

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011

Permit 346798

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-015-54056
4. Property Code 333122	5. Property Name BARRY MILLER STATE COM	6. Well No. 221H

**7. Surface Location**

UL - Lot D	Section 16	Township 22S	Range 28E	Lot Idn	Feet From 855	N/S Line N	Feet From 430	E/W Line W	County Eddy
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**8. Proposed Bottom Hole Location**

UL - Lot C	Section 15	Township 22S	Range 28E	Lot Idn C	Feet From 660	N/S Line N	Feet From 2329	E/W Line W	County Eddy
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**9. Pool Information**

PURPLE SAGE;WOLFCAMP (GAS)	98220
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**Additional Well Information**

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3085
16. Multiple N	17. Proposed Depth 17218	18. Formation Wolfcamp	19. Contractor	20. Spud Date 5/7/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	380	0
Int1	9.875	7.625	29.7	9172	800	0
Prod	6.75	5.5	20	17218	950	8972

**Casing/Cement Program: Additional Comments**

Option to drill surface hole with surface setting rig Option to run DV tool and Packer.
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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	3000	Cameron
Double Ram	10000	5000	Cameron
Pipe	10000	5000	Cameron

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.	<b>OIL CONSERVATION DIVISION</b>	
Signature:		
Printed Name: Electronically filed by Brett A Jennings	Approved By: Ward Rikala	
Title: Regulatory Analyst	Title:	
Email Address: brett.jennings@matadorresources.com	Approved Date: 8/15/2023	Expiration Date: 8/15/2025
Date: 8/7/2023	Phone: 972-629-2160	Conditions of Approval Attached

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State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30-015-54056</b>		<sup>2</sup> Pool Code <b>98220</b>	<sup>3</sup> Pool Name <b>Purple Sage; Wolfcamp (Gas)</b>
<sup>4</sup> Property Code <b>333122</b>	<sup>5</sup> Property Name <b>BARRY MILLER STATE COM</b>		<sup>6</sup> Well Number <b>221H</b>
<sup>7</sup> OGRID No. <b>228937</b>	<sup>8</sup> Operator Name <b>MATADOR PRODUCTION COMPANY</b>		<sup>9</sup> Elevation <b>3085'</b>

<sup>10</sup>Surface Location

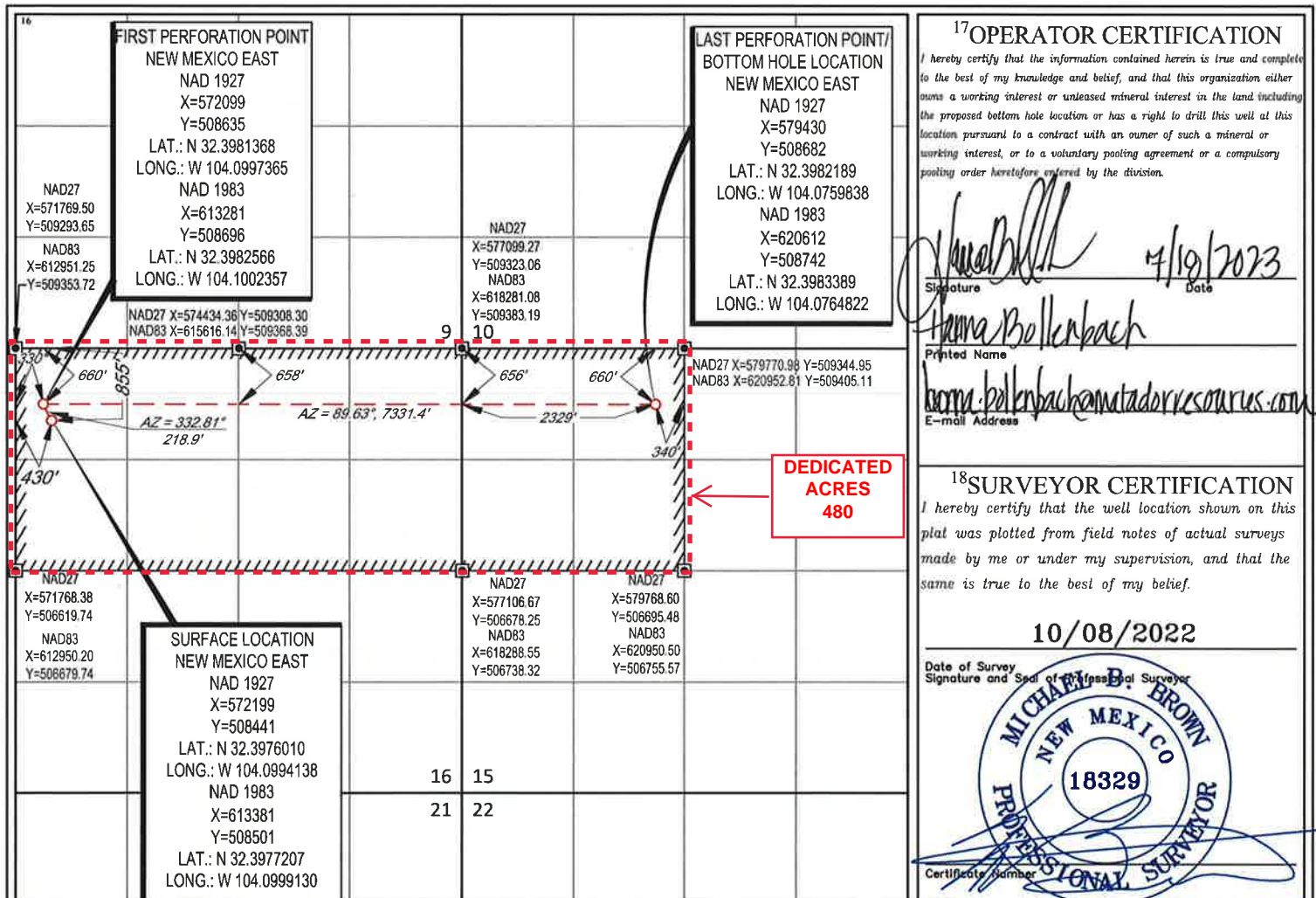
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>16</b>	<b>22-S</b>	<b>28-E</b>	<b>-</b>	<b>855'</b>	<b>NORTH</b>	<b>430'</b>	<b>WEST</b>	<b>EDDY</b>

<sup>11</sup>Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>C</b>	<b>15</b>	<b>22-S</b>	<b>28-E</b>	<b>-</b>	<b>660'</b>	<b>NORTH</b>	<b>2329'</b>	<b>WEST</b>	<b>EDDY</b>

<sup>12</sup> Dedicated Acres <b>480</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code <b>C</b>	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 346798

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-54056
	Well: BARRY MILLER STATE COM #221H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

# **Matador Production Company**

**Rustler Breaks**

**Barry Miller**

**Barry Miller State Com #221H**

**Wellbore #1**

**BLM Plan #1**

## **Anticollision Report**

**19 July, 2023**



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

<b>Reference</b>	BLM Plan #1		
<b>Filter type:</b>	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
<b>Interpolation Method:</b>	Stations	<b>Error Model:</b>	ISCWSA
<b>Depth Range:</b>	Unlimited	<b>Scan Method:</b>	Closest Approach 3D
<b>Results Limited by:</b>	Maximum center-center distance of 10,000.0 usft	<b>Error Surface:</b>	Pedal Curve
<b>Warning Levels Evaluated at:</b>	2.00 Sigma	<b>Casing Method:</b>	Not applied

<b>Survey Tool Program</b>	<b>Date</b>	7/19/2023		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
0.0	17,218.0	BLM Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

<b>Summary</b>						
<b>Site Name</b>	<b>Reference Measured Depth (usft)</b>	<b>Offset Measured Depth (usft)</b>	<b>Distance Between Centres (usft)</b>	<b>Distance Between Ellipses (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Offset Well - Wellbore - Design</b>						
Barry Miller						
Barry Miller State Com #121H - Wellbore #1 - Actual	1,224.5	1,229.2	71.5	63.2	8.679	CC, ES, SF
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	7,495.1	7,491.8	74.8	20.6	1.381	Level 3, CC
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	7,500.0	7,496.7	74.8	20.6	1.381	Level 3, ES, SF
Barry Miller State Com #122H - Wellbore #1 - Actual	1,068.6	1,068.1	87.9	80.8	12.410	CC, ES
Barry Miller State Com #122H - Wellbore #1 - Actual	17,218.0	15,426.4	2,310.6	2,076.9	9.889	SF
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	1,000.0	999.0	114.3	107.6	17.052	CC
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	1,100.0	1,097.4	115.0	107.6	15.542	ES
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	17,218.7	15,513.6	2,328.4	2,093.5	9.913	SF
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,536.9	1,536.6	17.7	7.3	1.697	CC, ES
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,600.0	1,599.3	18.5	7.6	1.696	SF
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,500.0	1,501.0	42.4	32.1	4.120	CC
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,600.0	1,601.0	42.7	31.7	3.879	ES
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,800.0	1,801.1	45.5	33.1	3.663	SF
Barry Miller State Com #201H - Wellbore #1 - State Plan	1,897.2	1,902.1	39.4	26.3	2.995	CC
Barry Miller State Com #201H - Wellbore #1 - State Plan	1,900.0	1,904.8	39.4	26.3	2.991	ES
Barry Miller State Com #201H - Wellbore #1 - State Plan	2,000.0	2,004.7	40.7	26.8	2.925	SF
Barry Miller State Com #202H - Wellbore #1 - State Plan	0.0	0.0	85.7			
Barry Miller State Com #202H - Wellbore #1 - State Plan	17,218.0	16,711.6	1,145.7	819.5	3.512	SF
Barry Miller State Com #222H - Wellbore #1 - BLM Plan	1,516.9	1,517.2	28.3	17.9	2.734	CC, ES
Barry Miller State Com #222H - Wellbore #1 - BLM Plan	1,600.0	1,600.1	29.3	18.4	2.686	SF

