1,399.80	1,400.80	1,400.39	4.72	4.78	-128.71	-19.04	16.94	31.30	21.81	9.49	3.299	
1,500.00	1,499.74	1,500.68	1,500.13	5.07	5.14	-136.64	-15.68	12.93	28.67	18.48	10.19	2.814	
1,600.00	1,599.68	1,600.56	1,599.87	5.42	5.50	-145.95	-12.32	8.93	26.69	15.79	10.89	2.450	
1,700.00	1,699.61	1,700.44	1,699.62	5.77	5.86	-156.43	-8.96	4.92	25.51	13.91	11.60	2.199	
1,777.11	1,776.68	1,777.46	1,776.53	6.04	6.13	-164.96	-6.37	1.84	25.23	13.08	12.15	2.077 CC	
1,800.00	1,799.55	1,800.32	1,799.36	6.12	6.22	-167.51	-5.60	0.92	25.25	12.94	12.31	2.051	
1,900.00	1,899.49	1,900.20	1,899.10	6.48	6.58	-178.40	-2.24	-3.08	25.94	12.92	13.03	1.992 ES, SF	
2,000.00	1,999.43	2,000.08	1,998.84	6.83	6.94	171.61	1.12	-7.09	27.50	13.76	13.74	2.001	
2,100.00	2,099.37	2,100.04	2,098.59	7.19	7.30	162.92	4.48	-11.09	29.80	15.34	14.46	2.061	
2,200.00	2,199.31	2,200.16	2,198.33	7.54	7.66	155.61	7.84	-15.10	32.68	17.50	15.18	2.153	
2,300.00	2,299.25	2,300.29	2,298.07	7.90	8.02	149.57	11.20	-19.10	36.00	20.10	15.90	2.264	
2,400.00	2,399.19	2,400.41	2,397.81	8.25	8.39	144.59	14.56	-23.11	39.65	23.04	16.62	2.386	
2,500.00	2,499.13	2,499.47	2,497.56	8.61	8.75	140.47	17.92	-27.11	43.56	26.22	17.33	2.513	
2,600.00	2,599.03	2,597.65	2,595.53	8.97	9.10	171.42	22.82	-30.97	50.69	32.67	18.03	2.812	
2,700.00	2,698.77	2,694.63	2,692.10	9.32	9.46	179.61	30.95	-34.62	64.61	45.92	18.69	3.456	
2,800.00	2,798.24	2,807.50	2,789.39	9.67	9.87	-179.70	40.92	-38.21	83.88	64.44	19.45	4.314	
2,900.00	2,897.62	2,909.75	2,886.56	10.03	10.25	177.27	50.88	-41.80	104.44	84.28	20.16	5.181	
3,000.00	2,996.99	2,987.99	2,983.73	10.39	10.54	175.23	60.83	-45.38	125.19	104.41	20.78	6.023	
3,100.00	3,096.37	3,085.73	3,080.90	10.75	10.90	173.78	70.79	-48.97	146.05	124.56	21.48	6.798	
3,200.00	3,195.74	3,183.48	3,178.07	11.11	11.27	172.69	80.75	-52.56	166.97	144.79	22.18	7.527	
3,300.00	3,295.12	3,281.22	3,275.23	11.48	11.63	171.84	90.71	-56.15	187.94	165.05	22.89	8.212	
3,400.00	3,394.49	3,378.96	3,372.40	11.84	12.00	171.17	100.67	-59.73	208.94	185.35	23.59	8.857	
3,500.00	3,493.87	3,476.71	3,469.57	12.21	12.36	170.61	110.62	-63.32	229.96	205.67	24.30	9.465	
3,600.00	3,593.24	3,574.45	3,566.74	12.58	12.73	170.15	120.58	-66.91	251.00	226.00	25.00	10.040	
3,700.00	3,692.61	3,672.19	3,663.91	12.95	13.09	169.76	130.54	-70.50	272.05	246.35	25.71	10.583	
3,800.00	3,791.99	3,769.94	3,761.08	13.33	13.46	169.43	140.50	-74.08	293.12	266.70	26.42	11.096	
3,900.00	3,891.36	3,867.68	3,858.25	13.70	13.83	169.14	150.46	-77.67	314.19	287.06	27.12	11.583	
4,000.00	3,990.74	3,965.42	3,955.41	14.07	14.20	168.89	160.41	-81.26	335.27	307.43	27.83	12.046	
4,100.00	4,090.11	4,063.17	4,052.58	14.45	14.57	168.67	170.37	-84.85	356.35	327.81	28.54	12.485	
4,200.00	4,189.49	4,160.91	4,149.75	14.83	14.94	168.47	180.33	-88.43	377.44	348.19	29.25	12.902	
4,300.00	4,288.86	4,258.65	4,246.92	15.20	15.31	168.29	190.29	-92.02	398.53	368.57	29.96	13.300	
4,400.00	4,388.24	4,356.40	4,344.09	15.58	15.67	168.13	200.24	-95.61	419.63	388.95	30.68	13.679	
4,500.00	4,487.61	4,454.14	4,441.26	15.96	16.05	167.99	210.20	-99.20	440.72	409.34	31.39	14.041	
4,600.00	4,586.98	4,551.88	4,538.43	16.34	16.42	167.86	220.16	-102.78	461.83	429.72	32.10	14.386	
4,700.00	4,686.36	4,649.63	4,635.59	16.72	16.79	167.74	230.12	-106.37	482.93	450.11	32.81	14.717	
4,800.00	4,785.73	4,747.37	4,732.76	17.10	17.16	167.63	240.08	-109.96	504.03	470.50	33.53	15.033	
4,900.00	4,885.11	4,845.11	4,829.93	17.48	17.53	167.53	250.03	-113.54	525.14	490.90	34.24	15.336	
5,000.00	4,984.48	4,942.86	4,927.10	17.86	17.90	167.44	259.99	-117.13	546.25	511.29	34.96	15.626	

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: #206H
Well Error: 0.00 usft
Reference Wellbore OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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 - #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		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	5,083.86	5,040.60	5,024.27	18.25	18.27	167.35	269.95	-120.72	567.35	531.68	35.67	15.905		
5,200.00	5,183.23	5,138.34	5,121.44	18.63	18.64	167.27	279.91	-124.31	588.46	552.08	36.39	16.173		
5,300.00	5,282.61	5,236.09	5,218.61	19.01	19.01	167.20	289.87	-127.89	609.58	572.47	37.10	16.430		
5,400.00	5,381.98	5,333.83	5,315.77	19.40	19.39	167.13	299.82	-131.48	630.69	592.87	37.82	16.677		
5,500.00	5,481.36	5,431.57	5,412.94	19.78	19.76	167.06	309.78	-135.07	651.80	613.27	38.53	16.915		
5,600.00	5,580.73	5,529.32	5,510.11	20.16	20.13	167.00	319.74	-138.66	672.91	633.66	39.25	17.144		
5,700.00	5,680.10	5,627.06	5,607.28	20.55	20.50	166.95	329.70	-142.24	694.03	654.06	39.97	17.365		
5,800.00	5,779.48	5,729.43	5,709.05	20.93	20.89	166.89	340.06	-145.98	715.09	674.37	40.72	17.560		
5,900.00	5,878.85	5,859.07	5,838.27	21.32	21.37	166.91	349.70	-149.45	733.46	691.80	41.66	17.605		
6,000.00	5,978.23	5,990.54	5,969.67	21.71	21.84	167.07	353.85	-150.95	747.53	704.99	42.54	17.573		
6,100.00	6,077.60	6,102.52	6,076.60	22.09	22.23	167.27	354.00	-151.00	758.53	715.24	43.30	17.519		
6,200.00	6,176.98	6,203.15	6,175.98	22.48	22.58	167.45	354.00	-151.00	769.43	725.42	44.01	17.482		
6,300.00	6,276.35	6,303.77	6,275.35	22.86	22.92	167.63	354.00	-151.00	780.34	735.61	44.73	17.445		
6,400.00	6,375.73	6,404.40	6,374.73	23.25	23.27	167.80	354.00	-151.00	791.26	745.81	45.45	17.410		
6,500.00	6,475.10	6,505.02	6,474.10	23.64	23.62	167.97	354.00	-151.00	802.18	756.01	46.16	17.376		
6,600.00	6,574.48	6,605.65	6,573.48	24.02	23.97	168.14	354.00	-151.00	813.11	766.22	46.88	17.343		
6,700.00	6,673.85	6,706.27	6,672.85	24.41	24.32	168.30	354.00	-151.00	824.04	776.44	47.60	17.312		
6,800.00	6,773.22	6,806.90	6,772.22	24.80	24.67	168.45	354.00	-151.00	834.98	786.66	48.32	17.281		
6,900.00	6,872.60	6,907.52	6,871.60	25.18	25.02	168.60	354.00	-151.00	845.93	796.89	49.04	17.251		
7,000.00	6,971.97	7,008.15	6,970.97	25.57	25.37	168.75	354.00	-151.00	856.88	807.12	49.76	17.222		
7,100.00	7,071.35	7,108.78	7,070.35	25.96	25.72	168.89	354.00	-151.00	867.84	817.36	50.47	17.194		
7,200.00	7,170.72	7,190.60	7,169.72	26.35	26.00	169.03	354.00	-151.00	878.80	827.67	51.13	17.189		
7,300.00	7,270.10	7,260.79	7,239.89	26.74	26.24	169.19	354.58	-150.11	890.82	839.12	51.70	17.230		
7,400.00	7,369.47	7,313.69	7,292.47	27.12	26.42	169.57	357.66	-145.37	907.57	855.47	52.10	17.420		
7,500.00	7,468.85	7,364.40	7,342.18	27.51	26.59	170.16	363.08	-137.02	929.37	877.01	52.37	17.747		
7,600.00	7,568.22	7,412.33	7,388.18	27.90	26.75	170.92	370.38	-125.78	956.27	903.77	52.50	18.215		
7,700.00	7,667.59	7,450.00	7,423.45	28.29	26.87	171.63	377.57	-114.70	988.31	935.92	52.40	18.863		
7,800.00	7,766.97	7,500.00	7,468.78	28.68	27.03	172.73	389.04	-97.04	1,025.31	972.95	52.36	19.581		
7,900.00	7,866.34	7,536.46	7,500.59	29.07	27.14	173.62	398.74	-82.11	1,067.29	1,015.23	52.06	20.501		
8,000.00	7,965.72	7,571.19	7,529.78	29.46	27.24	174.53	408.98	-66.34	1,114.03	1,062.36	51.67	21.562		
8,100.00	8,065.09	7,600.00	7,553.10	29.84	27.32	175.32	418.20	-52.14	1,165.28	1,114.15	51.13	22.789		
8,200.00	8,164.47	7,631.59	7,577.64	30.23	27.41	176.22	429.02	-35.48	1,220.74	1,170.11	50.63	24.111		
8,300.00	8,263.97	7,657.98	7,597.29	30.62	27.48	177.06	438.62	-20.70	1,279.11	1,229.09	50.02	25.572		
8,400.00	8,363.75	7,690.02	7,620.05	30.99	27.58	178.06	450.80	-1.72	1,338.39	1,288.91	49.49	27.045		
8,500.00	8,463.70	7,736.82	7,651.47	31.34	27.72	179.50	467.91	28.43	1,397.60	1,348.41	49.19	28.412		
8,600.00	8,563.70	7,778.31	7,677.43	31.66	27.87	180.33	482.04	57.52	1,457.18	1,408.42	48.76	29.883		
8,700.00	8,663.70	7,814.35	7,698.44	31.97	28.00	181.22	493.48	84.48	1,519.29	1,471.03	48.26	31.480		
8,800.00	8,763.42	7,850.00	7,717.71	32.29	28.16	182.09	503.96	112.57	1,583.53	1,535.75	47.78	33.144		
8,900.00	8,860.67	7,884.05	7,734.66	32.60	28.31	182.94	513.18	140.62	1,647.38	1,600.08	47.31	34.825		
9,000.00	8,952.49	7,922.15	7,751.84	32.88	28.50	183.79	522.53	173.30	1,708.57	1,661.63	46.94	36.396		
9,100.00	9,036.10	7,962.05	7,767.76	33.12	28.72	184.64	531.18	208.85	1,765.17	1,718.48	46.69	37.807		
9,200.00	9,108.94	8,000.00	7,780.85	33.32	28.94	185.49	538.29	243.75	1,815.57	1,769.04	46.53	39.022		
9,300.00	9,168.81	8,050.00	7,794.94	33.50	29.25	186.34	545.94	291.09	1,858.44	1,811.79	46.65	39.837		
9,400.00	9,213.90	8,100.00	7,805.36	33.70	29.59	187.19	551.58	339.65	1,892.81	1,845.85	46.96	40.311		
9,500.00	9,242.82	8,135.72	7,810.51	34.07	29.85	188.04	554.36	374.88	1,917.75	1,870.39	47.36	40.493		
9,600.00	9,254.70	8,181.68	7,814.28	34.66	30.20	188.89	556.38	420.63	1,932.87	1,884.78	48.09	40.192		
9,700.00	9,255.00	8,246.18	7,815.00	35.41	30.73	189.74	556.72	485.12	1,941.22	1,892.11	49.12	39.523		
9,800.00	9,255.00	8,345.72	7,815.00	36.29	31.65	190.59	556.64	584.65	1,947.69	1,897.22	50.48	38.586		
9,900.00	9,255.00	8,445.52	7,815.00	37.28	32.71	191.44	556.56	684.45	1,951.84	1,899.86	51.98	37.548		
10,000.00	9,255.00	8,545.48	7,815.00	38.38	33.88	192.29	556.48	784.41	1,953.63	1,900.02	53.61	36.439		
10,100.00	9,255.00	8,645.48	7,815.00	39.57	35.17	193.14	556.41	884.41	1,953.72	1,898.35	55.36	35.289		
10,200.00	9,255.00	8,745.48	7,815.00	40.86	36.56	194.00	556.33	984.41	1,953.72	1,896.47	57.25	34.124		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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 - #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			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	9,255.00	8,845.48	7,815.00	42.24	38.04	-42.56	556.25	1,084.41	1,953.72	1,894.45	59.27	32.962	
10,400.00	9,255.00	8,945.48	7,815.00	43.69	39.60	-42.56	556.17	1,184.41	1,953.73	1,892.32	61.40	31.817	
10,500.00	9,255.00	9,045.48	7,815.00	45.22	41.23	-42.56	556.09	1,284.41	1,953.73	1,890.09	63.64	30.700	
10,600.00	9,255.00	9,145.48	7,815.00	46.81	42.92	-42.56	556.01	1,384.41	1,953.73	1,887.77	65.97	29.616	
10,700.00	9,255.00	9,245.48	7,815.00	48.45	44.66	-42.56	555.93	1,484.41	1,953.74	1,885.36	68.38	28.571	
10,800.00	9,255.00	9,345.48	7,815.00	50.15	46.46	-42.56	555.85	1,584.41	1,953.74	1,882.87	70.87	27.568	
10,900.00	9,255.00	9,445.48	7,815.00	51.90	48.30	-42.56	555.77	1,684.41	1,953.75	1,880.32	73.42	26.609	
11,000.00	9,255.00	9,545.48	7,815.00	53.69	50.17	-42.56	555.69	1,784.41	1,953.75	1,877.71	76.04	25.694	
11,100.00	9,255.00	9,645.48	7,815.00	55.52	52.09	-42.56	555.61	1,884.41	1,953.75	1,875.04	78.71	24.822	