<b>Offset Design</b>												
Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Actual												
Survey Program: 163-MWD												
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
0.0	0.0	0.0	0.0	0.0	0.0	179.87	-110.2	0.2	110.2			
100.0	100.0	99.3	99.3	0.1	0.1	179.90	-110.1	0.2	110.1	109.8	0.28	399,505
200.0	200.0	199.5	199.5	0.5	0.4	179.98	-109.7	0.0	109.7	108.9	0.86	127,775
300.0	300.0	300.1	300.1	0.8	0.7	-179.84	-109.1	-0.3	109.1	107.5	1.58	69,100
400.0	400.0	401.4	401.4	1.2	1.1	-179.26	-107.4	-1.4	107.5	105.2	2.30	46,660
500.0	500.0	502.4	502.3	1.6	1.5	-178.42	-104.6	-2.9	104.7	101.6	3.03	34,589
600.0	600.0	602.3	602.2	1.9	1.8	-177.35	-101.4	-4.7	101.5	97.8	3.74	27,127
700.0	700.0	702.5	702.2	2.3	2.2	-176.19	-98.0	-6.5	98.3	93.8	4.46	22,036

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

## Anticollision Report

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<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 163-MWD													Offset Well Error:	0.0 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		
800.0	800.0	803.1	802.8	2.6	2.5	-174.91	-94.4	-8.4	94.8	89.6	5.18	18,298		
900.0	900.0	904.1	903.7	3.0	2.9	-173.48	-89.5	-10.2	90.2	84.3	5.91	15,267		
1,000.0	1,000.0	1,004.4	1,003.8	3.4	3.3	-172.02	-83.7	-11.7	84.7	78.1	6.62	12,783		
1,100.0	1,100.0	1,104.3	1,103.5	3.7	3.6	-170.74	-77.8	-12.7	79.0	71.7	7.34	10,759		
1,200.0	1,200.0	1,204.6	1,203.6	4.1	4.0	-169.50	-71.7	-13.3	73.1	65.0	8.06	9,063		
1,224.5	1,224.5	1,229.2	1,228.1	4.2	4.1	-169.26	-70.1	-13.3	71.5	63.2	8.24	8,679 CC, ES, SF		
1,300.0	1,300.0	1,220.0	1,219.0	4.4	4.1	-169.35	-70.7	-13.3	107.6	100.3	7.29	14,766		
1,400.0	1,400.0	1,220.0	1,219.0	4.8	4.1	-169.35	-70.7	-13.3	193.9	187.3	6.57	29,499		
1,500.0	1,500.0	1,220.0	1,219.0	5.1	4.1	-169.35	-70.7	-13.3	289.1	282.8	6.31	45,782		
1,600.0	1,600.0	1,220.0	1,219.0	5.5	4.1	-101.90	-70.7	-13.3	386.8	380.6	6.17	62,660		
1,700.0	1,700.0	1,220.0	1,219.0	5.9	4.1	-95.81	-70.7	-13.3	485.5	479.4	6.07	79,957		
1,800.0	1,799.9	1,220.0	1,219.0	6.2	4.1	-88.14	-70.7	-13.3	584.6	578.7	5.99	97,615		
1,900.0	1,899.7	1,220.0	1,219.0	6.6	4.1	-79.14	-70.7	-13.3	684.0	678.1	5.92	115,597		
2,000.0	1,999.4	1,220.0	1,219.0	6.9	4.1	-69.36	-70.7	-13.3	783.6	777.7	5.85	133,864		
2,100.0	2,098.9	1,220.0	1,219.0	7.3	4.1	-59.61	-70.7	-13.3	883.1	877.3	5.80	152,380		
2,200.0	2,198.3	1,220.0	1,219.0	7.6	4.1	-50.60	-70.7	-13.3	982.7	977.0	5.74	171,100		
2,300.0	2,297.4	1,220.0	1,219.0	8.0	4.1	-42.76	-70.7	-13.3	1,082.3	1,076.6	5.70	189,976		
2,400.0	2,396.4	1,220.0	1,219.0	8.4	4.1	-42.76	-70.7	-13.3	1,181.9	1,176.2	5.66	208,939		
2,500.0	2,495.5	1,220.0	1,219.0	8.8	4.1	-42.76	-70.7	-13.3	1,281.6	1,275.9	5.62	227,955		
2,600.0	2,594.5	1,220.0	1,219.0	9.2	4.1	-42.76	-70.7	-13.3	1,381.3	1,375.7	5.59	247,003		
2,700.0	2,693.5	1,220.0	1,219.0	9.5	4.1	-42.76	-70.7	-13.3	1,481.0	1,475.4	5.57	266,024		
2,800.0	2,792.5	1,220.0	1,219.0	9.9	4.1	-42.76	-70.7	-13.3	1,580.8	1,575.2	5.55	284,949		
2,900.0	2,891.6	1,220.0	1,219.0	10.3	4.1	-42.76	-70.7	-13.3	1,680.6	1,675.1	5.53	303,712		
3,000.0	2,990.6	1,220.0	1,219.0	10.7	4.1	-42.76	-70.7	-13.3	1,780.4	1,774.9	5.53	322,238		
3,100.0	3,089.6	1,220.0	1,219.0	11.1	4.1	-42.76	-70.7	-13.3	1,880.3	1,874.7	5.52	340,457		
3,200.0	3,188.6	1,220.0	1,219.0	11.5	4.1	-42.76	-70.7	-13.3	1,980.1	1,974.6	5.53	358,296		
3,300.0	3,287.7	1,220.0	1,219.0	11.9	4.1	-42.76	-70.7	-13.3	2,080.0	2,074.5	5.54	375,685		
3,400.0	3,386.7	1,220.0	1,219.0	12.3	4.1	-42.76	-70.7	-13.3	2,179.9	2,174.3	5.55	392,560		
3,500.0	3,485.7	1,220.0	1,219.0	12.7	4.1	-42.76	-70.7	-13.3	2,279.8	2,274.2	5.58	408,861		
3,600.0	3,584.8	1,220.0	1,219.0	13.1	4.1	-42.76	-70.7	-13.3	2,379.7	2,374.1	5.61	424,536		
3,700.0	3,683.8	1,220.0	1,219.0	13.5	4.1	-42.76	-70.7	-13.3	2,479.6	2,474.0	5.64	439,542		
3,800.0	3,782.8	1,220.0	1,219.0	13.9	4.1	-42.76	-70.7	-13.3	2,579.5	2,573.8	5.68	453,843		
3,900.0	3,881.8	1,220.0	1,219.0	14.4	4.1	-42.76	-70.7	-13.3	2,679.4	2,673.7	5.73	467,413		
4,000.0	3,980.9	1,220.0	1,219.0	14.8	4.1	-42.76	-70.7	-13.3	2,779.4	2,773.6	5.79	480,236		
4,100.0	4,079.9	1,220.0	1,219.0	15.2	4.1	-42.76	-70.7	-13.3	2,879.3	2,873.5	5.85	492,302		
4,200.0	4,178.9	1,220.0	1,219.0	15.6	4.1	-42.76	-70.7	-13.3	2,979.3	2,973.3	5.92	503,612		
4,300.0	4,277.9	1,220.0	1,219.0	16.0	4.1	-42.76	-70.7	-13.3	3,079.2	3,073.2	5.99	514,171		
4,400.0	4,377.0	1,220.0	1,219.0	16.4	4.1	-42.76	-70.7	-13.3	3,179.1	3,173.1	6.07	523,992		
4,500.0	4,476.0	1,220.0	1,219.0	16.8	4.1	-42.76	-70.7	-13.3	3,279.1	3,272.9	6.15	533,093		
4,600.0	4,575.0	1,220.0	1,219.0	17.2	4.1	-42.76	-70.7	-13.3	3,379.0	3,372.8	6.24	541,493		
4,698.1	4,672.2	1,220.0	1,219.0	17.6	4.1	-42.76	-70.7	-13.3	3,477.1	3,470.8	6.33	549,078		
4,700.0	4,674.0	1,220.0	1,219.0	17.6	4.1	-43.43	-70.7	-13.3	3,479.0	3,472.7	6.33	549,218		
4,800.0	4,773.3	1,220.0	1,219.0	18.0	4.1	-105.76	-70.7	-13.3	3,579.0	3,572.5	6.43	556,318		
4,900.0	4,872.7	1,220.0	1,219.0	18.4	4.1	-148.91	-70.7	-13.3	3,678.9	3,672.4	6.54	562,885		
5,000.0	4,972.5	1,220.0	1,219.0	18.8	4.1	-161.97	-70.7	-13.3	3,778.8	3,772.2	6.64	568,982		
5,100.0	5,072.4	1,220.0	1,219.0	19.2	4.1	-167.53	-70.7	-13.3	3,878.6	3,871.8	6.75	574,610		
5,200.0	5,172.3	1,220.0	1,219.0	19.5	4.1	-170.55	-70.7	-13.3	3,978.1	3,971.3	6.86	579,772		
5,231.4	5,203.8	1,220.0	1,219.0	19.6	4.1	125.82	-70.7	-13.3	4,009.4	4,002.5	6.90	581,398		
5,300.0	5,272.3	1,220.0	1,219.0	19.8	4.1	125.82	-70.7	-13.3	4,077.5	4,070.5	6.98	584,394		
5,400.0	5,372.3	1,220.0	1,219.0	20.2	4.1	125.82	-70.7	-13.3	4,176.9	4,169.8	7.10	588,271		
5,500.0	5,472.3	1,220.0	1,219.0	20.5	4.1	125.82	-70.7	-13.3	4,276.3	4,269.1	7.23	591,683		
5,600.0	5,572.3	1,220.0	1,219.0	20.8	4.1	125.82	-70.7	-13.3	4,375.8	4,368.4	7.36	594,656		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 163-MWD													Offset Well Error:	0.0 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		
5,700.0	5,672.3	1,220.0	1,219.0	21.2	4.1	125.82	-70.7	-13.3	4,475.3	4,467.8	7.49	597.219		
5,800.0	5,772.3	1,220.0	1,219.0	21.5	4.1	125.82	-70.7	-13.3	4,574.8	4,567.1	7.63	599.397		
5,900.0	5,872.3	1,220.0	1,219.0	21.8	4.1	125.82	-70.7	-13.3	4,674.3	4,666.5	7.77	601.214		
6,000.0	5,972.3	1,220.0	1,219.0	22.2	4.1	125.82	-70.7	-13.3	4,773.8	4,765.9	7.92	602.694		
6,100.0	6,072.3	1,220.0	1,219.0	22.5	4.1	125.82	-70.7	-13.3	4,873.4	4,865.3	8.07	603.859		
6,200.0	6,172.3	1,220.0	1,219.0	22.9	4.1	125.82	-70.7	-13.3	4,973.0	4,964.7	8.22	604.730		
6,300.0	6,272.3	1,220.0	1,219.0	23.2	4.1	125.82	-70.7	-13.3	5,072.6	5,064.2	8.38	605.326		
6,400.0	6,372.3	1,220.0	1,219.0	23.5	4.1	125.82	-70.7	-13.3	5,172.2	5,163.6	8.54	605.664		
6,500.0	6,472.3	1,220.0	1,219.0	23.9	4.1	125.82	-70.7	-13.3	5,271.8	5,263.1	8.70	605.764		
6,600.0	6,572.3	1,220.0	1,219.0	24.2	4.1	125.82	-70.7	-13.3	5,371.4	5,362.6	8.87	605.640		
6,700.0	6,672.3	1,220.0	1,219.0	24.6	4.1	125.82	-70.7	-13.3	5,471.1	5,462.0	9.04	605.307		
6,800.0	6,772.3	1,220.0	1,219.0	24.9	4.1	125.82	-70.7	-13.3	5,570.7	5,561.5	9.21	604.781		
6,900.0	6,872.3	1,220.0	1,219.0	25.2	4.1	125.82	-70.7	-13.3	5,670.4	5,661.0	9.39	604.073		
7,000.0	6,972.3	1,220.0	1,219.0	25.6	4.1	125.82	-70.7	-13.3	5,770.1	5,760.5	9.57	603.198		
7,100.0	7,072.3	1,220.0	1,219.0	25.9	4.1	125.82	-70.7	-13.3	5,869.8	5,860.1	9.75	602.166		
7,200.0	7,172.3	1,220.0	1,219.0	26.3	4.1	125.82	-70.7	-13.3	5,969.5	5,959.6	9.93	600.988		
7,300.0	7,272.3	1,220.0	1,219.0	26.6	4.1	125.82	-70.7	-13.3	6,069.2	6,059.1	10.12	599.674		
7,400.0	7,372.3	1,220.0	1,219.0	27.0	4.1	125.82	-70.7	-13.3	6,169.0	6,158.6	10.31	598.235		
7,500.0	7,472.3	1,220.0	1,219.0	27.3	4.1	125.82	-70.7	-13.3	6,268.7	6,258.2	10.51	596.678		
7,600.0	7,572.3	1,220.0	1,219.0	27.7	4.1	125.82	-70.7	-13.3	6,368.4	6,357.7	10.70	595.014		
7,700.0	7,672.3	1,220.0	1,219.0	28.0	4.1	125.82	-70.7	-13.3	6,468.2	6,457.3	10.90	593.249		
7,800.0	7,772.3	1,220.0	1,219.0	28.3	4.1	125.82	-70.7	-13.3	6,567.9	6,556.8	11.11	591.390		
7,900.0	7,872.3	1,220.0	1,219.0	28.7	4.1	125.82	-70.7	-13.3	6,667.7	6,656.4	11.31	589.446		
8,000.0	7,972.3	1,220.0	1,219.0	29.0	4.1	125.82	-70.7	-13.3	6,767.5	6,756.0	11.52	587.422		
8,100.0	8,072.3	1,220.0	1,219.0	29.4	4.1	125.82	-70.7	-13.3	6,867.3	6,855.5	11.73	585.325		
8,200.0	8,172.3	1,220.0	1,219.0	29.7	4.1	125.82	-70.7	-13.3	6,967.0	6,955.1	11.95	583.160		
8,300.0	8,272.3	1,220.0	1,219.0	30.1	4.1	125.82	-70.7	-13.3	7,066.8	7,054.7	12.16	580.932		
8,400.0	8,372.3	1,220.0	1,219.0	30.4	4.1	125.82	-70.7	-13.3	7,166.6	7,154.2	12.39	578.648		
8,500.0	8,472.3	1,220.0	1,219.0	30.8	4.1	125.82	-70.7	-13.3	7,266.4	7,253.8	12.61	576.311		
8,600.0	8,572.3	1,220.0	1,219.0	31.1	4.1	125.82	-70.7	-13.3	7,366.2	7,353.4	12.83	573.926		
8,700.0	8,672.3	1,220.0	1,219.0	31.5	4.1	125.82	-70.7	-13.3	7,466.1	7,453.0	13.06	571.497		
8,800.0	8,772.3	1,220.0	1,219.0	31.8	4.1	125.82	-70.7	-13.3	7,565.9	7,552.6	13.30	569.028		
8,900.0	8,872.3	1,220.0	1,219.0	32.2	4.1	125.82	-70.7	-13.3	7,665.7	7,652.2	13.53	566.524		
9,000.0	8,972.3	1,220.0	1,219.0	32.5	4.1	125.82	-70.7	-13.3	7,765.5	7,751.8	13.77	563.986		
9,100.0	9,072.3	1,220.0	1,219.0	32.9	4.1	125.82	-70.7	-13.3	7,865.4	7,851.4	14.01	561.419		
9,200.0	9,172.3	1,220.0	1,219.0	33.2	4.1	125.82	-70.7	-13.3	7,965.2	7,950.9	14.25	558.826		
9,272.2	9,244.5	1,220.0	1,219.0	33.5	4.1	125.82	-70.7	-13.3	8,037.3	8,022.8	14.43	556.940		
9,300.0	9,272.3	1,220.0	1,219.0	33.6	4.1	19.39	-70.7	-13.3	8,065.0	8,050.5	14.50	556.241		
9,350.0	9,322.1	1,220.0	1,219.0	33.7	4.1	10.36	-70.7	-13.3	8,114.5	8,099.9	14.62	555.070		
9,400.0	9,371.3	1,220.0	1,219.0	33.9	4.1	7.06	-70.7	-13.3	8,163.2	8,148.5	14.73	554.042		
9,450.0	9,419.5	1,220.0	1,219.0	34.0	4.1	5.38	-70.7	-13.3	8,210.8	8,196.0	14.84	553.142		
9,500.0	9,466.4	1,220.0	1,219.0	34.1	4.1	4.36	-70.7	-13.3	8,256.9	8,242.0	14.95	552.355		
9,550.0	9,511.6	1,220.0	1,219.0	34.2	4.1	3.68	-70.7	-13.3	8,301.3	8,286.2	15.05	551.660		
9,600.0	9,554.7	1,220.0	1,219.0	34.4	4.1	3.21	-70.7	-13.3	8,343.5	8,328.4	15.14	551.024		
9,650.0	9,595.5	1,220.0	1,219.0	34.5	4.1	2.86	-70.7	-13.3	8,383.4	8,368.1	15.23	550.404		
9,700.0	9,633.7	1,220.0	1,219.0	34.6	4.1	2.59	-70.7	-13.3	8,420.6	8,405.3	15.32	549.745		
9,750.0	9,668.8	1,220.0	1,219.0	34.7	4.1	2.39	-70.7	-13.3	8,454.9	8,439.5	15.40	548.981		
9,800.0	9,700.8	1,220.0	1,219.0	34.8	4.1	2.23	-70.7	-13.3	8,486.1	8,470.6	15.48	548.036		
9,850.0	9,729.2	1,220.0	1,219.0	35.0	4.1	2.10	-70.7	-13.3	8,514.0	8,498.4	15.57	546.834		
9,900.0	9,754.0	1,220.0	1,219.0	35.1	4.1	2.00	-70.7	-13.3	8,538.4	8,522.7	15.66	545.295		
9,950.0	9,774.9	1,220.0	1,219.0	35.3	4.1	1.92	-70.7	-13.3	8,559.1	8,543.3	15.75	543.345		
10,000.0	9,791.8	1,220.0	1,219.0	35.5	4.1	1.86	-70.7	-13.3	8,576.0	8,560.2	15.85	540.921		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design		Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Actual											Offset Site Error:	0.0 usft
Survey Program:		163-MWD											Offset Well Error:	0.0 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		
10,050.0	9,804.5	1,220.0	1,219.0	35.8	4.1	1.82	-70.7	-13.3	8,589.0	8,573.1	15.97	537.979		
10,100.0	9,812.9	1,220.0	1,219.0	36.0	4.1	1.79	-70.7	-13.3	8,598.1	8,582.0	16.09	534.494		
10,125.2	9,815.5	1,220.0	1,219.0	36.2	4.1	1.78	-70.7	-13.3	8,601.2	8,585.0	16.15	532.565		
10,200.0	9,820.7	1,220.0	1,219.0	36.7	4.1	1.77	-70.7	-13.3	8,608.0	8,591.7	16.37	525.981		
10,225.5	9,822.0	1,220.0	1,219.0	36.9	4.1	1.77	-70.7	-13.3	8,610.1	8,593.6	16.45	523.566		
10,300.0	9,825.5	1,220.0	1,219.0	37.5	4.1	1.77	-70.7	-13.3	8,616.2	8,599.5	16.70	516.011		
10,400.0	9,830.2	1,220.0	1,219.0	38.4	4.1	1.77	-70.7	-13.3	8,625.3	8,608.2	17.08	505.022		
10,500.0	9,834.9	1,220.0	1,219.0	39.4	4.1	1.77	-70.7	-13.3	8,635.6	8,618.1	17.51	493.321		
10,600.0	9,839.7	1,220.0	1,219.0	40.6	4.1	1.77	-70.7	-13.3	8,647.1	8,629.1	17.97	481.166		
10,700.0	9,844.4	1,220.0	1,219.0	41.9	4.1	1.77	-70.7	-13.3	8,659.7	8,641.2	18.47	468.779		
10,800.0	9,849.1	1,220.0	1,219.0	43.3	4.1	1.77	-70.7	-13.3	8,673.5	8,654.4	19.01	456.346		
10,900.0	9,853.8	1,220.0	1,219.0	44.7	4.1	1.77	-70.7	-13.3	8,688.3	8,668.8	19.57	444.018		
11,000.0	9,858.5	1,220.0	1,219.0	46.3	4.1	1.77	-70.7	-13.3	8,704.3	8,684.2	20.15	431.913		
11,100.0	9,863.2	1,220.0	1,219.0	47.9	4.1	1.77	-70.7	-13.3	8,721.4	8,700.7	20.76	420.119		
11,200.0	9,867.9	1,220.0	1,219.0	49.6	4.1	1.77	-70.7	-13.3	8,739.6	8,718.3	21.38	408.700		
11,300.0	9,872.6	1,220.0	1,219.0	51.4	4.1	1.77	-70.7	-13.3	8,759.0	8,736.9	22.02	397.699		