11,200.00	9,255.00	9,745.48	7,815.00	57.38	54.03	-42.56	555.53	1,984.41	1,953.76	1,872.33	81.43	23.993	
11,300.00	9,255.00	9,845.48	7,815.00	59.28	56.00	-42.56	555.45	2,084.41	1,953.76	1,869.57	84.19	23.206	
11,400.00	9,255.00	9,945.48	7,815.00	61.20	58.00	-42.56	555.37	2,184.41	1,953.77	1,866.77	87.00	22.458	
11,500.00	9,255.00	10,045.48	7,815.00	63.15	60.02	-42.56	555.29	2,284.41	1,953.77	1,863.93	89.84	21.748	
11,600.00	9,255.00	10,145.48	7,815.00	65.12	62.05	-42.56	555.21	2,384.41	1,953.77	1,861.06	92.71	21.074	
11,700.00	9,255.00	10,245.48	7,815.00	67.11	64.11	-42.56	555.13	2,484.41	1,953.78	1,858.16	95.62	20.434	
11,800.00	9,255.00	10,345.48	7,815.00	69.12	66.19	-42.56	555.05	2,584.41	1,953.78	1,855.23	98.55	19.826	
11,900.00	9,255.00	10,445.48	7,815.00	71.15	68.27	-42.56	554.97	2,684.41	1,953.78	1,852.28	101.50	19.248	
12,000.00	9,255.00	10,545.48	7,815.00	73.20	70.38	-42.56	554.89	2,784.41	1,953.79	1,849.31	104.48	18.700	
12,100.00	9,255.00	10,645.48	7,815.00	75.26	72.49	-42.56	554.81	2,884.41	1,953.79	1,846.31	107.48	18.178	
12,200.00	9,255.00	10,745.48	7,815.00	77.34	74.62	-42.56	554.73	2,984.41	1,953.80	1,843.29	110.50	17.681	
12,300.00	9,255.00	10,845.48	7,815.00	79.43	76.76	-42.56	554.65	3,084.41	1,953.80	1,840.26	113.54	17.208	
12,400.00	9,255.00	10,945.48	7,815.00	81.53	78.90	-42.57	554.57	3,184.41	1,953.80	1,837.21	116.59	16.757	
12,500.00	9,255.00	11,045.48	7,815.00	83.64	81.06	-42.57	554.50	3,284.41	1,953.81	1,834.14	119.66	16.328	
12,600.00	9,255.00	11,145.48	7,815.00	85.76	83.22	-42.57	554.42	3,384.41	1,953.81	1,831.06	122.75	15.917	
12,700.00	9,255.00	11,245.48	7,815.00	87.90	85.39	-42.57	554.34	3,484.41	1,953.82	1,827.97	125.84	15.526	
12,800.00	9,255.00	11,345.48	7,815.00	90.04	87.57	-42.57	554.26	3,584.41	1,953.82	1,824.87	128.95	15.152	
12,900.00	9,255.00	11,445.48	7,815.00	92.18	89.76	-42.57	554.18	3,684.41	1,953.82	1,821.75	132.07	14.794	
13,000.00	9,255.00	11,545.48	7,815.00	94.34	91.95	-42.57	554.10	3,784.41	1,953.83	1,818.63	135.20	14.451	
13,100.00	9,255.00	11,645.48	7,815.00	96.50	94.14	-42.57	554.02	3,884.41	1,953.83	1,815.49	138.34	14.123	
13,200.00	9,255.00	11,745.48	7,815.00	98.67	96.35	-42.57	553.94	3,984.41	1,953.83	1,812.35	141.49	13.809	
13,300.00	9,255.00	11,845.48	7,815.00	100.85	98.55	-42.57	553.86	4,084.41	1,953.84	1,809.19	144.65	13.508	
13,400.00	9,255.00	11,945.48	7,815.00	103.03	100.77	-42.57	553.78	4,184.41	1,953.84	1,806.03	147.81	13.219	
13,500.00	9,255.00	12,045.48	7,815.00	105.22	102.98	-42.57	553.70	4,284.41	1,953.85	1,802.86	150.98	12.941	
13,600.00	9,255.00	12,145.48	7,815.00	107.41	105.20	-42.57	553.62	4,384.41	1,953.85	1,799.69	154.16	12.674	
13,700.00	9,255.00	12,245.48	7,815.00	109.60	107.42	-42.57	553.54	4,484.41	1,953.85	1,796.50	157.35	12.417	
13,800.00	9,255.00	12,345.48	7,815.00	111.81	109.65	-42.57	553.46	4,584.41	1,953.86	1,793.32	160.54	12.170	
13,900.00	9,255.00	12,445.48	7,815.00	114.01	111.88	-42.57	553.38	4,684.41	1,953.86	1,790.12	163.74	11.933	
14,000.00	9,255.00	12,545.48	7,815.00	116.22	114.11	-42.57	553.30	4,784.41	1,953.86	1,786.92	166.94	11.704	
14,100.00	9,255.00	12,645.48	7,815.00	118.43	116.35	-42.57	553.22	4,884.41	1,953.87	1,783.72	170.15	11.483	
14,200.00	9,255.00	12,745.48	7,815.00	120.65	118.59	-42.57	553.14	4,984.41	1,953.87	1,780.51	173.37	11.270	
14,300.00	9,255.00	12,845.48	7,815.00	122.87	120.83	-42.57	553.06	5,084.41	1,953.88	1,777.29	176.58	11.065	
14,400.00	9,255.00	12,945.48	7,815.00	125.09	123.08	-42.57	552.98	5,184.41	1,953.88	1,774.07	179.81	10.867	
14,500.00	9,255.00	13,045.48	7,815.00	127.32	125.32	-42.57	552.90	5,284.41	1,953.88	1,770.85	183.03	10.675	
14,600.00	9,255.00	13,145.48	7,815.00	129.55	127.57	-42.57	552.82	5,384.41	1,953.89	1,767.62	186.26	10.490	
14,700.00	9,255.00	13,245.48	7,815.00	131.78	129.82	-42.57	552.74	5,484.41	1,953.89	1,764.39	189.50	10.311	
14,800.00	9,255.00	13,345.48	7,815.00	134.02	132.08	-42.57	552.67	5,584.41	1,953.90	1,761.16	192.74	10.138	
14,900.00	9,255.00	13,445.48	7,815.00	136.25	134.33	-42.57	552.59	5,684.41	1,953.90	1,757.92	195.98	9.970	
15,000.00	9,255.00	13,545.48	7,815.00	138.49	136.59	-42.57	552.51	5,784.41	1,953.90	1,754.68	199.22	9.808	
15,100.00	9,255.00	13,645.48	7,815.00	140.74	138.84	-42.57	552.43	5,884.41	1,953.91	1,751.44	202.47	9.650	
15,200.00	9,255.00	13,745.48	7,815.00	142.98	141.10	-42.57	552.35	5,984.41	1,953.91	1,748.19	205.72	9.498	
15,300.00	9,255.00	13,845.48	7,815.00	145.23	143.37	-42.57	552.27	6,084.41	1,953.91	1,744.94	208.97	9.350	
15,400.00	9,255.00	13,945.48	7,815.00	147.47	145.63	-42.57	552.19	6,184.41	1,953.92	1,741.69	212.23	9.207	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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 - #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		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)						
15,500.00	9,255.00	14,045.48	7,815.00	149.72	147.89	-42.57	552.11	6,284.41	1,953.92	1,738.43	215.49	9.067		
15,600.00	9,255.00	14,145.48	7,815.00	151.97	150.16	-42.57	552.03	6,384.41	1,953.93	1,735.18	218.75	8.932		
15,700.00	9,255.00	14,245.48	7,815.00	154.23	152.43	-42.57	551.95	6,484.41	1,953.93	1,731.92	222.01	8.801		
15,800.00	9,255.00	14,345.48	7,815.00	156.48	154.69	-42.57	551.87	6,584.41	1,953.93	1,728.66	225.28	8.673		
15,900.00	9,255.00	14,445.48	7,815.00	158.74	156.96	-42.57	551.79	6,684.41	1,953.94	1,725.39	228.54	8.549		
16,000.00	9,255.00	14,545.48	7,815.00	161.00	159.23	-42.57	551.71	6,784.41	1,953.94	1,722.13	231.81	8.429		
16,100.00	9,255.00	14,645.48	7,815.00	163.26	161.51	-42.57	551.63	6,884.41	1,953.95	1,718.86	235.08	8.312		
16,200.00	9,255.00	14,745.48	7,815.00	165.52	163.78	-42.57	551.55	6,984.41	1,953.95	1,715.59	238.36	8.198		
16,300.00	9,255.00	14,845.48	7,815.00	167.78	166.05	-42.57	551.47	7,084.41	1,953.95	1,712.32	241.63	8.086		
16,400.00	9,255.00	14,945.48	7,815.00	170.04	168.33	-42.57	551.39	7,184.41	1,953.96	1,709.05	244.91	7.978		
16,500.00	9,255.00	15,045.48	7,815.00	172.31	170.60	-42.57	551.31	7,284.41	1,953.96	1,705.77	248.19	7.873		
16,600.00	9,255.00	15,145.48	7,815.00	174.57	172.88	-42.57	551.23	7,384.41	1,953.96	1,702.50	251.47	7.770		
16,700.00	9,255.00	15,245.48	7,815.00	176.84	175.16	-42.57	551.15	7,484.41	1,953.97	1,699.22	254.75	7.670		
16,800.00	9,255.00	15,345.48	7,815.00	179.11	177.43	-42.57	551.07	7,584.41	1,953.97	1,695.94	258.03	7.573		
16,900.00	9,255.00	15,445.48	7,815.00	181.37	179.71	-42.57	550.99	7,684.41	1,953.98	1,692.66	261.32	7.477		
17,000.00	9,255.00	15,545.48	7,815.00	183.64	181.99	-42.57	550.91	7,784.41	1,953.98	1,689.38	264.60	7.385		
17,100.00	9,255.00	15,645.48	7,815.00	185.91	184.27	-42.57	550.84	7,884.41	1,953.98	1,686.09	267.89	7.294		
17,200.00	9,255.00	15,745.48	7,815.00	188.19	186.55	-42.57	550.76	7,984.41	1,953.99	1,682.81	271.18	7.206		
17,300.00	9,255.00	15,845.48	7,815.00	190.46	188.84	-42.57	550.68	8,084.41	1,953.99	1,679.52	274.47	7.119		
17,400.00	9,255.00	15,945.48	7,815.00	192.73	191.12	-42.57	550.60	8,184.41	1,954.00	1,676.24	277.76	7.035		
17,500.00	9,255.00	16,045.48	7,815.00	195.01	193.40	-42.57	550.52	8,284.41	1,954.00	1,672.95	281.05	6.952		
17,600.00	9,255.00	16,145.48	7,815.00	197.28	195.69	-42.57	550.44	8,384.41	1,954.00	1,669.66	284.34	6.872		
17,700.00	9,255.00	16,245.48	7,815.00	199.56	197.97	-42.57	550.36	8,484.41	1,954.01	1,666.37	287.64	6.793		
17,800.00	9,255.00	16,345.48	7,815.00	201.83	200.25	-42.57	550.28	8,584.41	1,954.01	1,663.08	290.93	6.716		
17,900.00	9,255.00	16,445.48	7,815.00	204.11	202.54	-42.57	550.20	8,684.41	1,954.01	1,659.79	294.23	6.641		
18,000.00	9,255.00	16,545.48	7,815.00	206.39	204.83	-42.57	550.12	8,784.41	1,954.02	1,656.49	297.52	6.568		
18,100.00	9,255.00	16,645.48	7,815.00	208.67	207.11	-42.57	550.04	8,884.41	1,954.02	1,653.20	300.82	6.496		
18,200.00	9,255.00	16,745.48	7,815.00	210.95	209.40	-42.57	549.96	8,984.41	1,954.03	1,649.90	304.12	6.425		
18,300.00	9,255.00	16,845.48	7,815.00	213.23	211.69	-42.57	549.88	9,084.41	1,954.03	1,646.61	307.42	6.356		
18,400.00	9,255.00	16,945.48	7,815.00	215.51	213.97	-42.57	549.80	9,184.41	1,954.03	1,643.31	310.72	6.289		
18,500.00	9,255.00	17,045.48	7,815.00	217.79	216.26	-42.57	549.72	9,284.41	1,954.04	1,640.01	314.02	6.223		
18,600.00	9,255.00	17,145.48	7,815.00	220.07	218.55	-42.57	549.64	9,384.41	1,954.04	1,636.72	317.32	6.158		
18,700.00	9,255.00	17,245.48	7,815.00	222.35	220.84	-42.57	549.56	9,484.41	1,954.04	1,633.42	320.63	6.094		
18,800.00	9,255.00	17,345.48	7,815.00	224.64	223.13	-42.57	549.48	9,584.41	1,954.05	1,630.12	323.93	6.032		
18,900.00	9,255.00	17,445.48	7,815.00	226.92	225.42	-42.57	549.40	9,684.41	1,954.05	1,626.82	327.23	5.971		
19,000.00	9,255.00	17,545.48	7,815.00	229.20	227.71	-42.57	549.32	9,784.41	1,954.06	1,623.52	330.54	5.912		
19,100.00	9,255.00	17,645.48	7,815.00	231.49	230.00	-42.57	549.24	9,884.41	1,954.06	1,620.21	333.85	5.853		
19,200.00	9,255.00	17,745.48	7,815.00	233.77	232.29	-42.57	549.16	9,984.41	1,954.06	1,616.91	337.15	5.796		
19,300.00	9,255.00	17,845.48	7,815.00	236.06	234.58	-42.57	549.08	10,084.41	1,954.07	1,613.61	340.46	5.740		
19,400.00	9,255.00	17,945.48	7,815.00	238.34	236.87	-42.57	549.01	10,184.41	1,954.07	1,610.31	343.77	5.684		
19,411.49	9,255.00	17,956.97	7,815.00	238.60	237.14	-42.57	549.00	10,195.90	1,954.07	1,609.93	344.14	5.678		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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 Tooface (")	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	180.00	-30.00	0.00	30.00				
100.00	100.00	101.00	99.00	0.13	0.13	180.00	-30.00	0.00	30.00	29.74	0.26	115.432	
200.00	200.00	201.00	199.00	0.49	0.49	180.00	-30.00	0.00	30.00	29.02	0.98	30.711	
300.00	300.00	301.00	299.00	0.85	0.85	180.00	-30.00	0.00	30.00	28.31	1.69	17.712	
400.00	400.00	401.00	399.00	1.20	1.21	180.00	-30.00	0.00	30.00	27.59	2.41	12.444	
500.00	500.00	501.00	499.00	1.56	1.57	180.00	-30.00	0.00	30.00	26.87	3.13	9.592	
600.00	600.00	601.00	599.00	1.92	1.92	180.00	-30.00	0.00	30.00	26.16	3.84	7.803	
700.00	700.00	701.00	699.00	2.28	2.28	180.00	-30.00	0.00	30.00	25.44	4.56	6.577	
800.00	800.00	801.00	799.00	2.64	2.64	180.00	-30.00	0.00	30.00	24.72	5.28	5.683	
900.00	900.00	901.00	899.00	3.00	3.00	180.00	-30.00	0.00	30.00	24.00	6.00	5.004	