11,400.0	9,877.3	1,220.0	1,219.0	53.2	4.1	1.77	-70.7	-13.3	8,779.4	8,756.7	22.68	387.145		
11,500.0	9,882.1	1,220.0	1,219.0	55.1	4.1	1.77	-70.7	-13.3	8,800.9	8,777.6	23.34	377.050		
11,600.0	9,886.8	1,220.0	1,219.0	57.0	4.1	1.77	-70.7	-13.3	8,823.5	8,799.5	24.01	367.420		
11,700.0	9,891.5	1,220.0	1,219.0	58.9	4.1	1.77	-70.7	-13.3	8,847.1	8,822.4	24.70	358.252		
11,800.0	9,896.2	1,220.0	1,219.0	60.9	4.1	1.77	-70.7	-13.3	8,871.9	8,846.5	25.38	349.537		
11,900.0	9,900.9	1,220.0	1,219.0	63.0	4.1	1.77	-70.7	-13.3	8,897.7	8,871.6	26.07	341.263		
12,000.0	9,905.6	1,220.0	1,219.0	65.0	4.1	1.77	-70.7	-13.3	8,924.5	8,897.7	26.77	333.415		
12,100.0	9,910.3	1,220.0	1,219.0	67.1	4.1	1.77	-70.7	-13.3	8,952.3	8,924.9	27.46	325.976		
12,200.0	9,915.0	1,220.0	1,219.0	69.2	4.1	1.77	-70.7	-13.3	8,981.2	8,953.1	28.16	318.928		
12,300.0	9,919.8	1,220.0	1,219.0	71.3	4.1	1.77	-70.7	-13.3	9,011.1	8,982.3	28.86	312.254		
12,400.0	9,924.5	1,220.0	1,219.0	73.5	4.1	1.77	-70.7	-13.3	9,042.1	9,012.5	29.56	305.934		
12,500.0	9,929.2	1,220.0	1,219.0	75.6	4.1	1.77	-70.7	-13.3	9,074.0	9,043.7	30.25	299.952		
12,600.0	9,933.9	1,220.0	1,219.0	77.8	4.1	1.77	-70.7	-13.3	9,106.9	9,075.9	30.95	294.289		
12,700.0	9,938.6	1,220.0	1,219.0	80.0	4.1	1.77	-70.7	-13.3	9,140.7	9,109.1	31.64	288.928		
12,800.0	9,943.3	1,220.0	1,219.0	82.2	4.1	1.77	-70.7	-13.3	9,175.6	9,143.3	32.33	283.853		
12,900.0	9,948.0	1,220.0	1,219.0	84.4	4.1	1.77	-70.7	-13.3	9,211.4	9,178.4	33.01	279.048		
13,000.0	9,952.7	1,220.0	1,219.0	86.7	4.1	1.77	-70.7	-13.3	9,248.1	9,214.4	33.69	274.500		
13,100.0	9,957.5	1,220.0	1,219.0	88.9	4.1	1.77	-70.7	-13.3	9,285.8	9,251.4	34.37	270.193		
13,200.0	9,962.2	1,220.0	1,219.0	91.2	4.1	1.77	-70.7	-13.3	9,324.4	9,289.3	35.04	266.114		
13,300.0	9,966.9	1,220.0	1,219.0	93.4	4.1	1.77	-70.7	-13.3	9,363.9	9,328.2	35.71	262.251		
13,400.0	9,971.6	1,220.0	1,219.0	95.7	4.1	1.77	-70.7	-13.3	9,404.3	9,367.9	36.37	258.592		
13,500.0	9,976.3	1,220.0	1,219.0	98.0	4.1	1.77	-70.7	-13.3	9,445.5	9,408.5	37.02	255.127		
13,600.0	9,981.0	1,220.0	1,219.0	100.3	4.1	1.77	-70.7	-13.3	9,487.7	9,450.0	37.67	251.844		
13,700.0	9,985.7	1,220.0	1,219.0	102.6	4.1	1.77	-70.7	-13.3	9,530.7	9,492.4	38.32	248.734		
13,800.0	9,990.4	1,220.0	1,219.0	104.9	4.1	1.77	-70.7	-13.3	9,574.6	9,535.6	38.95	245.787		
13,900.0	9,995.2	1,220.0	1,219.0	107.2	4.1	1.77	-70.7	-13.3	9,619.3	9,579.7	39.59	242.996		
14,000.0	9,999.9	1,220.0	1,219.0	109.5	4.1	1.77	-70.7	-13.3	9,664.8	9,624.6	40.21	240.352		
14,100.0	10,004.6	1,220.0	1,219.0	111.9	4.1	1.77	-70.7	-13.3	9,711.2	9,670.4	40.83	237.847		
14,200.0	10,009.3	1,220.0	1,219.0	114.2	4.1	1.77	-70.7	-13.3	9,758.3	9,716.9	41.44	235.474		
14,300.0	10,014.0	1,220.0	1,219.0	116.5	4.1	1.77	-70.7	-13.3	9,806.3	9,764.2	42.05	233.227		
14,400.0	10,018.7	1,220.0	1,219.0	118.9	4.1	1.77	-70.7	-13.3	9,855.0	9,812.4	42.64	231.099		
14,500.0	10,023.4	1,220.0	1,219.0	121.2	4.1	1.77	-70.7	-13.3	9,904.5	9,861.3	43.24	229.084		
14,600.0	10,028.1	1,220.0	1,219.0	123.6	4.1	1.77	-70.7	-13.3	9,954.8	9,911.0	43.82	227.178		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Altitude Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	179.87	-110.2	0.2	110.2					
100.0	100.0	101.0	99.0	0.1	0.1	179.87	-110.2	0.2	110.2	110.0	0.26	424.175		
200.0	200.0	201.0	199.0	0.5	0.5	179.87	-110.2	0.2	110.2	109.3	0.98	112.854		
300.0	300.0	301.0	299.0	0.8	0.8	179.87	-110.2	0.2	110.2	108.5	1.69	65.085		
400.0	400.0	401.0	399.0	1.2	1.2	179.87	-110.2	0.2	110.2	107.8	2.41	45.729		
500.0	500.0	501.0	499.0	1.6	1.6	179.87	-110.2	0.2	110.2	107.1	3.13	35.247		
600.0	600.0	601.0	599.0	1.9	1.9	179.87	-110.2	0.2	110.2	106.4	3.84	28.674		
700.0	700.0	701.0	699.0	2.3	2.3	179.87	-110.2	0.2	110.2	105.7	4.56	24.167		
800.0	800.0	801.0	799.0	2.6	2.6	179.87	-110.2	0.2	110.2	105.0	5.28	20.885		
900.0	900.0	901.0	899.0	3.0	3.0	179.87	-110.2	0.2	110.2	104.2	6.00	18.387		
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	179.87	-110.2	0.2	110.2	103.5	6.71	16.423		
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	179.87	-110.2	0.2	110.2	102.8	7.43	14.838		
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	179.87	-110.2	0.2	110.2	102.1	8.15	13.533		
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	179.87	-110.2	0.2	110.2	101.4	8.86	12.438		
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	179.87	-110.2	0.2	110.2	100.7	9.58	11.507		
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	179.87	-110.2	0.2	110.2	99.9	10.30	10.706		
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	-117.57	-110.2	0.2	110.6	99.6	11.01	10.050		
1,700.0	1,700.0	1,699.0	1,699.0	5.9	5.9	-118.75	-110.2	0.2	111.9	100.2	11.71	9.553		
1,800.0	1,799.9	1,800.0	1,800.0	6.2	6.2	-120.31	-109.8	-0.5	113.6	101.1	12.42	9.142		
1,900.0	1,899.7	1,901.1	1,901.0	6.6	6.6	-121.86	-108.4	-2.8	115.2	102.1	13.13	8.775		
2,000.0	1,999.4	2,002.2	2,002.1	6.9	6.9	-123.39	-106.1	-6.6	116.8	103.0	13.84	8.441		
2,100.0	2,098.9	2,103.5	2,103.1	7.3	7.3	-124.91	-102.9	-11.9	118.4	103.8	14.55	8.136		
2,200.0	2,198.3	2,204.8	2,204.1	7.6	7.7	-126.41	-98.8	-18.8	119.9	104.7	15.27	7.856		
2,300.0	2,297.4	2,306.1	2,305.0	8.0	8.0	-127.91	-93.7	-27.2	121.5	105.5	15.99	7.598		
2,400.0	2,396.4	2,407.1	2,405.3	8.4	8.4	-129.11	-87.8	-37.0	122.5	105.8	16.71	7.328		
2,500.0	2,495.5	2,507.1	2,504.6	8.8	8.8	-130.14	-81.7	-47.1	123.2	105.8	17.45	7.062		
2,600.0	2,594.5	2,607.0	2,603.9	9.2	9.1	-131.15	-75.6	-57.2	124.0	105.8	18.18	6.818		
2,700.0	2,693.5	2,707.0	2,703.1	9.5	9.5	-132.15	-69.5	-67.3	124.8	105.9	18.93	6.595		
2,800.0	2,792.5	2,807.0	2,802.4	9.9	9.9	-133.13	-63.4	-77.4	125.7	106.0	19.67	6.390		
2,900.0	2,891.6	2,907.0	2,901.7	10.3	10.3	-134.11	-57.4	-87.5	126.6	106.2	20.41	6.201		
3,000.0	2,990.6	3,006.9	3,001.0	10.7	10.6	-135.06	-51.3	-97.6	127.5	106.3	21.16	6.027		
3,100.0	3,089.6	3,106.9	3,100.2	11.1	11.0	-136.01	-45.2	-107.7	128.5	106.6	21.90	5.866		
3,200.0	3,188.6	3,206.9	3,199.5	11.5	11.4	-136.94	-39.1	-117.8	129.5	106.8	22.65	5.717		
3,300.0	3,287.7	3,306.8	3,298.8	11.9	11.8	-137.85	-33.0	-127.9	130.5	107.1	23.39	5.579		
3,400.0	3,386.7	3,406.8	3,398.1	12.3	12.2	-138.75	-26.9	-138.0	131.6	107.4	24.14	5.451		