1,000.00	1,000.00	999.00	999.00	3.35	3.35	180.00	-30.00	0.00	30.00	23.29	6.71	4.474 CC, ES	
1,100.00	1,099.98	1,097.97	1,097.95	3.70	3.69	-67.29	-31.64	-0.32	30.95	23.56	7.39	4.190 SF	
1,200.00	1,199.92	1,196.79	1,196.64	4.04	4.01	-70.62	-36.63	-1.29	34.67	26.63	8.04	4.312	
1,300.00	1,299.86	1,295.29	1,294.77	4.38	4.34	-71.75	-44.93	-2.90	41.74	33.05	8.69	4.802	
1,400.00	1,399.80	1,393.23	1,392.00	4.72	4.68	-71.36	-56.45	-5.14	52.08	42.73	9.34	5.574	
1,500.00	1,499.74	1,508.07	1,489.66	5.07	5.08	-70.44	-70.49	-7.87	64.80	54.73	10.07	6.435	
1,600.00	1,599.68	1,608.90	1,587.76	5.42	5.45	-69.79	-84.71	-10.63	77.67	66.90	10.77	7.214	
1,700.00	1,699.61	1,690.27	1,685.86	5.77	5.75	-69.33	-98.93	-13.39	90.54	79.14	11.40	7.943	
1,800.00	1,799.55	1,789.43	1,783.96	6.12	6.12	-68.98	-113.16	-16.16	103.41	91.31	12.10	8.548	
1,900.00	1,899.49	1,888.60	1,882.07	6.48	6.50	-68.71	-127.38	-18.92	116.28	103.49	12.80	9.085	
2,000.00	1,999.43	1,987.76	1,980.17	6.83	6.88	-68.50	-141.60	-21.69	129.16	115.66	13.51	9.564	
2,100.00	2,099.37	2,086.93	2,078.27	7.19	7.27	-68.32	-155.83	-24.45	142.04	127.83	14.21	9.994	
2,200.00	2,199.31	2,186.10	2,176.37	7.54	7.65	-68.17	-170.05	-27.21	154.92	140.00	14.92	10.381	
2,300.00	2,299.25	2,285.26	2,274.47	7.90	8.04	-68.05	-184.27	-29.98	167.81	152.17	15.64	10.732	
2,400.00	2,399.19	2,384.43	2,372.58	8.25	8.43	-67.94	-198.50	-32.74	180.69	164.34	16.35	11.052	
2,500.00	2,499.13	2,483.60	2,470.68	8.61	8.83	-67.85	-212.72	-35.51	193.57	176.51	17.06	11.343	
2,600.00	2,599.03	2,582.96	2,568.98	8.97	9.22	-31.96	-226.97	-38.27	204.76	186.98	17.78	11.517	
2,700.00	2,698.77	2,682.66	2,667.60	9.32	9.62	-18.09	-241.27	-41.05	212.48	193.99	18.49	11.491	
2,800.00	2,798.24	2,782.55	2,766.43	9.67	10.02	-12.67	-255.60	-43.84	216.83	197.62	19.20	11.291	
2,900.00	2,897.62	2,882.49	2,865.29	10.03	10.42	-12.42	-269.94	-46.62	220.17	200.25	19.92	11.053	
3,000.00	2,996.99	2,982.43	2,964.16	10.39	10.82	-12.18	-284.27	-49.41	223.52	202.89	20.64	10.831	
3,100.00	3,096.37	3,082.37	3,063.03	10.75	11.23	-11.95	-298.60	-52.19	226.88	205.52	21.36	10.624	
3,200.00	3,195.74	3,182.31	3,161.90	11.11	11.63	-11.72	-312.94	-54.98	230.23	208.16	22.08	10.429	
3,300.00	3,295.12	3,282.25	3,260.76	11.48	12.04	-11.50	-327.27	-57.76	233.60	210.80	22.80	10.246	
3,400.00	3,394.49	3,382.19	3,359.63	11.84	12.44	-11.29	-341.61	-60.55	236.96	213.44	23.52	10.075	
3,500.00	3,493.87	3,482.13	3,458.50	12.21	12.85	-11.08	-355.94	-63.33	240.33	216.08	24.24	9.913	
3,600.00	3,593.24	3,582.07	3,557.36	12.58	13.25	-10.88	-370.28	-66.12	243.70	218.73	24.97	9.760	
3,700.00	3,692.61	3,682.01	3,656.23	12.95	13.66	-10.68	-384.61	-68.91	247.07	221.38	25.69	9.616	
3,800.00	3,791.99	3,781.95	3,755.10	13.33	14.07	-10.49	-398.95	-71.69	250.45	224.03	26.42	9.480	
3,900.00	3,891.36	3,881.89	3,853.96	13.70	14.48	-10.30	-413.28	-74.48	253.83	226.68	27.15	9.350	
4,000.00	3,990.74	3,981.83	3,952.83	14.07	14.88	-10.12	-427.61	-77.26	257.21	229.33	27.87	9.227	
4,100.00	4,090.11	4,081.77	4,051.70	14.45	15.29	-9.94	-441.95	-80.05	260.59	231.99	28.60	9.111	
4,200.00	4,189.49	4,181.71	4,150.57	14.83	15.70	-9.77	-456.28	-82.83	263.98	234.65	29.33	9.000	
4,300.00	4,288.86	4,281.65	4,249.43	15.20	16.11	-9.60	-470.62	-85.62	267.37	237.31	30.06	8.895	
4,400.00	4,388.24	4,381.59	4,348.30	15.58	16.52	-9.44	-484.95	-88.40	270.76	239.97	30.79	8.794	
4,500.00	4,487.61	4,481.53	4,447.17	15.96	16.93	-9.28	-499.29	-91.19	274.15	242.63	31.52	8.698	
4,600.00	4,586.98	4,581.47	4,546.03	16.34	17.34	-9.13	-513.62	-93.97	277.55	245.30	32.25	8.606	
4,700.00	4,686.36	4,681.41	4,644.90	16.72	17.75	-8.97	-527.96	-96.76	280.95	247.96	32.98	8.518	
4,800.00	4,785.73	4,781.34	4,743.77	17.10	18.16	-8.83	-542.29	-99.54	284.34	250.63	33.71	8.435	
4,900.00	4,885.11	4,881.28	4,842.63	17.48	18.57	-8.68	-556.62	-102.33	287.75	253.30	34.44	8.354	
5,000.00	4,984.48	4,981.22	4,941.50	17.86	18.98	-8.54	-570.96	-105.12	291.15	255.97	35.18	8.277	
5,100.00	5,083.86	5,081.16	5,040.37	18.25	19.39	-8.40	-585.29	-107.90	294.55	258.65	35.91	8.203	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)					
5,200.00	5,183.23	5,181.10	5,139.23	18.63	19.80	-8.27	-599.63	-110.69	297.96	261.32	36.64	8.132	
5,300.00	5,282.61	5,281.04	5,238.10	19.01	20.21	-8.13	-613.96	-113.47	301.37	264.00	37.37	8.064	
5,400.00	5,381.98	5,380.98	5,336.97	19.40	20.62	-8.01	-628.30	-116.26	304.78	266.67	38.11	7.998	
5,500.00	5,481.36	5,480.92	5,435.84	19.78	21.03	-7.88	-642.63	-119.04	308.19	269.35	38.84	7.935	
5,600.00	5,580.73	5,580.86	5,534.70	20.16	21.44	-7.76	-656.97	-121.83	311.60	272.03	39.57	7.874	
5,700.00	5,680.10	5,680.80	5,633.57	20.55	21.85	-7.64	-671.30	-124.61	315.01	274.71	40.31	7.816	
5,800.00	5,779.48	5,780.74	5,732.44	20.93	22.27	-7.52	-685.64	-127.40	318.43	277.39	41.04	7.759	
5,900.00	5,878.85	5,880.68	5,831.30	21.32	22.68	-7.40	-699.97	-130.18	321.85	280.07	41.77	7.705	
6,000.00	5,978.23	5,980.62	5,930.17	21.71	23.09	-7.29	-714.30	-132.97	325.26	282.76	42.51	7.652	
6,100.00	6,077.60	6,080.56	6,029.04	22.09	23.50	-7.18	-728.64	-135.75	328.68	285.44	43.24	7.601	
6,200.00	6,176.98	6,180.50	6,127.90	22.48	23.91	-7.07	-742.97	-138.54	332.10	288.13	43.98	7.552	
6,300.00	6,276.35	6,280.44	6,226.77	22.86	24.32	-6.96	-757.31	-141.33	335.53	290.81	44.71	7.504	
6,400.00	6,375.73	6,380.38	6,325.64	23.25	24.74	-6.86	-771.64	-144.11	338.95	293.50	45.44	7.458	
6,500.00	6,475.10	6,480.32	6,424.51	23.64	25.15	-6.76	-785.98	-146.90	342.37	296.19	46.18	7.414	
6,600.00	6,574.48	6,580.26	6,523.37	24.02	25.56	-6.66	-800.31	-149.68	345.80	298.88	46.91	7.371	
6,700.00	6,673.85	6,680.20	6,622.24	24.41	25.97	-6.56	-814.65	-152.47	349.22	301.57	47.65	7.329	
6,800.00	6,773.22	6,780.14	6,721.11	24.80	26.39	-6.46	-828.98	-155.25	352.65	304.26	48.39	7.288	
6,900.00	6,872.60	6,880.07	6,819.97	25.18	26.80	-6.37	-843.31	-158.04	356.08	306.96	49.12	7.249	
7,000.00	6,971.97	6,993.68	6,932.64	25.57	27.25	-6.31	-857.55	-160.80	357.67	307.72	49.95	7.161	
7,100.00	7,071.35	7,107.74	7,046.25	25.96	27.68	-6.33	-867.42	-162.72	355.31	304.60	50.71	7.007	
7,200.00	7,170.72	7,221.41	7,159.78	26.35	28.08	-6.45	-872.84	-163.77	349.01	297.61	51.39	6.791	
7,300.00	7,270.10	7,334.40	7,272.74	26.74	28.43	-6.80	-873.88	-163.18	338.79	286.80	51.99	6.516	
7,400.00	7,369.47	7,443.53	7,380.50	27.12	28.74	-9.88	-871.61	-147.19	325.12	272.50	52.61	6.179	
7,500.00	7,468.85	7,542.00	7,473.55	27.51	28.98	-16.07	-867.12	-115.63	311.01	257.50	53.51	5.812	
7,600.00	7,568.22	7,626.52	7,548.06	27.90	29.15	-24.06	-861.52	-76.31	302.22	247.62	54.60	5.535	
7,629.96	7,597.99	7,649.05	7,566.87	28.02	29.19	-26.57	-859.77	-64.03	301.63	246.75	54.88	5.496	
7,700.00	7,667.59	7,696.95	7,605.14	28.29	29.26	-32.31	-855.72	-35.55	305.29	250.12	55.18	5.533	
7,800.00	7,766.97	7,754.89	7,648.03	28.68	29.34	-39.74	-850.23	2.99	324.77	270.37	54.40	5.970	
7,900.00	7,866.34	7,800.00	7,678.57	29.07	29.39	-45.61	-845.56	35.84	361.41	309.27	52.14	6.931	
8,000.00	7,965.72	7,841.77	7,704.45	29.46	29.42	-50.91	-840.94	68.30	412.80	363.37	49.43	8.351	
8,100.00	8,065.09	7,874.46	7,722.99	29.84	29.45	-54.87	-837.15	94.95	475.59	429.01	46.58	10.210	
8,200.00	8,164.47	7,900.00	7,736.38	30.23	29.46	-57.81	-834.08	116.47	546.71	502.76	43.96	12.438	
8,300.00	8,263.97	7,925.41	7,748.74	30.62	29.47	-62.39	-830.96	138.45	624.23	582.28	41.95	14.880	
8,400.00	8,363.75	7,950.00	7,759.75	30.99	29.48	-67.45	-827.86	160.21	706.90	666.44	40.46	17.472	
8,500.00	8,463.70	7,964.31	7,765.72	31.34	29.48	-71.89	-826.03	173.09	793.13	754.09	39.04	20.316	
8,600.00	8,563.70	7,980.57	7,772.10	31.66	29.49	-115.77	-823.92	187.89	881.90	843.84	38.06	23.172	
8,700.00	8,663.70	8,000.00	7,779.17	31.97	29.49	114.35	-821.37	205.81	972.31	934.89	37.43	25.979	
8,800.00	8,763.42	8,000.00	7,779.17	32.29	29.49	12.25	-821.37	205.81	1,061.63	1,025.28	36.35	29.207	
8,900.00	8,863.67	8,027.23	7,788.04	32.60	29.50	8.57	-817.74	231.30	1,143.94	1,108.17	35.77	31.983	
9,000.00	8,962.49	8,050.00	7,794.51	32.88	29.50	6.53	-814.67	252.91	1,218.09	1,183.13	34.95	34.848	
9,100.00	9,036.10	8,070.52	7,799.59	33.12	29.50	5.24	-811.86	272.59	1,282.82	1,248.76	34.06	37.667	
9,200.00	9,108.94	8,100.00	7,805.64	33.32	29.51	4.22	-807.80	301.15	1,337.29	1,303.97	33.32	40.133	
9,300.00	9,168.81	8,120.35	7,808.95	33.50	29.52	3.60	-804.97	321.03	1,380.67	1,348.13	32.54	42.427	
9,400.00	9,213.90	8,150.00	7,812.48	33.70	29.55	3.02	-800.82	350.17	1,412.53	1,380.51	32.02	44.120	
9,500.00	9,242.82	8,173.68	7,814.21	34.07	29.63	2.64	-797.49	373.55	1,432.40	1,400.76	31.64	45.273	
9,600.00	9,254.70	8,203.68	7,815.00	34.66	29.79	2.27	-793.27	403.24	1,440.08	1,408.54	31.54	45.665	
9,700.00	9,255.00	8,289.27	7,815.00	35.41	30.46	1.42	-782.48	488.14	1,439.46	1,407.73	31.74	45.358	
9,800.00	9,255.00	8,386.52	7,815.00	36.29	31.38	0.69	-773.30	584.95	1,439.11	1,407.01	32.10	44.838	
9,900.00	9,255.00	8,485.38	7,815.00	37.28	32.47	0.21	-767.34	683.63	1,439.01	1,406.42	32.59	44.153	
9,981.57	9,255.00	8,566.73	7,815.00	38.18	33.46	0.01	-765.00	764.94	1,439.00	1,405.91	33.09	43.485	
10,000.00	9,255.00	8,585.15	7,815.00	38.38	33.69	0.00	-764.79	783.36	1,439.00	1,405.79	33.21	43.328	
10,100.00	9,255.00	8,685.15	7,815.00	39.57	35.02	-0.01	-764.76	883.36	1,439.00	1,405.06	33.94	42.403	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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)	Centre +E-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	9,255.00	8,785.15	7,815.00	40.86	36.46	-0.01	-764.84	983.36	1,439.00	1,404.28	34.72	41.448	
10,300.00	9,255.00	8,885.15	7,815.00	42.24	37.98	-0.01	-764.93	1,083.36	1,439.00	1,403.45	35.55	40.476	
10,400.00	9,255.00	8,985.15	7,815.00	43.69	39.57	-0.01	-765.02	1,183.36	1,439.00	1,402.57	36.43	39.495	
10,500.00	9,255.00	9,085.15	7,815.00	45.22	41.23	-0.01	-765.11	1,283.36	1,439.00	1,401.64	37.36	38.515	
10,600.00	9,255.00	9,185.15	7,815.00	46.81	42.96	-0.01	-765.20	1,383.36	1,439.00	1,400.67	38.33	37.542	
10,700.00	9,255.00	9,285.15	7,815.00	48.45	44.73	-0.01	-765.29	1,483.36	1,439.00	1,399.66	39.34	36.581	
10,800.00	9,255.00	9,385.15	7,815.00	50.15	46.55	-0.01	-765.38	1,583.36	1,439.00	1,398.62	40.38	35.636	
10,900.00	9,255.00	9,485.15	7,815.00	51.90	48.41	-0.01	-765.46	1,683.36	1,439.00	1,397.54	41.46	34.711	
11,000.00	9,255.00	9,585.15	7,815.00	53.69	50.31	-0.01	-765.55	1,783.36	1,439.00	1,396.44	42.56	33.809	
11,100.00	9,255.00	9,685.15	7,815.00	55.52	52.25	-0.01	-765.64	1,883.36	1,439.00	1,395.30	43.70	32.931	
11,200.00	9,255.00	9,785.15	7,815.00	57.38	54.21	-0.01	-765.73	1,983.36	1,439.00	1,394.14	44.86	32.079	
11,300.00	9,255.00	9,885.15	7,815.00	59.28	56.20	-0.01	-765.82	2,083.36	1,439.00	1,392.96	46.04	31.254	
11,400.00	9,255.00	9,985.15	7,815.00	61.20	58.21	-0.01	-765.91	2,183.36	1,439.00	1,391.75	47.25	30.456	
11,500.00	9,255.00	10,085.15	7,815.00	63.15	60.24	-0.01	-766.00	2,283.36	1,439.00	1,390.52	48.48	29.685	
11,600.00	9,255.00	10,185.15	7,815.00	65.12	62.29	-0.01	-766.08	2,383.36	1,439.00	1,389.28	49.72	28.941	
11,700.00	9,255.00	10,285.15	7,815.00	67.11	64.36	-0.01	-766.17	2,483.36	1,439.00	1,388.01	50.99	28.223	
11,800.00	9,255.00	10,385.15	7,815.00	69.12	66.45	-0.01	-766.26	2,583.36	1,439.00	1,386.73	52.27	27.532	
11,900.00	9,255.00	10,485.15	7,815.00	71.15	68.55	-0.01	-766.35	2,683.36	1,439.00	1,385.44	53.56	26.866	
12,000.00	9,255.00	10,585.15	7,815.00	73.20	70.66	-0.01	-766.44	2,783.36	1,439.00	1,384.13	54.87	26.225	
12,100.00	9,255.00	10,685.15	7,815.00	75.26	72.78	-0.01	-766.53	2,883.36	1,439.00	1,382.80	56.20	25.607	
12,200.00	9,255.00	10,785.15	7,815.00	77.34	74.92	-0.01	-766.62	2,983.36	1,439.00	1,381.47	57.53	25.013	
12,300.00	9,255.00	10,885.15	7,815.00	79.43	77.06	-0.01	-766.70	3,083.36	1,439.00	1,380.12	58.88	24.441	
12,400.00	9,255.00	10,985.15	7,815.00	81.53	79.22	-0.01	-766.79	3,183.36	1,439.00	1,378.77	60.24	23.890	
12,500.00	9,255.00	11,085.15	7,815.00	83.64	81.38	-0.01	-766.88	3,283.36	1,439.00	1,377.40	61.60	23.359	
12,600.00	9,255.00	11,185.15	7,815.00	85.76	83.55	-0.01	-766.97	3,383.36	1,439.00	1,376.02	62.98	22.849	
12,700.00	9,255.00	11,285.15	7,815.00	87.90	85.73	-0.01	-767.06	3,483.36	1,439.00	1,374.63	64.37	22.357	
12,800.00	9,255.00	11,385.15	7,815.00	90.04	87.91	-0.01	-767.15	3,583.36	1,439.00	1,373.24	65.76	21.883	
12,900.00	9,255.00	11,485.15	7,815.00	92.18	90.10	-0.01	-767.24	3,683.36	1,439.00	1,371.84	67.16	21.426	
13,000.00	9,255.00	11,585.15	7,815.00	94.34	92.30	-0.01	-767.32	3,783.36	1,439.00	1,370.43	68.57	20.986	
13,100.00	9,255.00	11,685.15	7,815.00	96.50	94.50	-0.01	-767.41	3,883.36	1,439.00	1,369.01	69.99	20.561	
13,200.00	9,255.00	11,785.15	7,815.00	98.67	96.71	-0.01	-767.50	3,983.36	1,439.00	1,367.59	71.41	20.152	
13,300.00	9,255.00	11,885.15	7,815.00	100.85	98.92	-0.01	-767.59	4,083.36	1,439.00	1,366.16	72.84	19.757	
13,400.00	9,255.00	11,985.15	7,815.00	103.03	101.14	-0.01	-767.68	4,183.36	1,439.00	1,364.73	74.27	19.375	
13,500.00	9,255.00	12,085.15	7,815.00	105.22	103.36	-0.01	-767.77	4,283.36	1,439.00	1,363.29	75.71	19.007	
13,600.00	9,255.00	12,185.15	7,815.00	107.41	105.58	-0.01	-767.86	4,383.36	1,439.00	1,361.85	77.15	18.651	
13,700.00	9,255.00	12,285.15	7,815.00	109.60	107.81	-0.01	-767.94	4,483.36	1,439.00	1,360.40	78.60	18.308	
13,800.00	9,255.00	12,385.15	7,815.00	111.81	110.04	-0.01	-768.03	4,583.36	1,439.00	1,358.95	80.05	17.975	
13,900.00	9,255.00	12,485.15	7,815.00	114.01	112.27	-0.01	-768.12	4,683.36	1,439.00	1,357.49	81.51	17.654	
14,000.00	9,255.00	12,585.15	7,815.00	116.22	114.51	-0.01	-768.21	4,783.36	1,439.00	1,356.03	82.97	17.343	
14,100.00	9,255.00	12,685.15	7,815.00	118.43	116.75	-0.01	-768.30	4,883.36	1,439.00	1,354.56	84.44	17.042	
14,200.00	9,255.00	12,785.15	7,815.00	120.65	118.99	-0.01	-768.39	4,983.36	1,439.00	1,353.09	85.91	16.750	
14,300.00	9,255.00	12,885.15	7,815.00	122.87	121.23	-0.01	-768.47	5,083.36	1,439.00	1,351.62	87.38	16.468	
14,400.00	9,255.00	12,985.15	7,815.00	125.09	123.48	-0.01	-768.56	5,183.36	1,439.00	1,350.14	88.86	16.194	
14,500.00	9,255.00	13,085.15	7,815.00	127.32	125.73	-0.01	-768.65	5,283.36	1,439.00	1,348.66	90.34	15.929	
14,600.00	9,255.00	13,185.15	7,815.00	129.55	127.98	-0.01	-768.74	5,383.36	1,439.00	1,347.18	91.82	15.672	
14,700.00	9,255.00	13,285.15	7,815.00	131.78	130.24	-0.01	-768.83	5,483.36	1,439.00	1,345.70	93.31	15.423	
14,800.00	9,255.00	13,385.15	7,815.00	134.02	132.49	-0.01	-768.92	5,583.36	1,439.00	1,344.21	94.79	15.180	
14,900.00	9,255.00	13,485.15	7,815.00	136.25	134.75	-0.01	-769.01	5,683.36	1,439.00	1,342.72	96.28	14.945	
15,000.00	9,255.00	13,585.15	7,815.00	138.49	137.01	-0.01	-769.09	5,783.36	1,439.00	1,341.22	97.78	14.717	
15,100.00	9,255.00	13,685.15	7,815.00	140.74	139.27	-0.01	-769.18	5,883.36	1,439.00	1,339.73	99.27	14.496	
15,200.00	9,255.00	13,785.15	7,815.00	142.98	141.53	-0.01	-769.27	5,983.36	1,439.00	1,338.23	100.77	14.280	
15,300.00	9,255.00	13,885.15	7,815.00	145.23	143.79	-0.01	-769.36	6,083.36	1,439.00	1,336.73	102.27	14.071	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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)						
15,400.00	9,255.00	13,985.15	7,815.00	147.47	146.06	-0.01	-769.45	6,183.36	1,439.00	1,335.23	103.77	13.867		
15,500.00	9,255.00	14,085.15	7,815.00	149.72	148.32	-0.01	-769.54	6,283.36	1,439.00	1,333.73	105.27	13.669		
15,600.00	9,255.00	14,185.15	7,815.00	151.97	150.59	-0.01	-769.63	6,383.36	1,439.00	1,332.22	106.78	13.476		
15,700.00	9,255.00	14,285.15	7,815.00	154.23	152.86	-0.01	-769.71	6,483.36	1,439.00	1,330.71	108.29	13.289		
15,800.00	9,255.00	14,385.15	7,815.00	156.48	155.13	0.00	-769.80	6,583.36	1,439.00	1,329.20	109.80	13.106		
15,900.00	9,255.00	14,485.15	7,815.00	158.74	157.40	0.00	-769.89	6,683.36	1,439.00	1,327.69	111.31	12.928		
16,000.00	9,255.00	14,585.15	7,815.00	161.00	159.67	0.00	-769.98	6,783.36	1,439.00	1,326.18	112.82	12.755		
16,100.00	9,255.00	14,685.15	7,815.00	163.26	161.95	0.00	-770.07	6,883.36	1,439.00	1,324.67	114.33	12.586		
16,200.00	9,255.00	14,785.15	7,815.00	165.52	164.22	0.00	-770.16	6,983.36	1,439.00	1,323.15	115.85	12.421		
16,300.00	9,255.00	14,885.15	7,815.00	167.78	166.49	0.00	-770.25	7,083.36	1,439.00	1,321.63	117.37	12.261		
16,400.00	9,255.00	14,985.15	7,815.00	170.04	168.77	0.00	-770.33	7,183.36	1,439.00	1,320.12	118.88	12.104		
16,500.00	9,255.00	15,085.15	7,815.00	172.31	171.05	0.00	-770.42	7,283.36	1,439.00	1,318.60	120.40	11.952		
16,600.00	9,255.00	15,185.15	7,815.00	174.57	173.33	0.00	-770.51	7,383.36	1,439.00	1,317.08	121.92	11.802		
16,700.00	9,255.00	15,285.15	7,815.00	176.84	175.60	0.00	-770.60	7,483.36	1,439.00	1,315.55	123.45	11.657		
16,800.00	9,255.00	15,385.15	7,815.00	179.11	177.88	0.00	-770.69	7,583.36	1,439.00	1,314.03	124.97	11.515		
16,900.00	9,255.00	15,485.15	7,815.00	181.37	180.16	0.00	-770.78	7,683.36	1,439.00	1,312.51	126.49	11.376		
17,000.00	9,255.00	15,585.15	7,815.00	183.64	182.44	0.00	-770.87	7,783.36	1,439.00	1,310.98	128.02	11.241		
17,100.00	9,255.00	15,685.15	7,815.00	185.91	184.73	0.00	-770.95	7,883.36	1,439.00	1,309.45	129.55	11.108		
17,200.00	9,255.00	15,785.15	7,815.00	188.19	187.01	0.00	-771.04	7,983.36	1,439.00	1,307.93	131.07	10.979		
17,300.00	9,255.00	15,885.15	7,815.00	190.46	189.29	0.00	-771.13	8,083.36	1,439.00	1,306.40	132.60	10.852		
17,400.00	9,255.00	15,985.15	7,815.00	192.73	191.57	0.00	-771.22	8,183.36	1,439.00	1,304.87	134.13	10.728		
17,500.00	9,255.00	16,085.15	7,815.00	195.01	193.86	0.00	-771.31	8,283.36	1,439.00	1,303.34	135.66	10.607		
17,600.00	9,255.00	16,185.15	7,815.00	197.28	196.14	0.00	-771.40	8,383.36	1,439.00	1,301.81	137.19	10.489		
17,700.00	9,255.00	16,285.15	7,815.00	199.56	198.43	0.00	-771.49	8,483.36	1,439.00	1,300.28	138.72	10.373		
17,800.00	9,255.00	16,385.15	7,815.00	201.83	200.71	0.00	-771.57	8,583.36	1,439.00	1,298.74	140.26	10.260		
17,900.00	9,255.00	16,485.15	7,815.00	204.11	203.00	0.00	-771.66	8,683.36	1,439.00	1,297.21	141.79	10.149		
18,000.00	9,255.00	16,585.15	7,815.00	206.39	205.29	0.00	-771.75	8,783.36	1,439.00	1,295.67	143.33	10.040		
18,100.00	9,255.00	16,685.15	7,815.00	208.67	207.57	0.00	-771.84	8,883.36	1,439.00	1,294.14	144.86	9.934		
18,200.00	9,255.00	16,785.15	7,815.00	210.95	209.86	0.00	-771.93	8,983.36	1,439.00	1,292.60	146.40	9.829		
18,300.00	9,255.00	16,885.15	7,815.00	213.23	212.15	0.00	-772.02	9,083.36	1,439.00	1,291.07	147.93	9.727		
18,400.00	9,255.00	16,985.15	7,815.00	215.51	214.44	0.00	-772.11	9,183.36	1,439.00	1,289.53	149.47	9.627		
18,500.00	9,255.00	17,085.15	7,815.00	217.79	216.73	0.00	-772.19	9,283.36	1,439.00	1,287.99	151.01	9.529		
18,600.00	9,255.00	17,185.15	7,815.00	220.07	219.02	0.00	-772.28	9,383.36	1,439.00	1,286.45	152.55	9.433		
18,700.00	9,255.00	17,285.15	7,815.00	222.35	221.31	0.00	-772.37	9,483.36	1,439.00	1,284.91	154.09	9.339		
18,800.00	9,255.00	17,385.15	7,815.00	224.64	223.60	0.00	-772.46	9,583.36	1,439.00	1,283.37	155.63	9.247		
18,900.00	9,255.00	17,485.15	7,815.00	226.92	225.89	0.00	-772.55	9,683.36	1,439.00	1,281.83	157.17	9.156		
19,000.00	9,255.00	17,585.15	7,815.00	229.20	228.18	0.00	-772.64	9,783.36	1,439.00	1,280.29	158.71	9.067		
19,100.00	9,255.00	17,685.15	7,815.00	231.49	230.47	0.00	-772.72	9,883.36	1,439.00	1,278.75	160.25	8.980		
19,200.00	9,255.00	17,785.15	7,815.00	233.77	232.76	0.00	-772.81	9,983.36	1,439.00	1,277.21	161.79	8.894		
19,300.00	9,255.00	17,885.15	7,815.00	236.06	235.05	0.00	-772.90	10,083.36	1,439.00	1,275.67	163.33	8.810		
19,400.00	9,255.00	17,985.15	7,815.00	238.34	237.34	0.00	-772.99	10,183.36	1,439.00	1,274.12	164.88	8.728		
19,411.49	9,255.00	17,996.64	7,815.00	238.60	237.61	0.00	-773.00	10,194.85	1,439.00	1,273.95	165.05	8.719		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		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)						
0.00	0.00	1.00	-1.00	0.00	0.00	90.00	0.00	30.00	30.00					
100.00	100.00	101.00	99.00	0.13	0.13	90.00	0.00	30.00	30.00	29.74	0.26	115.432		
200.00	200.00	201.00	199.00	0.49	0.49	90.00	0.00	30.00	30.00	29.02	0.98	30.711		
300.00	300.00	301.00	299.00	0.85	0.85	90.00	0.00	30.00	30.00	28.31	1.69	17.712		
400.00	400.00	401.00	399.00	1.20	1.21	90.00	0.00	30.00	30.00	27.59	2.41	12.444		
500.00	500.00	501.00	499.00	1.56	1.57	90.00	0.00	30.00	30.00	26.87	3.13	9.592		
600.00	600.00	601.00	599.00	1.92	1.92	90.00	0.00	30.00	30.00	26.16	3.84	7.803		
700.00	700.00	701.00	699.00	2.28	2.28	90.00	0.00	30.00	30.00	25.44	4.56	6.577		
800.00	800.00	801.00	799.00	2.64	2.64	90.00	0.00	30.00	30.00	24.72	5.28	5.683		
900.00	900.00	901.00	899.00	3.00	3.00	90.00	0.00	30.00	30.00	24.00	6.00	5.004		
1,000.00	1,000.00	999.00	999.00	3.35	3.35	90.00	0.00	30.00	30.00	23.29	6.71	4.474 CC		