3,500.0	3,485.7	3,506.8	3,497.3	12.7	12.6	-139.64	-20.8	-148.1	132.7	107.8	24.88	5.332		
3,600.0	3,584.8	3,606.8	3,596.6	13.1	12.9	-140.51	-14.7	-158.2	133.8	108.2	25.63	5.221		
3,700.0	3,683.8	3,706.7	3,695.9	13.5	13.3	-141.37	-8.7	-168.3	135.0	108.6	26.37	5.118		
3,800.0	3,782.8	3,806.7	3,795.2	13.9	13.7	-142.21	-2.6	-178.4	136.1	109.0	27.11	5.021		
3,900.0	3,881.8	3,906.7	3,894.4	14.4	14.1	-143.04	3.5	-188.5	137.4	109.5	27.86	4.931		
4,000.0	3,980.9	4,006.7	3,993.7	14.8	14.5	-143.85	9.6	-198.6	138.6	110.0	28.60	4.847		
4,100.0	4,079.9	4,106.6	4,093.0	15.2	14.9	-144.65	15.7	-208.7	139.9	110.5	29.34	4.768		
4,200.0	4,178.9	4,206.6	4,192.3	15.6	15.3	-145.43	21.8	-218.8	141.2	111.1	30.08	4.694		
4,300.0	4,277.9	4,306.6	4,291.5	16.0	15.7	-146.20	27.9	-228.9	142.5	111.7	30.82	4.624		
4,400.0	4,377.0	4,406.5	4,390.8	16.4	16.1	-146.95	34.0	-239.0	143.9	112.3	31.56	4.559		
4,500.0	4,476.0	4,506.5	4,490.1	16.8	16.5	-147.69	40.0	-249.1	145.2	112.9	32.30	4.497		
4,600.0	4,575.0	4,606.5	4,589.4	17.2	16.9	-148.42	46.1	-259.2	146.6	113.6	33.03	4.439		
4,698.1	4,672.2	4,704.6	4,686.7	17.6	17.3	-149.12	52.1	-269.2	148.0	114.3	33.76	4.385		
4,700.0	4,674.0	4,706.5	4,688.6	17.6	17.3	-149.13	52.2	-269.4	148.1	114.3	33.77	4.384		
4,800.0	4,773.3	4,806.5	4,787.9	18.0	17.7	-149.57	58.3	-279.5	148.3	113.8	34.51	4.298		
4,900.0	4,872.7	4,906.4	4,887.2	18.4	18.1	-149.47	64.4	-289.6	146.4	111.1	35.26	4.151		
5,000.0	4,972.5	5,006.3	4,986.4	18.8	18.5	-148.82	70.5	-299.6	142.1	106.1	36.01	3.947		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Altitude Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
5,100.0	5,072.4	5,106.1	5,085.4	19.2	18.9	-147.53	76.6	-309.7	135.7	98.9	36.78	3.690		
5,200.0	5,172.3	5,205.6	5,184.3	19.5	19.2	-145.44	82.6	-319.8	127.2	89.6	37.57	3.386		
5,231.4	5,203.8	5,236.8	5,215.3	19.6	19.4	152.47	84.5	-322.9	124.1	86.3	37.82	3.282		
5,300.0	5,272.3	5,304.9	5,282.9	19.8	19.6	154.52	88.7	-329.8	117.3	78.9	38.37	3.056		
5,400.0	5,372.3	5,404.2	5,381.5	20.2	20.0	157.98	94.7	-339.9	107.6	68.4	39.20	2.745		
5,500.0	5,472.3	5,503.5	5,480.1	20.5	20.4	162.09	100.8	-349.9	98.4	58.4	40.05	2.457		
5,600.0	5,572.3	5,602.3	5,578.3	20.8	20.8	166.94	106.7	-359.8	89.9	49.0	40.93	2.196		
5,700.0	5,672.3	5,700.4	5,675.8	21.2	21.2	171.68	111.7	-368.0	83.4	41.6	41.80	1.994		
5,800.0	5,772.3	5,798.9	5,774.0	21.5	21.6	175.66	115.3	-374.1	79.0	36.3	42.62	1.853		
5,900.0	5,872.3	5,897.6	5,872.7	21.8	21.9	178.45	117.7	-378.0	76.4	33.0	43.39	1.760		
6,000.0	5,972.3	5,996.6	5,971.6	22.2	22.3	179.75	118.7	-379.7	75.3	31.2	44.10	1.708		
6,046.7	6,019.0	6,043.0	6,018.0	22.3	22.4	179.81	118.8	-379.8	75.2	30.8	44.41	1.694		
6,100.0	6,072.3	6,103.7	6,071.3	22.5	22.6	179.81	118.8	-379.8	75.2	30.4	44.80	1.680		
6,200.0	6,172.3	6,203.7	6,171.3	22.9	23.0	179.81	118.8	-379.8	75.2	29.8	45.48	1.655		
6,300.0	6,272.3	6,303.7	6,271.3	23.2	23.3	179.81	118.8	-379.8	75.2	29.1	46.16	1.630		
6,400.0	6,372.3	6,403.7	6,371.3	23.5	23.6	179.81	118.8	-379.8	75.2	28.4	46.84	1.606		
6,500.0	6,472.3	6,503.7	6,471.3	23.9	24.0	179.81	118.8	-379.8	75.2	27.7	47.53	1.583		
6,600.0	6,572.3	6,596.3	6,571.3	24.2	24.3	179.81	118.8	-379.8	75.2	27.1	48.19	1.561		
6,700.0	6,672.3	6,696.3	6,671.3	24.6	24.6	179.81	118.8	-379.8	75.2	26.4	48.87	1.540		
6,800.0	6,772.3	6,803.7	6,771.3	24.9	25.0	179.81	118.8	-379.8	75.2	25.7	49.59	1.517		
6,900.0	6,872.3	6,903.7	6,871.3	25.2	25.3	179.81	118.8	-379.8	75.2	25.0	50.27	1.497 Level 3		
7,000.0	6,972.3	6,996.3	6,971.3	25.6	25.7	179.81	118.8	-379.8	75.2	24.3	50.94	1.477 Level 3		
7,100.0	7,072.3	7,103.7	7,071.3	25.9	26.0	179.81	118.8	-379.8	75.2	23.6	51.65	1.457 Level 3		
7,200.0	7,172.3	7,196.3	7,171.3	26.3	26.3	179.81	118.8	-379.8	75.2	22.9	52.32	1.438 Level 3		
7,300.0	7,272.3	7,296.3	7,271.3	26.6	26.7	179.81	118.8	-379.8	75.2	22.2	53.01	1.419 Level 3		
7,400.0	7,372.3	7,396.3	7,371.4	27.0	27.0	179.81	118.8	-379.8	75.2	21.5	53.70	1.401 Level 3		
7,495.1	7,467.4	7,491.8	7,466.4	27.3	27.3	173.60	119.7	-371.7	74.8	20.6	54.17	1.381 Level 3, CC		
7,500.0	7,472.3	7,496.7	7,471.2	27.3	27.3	172.96	119.8	-370.9	74.8	20.6	54.18	1.381 Level 3, ES, SF		
7,600.0	7,572.3	7,591.2	7,562.4	27.7	27.6	155.07	122.5	-346.8	79.4	25.7	53.72	1.478 Level 3		
7,700.0	7,672.3	7,675.8	7,639.7	28.0	27.8	135.22	126.3	-312.8	100.5	49.5	51.03	1.970		
7,800.0	7,772.3	7,749.0	7,701.9	28.3	27.9	121.04	130.6	-274.6	141.3	94.3	47.01	3.005		
7,900.0	7,872.3	7,810.9	7,750.4	28.7	28.0	112.37	134.9	-236.3	196.9	153.8	43.13	4.565		
8,000.0	7,972.3	7,863.0	7,787.7	29.0	28.1	107.04	138.9	-200.3	262.8	223.0	39.78	6.606		
8,100.0	8,072.3	7,906.6	7,816.4	29.4	28.2	103.61	142.6	-167.6	335.8	298.9	36.94	9.091		
8,200.0	8,172.3	7,950.0	7,842.3	29.7	28.3	100.90	146.5	-133.0	414.2	379.0	35.20	11.766		
8,300.0	8,272.3	7,974.3	7,855.6	30.1	28.4	99.62	148.7	-112.8	496.3	463.7	32.58	15.232		
8,400.0	8,372.3	8,000.0	7,868.8	30.4	28.5	98.43	151.2	-90.9	581.4	550.5	30.87	18.833		
8,500.0	8,472.3	8,023.6	7,880.0	30.8	28.6	97.45	153.5	-70.3	668.8	639.3	29.55	22.630		
8,600.0	8,572.3	8,050.0	7,891.5	31.1	28.7	96.48	156.1	-46.6	758.2	729.4	28.78	26.340		
8,700.0	8,672.3	8,050.0	7,891.5	31.5	28.7	96.48	156.1	-46.6	849.0	822.0	26.99	31.460		
8,800.0	8,772.3	8,075.6	7,901.6	31.8	28.8	95.64	158.8	-23.3	940.8	914.0	26.71	35.215		
8,900.0	8,872.3	8,100.0	7,910.2	32.2	28.9	94.93	161.3	-0.6	1,033.8	1,007.3	26.51	38.997		
9,000.0	8,972.3	8,100.0	7,910.2	32.5	28.9	94.93	161.3	-0.6	1,127.4	1,101.9	25.55	44.127		
9,100.0	9,072.3	8,100.0	7,910.2	32.9	28.9	94.93	161.3	-0.6	1,222.0	1,197.2	24.82	49.242		
9,200.0	9,172.3	8,121.0	7,916.9	33.2	29.0	94.37	163.5	19.2	1,316.8	1,292.0	24.85	52.995		
9,272.2	9,244.5	8,127.3	7,918.7	33.5	29.0	94.21	164.2	25.2	1,385.7	1,361.0	24.66	56.185		
9,300.0	9,272.3	8,129.8	7,919.4	33.6	29.0	3.75	164.5	27.6	1,412.1	1,387.5	24.59	57.430		
9,350.0	9,322.1	8,150.0	7,924.8	33.7	29.1	2.72	166.6	46.9	1,458.8	1,434.0	24.79	58.847		
9,400.0	9,371.3	8,150.0	7,924.8	33.9	29.1	2.29	166.6	46.9	1,503.5	1,479.1	24.42	61.579		
9,450.0	9,419.5	8,150.0	7,924.8	34.0	29.1	1.98	166.6	46.9	1,546.4	1,522.4	24.01	64.412		
9,500.0	9,466.4	8,150.0	7,924.8	34.1	29.1	1.74	166.6	46.9	1,587.5	1,563.9	23.58	67.321		