1,100.00	1,099.98	1,102.16	1,097.82	3.70	3.71	-156.23	0.00	31.67	33.28	25.87	7.41	4.491		
1,200.00	1,199.92	1,202.39	1,197.53	4.04	4.06	-158.14	0.00	35.15	39.98	31.89	8.09	4.942		
1,300.00	1,299.86	1,302.63	1,297.23	4.38	4.41	-159.49	0.00	38.63	46.72	37.94	8.78	5.323		
1,400.00	1,399.80	1,402.86	1,396.94	4.72	4.76	-160.51	0.00	42.12	53.47	44.00	9.47	5.648		
1,500.00	1,499.74	1,503.09	1,496.65	5.07	5.11	-161.30	0.00	45.60	60.23	50.07	10.16	5.927		
1,600.00	1,599.68	1,603.32	1,596.35	5.42	5.46	-161.93	0.00	49.08	67.01	56.15	10.86	6.170		
1,700.00	1,699.61	1,703.56	1,696.06	5.77	5.82	-162.44	0.00	52.56	73.79	62.23	11.56	6.383		
1,800.00	1,799.55	1,803.79	1,795.77	6.12	6.17	-162.87	0.00	56.04	80.58	68.31	12.26	6.571		
1,900.00	1,899.49	1,904.02	1,895.47	6.48	6.53	-163.23	0.00	59.52	87.37	74.40	12.97	6.737		
2,000.00	1,999.43	1,995.75	1,995.18	6.83	6.85	-163.53	0.00	63.01	94.16	80.52	13.64	6.901		
2,100.00	2,099.37	2,104.48	2,094.89	7.19	7.24	-163.80	0.00	66.49	100.96	86.57	14.38	7.020		
2,200.00	2,199.31	2,195.28	2,194.60	7.54	7.56	-164.03	0.00	69.97	107.75	92.70	15.06	7.156		
2,300.00	2,299.25	2,297.37	2,296.63	7.90	7.92	-163.59	-1.44	72.76	113.59	97.82	15.77	7.201		
2,400.00	2,399.19	2,399.66	2,398.80	8.25	8.27	-161.76	-6.08	73.83	117.35	100.87	16.48	7.122		
2,500.00	2,499.13	2,501.77	2,500.60	8.61	8.62	-158.59	-13.92	73.17	119.29	102.11	17.18	6.946		
2,600.00	2,599.03	2,603.61	2,601.82	8.97	8.96	-119.06	-24.92	70.79	119.67	101.80	17.87	6.696		
2,700.00	2,698.77	2,705.22	2,702.35	9.32	9.30	-101.80	-39.03	66.71	118.40	99.83	18.57	6.376		
2,800.00	2,798.24	2,805.15	2,800.92	9.67	9.65	-93.72	-54.69	61.73	116.02	96.75	19.27	6.019		
2,900.00	2,897.62	2,905.00	2,899.41	10.03	9.99	-91.18	-70.35	56.74	113.67	93.68	19.99	5.687		
3,000.00	2,896.99	3,004.84	2,997.89	10.39	10.35	-88.53	-86.00	51.76	111.56	90.84	20.71	5.386		
3,100.00	3,096.37	3,104.68	3,096.37	10.75	10.71	-85.79	-101.66	46.78	109.69	88.24	21.44	5.116		
3,200.00	3,195.74	3,204.52	3,194.85	11.11	11.08	-82.96	-117.31	41.80	108.08	85.90	22.17	4.874		
3,300.00	3,295.12	3,304.36	3,293.33	11.48	11.45	-80.05	-132.97	36.81	106.74	83.82	22.91	4.658		
3,400.00	3,394.49	3,404.21	3,391.81	11.84	11.83	-77.08	-148.63	31.83	105.68	82.03	23.65	4.468		
3,500.00	3,493.87	3,504.05	3,490.29	12.21	12.21	-74.06	-164.28	26.85	104.92	80.52	24.40	4.301		
3,600.00	3,593.24	3,603.89	3,588.77	12.58	12.59	-71.00	-179.94	21.87	104.45	79.31	25.14	4.155		
3,700.00	3,692.61	3,703.73	3,687.25	12.95	12.98	-67.92	-195.60	16.89	104.28	78.40	25.88	4.030		
3,705.24	3,697.82	3,708.97	3,692.42	12.97	13.00	-67.76	-196.42	16.62	104.28	78.36	25.92	4.024		
3,800.00	3,791.99	3,803.57	3,785.73	13.33	13.36	-64.84	-211.25	11.90	104.42	77.80	26.62	3.923		
3,900.00	3,891.36	3,903.42	3,884.21	13.70	13.75	-61.77	-226.91	6.92	104.85	77.50	27.35	3.833		
4,000.00	3,990.74	4,003.26	3,982.70	14.07	14.15	-58.75	-242.56	1.94	105.59	77.50	28.09	3.759		
4,100.00	4,090.11	4,103.10	4,081.18	14.45	14.54	-55.77	-258.22	-3.04	106.61	77.80	28.81	3.700		
4,200.00	4,189.49	4,202.94	4,179.66	14.83	14.94	-52.85	-273.88	-8.03	107.92	78.38	29.54	3.654		
4,300.00	4,288.86	4,302.78	4,278.14	15.20	15.33	-50.01	-289.53	-13.01	109.50	79.24	30.26	3.619		
4,400.00	4,388.24	4,402.63	4,376.62	15.58	15.73	-47.26	-305.19	-17.99	111.35	80.37	30.98	3.594		
4,500.00	4,487.61	4,502.47	4,475.10	15.96	16.13	-44.61	-320.84	-22.97	113.44	81.75	31.69	3.579		
4,600.00	4,586.98	4,602.31	4,573.58	16.34	16.53	-42.05	-336.50	-27.96	115.77	83.36	32.40	3.573		
4,700.00	4,686.36	4,702.15	4,672.06	16.72	16.94	-39.60	-352.16	-32.94	118.32	85.20	33.11	3.573		
4,800.00	4,785.73	4,801.99	4,770.54	17.10	17.34	-37.26	-367.81	-37.92	121.07	87.25	33.82	3.580		
4,900.00	4,885.11	4,901.84	4,869.02	17.48	17.75	-35.02	-383.47	-42.90	124.02	89.49	34.53	3.592		
5,000.00	4,984.48	5,001.68	4,967.50	17.86	18.15	-32.90	-399.12	-47.88	127.15	91.92	35.23	3.609		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
5,100.00	5,083.86	5,101.52	5,065.99	18.25	18.56	-30.87	-414.78	-52.87	130.45	94.51	35.94	3.630	
5,200.00	5,183.23	5,201.36	5,164.47	18.63	18.97	-28.95	-430.44	-57.85	133.90	97.26	36.64	3.654	
5,300.00	5,282.61	5,301.20	5,262.95	19.01	19.38	-27.13	-446.09	-62.83	137.49	100.14	37.35	3.681	
5,400.00	5,381.98	5,401.05	5,361.43	19.40	19.79	-25.40	-461.75	-67.81	141.22	103.16	38.05	3.711	
5,500.00	5,481.36	5,500.89	5,459.91	19.78	20.20	-23.76	-477.40	-72.80	145.07	106.31	38.76	3.743	
5,600.00	5,580.73	5,600.73	5,558.39	20.16	20.61	-22.21	-493.06	-77.78	149.03	109.56	39.47	3.776	
5,700.00	5,680.10	5,700.57	5,656.87	20.55	21.02	-20.74	-508.72	-82.76	153.09	112.92	40.17	3.811	
5,800.00	5,779.48	5,800.41	5,755.35	20.93	21.43	-19.34	-524.37	-87.74	157.25	116.37	40.88	3.846	
5,900.00	5,878.85	5,900.26	5,853.83	21.32	21.85	-18.02	-540.03	-92.73	161.50	119.91	41.59	3.883	
6,000.00	5,978.23	6,000.10	5,952.31	21.71	22.26	-16.76	-555.69	-97.71	165.83	123.52	42.31	3.920	
6,100.00	6,077.60	6,100.06	6,050.80	22.09	22.67	-15.57	-571.34	-102.69	170.24	127.22	43.02	3.957	
6,200.00	6,176.98	6,199.78	6,149.28	22.48	23.09	-14.45	-587.00	-107.67	174.71	130.98	43.73	3.995	
6,300.00	6,276.35	6,300.38	6,247.76	22.86	23.51	-13.37	-602.65	-112.65	179.25	134.80	44.45	4.032	
6,400.00	6,375.73	6,400.53	6,346.24	23.25	23.92	-12.35	-618.31	-117.64	183.85	138.68	45.17	4.070	
6,500.00	6,475.10	6,499.31	6,444.72	23.64	24.33	-11.38	-633.97	-122.62	188.50	142.62	45.88	4.108	
6,600.00	6,574.48	6,600.85	6,543.20	24.02	24.76	-10.46	-649.62	-127.60	193.21	146.60	46.61	4.145	
6,700.00	6,673.85	6,701.01	6,641.68	24.41	25.18	-9.58	-665.28	-132.58	197.96	150.63	47.33	4.183	
6,800.00	6,773.22	6,798.83	6,740.16	24.80	25.58	-8.75	-680.93	-137.57	202.76	154.72	48.04	4.220	
6,900.00	6,872.60	6,901.32	6,838.64	25.18	26.01	-7.95	-696.59	-142.55	207.60	158.82	48.78	4.256	
7,000.00	6,971.97	6,998.52	6,937.12	25.57	26.42	-7.19	-712.25	-147.53	212.48	162.99	49.49	4.293	
7,100.00	7,071.35	7,098.93	7,036.17	25.96	26.84	-6.46	-727.98	-152.54	217.38	167.16	50.22	4.328	
7,200.00	7,170.72	7,206.89	7,143.00	26.35	27.28	-5.84	-742.72	-157.23	220.23	169.18	51.05	4.314	
7,300.00	7,270.10	7,314.96	7,250.46	26.74	27.70	-5.48	-753.62	-160.70	219.43	167.61	51.82	4.234	
7,400.00	7,369.47	7,422.84	7,358.09	27.12	28.09	-5.34	-760.65	-162.93	214.96	162.42	52.53	4.092	
7,500.00	7,468.85	7,530.22	7,465.41	27.51	28.46	-5.45	-763.80	-163.94	206.83	153.65	53.18	3.889	
7,600.00	7,568.22	7,632.03	7,567.22	27.90	28.78	-5.76	-764.00	-164.00	195.91	142.06	53.84	3.638	
7,700.00	7,667.59	7,731.41	7,666.59	28.29	29.08	-6.10	-764.00	-164.00	184.80	130.26	54.54	3.388	
7,800.00	7,766.97	7,830.78	7,765.97	28.68	29.39	-6.50	-764.00	-164.00	173.70	118.46	55.24	3.145	
7,900.00	7,866.34	7,930.16	7,865.34	29.07	29.69	-6.94	-764.00	-164.00	162.60	106.67	55.94	2.907	
8,000.00	7,965.72	8,029.53	7,964.72	29.46	30.00	-7.45	-764.00	-164.00	151.52	94.89	56.64	2.675	
8,100.00	8,065.09	8,128.91	8,064.09	29.84	30.31	-8.04	-764.00	-164.00	140.46	83.11	57.34	2.449	
8,200.00	8,164.47	8,228.28	8,163.47	30.23	30.62	-8.73	-764.00	-164.00	129.41	71.36	58.05	2.229	
8,300.00	8,263.97	8,327.78	8,262.97	30.62	30.93	-9.43	-764.00	-164.00	119.60	60.84	58.76	2.035	
8,400.00	8,363.75	8,427.56	8,362.75	30.99	31.24	-9.95	-764.00	-164.00	113.19	53.73	59.47	1.903	
8,500.00	8,463.70	8,527.51	8,462.70	31.34	31.56	-10.21	-764.00	-164.00	110.23	50.07	60.16	1.832	
8,596.65	8,560.35	8,624.14	8,559.32	31.65	31.86	-10.49	-764.00	-163.57	109.61	48.80	60.81	1.802	
8,600.00	8,563.70	8,627.49	8,562.67	31.66	31.87	179.70	-764.00	-163.43	110.00	49.17	60.83	1.808	
8,700.00	8,663.70	8,725.53	8,659.76	31.97	32.18	173.11	-764.01	-150.70	110.85	49.10	61.75	1.795	
8,800.00	8,763.42	8,818.53	8,748.59	32.29	32.44	63.50	-764.04	-123.52	115.43	52.68	62.75	1.840	
8,900.00	8,860.67	8,908.20	8,829.00	32.60	32.66	53.36	-764.07	-84.03	121.86	59.03	62.82	1.940	
9,000.00	8,952.49	8,995.11	8,900.14	32.88	32.83	44.68	-764.11	-34.25	129.00	67.51	61.50	2.098	
9,100.00	9,036.10	9,079.73	8,961.41	33.12	32.96	37.31	-764.16	24.00	135.94	77.17	58.77	2.313	
9,200.00	9,108.94	9,162.48	9,012.39	33.32	33.06	31.00	-764.22	89.08	141.93	87.02	54.91	2.585	
9,300.00	9,188.81	9,243.77	9,052.85	33.50	33.13	25.51	-764.28	159.51	146.41	96.06	50.35	2.908	
9,400.00	9,213.90	9,323.98	9,082.61	33.70	33.18	20.62	-764.35	233.93	149.00	103.38	45.62	3.266	
9,500.00	9,242.82	9,403.49	9,101.58	34.07	33.31	16.14	-764.41	311.08	149.41	108.08	41.33	3.615	
9,600.00	9,254.70	9,482.65	9,109.68	34.66	33.74	11.89	-764.48	389.75	147.48	109.27	38.21	3.860	
9,700.00	9,255.00	9,576.96	9,110.00	35.41	34.44	7.22	-764.56	484.06	145.16	108.58	36.59	3.968	
9,800.00	9,255.00	9,676.49	9,110.00	36.29	35.32	3.46	-764.65	583.60	144.26	108.41	35.86	4.024	
9,900.00	9,255.00	9,776.30	9,110.00	37.28	36.32	1.03	-764.74	683.40	144.02	108.23	35.79	4.024	
9,981.19	9,255.00	9,857.45	9,110.00	38.17	37.22	0.07	-764.81	764.55	144.00	107.91	36.09	3.990	
10,000.00	9,255.00	9,876.26	9,110.00	38.38	37.43	-0.02	-764.82	783.36	144.00	107.82	36.18	3.980	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		
10,100.00	9,255.00	9,976.26	9,110.00	39.57	38.65	-0.06	-764.91	883.36	144.00	107.18	36.84	3.909		
10,200.00	9,255.00	10,076.26	9,110.00	40.86	39.97	-0.06	-765.00	883.36	144.00	106.45	37.55	3.835		
10,300.00	9,255.00	10,176.26	9,110.00	42.24	41.37	-0.06	-765.08	1,083.36	144.00	105.69	38.31	3.758		
10,400.00	9,255.00	10,276.26	9,110.00	43.69	42.85	-0.06	-765.17	1,183.36	144.00	104.87	39.13	3.680		
10,500.00	9,255.00	10,376.26	9,110.00	45.22	44.39	-0.06	-765.26	1,283.36	144.00	104.01	39.99	3.601		
10,600.00	9,255.00	10,476.26	9,110.00	46.81	46.01	-0.06	-765.34	1,383.36	144.00	103.11	40.89	3.522		
10,700.00	9,255.00	10,576.26	9,110.00	48.45	47.68	-0.06	-765.43	1,483.36	144.00	102.17	41.83	3.443		
10,800.00	9,255.00	10,676.26	9,110.00	50.15	49.40	-0.06	-765.52	1,583.36	144.00	101.20	42.80	3.364		
10,900.00	9,255.00	10,776.26	9,110.00	51.90	51.16	-0.06	-765.61	1,683.36	144.00	100.18	43.82	3.286		
11,000.00	9,255.00	10,876.26	9,110.00	53.69	52.97	-0.06	-765.69	1,783.36	144.00	99.14	44.86	3.210		
11,100.00	9,255.00	10,976.26	9,110.00	55.52	54.82	-0.06	-765.78	1,883.36	144.00	98.07	45.93	3.135		
11,200.00	9,255.00	11,076.26	9,110.00	57.38	56.70	-0.06	-765.87	1,983.36	144.00	96.97	47.03	3.062		
11,300.00	9,255.00	11,176.26	9,110.00	59.28	58.61	-0.06	-765.95	2,083.36	144.00	95.84	48.16	2.990		
11,400.00	9,255.00	11,276.26	9,110.00	61.20	60.54	-0.06	-766.04	2,183.36	144.00	94.69	49.31	2.920		
11,500.00	9,255.00	11,376.26	9,110.00	63.15	62.51	-0.05	-766.13	2,283.36	144.00	93.51	50.49	2.852		
11,600.00	9,255.00	11,476.26	9,110.00	65.12	64.49	-0.05	-766.21	2,383.36	144.00	92.32	51.68	2.786		
11,700.00	9,255.00	11,576.26	9,110.00	67.11	66.50	-0.05	-766.30	2,483.36	144.00	91.10	52.90	2.722		
11,800.00	9,255.00	11,676.26	9,110.00	69.12	68.52	-0.05	-766.39	2,583.36	144.00	89.87	54.13	2.660		
11,900.00	9,255.00	11,776.26	9,110.00	71.15	70.57	-0.05	-766.47	2,683.36	144.00	88.62	55.38	2.600		
12,000.00	9,255.00	11,876.26	9,110.00	73.20	72.63	-0.05	-766.56	2,783.36	144.00	87.35	56.65	2.542		
12,100.00	9,255.00	11,976.26	9,110.00	75.26	74.70	-0.05	-766.65	2,883.36	144.00	86.07	57.93	2.486		
12,200.00	9,255.00	12,076.26	9,110.00	77.34	76.79	-0.05	-766.73	2,983.36	144.00	84.78	59.22	2.432		
12,300.00	9,255.00	12,176.26	9,110.00	79.43	78.88	-0.05	-766.82	3,083.36	144.00	83.47	60.53	2.379		
12,400.00	9,255.00	12,276.26	9,110.00	81.53	81.00	-0.05	-766.91	3,183.36	144.00	82.15	61.85	2.328		
12,500.00	9,255.00	12,376.26	9,110.00	83.64	83.12	-0.05	-767.00	3,283.36	144.00	80.82	63.18	2.279		
12,600.00	9,255.00	12,476.26	9,110.00	85.76	85.25	-0.05	-767.08	3,383.36	144.00	79.48	64.52	2.232		
12,700.00	9,255.00	12,576.26	9,110.00	87.90	87.39	-0.05	-767.17	3,483.36	144.00	78.12	65.88	2.186		
12,800.00	9,255.00	12,676.26	9,110.00	90.04	89.53	-0.05	-767.26	3,583.36	144.00	76.76	67.24	2.142		
12,900.00	9,255.00	12,776.26	9,110.00	92.18	91.69	-0.04	-767.34	3,683.36	144.00	75.39	68.61	2.099		
13,000.00	9,255.00	12,876.26	9,110.00	94.34	93.85	-0.04	-767.43	3,783.36	144.00	74.01	69.99	2.058		
13,100.00	9,255.00	12,976.26	9,110.00	96.50	96.02	-0.04	-767.52	3,883.36	144.00	72.63	71.37	2.018		
13,200.00	9,255.00	13,076.26	9,110.00	98.67	98.20	-0.04	-767.60	3,983.36	144.00	71.23	72.77	1.979		
13,300.00	9,255.00	13,176.26	9,110.00	100.85	100.38	-0.04	-767.69	4,083.36	144.00	69.83	74.17	1.942		
13,400.00	9,255.00	13,276.26	9,110.00	103.03	102.57	-0.04	-767.78	4,183.36	144.00	68.42	75.58	1.905		
13,500.00	9,255.00	13,376.26	9,110.00	105.22	104.76	-0.04	-767.86	4,283.36	144.00	67.01	76.99	1.870		
13,600.00	9,255.00	13,476.26	9,110.00	107.41	106.96	-0.04	-767.95	4,383.36	144.00	65.59	78.41	1.836		
13,700.00	9,255.00	13,576.26	9,110.00	109.60	109.16	-0.04	-768.04	4,483.36	144.00	64.16	79.84	1.804		
13,800.00	9,255.00	13,676.26	9,110.00	111.81	111.37	-0.04	-768.12	4,583.36	144.00	62.73	81.27	1.772		
13,900.00	9,255.00	13,776.26	9,110.00	114.01	113.58	-0.04	-768.21	4,683.36	144.00	61.30	82.70	1.741		
14,000.00	9,255.00	13,876.26	9,110.00	116.22	115.79	-0.04	-768.30	4,783.36	144.00	59.86	84.14	1.711		
14,100.00	9,255.00	13,976.26	9,110.00	118.43	118.01	-0.04	-768.39	4,883.36	144.00	58.41	85.59	1.682		
14,200.00	9,255.00	14,076.26	9,110.00	120.65	120.23	-0.04	-768.47	4,983.36	144.00	56.96	87.04	1.654		
14,300.00	9,255.00	14,176.26	9,110.00	122.87	122.46	-0.04	-768.56	5,083.36	144.00	55.51	88.49	1.627		
14,400.00	9,255.00	14,276.26	9,110.00	125.09	124.69	-0.03	-768.65	5,183.36	144.00	54.05	89.95	1.601		
14,500.00	9,255.00	14,376.26	9,110.00	127.32	126.92	-0.03	-768.73	5,283.36	144.00	52.59	91.41	1.575		
14,600.00	9,255.00	14,476.26	9,110.00	129.55	129.15	-0.03	-768.82	5,383.36	144.00	51.12	92.88	1.550		
14,700.00	9,255.00	14,576.26	9,110.00	131.78	131.39	-0.03	-768.91	5,483.36	144.00	49.66	94.34	1.526		
14,800.00	9,255.00	14,676.26	9,110.00	134.02	133.62	-0.03	-768.99	5,583.36	144.00	48.18	95.82	1.503		
14,900.00	9,255.00	14,776.26	9,110.00	136.25	135.86	-0.03	-769.08	5,683.36	144.00	46.71	97.29	1.480 Level 3		
15,000.00	9,255.00	14,876.26	9,110.00	138.49	138.11	-0.03	-769.17	5,783.36	144.00	45.23	98.77	1.458 Level 3		
15,100.00	9,255.00	14,976.26	9,110.00	140.74	140.35	-0.03	-769.25	5,883.36	144.00	43.75	100.25	1.436 Level 3		
15,200.00	9,255.00	15,076.26	9,110.00	142.98	142.60	-0.03	-769.34	5,983.36	144.00	42.27	101.73	1.415 Level 3		

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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:
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)					
15,300.00	9,255.00	15,176.26	9,110.00	145.23	144.85	-0.03	-769.43	6,083.36	144.00	40.78	103.22	1.395 Level 3	
15,400.00	9,255.00	15,276.26	9,110.00	147.47	147.10	-0.03	-769.52	6,183.36	144.00	39.30	104.70	1.375 Level 3	
15,500.00	9,255.00	15,376.26	9,110.00	149.72	149.35	-0.03	-769.60	6,283.36	144.00	37.80	106.20	1.356 Level 3	
15,600.00	9,255.00	15,476.26	9,110.00	151.97	151.61	-0.03	-769.69	6,383.36	144.00	36.31	107.69	1.337 Level 3	
15,700.00	9,255.00	15,576.26	9,110.00	154.23	153.86	-0.03	-769.78	6,483.36	144.00	34.82	109.18	1.319 Level 3	
15,800.00	9,255.00	15,676.26	9,110.00	156.48	156.12	-0.02	-769.86	6,583.36	144.00	33.32	110.68	1.301 Level 3	
15,900.00	9,255.00	15,776.26	9,110.00	158.74	158.38	-0.02	-769.95	6,683.36	144.00	31.82	112.18	1.284 Level 3	
16,000.00	9,255.00	15,876.26	9,110.00	161.00	160.64	-0.02	-770.04	6,783.36	144.00	30.32	113.68	1.267 Level 3	
16,100.00	9,255.00	15,976.26	9,110.00	163.26	162.90	-0.02	-770.12	6,883.36	144.00	28.82	115.18	1.250 Level 3	
16,200.00	9,255.00	16,076.26	9,110.00	165.52	165.16	-0.02	-770.21	6,983.36	144.00	27.31	116.69	1.234 Level 2	
16,300.00	9,255.00	16,176.26	9,110.00	167.78	167.43	-0.02	-770.30	7,083.36	144.00	25.81	118.19	1.218 Level 2	
16,400.00	9,255.00	16,276.26	9,110.00	170.04	169.69	-0.02	-770.38	7,183.36	144.00	24.30	119.70	1.203 Level 2	
16,500.00	9,255.00	16,376.26	9,110.00	172.31	171.96	-0.02	-770.47	7,283.36	144.00	22.79	121.21	1.188 Level 2	
16,600.00	9,255.00	16,476.26	9,110.00	174.57	174.23	-0.02	-770.56	7,383.36	144.00	21.28	122.72	1.173 Level 2	
16,700.00	9,255.00	16,576.26	9,110.00	176.84	176.50	-0.02	-770.64	7,483.36	144.00	19.77	124.23	1.159 Level 2	
16,800.00	9,255.00	16,676.26	9,110.00	179.11	178.77	-0.02	-770.73	7,583.36	144.00	18.26	125.74	1.145 Level 2	
16,900.00	9,255.00	16,776.26	9,110.00	181.37	181.04	-0.02	-770.82	7,683.36	144.00	16.74	127.26	1.132 Level 2	
17,000.00	9,255.00	16,876.26	9,110.00	183.64	183.31	-0.02	-770.91	7,783.36	144.00	15.22	128.78	1.118 Level 2	
17,100.00	9,255.00	16,976.26	9,110.00	185.91	185.58	-0.02	-770.99	7,883.36	144.00	13.71	130.29	1.105 Level 2	
17,200.00	9,255.00	17,076.26	9,110.00	188.19	187.86	-0.02	-771.08	7,983.36	144.00	12.19	131.81	1.092 Level 2	
17,200.87	9,255.00	17,077.13	9,110.00	188.21	187.88	-0.02	-771.08	7,984.23	144.00	12.17	131.83	1.092 Level 2	
17,300.00	9,255.00	17,176.26	9,110.00	190.46	190.13	-0.01	-771.17	8,083.36	144.00	10.67	133.33	1.080 Level 2	
17,400.00	9,255.00	17,276.26	9,110.00	192.73	192.41	-0.01	-771.25	8,183.36	144.00	9.15	134.85	1.068 Level 2	
17,500.00	9,255.00	17,376.26	9,110.00	195.01	194.68	-0.01	-771.34	8,283.36	144.00	7.62	136.38	1.056 Level 2	
17,600.00	9,255.00	17,476.26	9,110.00	197.28	196.96	-0.01	-771.43	8,383.36	144.00	6.10	137.90	1.044 Level 2	
17,700.00	9,255.00	17,576.26	9,110.00	199.56	199.24	-0.01	-771.51	8,483.36	144.00	4.58	139.42	1.033 Level 2	
17,800.00	9,255.00	17,676.26	9,110.00	201.83	201.51	-0.01	-771.60	8,583.36	144.00	3.05	140.95	1.022 Level 2	
17,900.00	9,255.00	17,776.26	9,110.00	204.11	203.79	-0.01	-771.69	8,683.36	144.00	1.53	142.47	1.011 Level 2	
18,000.00	9,255.00	17,876.26	9,110.00	206.39	206.07	-0.01	-771.77	8,783.36	144.00	0.00	144.00	1.000 Level 1	
18,100.00	9,255.00	17,976.26	9,110.00	208.67	208.35	-0.01	-771.86	8,883.36	144.00	-1.53	145.53	0.989 Level 1	
18,200.00	9,255.00	18,076.26	9,110.00	210.95	210.63	-0.01	-771.95	8,983.36	144.00	-3.06	147.06	0.979 Level 1	
18,300.00	9,255.00	18,176.26	9,110.00	213.23	212.92	-0.01	-772.03	9,083.36	144.00	-4.59	148.59	0.969 Level 1	
18,400.00	9,255.00	18,276.26	9,110.00	215.51	215.20	-0.01	-772.12	9,183.36	144.00	-6.12	150.12	0.959 Level 1	
18,500.00	9,255.00	18,376.26	9,110.00	217.79	217.48	-0.01	-772.21	9,283.36	144.00	-7.65	151.65	0.950 Level 1	
18,600.00	9,255.00	18,476.26	9,110.00	220.07	219.76	-0.01	-772.30	9,383.36	144.00	-9.18	153.18	0.940 Level 1	
18,700.00	9,255.00	18,576.26	9,110.00	222.35	222.05	0.00	-772.38	9,483.36	144.00	-10.72	154.72	0.931 Level 1	
18,800.00	9,255.00	18,676.26	9,110.00	224.64	224.33	0.00	-772.47	9,583.36	144.00	-12.25	156.25	0.922 Level 1	
18,900.00	9,255.00	18,776.26	9,110.00	226.92	226.62	0.00	-772.56	9,683.36	144.00	-13.78	157.78	0.913 Level 1	
19,000.00	9,255.00	18,876.26	9,110.00	229.20	228.90	0.00	-772.64	9,783.36	144.00	-15.32	159.32	0.904 Level 1	
19,100.00	9,255.00	18,976.26	9,110.00	231.49	231.19	0.00	-772.73	9,883.36	144.00	-16.85	160.85	0.895 Level 1	
19,200.00	9,255.00	19,076.26	9,110.00	233.77	233.47	0.00	-772.82	9,983.36	144.00	-18.39	162.39	0.887 Level 1	
19,300.00	9,255.00	19,176.26	9,110.00	236.06	235.76	0.00	-772.90	10,083.36	144.00	-19.93	163.93	0.878 Level 1	
19,400.00	9,255.00	19,276.26	9,110.00	238.34	238.05	0.00	-772.99	10,183.36	144.00	-21.47	165.47	0.870 Level 1	
19,411.49	9,255.00	19,287.75	9,110.00	238.60	238.31	0.00	-773.00	10,194.85	144.00	-21.64	165.64	0.869 Level 1, ES, SF	

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

Pro Directional Anticollision Report

Company: Matador Resources
Project: Eddy County, NM (NAD27)
Reference Site: Leatherneck 3029 Fed Com
Site Error: 0.00 usft
Reference Well: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	2.00	-2.00	0.00	0.00	15.26	110.00	30.00	114.02				
100.00	100.00	102.00	98.00	0.13	0.14	15.26	110.00	30.00	114.02	113.75	0.26	432.742	
200.00	200.00	202.00	198.00	0.49	0.49	15.26	110.00	30.00	114.02	113.04	0.98	116.295	
300.00	300.00	302.00	298.00	0.85	0.85	15.26	110.00	30.00	114.02	112.32	1.70	67.173	
400.00	400.00	402.00	398.00	1.20	1.21	15.26	110.00	30.00	114.02	111.60	2.41	47.226	
500.00	500.00	502.00	498.00	1.56	1.57	15.26	110.00	30.00	114.02	110.89	3.13	36.413	
600.00	600.00	602.00	598.00	1.92	1.93	15.26	110.00	30.00	114.02	110.17	3.85	29.629	
700.00	700.00	702.00	698.00	2.28	2.29	15.26	110.00	30.00	114.02	109.45	4.57	24.976	
800.00	800.00	802.00	798.00	2.64	2.64	15.26	110.00	30.00	114.02	108.74	5.28	21.586	
900.00	900.00	902.00	898.00	3.00	3.00	15.26	110.00	30.00	114.02	108.02	6.00	19.006	
1,000.00	1,000.00	1,002.00	998.00	3.35	3.36	15.26	110.00	30.00	114.02	107.30	6.72	16.977 CC, ES	