9,550.0	9,511.6	8,150.0	7,924.8	34.2	29.1	1.56	166.6	46.9	1,626.5	1,603.4	23.15	70.272		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Altitude Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,600.0	9,554.7	8,172.6	7,930.1	34.4	29.3	1.29	169.1	68.8	1,662.8	1,639.6	23.13	71.888		
9,650.0	9,595.5	8,181.9	7,932.0	34.5	29.3	1.14	170.1	77.8	1,696.7	1,673.9	22.84	74.284		
9,700.0	9,633.7	8,200.0	7,935.2	34.6	29.4	0.97	172.1	95.5	1,728.1	1,705.4	22.70	76.135		
9,750.0	9,668.8	8,200.0	7,935.2	34.7	29.4	0.92	172.1	95.5	1,756.5	1,734.2	22.27	78.860		
9,800.0	9,700.8	8,200.0	7,935.2	34.8	29.4	0.87	172.1	95.5	1,782.2	1,760.3	21.90	81.364		
9,850.0	9,729.2	8,222.9	7,938.6	35.0	29.6	0.74	174.6	118.0	1,804.6	1,782.7	21.87	82.533		
9,900.0	9,754.0	8,250.0	7,941.3	35.1	29.8	0.61	177.6	144.8	1,824.4	1,802.5	21.88	83.363		
9,950.0	9,774.9	8,250.0	7,941.3	35.3	29.8	0.59	177.6	144.8	1,840.4	1,818.7	21.66	84.986		
10,000.0	9,791.8	8,250.0	7,941.3	35.5	29.8	0.58	177.6	144.8	1,853.5	1,832.0	21.53	86.100		
10,050.0	9,804.5	8,276.1	7,942.8	35.8	30.0	0.48	180.5	170.7	1,863.4	1,841.7	21.65	86.070		
10,100.0	9,812.9	8,290.2	7,943.3	36.0	30.1	0.43	182.1	184.8	1,869.8	1,848.0	21.75	85.974		
10,125.2	9,815.5	8,315.1	7,944.1	36.2	30.3	0.35	184.6	209.4	1,871.6	1,849.7	21.90	85.464		
10,200.0	9,820.7	8,389.3	7,946.6	36.7	30.9	0.17	190.9	283.4	1,874.2	1,851.8	22.37	83.777		
10,225.5	9,822.0	8,414.6	7,947.4	36.9	31.2	0.13	192.6	308.6	1,874.7	1,852.1	22.54	83.158		
10,300.0	9,825.5	8,488.9	7,949.9	37.5	32.0	0.03	196.4	382.7	1,875.7	1,852.6	23.07	81.288		
10,400.0	9,830.2	8,588.7	7,953.2	38.4	33.1	-0.02	198.4	482.5	1,877.1	1,853.2	23.85	78.705		
10,500.0	9,834.9	8,688.7	7,956.5	39.4	34.4	-0.02	199.0	582.4	1,878.5	1,853.8	24.70	76.055		
10,600.0	9,839.7	8,788.7	7,959.8	40.6	35.8	-0.02	199.6	682.4	1,879.9	1,854.3	25.61	73.393		
10,700.0	9,844.4	8,888.7	7,963.1	41.9	37.4	-0.02	200.3	782.3	1,881.3	1,854.7	26.59	70.756		
10,800.0	9,849.1	8,988.7	7,966.4	43.3	39.0	-0.02	200.9	882.2	1,882.7	1,855.1	27.62	68.172		
10,900.0	9,853.8	9,088.7	7,969.7	44.7	40.7	-0.02	201.6	982.2	1,884.1	1,855.4	28.69	65.666		
11,000.0	9,858.5	9,188.7	7,973.0	46.3	42.5	-0.02	202.2	1,082.1	1,885.5	1,855.7	29.81	63.248		
11,100.0	9,863.2	9,288.6	7,976.3	47.9	44.3	-0.02	202.8	1,182.0	1,886.9	1,856.0	30.97	60.932		
11,200.0	9,867.9	9,388.6	7,979.6	49.6	46.2	-0.02	203.5	1,282.0	1,888.3	1,856.2	32.16	58.720		
11,300.0	9,872.6	9,488.6	7,982.9	51.4	48.1	-0.02	204.1	1,381.9	1,889.7	1,856.4	33.38	56.614		
11,400.0	9,877.3	9,588.6	7,986.2	53.2	50.1	-0.02	204.8	1,481.8	1,891.1	1,856.5	34.63	54.614		
11,500.0	9,882.1	9,688.6	7,989.6	55.1	52.2	-0.02	205.4	1,581.8	1,892.5	1,856.6	35.90	52.717		
11,600.0	9,886.8	9,788.6	7,992.9	57.0	54.2	-0.02	206.0	1,681.7	1,894.0	1,856.8	37.19	50.920		
11,700.0	9,891.5	9,888.6	7,996.2	58.9	56.3	-0.02	206.7	1,781.6	1,895.4	1,856.8	38.51	49.219		
11,800.0	9,896.2	9,988.6	7,999.5	60.9	58.5	-0.02	207.3	1,881.6	1,896.8	1,856.9	39.84	47.608		
11,900.0	9,900.9	10,088.6	8,002.8	63.0	60.6	-0.02	208.0	1,981.5	1,898.2	1,857.0	41.19	46.083		
12,000.0	9,905.6	10,188.6	8,006.1	65.0	62.8	-0.02	208.6	2,081.4	1,899.6	1,857.0	42.55	44.640		
12,100.0	9,910.3	10,288.5	8,009.4	67.1	65.0	-0.02	209.2	2,181.4	1,901.0	1,857.0	43.93	43.273		
12,200.0	9,915.0	10,388.5	8,012.7	69.2	67.2	-0.02	209.9	2,281.3	1,902.4	1,857.1	45.32	41.977		
12,300.0	9,919.8	10,488.5	8,016.0	71.3	69.4	-0.02	210.5	2,381.2	1,903.8	1,857.1	46.72	40.749		
12,400.0	9,924.5	10,588.5	8,019.3	73.5	71.6	-0.02	211.2	2,481.2	1,905.2	1,857.1	48.13	39.584		
12,500.0	9,929.2	10,688.5	8,022.6	75.6	73.9	-0.02	211.8	2,581.1	1,906.6	1,857.0	49.55	38.479		
12,600.0	9,933.9	10,788.5	8,025.9	77.8	76.2	-0.02	212.4	2,681.0	1,908.0	1,857.0	50.98	37.428		
12,700.0	9,938.6	10,888.5	8,029.2	80.0	78.4	-0.02	213.1	2,781.0	1,909.4	1,857.0	52.41	36.429		
12,800.0	9,943.3	10,988.5	8,032.6	82.2	80.7	-0.02	213.7	2,880.9	1,910.8	1,857.0	53.86	35.479		
12,900.0	9,948.0	11,088.5	8,035.9	84.4	83.0	-0.02	214.4	2,980.8	1,912.2	1,856.9	55.31	34.574		
13,000.0	9,952.7	11,188.5	8,039.2	86.7	85.3	-0.02	215.0	3,080.8	1,913.6	1,856.9	56.76	33.712		
13,100.0	9,957.5	11,288.4	8,042.5	88.9	87.6	-0.02	215.6	3,180.7	1,915.0	1,856.8	58.23	32.890		
13,200.0	9,962.2	11,388.4	8,045.8	91.2	89.9	-0.02	216.3	3,280.6	1,916.4	1,856.7	59.69	32.105		
13,300.0	9,966.9	11,488.4	8,049.1	93.4	92.3	-0.02	216.9	3,380.6	1,917.8	1,856.7	61.17	31.355		
13,400.0	9,971.6	11,588.4	8,052.4	95.7	94.6	-0.02	217.6	3,480.5	1,919.2	1,856.6	62.64	30.638		
13,500.0	9,976.3	11,688.4	8,055.7	98.0	96.9	-0.02	218.4	3,580.5	1,920.6	1,856.5	64.12	29.963		
13,600.0	9,981.0	11,788.4	8,059.0	100.3	99.9	-0.02	219.0	3,680.5	1,922.0	1,856.4	65.60	29.338		
13,700.0	9,985.7	11,888.4	8,062.3	102.6	102.3	-0.02	219.7	3,780.5	1,923.4	1,856.3	67.08	28.763		
13,800.0	9,990.4	11,988.4	8,065.6	104.9	104.6	-0.02	220.3	3,880.5	1,924.8	1,856.2	68.56	28.238		
13,900.0	9,995.2	12,088.4	8,068.9	107.2	107.0	-0.02	220.9	3,980.5	1,926.2	1,856.1	69.99	27.763		
14,000.0	9,999.9	12,188.4	8,072.2	109.5	109.4	-0.02	221.6	4,080.5	1,927.6	1,856.0	71.42	27.338		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #121H - Wellbore #1 - Altitude Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
14,100.0	10,004.6	12,315.6	8,086.2	111.9	111.7	-0.02	222.2	4,206.8	1,919.5	1,846.3	73.24	26.207		
14,200.0	10,009.3	12,415.6	8,090.9	114.2	114.1	-0.02	222.9	4,306.7	1,919.5	1,844.8	74.75	25.680		
14,300.0	10,014.0	12,515.6	8,095.6	116.5	116.5	-0.02	223.5	4,406.6	1,919.5	1,843.2	76.26	25.172		
14,400.0	10,018.7	12,615.6	8,100.4	118.9	118.9	-0.02	224.1	4,506.5	1,919.5	1,841.7	77.77	24.683		
14,500.0	10,023.4	12,715.6	8,105.1	121.2	121.2	-0.02	224.8	4,606.4	1,919.5	1,840.2	79.28	24.212		
14,600.0	10,028.1	12,815.6	8,109.8	123.6	123.6	-0.02	225.4	4,706.3	1,919.5	1,838.7	80.79	23.759		
14,700.0	10,032.8	12,915.6	8,114.5	125.9	126.0	-0.02	226.1	4,806.2	1,919.5	1,837.2	82.31	23.321		
14,800.0	10,037.6	13,015.6	8,119.2	128.3	128.4	-0.02	226.7	4,906.0	1,919.5	1,835.6	83.82	22.898		
14,900.0	10,042.3	13,115.6	8,124.0	130.7	130.8	-0.02	227.3	5,005.9	1,919.4	1,834.1	85.34	22.491		
15,000.0	10,047.0	13,215.6	8,128.7	133.0	133.2	-0.02	228.0	5,105.8	1,919.4	1,832.6	86.87	22.097		
15,100.0	10,051.7	13,315.6	8,133.4	135.4	135.6	-0.02	228.6	5,205.7	1,919.4	1,831.0	88.39	21.716		
15,200.0	10,056.4	13,415.6	8,138.1	137.8	138.0	-0.02	229.3	5,305.6	1,919.4	1,829.5	89.91	21.347		
15,300.0	10,061.1	13,515.6	8,142.9	140.1	140.4	-0.02	229.9	5,405.5	1,919.4	1,828.0	91.44	20.991		
15,400.0	10,065.8	13,615.6	8,147.6	142.5	142.8	-0.02	230.5	5,505.4	1,919.4	1,826.4	92.97	20.646		
15,500.0	10,070.5	13,715.6	8,152.3	144.9	145.2	-0.02	231.2	5,605.2	1,919.4	1,824.9	94.50	20.312		
15,600.0	10,075.3	13,815.6	8,157.0	147.3	147.6	-0.02	231.8	5,705.1	1,919.4	1,823.4	96.03	19.988		
15,700.0	10,080.0	13,915.6	8,161.7	149.7	150.0	-0.02	232.5	5,805.0	1,919.4	1,821.8	97.56	19.674		
15,800.0	10,084.7	14,015.6	8,166.5	152.0	152.4	-0.02	233.1	5,904.9	1,919.4	1,820.3	99.09	19.370		
15,900.0	10,089.4	14,115.6	8,171.2	154.4	154.8	-0.02	233.7	6,004.8	1,919.4	1,818.7	100.62	19.075		
16,000.0	10,094.1	14,215.6	8,175.9	156.8	157.2	-0.02	234.4	6,104.7	1,919.3	1,817.2	102.16	18.788		
16,100.0	10,098.8	14,315.6	8,180.6	159.2	159.6	-0.02	235.0	6,204.6	1,919.3	1,815.6	103.69	18.510		
16,200.0	10,103.5	14,415.6	8,185.3	161.6	162.0	-0.02	235.7	6,304.5	1,919.3	1,814.1	105.23	18.239		
16,300.0	10,108.2	14,515.6	8,190.1	164.0	164.4	-0.02	236.3	6,404.3	1,919.3	1,812.6	106.77	17.977		
16,400.0	10,113.0	14,615.6	8,194.8	166.4	166.9	-0.02	236.9	6,504.2	1,919.3	1,811.0	108.31	17.721		
16,500.0	10,117.7	14,715.6	8,199.5	168.8	169.3	-0.02	237.6	6,604.1	1,919.3	1,809.5	109.84	17.473		
16,600.0	10,122.4	14,815.6	8,204.2	171.2	171.7	-0.02	238.2	6,704.0	1,919.3	1,807.9	111.38	17.231		
16,700.0	10,127.1	14,915.6	8,208.9	173.6	174.1	-0.02	238.9	6,803.9	1,919.3	1,806.4	112.93	16.996		
16,800.0	10,131.8	15,015.6	8,213.7	176.0	176.5	-0.02	239.5	6,903.8	1,919.3	1,804.8	114.47	16.767		
16,900.0	10,136.5	15,115.6	8,218.4	178.4	178.9	-0.02	240.1	7,003.7	1,919.3	1,803.3	116.01	16.544		
17,000.0	10,141.2	15,215.6	8,223.1	180.8	181.4	-0.02	240.8	7,103.5	1,919.3	1,801.7	117.55	16.327		
17,100.0	10,145.9	15,315.6	8,227.8	183.2	183.8	-0.02	241.4	7,203.4	1,919.2	1,800.2	119.10	16.115		
17,200.0	10,150.7	15,415.6	8,232.6	185.6	186.2	-0.02	242.1	7,303.3	1,919.2	1,798.6	120.64	15.909		
17,218.0	10,151.5	15,433.5	8,233.4	186.1	186.6	-0.02	242.2	7,321.3	1,919.2	1,798.3	120.92	15.872		
17,218.7	10,151.5	15,434.3	8,233.4	186.1	186.7	-0.02	242.2	7,322.0	1,919.2	1,798.3	120.93	15.871		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 163-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	164.69	-110.3	30.2	114.3					
100.0	100.0	99.3	99.3	0.1	0.1	164.79	-110.2	30.0	114.2	113.9	0.28	414.418		
200.0	200.0	200.2	200.2	0.5	0.4	165.08	-109.9	29.3	113.7	112.9	0.86	131.728		
300.0	300.0	301.3	301.3	0.8	0.7	165.39	-108.5	28.3	112.1	110.5	1.59	70.659		
400.0	400.0	402.0	402.0	1.2	1.1	165.67	-106.2	27.1	109.7	107.4	2.31	47.557		
500.0	500.0	502.7	502.6	1.6	1.5	166.20	-103.5	25.4	106.7	103.6	3.03	35.251		
600.0	600.0	603.0	602.9	1.9	1.8	166.74	-100.3	23.6	103.1	99.3	3.74	27.529		
700.0	700.0	703.2	702.9	2.3	2.2	167.43	-96.8	21.6	99.2	94.8	4.46	22.241		
800.0	800.0	803.7	803.3	2.6	2.5	168.49	-93.1	19.0	95.1	89.9	5.18	18.351		
900.0	900.0	902.3	901.8	3.0	2.9	169.50	-89.1	16.5	90.7	84.8	5.89	15.388		
1,000.0	1,000.0	1,001.0	1,000.5	3.4	3.3	170.09	-87.4	15.3	88.8	82.2	6.61	13.440		
1,068.6	1,068.6	1,068.1	1,067.6	3.6	3.5	170.27	-86.6	14.9	87.9	80.8	7.08	12,410 CC, ES		
1,100.0	1,100.0	1,098.1	1,097.6	3.7	3.6	170.29	-86.9	14.9	88.2	80.9	7.30	12.080		
1,200.0	1,200.0	1,195.8	1,195.2	4.1	3.9	170.23	-89.9	15.5	91.3	83.4	7.97	11.454		
1,300.0	1,300.0	1,295.6	1,295.0	4.4	4.2	170.07	-94.2	16.5	95.7	87.0	8.66	11.047		
1,400.0	1,400.0	1,392.6	1,391.8	4.8	4.6	169.60	-99.2	18.2	101.1	91.8	9.33	10.839		
1,500.0	1,500.0	1,490.8	1,489.7	5.1	4.9	169.39	-106.8	20.0	109.1	99.1	10.01	10.903		
1,600.0	1,600.0	1,587.8	1,586.2	5.5	5.2	-127.16	-116.3	20.2	119.2	108.6	10.67	11.171		
1,700.0	1,700.0	1,687.8	1,685.6	5.9	5.6	-126.43	-127.2	18.6	131.3	120.0	11.37	11.548		
1,800.0	1,799.9	1,783.3	1,780.4	6.2	5.9	-126.00	-138.7	16.3	145.3	133.3	12.03	12.082		
1,900.0	1,899.7	1,880.3	1,876.4	6.6	6.3	-126.05	-152.0	14.1	162.1	149.4	12.70	12.761		
2,000.0	1,999.4	1,979.1	1,974.3	6.9	6.7	-127.24	-165.6	14.2	180.3	166.9	13.41	13.445		
2,100.0	2,098.9	2,065.9	2,059.8	7.3	7.0	-127.70	-180.4	12.4	202.5	188.5	13.97	14.493		
2,200.0	2,198.3	2,157.4	2,149.0	7.6	7.4	-127.26	-200.1	7.1	229.2	214.6	14.60	15.701		
2,300.0	2,297.4	2,253.6	2,242.5	8.0	7.8	-126.93	-221.9	0.7	258.0	242.7	15.31	16.849		
2,400.0	2,396.4	2,347.8	2,333.9	8.4	8.2	-126.85	-243.5	-6.2	287.4	271.4	16.01	17.953		
2,500.0	2,495.5	2,445.1	2,428.1	8.8	8.6	-126.40	-266.1	-15.3	316.9	300.1	16.76	18.908		
2,600.0	2,594.5	2,545.3	2,525.2	9.2	9.1	-125.99	-288.5	-25.0	345.4	327.8	17.55	19.683		
2,700.0	2,693.5	2,643.7	2,620.9	9.5	9.5	-125.67	-309.6	-34.6	373.0	354.7	18.32	20.363		
2,800.0	2,792.5	2,738.0	2,712.5	9.9	10.0	-125.42	-329.8	-43.8	400.6	381.5	19.04	21.035		
2,900.0	2,891.6	2,834.8	2,806.6	10.3	10.4	-125.20	-350.6	-53.1	428.3	408.5	19.80	21.626		
3,000.0	2,990.6	2,935.7	2,904.9	10.7	10.9	-125.07	-371.5	-62.3	455.3	434.7	20.61	22.090		
3,100.0	3,089.6	3,034.8	3,001.7	11.1	11.4	-125.08	-391.2	-70.6	481.5	460.1	21.40	22.502		
3,200.0	3,188.6	3,131.4	3,096.1	11.5	11.8	-125.17	-410.0	-78.0	507.6	485.4	22.16	22.904		
3,300.0	3,287.7	3,227.5	3,190.2	11.9	12.3	-125.32	-428.5	-84.8	533.5	510.6	22.92	23.276		
3,400.0	3,386.7	3,319.5	3,280.0	12.3	12.7	-125.30	-447.1	-92.5	560.2	536.5	23.64	23.692		
3,500.0	3,485.7	3,417.4	3,375.5	12.7	13.2	-125.28	-467.0	-100.8	586.9	562.4	24.43	24.022		
3,600.0	3,584.8	3,509.3	3,465.1	13.1	13.6	-125.34	-485.6	-107.8	613.6	588.5	25.15	24.394		
3,700.0	3,683.8	3,590.7	3,544.1	13.5	14.0	-125.22	-503.7	-115.5	642.1	616.4	25.77	24.918		
3,800.0	3,782.8	3,680.5	3,630.7	13.9	14.5	-124.95	-525.3	-125.5	672.1	645.6	26.48	25.380		
3,900.0	3,881.8	3,776.8	3,723.5	14.4	15.0	-124.66	-548.8	-136.2	702.4	675.2	27.27	25.755		
4,000.0	3,980.9	3,878.2	3,821.3	14.8	15.5	-124.43	-573.0	-147.2	732.3	704.2	28.12	26.039		
4,100.0	4,079.9	3,981.9	3,921.8	15.2	16.1	-124.27	-596.7	-157.7	761.3	732.3	28.99	26.258		