1,100.00	1,099.98	1,102.02	1,097.98	3.70	3.72	130.90	110.00	30.00	115.15	107.73	7.42	15.517	
1,200.00	1,199.92	1,202.08	1,197.92	4.04	4.08	132.19	110.00	30.00	117.47	109.35	8.12	14.471	
1,300.00	1,299.86	1,302.14	1,297.86	4.38	4.44	133.42	110.00	30.00	119.84	111.02	8.82	13.592	
1,400.00	1,399.80	1,402.20	1,397.80	4.72	4.80	134.61	110.00	30.00	122.27	112.75	9.52	12.844	
1,500.00	1,499.74	1,497.74	1,497.74	5.07	5.14	135.75	110.00	30.00	124.74	114.54	10.21	12.221	
1,600.00	1,599.68	1,604.02	1,595.96	5.42	5.51	137.50	110.00	31.60	127.88	116.96	10.93	11.705	
1,700.00	1,699.61	1,704.25	1,695.67	5.77	5.85	139.92	110.00	35.09	131.91	120.30	11.62	11.354	
1,800.00	1,799.55	1,804.48	1,795.38	6.12	6.20	142.19	110.00	38.57	136.16	123.85	12.31	11.058	
1,900.00	1,899.49	1,904.71	1,895.09	6.48	6.55	144.32	110.00	42.05	140.62	127.61	13.01	10.807	
2,000.00	1,999.43	2,004.95	1,994.79	6.83	6.90	146.32	110.00	45.53	145.25	131.54	13.71	10.593	
2,100.00	2,099.37	2,105.18	2,094.50	7.19	7.25	148.20	110.00	49.01	150.05	135.64	14.41	10.410	
2,200.00	2,199.31	2,205.41	2,194.21	7.54	7.60	149.96	110.00	52.50	155.01	139.89	15.12	10.253	
2,300.00	2,299.25	2,305.84	2,293.91	7.90	7.95	151.60	110.00	55.98	160.09	144.27	15.82	10.118	
2,400.00	2,399.19	2,405.88	2,393.62	8.25	8.31	153.15	110.00	59.46	165.31	148.78	16.53	10.001	
2,500.00	2,499.13	2,506.11	2,493.33	8.61	8.66	154.60	110.00	62.94	170.63	153.40	17.24	9.899	
2,600.00	2,599.03	2,606.37	2,593.00	8.97	9.02	-168.57	110.00	66.42	177.21	159.27	17.94	9.877	
2,700.00	2,698.77	2,706.78	2,692.54	9.32	9.37	-154.66	110.00	69.90	186.16	167.51	18.65	9.984	
2,800.00	2,798.24	2,807.44	2,791.82	9.67	9.73	-150.01	110.00	73.36	197.38	178.04	19.35	10.201	
2,900.00	2,897.62	2,908.19	2,891.00	10.03	10.09	-150.81	110.00	76.83	209.33	189.27	20.05	10.439	
3,000.00	2,996.99	2,991.05	2,990.18	10.39	10.38	-151.52	110.00	80.29	221.30	200.61	20.69	10.694	
3,100.00	3,096.37	3,097.56	3,096.66	10.75	10.75	-152.35	109.18	82.60	231.91	210.49	21.42	10.826	
3,200.00	3,195.74	3,205.40	3,204.44	11.11	11.12	-153.49	106.34	81.46	239.13	217.01	22.12	10.809	
3,300.00	3,295.12	3,313.48	3,312.31	11.48	11.47	-154.95	101.44	76.80	243.01	220.21	22.80	10.658	
3,400.00	3,394.49	3,414.85	3,413.29	11.84	11.81	-156.54	95.57	70.20	244.73	221.25	23.48	10.422	
3,500.00	3,493.87	3,514.61	3,512.67	12.21	12.14	-158.09	89.75	63.65	246.58	222.40	24.17	10.201	
3,600.00	3,593.24	3,614.37	3,612.05	12.58	12.47	-159.61	83.94	57.10	248.60	223.73	24.86	9.999	
3,700.00	3,692.61	3,714.13	3,711.42	12.95	12.81	-161.11	78.12	50.54	250.79	225.24	25.56	9.814	
3,800.00	3,791.99	3,813.90	3,810.80	13.33	13.14	-162.58	72.30	43.99	253.16	226.91	26.25	9.644	
3,900.00	3,891.36	3,913.66	3,910.17	13.70	13.48	-164.03	66.49	37.44	255.69	228.74	26.95	9.488	
4,000.00	3,990.74	4,013.42	4,009.55	14.07	13.83	-165.44	60.67	30.89	258.37	230.73	27.65	9.345	
4,100.00	4,090.11	4,113.18	4,108.93	14.45	14.17	-166.83	54.85	24.33	261.22	232.87	28.35	9.215	
4,200.00	4,189.49	4,212.94	4,208.30	14.83	14.52	-168.18	49.03	17.78	264.21	235.16	29.05	9.095	
4,300.00	4,288.86	4,312.70	4,307.68	15.20	14.87	-169.51	43.22	11.23	267.35	237.59	29.76	8.985	
4,400.00	4,388.24	4,412.46	4,407.05	15.58	15.22	-170.80	37.40	4.67	270.63	240.17	30.46	8.884	
4,500.00	4,487.61	4,512.23	4,506.43	15.96	15.57	-172.06	31.58	-1.88	274.04	242.87	31.17	8.792	
4,600.00	4,586.98	4,611.99	4,605.81	16.34	15.92	-173.29	25.77	-8.43	277.58	245.70	31.88	8.707	
4,700.00	4,686.36	4,711.75	4,705.18	16.72	16.28	-174.49	19.95	-14.99	281.25	248.66	32.59	8.630	
4,800.00	4,785.73	4,811.51	4,804.56	17.10	16.64	-175.65	14.13	-21.54	285.04	251.73	33.30	8.559	
4,900.00	4,885.11	4,911.27	4,903.93	17.48	16.99	-176.79	8.32	-28.09	288.94	254.92	34.02	8.494	
5,000.00	4,984.48	5,011.03	5,003.31	17.86	17.35	-177.90	2.50	-34.65	292.95	258.22	34.73	8.435	
5,100.00	5,083.86	5,110.79	5,102.68	18.25	17.71	-178.97	-3.32	-41.20	297.07	261.62	35.45	8.381	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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					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
5,200.00	5,183.23	5,210.56	5,202.06	18.63	18.07	179.98	-9.14	-47.75	301.29	265.12	36.17	8.331	
5,300.00	5,282.61	5,310.32	5,301.44	19.01	18.43	178.97	-14.95	-54.31	305.61	268.72	36.89	8.285	
5,400.00	5,381.98	5,410.08	5,400.81	19.40	18.79	177.98	-20.77	-60.86	310.02	272.42	37.61	8.244	
5,500.00	5,481.36	5,509.84	5,500.19	19.78	19.15	177.02	-26.59	-67.41	314.52	276.20	38.33	8.206	
5,600.00	5,580.73	5,609.60	5,599.56	20.16	19.51	176.09	-32.40	-73.96	319.11	280.06	39.05	8.172	
5,700.00	5,680.10	5,709.36	5,698.94	20.55	19.88	175.18	-38.22	-80.52	323.78	284.00	39.78	8.140	
5,800.00	5,779.48	5,809.12	5,798.32	20.93	20.24	174.30	-44.04	-87.07	328.53	288.03	40.50	8.111	
5,900.00	5,878.85	5,908.89	5,897.69	21.32	20.60	173.45	-49.85	-93.62	333.35	292.12	41.23	8.085	
6,000.00	5,978.23	6,008.65	5,997.07	21.71	20.97	172.62	-55.67	-100.18	338.25	296.29	41.96	8.062	
6,100.00	6,077.60	6,108.41	6,096.44	22.09	21.33	171.81	-61.49	-106.73	343.21	300.53	42.69	8.040	
6,200.00	6,176.98	6,208.17	6,195.82	22.48	21.70	171.03	-67.31	-113.28	348.24	304.83	43.42	8.021	
6,300.00	6,276.35	6,307.93	6,295.20	22.86	22.07	170.27	-73.12	-119.84	353.34	309.19	44.15	8.003	
6,400.00	6,375.73	6,407.69	6,394.57	23.25	22.43	169.53	-78.94	-126.39	358.49	313.61	44.88	7.988	
6,500.00	6,475.10	6,507.46	6,493.95	23.64	22.80	168.81	-84.76	-132.94	363.71	318.09	45.61	7.974	
6,600.00	6,574.48	6,607.22	6,593.32	24.02	23.17	168.11	-90.57	-139.50	368.97	322.63	46.35	7.961	
6,700.00	6,673.85	6,706.98	6,692.70	24.41	23.53	167.43	-96.39	-146.05	374.29	327.21	47.08	7.950	
6,800.00	6,773.22	6,803.38	6,788.75	24.80	23.89	166.83	-101.82	-152.17	379.86	332.06	47.81	7.946	
6,900.00	6,872.60	6,895.41	6,880.63	25.18	24.22	166.56	-105.35	-156.14	387.15	338.65	48.49	7.983	
7,000.00	6,971.97	6,987.18	6,972.36	25.57	24.55	166.64	-106.91	-157.90	396.42	347.27	49.16	8.065	
7,100.00	7,071.35	7,084.17	7,069.35	25.96	24.88	166.98	-107.00	-158.00	407.21	357.37	49.84	8.171	
7,200.00	7,170.72	7,183.54	7,168.72	26.35	25.22	167.32	-107.00	-158.00	418.10	367.56	50.54	8.273	
7,300.00	7,270.10	7,282.92	7,268.10	26.74	25.56	167.65	-107.00	-158.00	429.00	377.77	51.24	8.373	
7,400.00	7,369.47	7,382.29	7,367.47	27.12	25.90	167.96	-107.00	-158.00	439.92	387.98	51.94	8.470	
7,500.00	7,468.85	7,481.67	7,466.85	27.51	26.24	168.26	-107.00	-158.00	450.85	398.21	52.64	8.565	
7,600.00	7,568.22	7,581.04	7,566.22	27.90	26.58	168.54	-107.00	-158.00	461.80	408.45	53.34	8.657	
7,700.00	7,667.59	7,680.41	7,665.59	28.29	26.92	168.81	-107.00	-158.00	472.75	418.70	54.05	8.747	
7,800.00	7,766.97	7,779.79	7,764.97	28.68	27.26	169.06	-107.00	-158.00	483.71	428.96	54.75	8.835	
7,900.00	7,866.34	7,879.16	7,864.34	29.07	27.60	169.31	-107.00	-158.00	494.68	439.23	55.46	8.920	
8,000.00	7,965.72	7,978.54	7,963.72	29.46	27.94	169.54	-107.00	-158.00	505.66	449.50	56.16	9.004	
8,100.00	8,065.09	8,077.91	8,063.09	29.84	28.28	169.77	-107.00	-158.00	516.65	459.78	56.87	9.085	
8,200.00	8,164.47	8,177.29	8,162.47	30.23	28.63	169.98	-107.00	-158.00	527.64	470.07	57.57	9.165	
8,300.00	8,263.97	8,276.79	8,261.97	30.62	28.97	170.20	-107.00	-158.00	537.43	479.15	58.28	9.222	
8,400.00	8,363.75	8,376.57	8,361.75	30.99	29.31	170.33	-107.00	-158.00	543.84	484.85	58.98	9.220	
8,500.00	8,463.70	8,476.52	8,461.70	31.34	29.66	170.40	-107.00	-158.00	546.81	487.12	59.68	9.162	
8,600.00	8,563.70	8,576.52	8,561.70	31.66	30.00	0.63	-107.00	-158.00	547.03	486.67	60.36	9.062	
8,700.00	8,663.70	8,676.52	8,661.70	31.97	30.35	0.63	-107.00	-158.00	547.03	485.99	61.04	8.962	
8,800.00	8,763.42	8,776.24	8,761.42	32.29	30.70	-98.09	-107.00	-158.00	547.83	486.11	61.72	8.876	
8,900.00	8,860.67	8,873.49	8,858.67	32.60	31.03	-100.00	-107.00	-158.00	551.52	489.12	62.41	8.838	
9,000.00	8,952.49	8,965.31	8,950.49	32.88	31.35	-102.82	-107.00	-158.00	560.03	496.95	63.07	8.879	
9,100.00	9,036.10	9,048.91	9,034.10	33.12	31.64	-105.75	-107.00	-158.00	576.11	512.40	63.71	9.042	
9,200.00	9,108.94	9,121.76	9,106.94	33.32	31.89	-107.92	-107.00	-158.00	602.63	538.32	64.31	9.370	
9,300.00	9,168.81	9,181.63	9,166.81	33.50	32.10	-108.44	-107.00	-158.00	641.54	576.70	64.85	9.893	
9,400.00	9,213.90	9,226.72	9,211.90	33.70	32.26	-106.50	-107.00	-158.00	693.27	627.98	65.29	10.618	
9,500.00	9,242.82	9,255.64	9,240.82	34.07	32.36	-101.28	-107.00	-158.00	756.53	690.92	65.62	11.530	
9,600.00	9,254.70	9,267.52	9,252.70	34.66	32.40	-92.12	-107.00	-158.00	828.74	762.92	65.81	12.592	
9,700.00	9,255.00	9,267.82	9,253.00	35.41	32.40	-90.00	-107.00	-158.00	906.01	840.09	65.92	13.743	
9,800.00	9,255.00	10,484.73	9,972.73	36.29	37.66	-138.06	-107.36	584.87	968.84	910.55	58.29	16.622	
9,900.00	9,255.00	10,584.54	9,972.60	37.28	38.60	-137.73	-107.41	684.68	972.88	913.09	59.80	16.270	
10,000.00	9,255.00	10,684.50	9,972.47	38.38	39.64	-137.58	-107.46	784.63	974.59	913.22	61.37	15.880	
10,100.00	9,255.00	10,784.50	9,972.34	39.57	40.79	-137.57	-107.50	884.63	974.60	911.58	63.02	15.465	
10,200.00	9,255.00	10,884.50	9,972.20	40.86	42.04	-137.56	-107.55	984.63	974.53	909.73	64.79	15.041	
10,300.00	9,255.00	10,984.50	9,972.07	42.24	43.37	-137.55	-107.60	1,084.63	974.45	907.77	66.68	14.613	

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
10,400.00	9,255.00	11,084.50	9,971.94	43.69	44.78	-137.55	-107.65	1,184.63	974.38	905.70	68.68	14.186			
10,500.00	9,255.00	11,184.50	9,971.81	45.22	46.26	-137.54	-107.70	1,284.63	974.31	903.52	70.79	13.764			
10,600.00	9,255.00	11,284.50	9,971.67	46.81	47.81	-137.53	-107.75	1,384.63	974.23	901.26	72.98	13.350			
10,700.00	9,255.00	11,384.49	9,971.54	48.45	49.42	-137.53	-107.79	1,484.63	974.16	898.91	75.25	12.945			
10,800.00	9,255.00	11,484.49	9,971.41	50.15	51.08	-137.52	-107.84	1,584.63	974.09	896.49	77.60	12.552			
10,900.00	9,255.00	11,584.49	9,971.28	51.90	52.80	-137.51	-107.89	1,684.63	974.02	893.99	80.02	12.172			
11,000.00	9,255.00	11,684.49	9,971.14	53.69	54.55	-137.51	-107.94	1,784.63	973.94	891.44	82.51	11.804			
11,100.00	9,255.00	11,784.49	9,971.01	55.52	56.35	-137.50	-107.99	1,884.63	973.87	888.82	85.05	11.451			
11,200.00	9,255.00	11,884.49	9,970.88	57.38	58.18	-137.49	-108.04	1,984.63	973.80	886.15	87.65	11.111			
11,300.00	9,255.00	11,984.49	9,970.75	59.28	60.04	-137.49	-108.08	2,084.63	973.72	883.44	90.29	10.785			
11,400.00	9,255.00	12,084.49	9,970.61	61.20	61.93	-137.48	-108.13	2,184.63	973.65	880.67	92.98	10.472			
11,500.00	9,255.00	12,184.49	9,970.48	63.15	63.86	-137.47	-108.18	2,284.63	973.58	877.87	95.71	10.173			
11,600.00	9,255.00	12,284.49	9,970.35	65.12	65.80	-137.47	-108.23	2,384.63	973.51	875.03	98.47	9.886			
11,700.00	9,255.00	12,384.49	9,970.22	67.11	67.77	-137.46	-108.28	2,484.63	973.43	872.16	101.27	9.612			
11,800.00	9,255.00	12,484.49	9,970.08	69.12	69.76	-137.45	-108.32	2,584.63	973.36	869.25	104.11	9.350			
11,900.00	9,255.00	12,584.49	9,969.95	71.15	71.77	-137.45	-108.37	2,684.63	973.29	866.32	106.97	9.099			
12,000.00	9,255.00	12,684.49	9,969.82	73.20	73.80	-137.44	-108.42	2,784.63	973.22	863.36	109.86	8.859			
12,100.00	9,255.00	12,784.49	9,969.69	75.26	75.84	-137.43	-108.47	2,884.63	973.14	860.37	112.77	8.629			
12,200.00	9,255.00	12,884.49	9,969.55	77.34	77.90	-137.42	-108.52	2,984.63	973.07	857.36	115.71	8.410			
12,300.00	9,255.00	12,984.49	9,969.42	79.43	79.97	-137.42	-108.57	3,084.63	973.00	854.33	118.67	8.199			
12,400.00	9,255.00	13,084.49	9,969.29	81.53	82.05	-137.41	-108.61	3,184.63	972.92	851.28	121.65	7.998			
12,500.00	9,255.00	13,184.49	9,969.16	83.64	84.15	-137.40	-108.66	3,284.63	972.85	848.21	124.64	7.805			
12,600.00	9,255.00	13,284.49	9,969.02	85.76	86.25	-137.40	-108.71	3,384.63	972.78	845.12	127.66	7.620			
12,700.00	9,255.00	13,384.49	9,968.89	87.90	88.37	-137.39	-108.76	3,484.63	972.71	842.02	130.69	7.443			
12,800.00	9,255.00	13,484.49	9,968.76	90.04	90.50	-137.38	-108.81	3,584.63	972.63	838.90	133.74	7.273			
12,900.00	9,255.00	13,584.49	9,968.62	92.18	92.63	-137.38	-108.86	3,684.63	972.56	835.76	136.80	7.109			
13,000.00	9,255.00	13,684.49	9,968.49	94.34	94.77	-137.37	-108.90	3,784.63	972.49	832.62	139.87	6.953			
13,100.00	9,255.00	13,784.49	9,968.36	96.50	96.92	-137.36	-108.95	3,884.63	972.42	829.46	142.96	6.802			
13,200.00	9,255.00	13,884.49	9,968.23	98.67	99.08	-137.36	-109.00	3,984.63	972.34	826.29	146.06	6.657			
13,300.00	9,255.00	13,984.49	9,968.09	100.85	101.24	-137.35	-109.05	4,084.63	972.27	823.11	149.17	6.518			
13,400.00	9,255.00	14,084.49	9,967.96	103.03	103.42	-137.34	-109.10	4,184.63	972.20	819.91	152.29	6.384			
13,500.00	9,255.00	14,184.49	9,967.83	105.22	105.59	-137.33	-109.15	4,284.63	972.13	816.71	155.42	6.255			
13,600.00	9,255.00	14,284.49	9,967.70	107.41	107.77	-137.33	-109.19	4,384.63	972.05	813.50	158.55	6.131			
13,700.00	9,255.00	14,384.49	9,967.56	109.60	109.96	-137.32	-109.24	4,484.63	971.98	810.28	161.70	6.011			
13,800.00	9,255.00	14,484.49	9,967.43	111.81	112.15	-137.31	-109.29	4,584.63	971.91	807.05	164.86	5.895			
13,900.00	9,255.00	14,584.49	9,967.30	114.01	114.35	-137.31	-109.34	4,684.63	971.84	803.81	168.02	5.784			
14,000.00	9,255.00	14,684.49	9,967.17	116.22	116.55	-137.30	-109.39	4,784.63	971.76	800.57	171.19	5.676			
14,100.00	9,255.00	14,784.49	9,967.03	118.43	118.75	-137.29	-109.44	4,884.63	971.69	797.32	174.37	5.572			
14,200.00	9,255.00	14,884.49	9,966.90	120.65	120.96	-137.29	-109.48	4,984.63	971.62	794.06	177.56	5.472			
14,300.00	9,255.00	14,984.49	9,966.77	122.87	123.18	-137.28	-109.53	5,084.63	971.55	790.80	180.75	5.375			
14,400.00	9,255.00	15,084.49	9,966.64	125.09	125.39	-137.27	-109.58	5,184.62	971.47	787.52	183.95	5.281			
14,500.00	9,255.00	15,184.49	9,966.50	127.32	127.61	-137.27	-109.63	5,284.62	971.40	784.25	187.15	5.190			
14,600.00	9,255.00	15,284.49	9,966.37	129.55	129.83	-137.26	-109.68	5,384.62	971.33	780.97	190.36	5.102			
14,700.00	9,255.00	15,384.49	9,966.24	131.78	132.06	-137.25	-109.73	5,484.62	971.26	777.68	193.58	5.017			
14,800.00	9,255.00	15,484.49	9,966.11	134.02	134.29	-137.25	-109.77	5,584.62	971.18	774.39	196.80	4.935			
14,900.00	9,255.00	15,584.49	9,965.97	136.25	136.52	-137.24	-109.82	5,684.62	971.11	771.09	200.02	4.855			
15,000.00	9,255.00	15,684.49	9,965.84	138.49	138.75	-137.23	-109.87	5,784.62	971.04	767.79	203.25	4.777			
15,100.00	9,255.00	15,784.49	9,965.71	140.74	140.99	-137.22	-109.92	5,884.62	970.97	764.48	206.49	4.702			
15,200.00	9,255.00	15,884.49	9,965.58	142.98	143.22	-137.22	-109.97	5,984.62	970.90	761.17	209.73	4.629			
15,300.00	9,255.00	15,984.49	9,965.44	145.23	145.46	-137.21	-110.02	6,084.62	970.82	757.85	212.97	4.558			
15,400.00	9,255.00	16,084.49	9,965.31	147.47	147.71	-137.20	-110.06	6,184.62	970.75	754.53	216.22	4.490			
15,500.00	9,255.00	16,184.49	9,965.18	149.72	149.95	-137.20	-110.11	6,284.62	970.68	751.21	219.47	4.423			

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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (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		Minimum		Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Tooface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	9,255.00	16,284.49	9,965.05	151.97	152.20	-137.19	-110.16	6,384.62	970.61	747.88	222.73	4.358	
15,700.00	9,255.00	16,384.49	9,964.91	154.23	154.45	-137.18	-110.21	6,484.62	970.53	744.55	225.98	4.295	
15,800.00	9,255.00	16,484.49	9,964.78	156.48	156.70	-137.18	-110.26	6,584.62	970.46	741.22	229.25	4.233	
15,900.00	9,255.00	16,584.49	9,964.65	158.74	158.95	-137.17	-110.31	6,684.62	970.39	737.88	232.51	4.173	
16,000.00	9,255.00	16,684.49	9,964.52	161.00	161.20	-137.16	-110.35	6,784.62	970.32	734.54	235.78	4.115	
16,100.00	9,255.00	16,784.49	9,964.38	163.26	163.46	-137.16	-110.40	6,884.62	970.25	731.19	239.05	4.059	
16,200.00	9,255.00	16,884.49	9,964.25	165.52	165.71	-137.15	-110.45	6,984.62	970.17	727.85	242.33	4.004	
16,300.00	9,255.00	16,984.49	9,964.12	167.78	167.97	-137.14	-110.50	7,084.62	970.10	724.49	245.61	3.950	
16,400.00	9,255.00	17,084.49	9,963.99	170.04	170.23	-137.13	-110.55	7,184.62	970.03	721.14	248.89	3.897	
16,500.00	9,255.00	17,184.49	9,963.85	172.31	172.49	-137.13	-110.60	7,284.62	969.96	717.79	252.17	3.846	
16,600.00	9,255.00	17,284.49	9,963.72	174.57	174.75	-137.12	-110.64	7,384.62	969.89	714.43	255.46	3.797	
16,700.00	9,255.00	17,384.49	9,963.59	176.84	177.01	-137.11	-110.69	7,484.62	969.81	711.07	258.75	3.748	
16,800.00	9,255.00	17,484.49	9,963.46	179.11	179.28	-137.11	-110.74	7,584.62	969.74	707.70	262.04	3.701	
16,900.00	9,255.00	17,584.49	9,963.32	181.37	181.54	-137.10	-110.79	7,684.62	969.67	704.34	265.33	3.655	
17,000.00	9,255.00	17,684.49	9,963.19	183.64	183.81	-137.09	-110.84	7,784.62	969.60	700.97	268.63	3.609	
17,100.00	9,255.00	17,784.49	9,963.06	185.91	186.08	-137.09	-110.89	7,884.62	969.53	697.60	271.93	3.565	
17,200.00	9,255.00	17,884.49	9,962.93	188.19	188.34	-137.08	-110.93	7,984.62	969.45	694.22	275.23	3.522	
17,300.00	9,255.00	17,984.49	9,962.79	190.46	190.61	-137.07	-110.98	8,084.62	969.38	690.85	278.53	3.480	
17,400.00	9,255.00	18,084.49	9,962.66	192.73	192.88	-137.07	-111.03	8,184.62	969.31	687.47	281.84	3.439	
17,500.00	9,255.00	18,184.49	9,962.53	195.01	195.15	-137.06	-111.08	8,284.62	969.24	684.09	285.15	3.399	
17,600.00	9,255.00	18,284.49	9,962.40	197.28	197.43	-137.05	-111.13	8,384.62	969.17	680.71	288.46	3.360	
17,700.00	9,255.00	18,384.49	9,962.26	199.56	199.70	-137.04	-111.18	8,484.62	969.09	677.32	291.77	3.321	
17,800.00	9,255.00	18,484.49	9,962.13	201.83	201.97	-137.04	-111.22	8,584.62	969.02	673.94	295.08	3.284	
17,900.00	9,255.00	18,584.49	9,962.00	204.11	204.25	-137.03	-111.27	8,684.62	968.95	670.55	298.40	3.247	
18,000.00	9,255.00	18,684.49	9,961.87	206.39	206.52	-137.02	-111.32	8,784.62	968.88	667.16	301.72	3.211	
18,100.00	9,255.00	18,784.49	9,961.73	208.67	208.80	-137.02	-111.37	8,884.62	968.81	663.77	305.04	3.176	
18,200.00	9,255.00	18,884.49	9,961.60	210.95	211.07	-137.01	-111.42	8,984.62	968.73	660.37	308.36	3.142	
18,300.00	9,255.00	18,984.49	9,961.47	213.23	213.35	-137.00	-111.47	9,084.62	968.66	656.98	311.68	3.108	
18,400.00	9,255.00	19,084.49	9,961.34	215.51	215.63	-137.00	-111.51	9,184.62	968.59	653.58	315.01	3.075	
18,500.00	9,255.00	19,184.49	9,961.20	217.79	217.91	-136.99	-111.56	9,284.62	968.52	650.18	318.34	3.042	
18,600.00	9,255.00	19,284.49	9,961.07	220.07	220.19	-136.98	-111.61	9,384.62	968.45	646.78	321.67	3.011	
18,700.00	9,255.00	19,384.49	9,960.94	222.35	222.47	-136.98	-111.66	9,484.62	968.38	643.38	325.00	2.980	
18,800.00	9,255.00	19,484.49	9,960.81	224.64	224.75	-136.97	-111.71	9,584.62	968.30	639.98	328.33	2.949	
18,900.00	9,255.00	19,584.49	9,960.67	226.92	227.03	-136.96	-111.75	9,684.62	968.23	636.57	331.66	2.919	
19,000.00	9,255.00	19,684.49	9,960.54	229.20	229.31	-136.95	-111.80	9,784.62	968.16	633.16	335.00	2.890	
19,100.00	9,255.00	19,784.49	9,960.41	231.49	231.59	-136.95	-111.85	9,884.62	968.09	629.75	338.33	2.861	
19,200.00	9,255.00	19,884.49	9,960.28	233.77	233.87	-136.94	-111.90	9,984.62	968.02	626.34	341.67	2.833	
19,300.00	9,255.00	19,984.49	9,960.14	236.06	236.16	-136.93	-111.95	10,084.62	967.94	622.93	345.01	2.806	
19,400.00	9,255.00	20,084.49	9,960.01	238.34	238.44	-136.93	-112.00	10,184.62	967.87	619.52	348.35	2.778	
19,411.49	9,255.00	20,095.97	9,959.99	238.60	238.70	-136.93	-112.00	10,196.10	967.86	619.13	348.73	2.775 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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

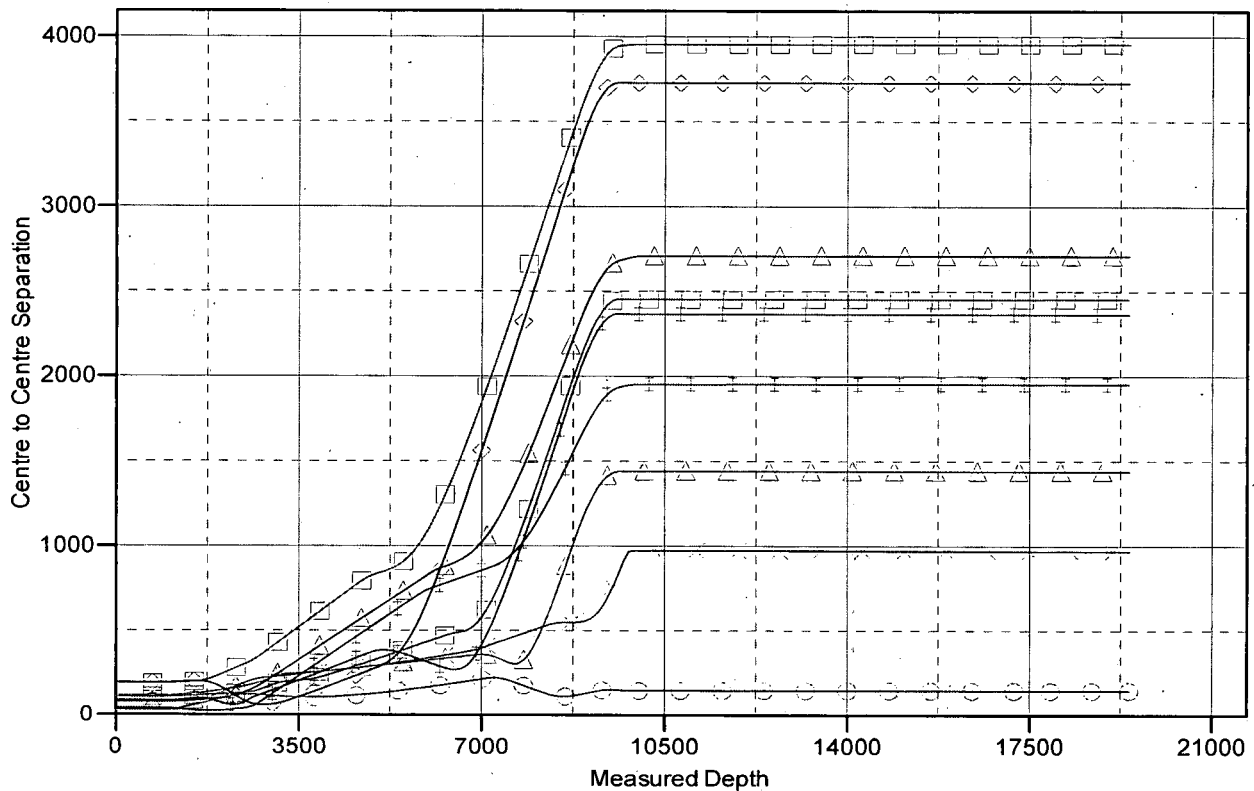
Reference Depths are relative to 3241 + 28.5 = KB @ 3269.50usft (Pat Coordinates are relative to: #206H)

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

#120H, OH, Prelim A VO #242H, OH, Prelim A VO #130H, OH, Prelim A VO
 #110H, OH, Prelim A VO #125H, OH, Prelim A VO #105H, OH, Prelim A VO
 #115H, OH, Prelim A VO #112H, OH, Prelim A VO #100H, 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: #206H
Well Error: 0.00 usft
Reference Wellbore: OH
Reference Design: Prelim A

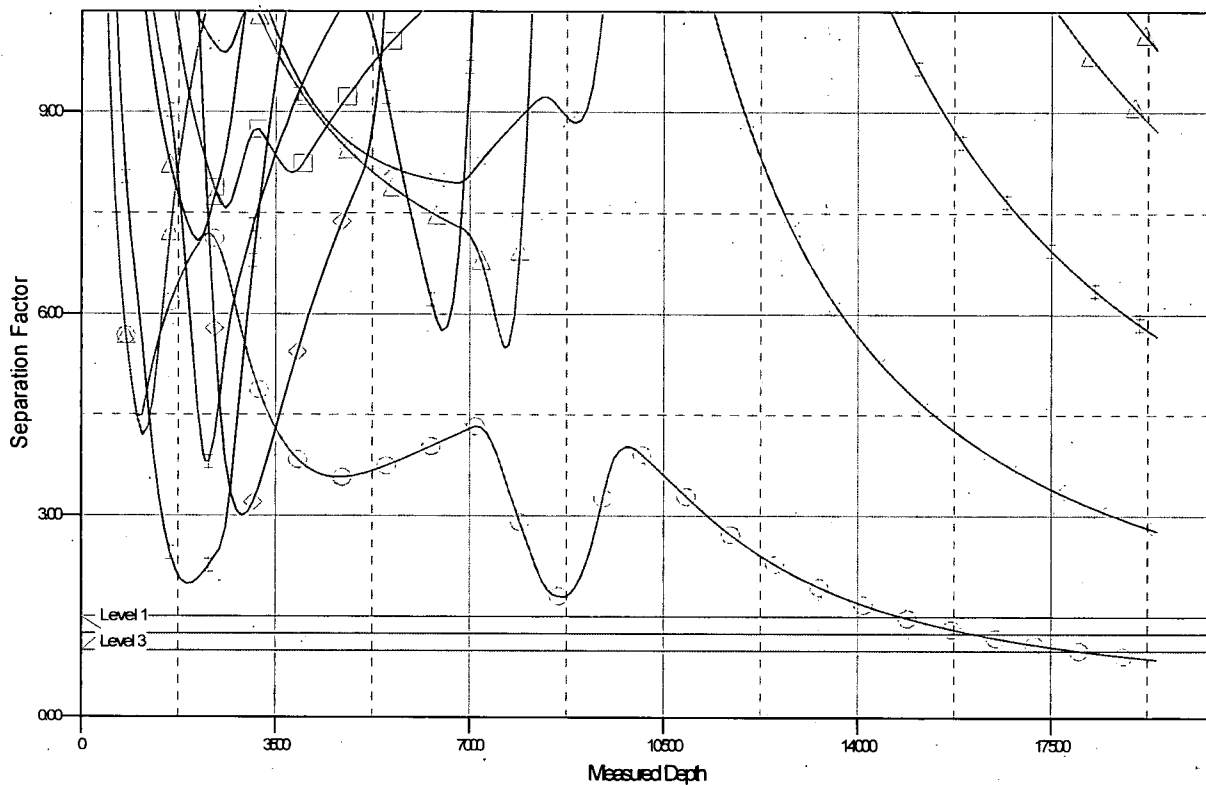
Local Co-ordinate Reference: Well #206H
TVD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
MD Reference: 3241 + 28.5 = KB @ 3269.50usft (Patt 809)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: WellPlanner1
Offset TVD Reference: Offset Datum

Reference Depths are relative to 3241 + 28.5 = KB @ 3269.50usft (Pat Coordinates are relative to: #206H)

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

#126H, OH, Prelim A VO	#242H, OH, Prelim A VO	#130H, OH, Prelim A VO
#110H, OH, Prelim A VO	#125H, OH, Prelim A VO	#105H, OH, Prelim A VO
#115H, OH, Prelim A VO	#112H, OH, Prelim A VO	#109H, OH, Prelim A VO