4,200.0	4,178.9	4,089.6	4,026.4	15.6	16.6	-124.15	-619.8	-168.6	788.9	759.0	29.90	26.388		
4,300.0	4,277.9	4,188.0	4,122.2	16.0	17.1	-124.07	-639.9	-178.2	815.6	784.9	30.70	26.564		
4,400.0	4,377.0	4,280.7	4,212.5	16.4	17.6	-124.03	-659.1	-187.0	842.6	811.1	31.46	26.786		
4,500.0	4,476.0	4,375.2	4,304.4	16.8	18.1	-123.94	-679.0	-196.5	869.8	837.6	32.23	26.990		
4,600.0	4,575.0	4,470.7	4,397.3	17.2	18.5	-123.85	-699.3	-206.2	897.3	864.2	33.01	27.179		
4,698.1	4,672.2	4,565.6	4,489.5	17.6	19.0	-123.80	-719.4	-215.4	924.1	890.3	33.79	27.347		
4,700.0	4,674.0	4,567.5	4,491.3	17.6	19.0	-123.80	-719.8	-215.6	924.7	890.8	33.81	27.350		
4,800.0	4,773.3	4,667.1	4,588.3	18.0	19.5	-124.07	-740.6	-224.5	951.2	916.6	34.62	27.474		
4,900.0	4,872.7	4,771.9	4,690.6	18.4	20.0	-124.21	-761.8	-233.0	975.7	940.3	35.46	27.513		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #122H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 163-MWD													Offset Well Error:	0.0 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		
5,000.0	4,972.5	4,878.7	4,795.1	18.8	20.6	-124.23	-782.4	-241.3	997.9	961.6	36.30	27.490		
5,100.0	5,072.4	4,991.9	4,906.2	19.2	21.1	-124.14	-802.8	-249.1	1,017.6	980.4	37.17	27.377		
5,200.0	5,172.3	5,104.6	5,017.1	19.5	21.6	-123.93	-821.3	-256.3	1,034.3	996.3	38.00	27.218		
5,231.4	5,203.8	5,124.7	5,036.9	19.6	21.7	173.14	-824.7	-257.5	1,039.4	1,001.2	38.14	27.250		
5,300.0	5,272.3	5,179.2	5,090.4	19.8	22.0	173.40	-834.2	-261.1	1,050.7	1,012.2	38.52	27.279		
5,400.0	5,372.3	5,276.4	5,185.8	20.2	22.4	173.86	-851.8	-267.6	1,068.1	1,028.9	39.22	27.233		
5,500.0	5,472.3	5,381.6	5,289.1	20.5	22.9	174.35	-870.5	-274.6	1,085.2	1,045.2	39.99	27.137		
5,600.0	5,572.3	5,480.1	5,385.8	20.8	23.4	174.83	-887.8	-282.1	1,102.0	1,061.3	40.70	27.076		
5,700.0	5,672.3	5,582.0	5,485.6	21.2	23.9	175.38	-905.7	-291.2	1,118.8	1,077.3	41.44	26.995		
5,800.0	5,772.3	5,688.8	5,590.5	21.5	24.4	175.92	-923.7	-300.2	1,135.0	1,092.8	42.22	26.881		
5,900.0	5,872.3	5,795.3	5,695.3	21.8	24.9	176.40	-940.9	-308.7	1,150.7	1,107.7	43.00	26.763		
6,000.0	5,972.3	5,910.9	5,809.2	22.2	25.4	176.87	-958.3	-317.0	1,165.4	1,121.6	43.83	26.591		
6,100.0	6,072.3	5,989.1	5,886.5	22.5	25.7	177.18	-969.7	-322.6	1,179.7	1,135.3	44.39	26.577		
6,200.0	6,172.3	6,063.1	5,959.0	22.9	26.1	177.51	-982.7	-328.9	1,196.8	1,151.9	44.90	26.651		
6,300.0	6,272.3	6,156.4	6,050.5	23.2	26.5	177.91	-999.3	-336.4	1,214.3	1,168.8	45.58	26.643		
6,400.0	6,372.3	6,227.0	6,119.5	23.5	26.9	178.21	-1,013.3	-342.3	1,233.8	1,187.8	46.05	26.793		
6,500.0	6,472.3	6,330.0	6,219.9	23.9	27.4	178.64	-1,034.6	-350.8	1,254.4	1,207.6	46.81	26.795		
6,600.0	6,572.3	6,460.2	6,347.3	24.2	28.0	179.08	-1,059.5	-360.0	1,273.5	1,225.7	47.80	26.641		
6,700.0	6,672.3	6,605.0	6,490.1	24.6	28.7	179.46	-1,082.3	-368.1	1,289.1	1,240.3	48.85	26.389		
6,800.0	6,772.3	6,733.1	6,617.0	24.9	29.2	179.73	-1,098.8	-374.0	1,302.0	1,252.3	49.74	26.179		
6,900.0	6,872.3	6,850.4	6,733.5	25.2	29.7	179.89	-1,111.8	-377.5	1,313.1	1,262.6	50.53	25.985		
7,000.0	6,972.3	6,962.8	6,845.3	25.6	30.1	-179.99	-1,123.1	-380.2	1,323.1	1,271.8	51.29	25.794		
7,100.0	7,072.3	7,083.7	6,965.7	25.9	30.6	-179.89	-1,133.7	-382.5	1,331.9	1,279.8	52.09	25.571		
7,200.0	7,172.3	7,200.2	7,081.9	26.3	31.0	-179.83	-1,142.2	-383.9	1,339.2	1,286.3	52.84	25.342		
7,300.0	7,272.3	7,306.2	7,187.7	26.6	31.4	-179.78	-1,148.9	-385.3	1,345.5	1,292.0	53.56	25.124		
7,400.0	7,372.3	7,400.0	7,313.3	27.0	31.7	-179.96	-1,155.1	-380.9	1,350.3	1,296.1	54.21	24.908		
7,500.0	7,472.3	7,438.0	7,319.1	27.3	31.8	-179.98	-1,155.3	-380.5	1,357.9	1,303.3	54.61	24.867		
7,600.0	7,572.3	7,494.2	7,374.0	27.7	31.9	179.57	-1,159.9	-369.8	1,368.2	1,313.2	55.00	24.879		
7,700.0	7,672.3	7,781.4	7,617.8	28.0	32.4	173.55	-1,177.9	-224.9	1,381.7	1,325.4	56.30	24.541		
7,800.0	7,772.3	7,876.0	7,696.2	28.3	32.4	171.37	-1,174.6	-172.2	1,386.3	1,329.4	56.93	24.353		
7,900.0	7,872.3	7,935.5	7,743.8	28.7	32.5	169.90	-1,171.9	-136.7	1,393.3	1,335.9	57.42	24.266		
8,000.0	7,972.3	7,974.0	7,771.1	29.0	32.5	168.79	-1,170.0	-109.6	1,404.9	1,347.2	57.71	24.344		
8,100.0	8,072.3	7,996.0	7,785.1	29.4	32.5	168.10	-1,168.9	-92.7	1,422.0	1,364.2	57.75	24.624		
8,200.0	8,172.3	7,996.0	7,785.1	29.7	32.5	168.10	-1,168.9	-92.7	1,445.4	1,388.0	57.43	25.170		
8,300.0	8,272.3	8,042.2	7,811.8	30.1	32.5	166.57	-1,167.3	-55.1	1,473.1	1,415.8	57.33	25.696		
8,400.0	8,372.3	8,059.2	7,820.8	30.4	32.5	166.00	-1,167.1	-40.7	1,507.0	1,450.1	56.84	26.514		
8,500.0	8,472.3	8,091.0	7,836.4	30.8	32.5	164.91	-1,167.4	-12.9	1,546.4	1,490.0	56.37	27.433		
8,600.0	8,572.3	8,091.0	7,836.4	31.1	32.5	164.91	-1,167.4	-12.9	1,590.0	1,534.5	55.48	28.658		
8,700.0	8,672.3	8,210.7	7,888.9	31.5	32.5	160.73	-1,162.9	94.4	1,636.6	1,580.8	55.86	29.301		
8,800.0	8,772.3	8,246.0	7,902.5	31.8	32.4	159.47	-1,159.4	126.8	1,686.3	1,631.0	55.26	30.516		
8,900.0	8,872.3	8,275.8	7,913.0	32.2	32.4	158.40	-1,155.9	154.5	1,739.6	1,685.0	54.56	31.884		
9,000.0	8,972.3	8,281.0	7,914.8	32.5	32.4	158.21	-1,155.2	159.3	1,796.5	1,743.0	53.57	33.533		
9,100.0	9,072.3	8,281.0	7,914.8	32.9	32.4	158.21	-1,155.2	159.3	1,857.1	1,804.6	52.53	35.356		
9,200.0	9,172.3	8,281.0	7,914.8	33.2	32.4	158.21	-1,155.2	159.3	1,921.0	1,869.5	51.49	37.311		
9,272.2	9,244.5	8,281.0	7,914.8	33.5	32.4	158.21	-1,155.2	159.3	1,968.9	1,918.2	50.75	38.798		
9,300.0	9,272.3	8,315.1	7,924.9	33.6	32.4	64.89	-1,150.5	191.6	1,986.6	1,935.7	50.82	39.090		
9,350.0	9,322.1	8,319.7	7,926.1	33.7	32.4	60.88	-1,149.8	195.9	2,019.3	1,969.0	50.34	40.115		
9,400.0	9,371.3	8,325.0	7,927.4	33.9	32.4	57.18	-1,149.1	201.0	2,051.1	2,001.3	49.86	41.141		
9,450.0	9,419.5	8,331.0	7,928.8	34.0	32.4	53.82	-1,148.2	206.7	2,081.8	2,032.4	49.38	42.159		
9,500.0	9,466.4	8,337.6	7,930.3	34.1	32.4	50.79	-1,147.2	213.1	2,111.1	2,062.1	48.91	43.162		
9,550.0	9,511.6	8,377.0	7,937.0	34.2	32.3	47.40	-1,141.0	251.5	2,139.8	2,091.1	48.75	43.897		
9,600.0	9,554.7	8,377.0	7,937.0	34.4	32.3	45.25	-1,141.0	251.5	2,165.4	2,117.1	48.23	44.894		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #122H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 163-MWD													Offset Well Error:	0.0 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		
9,650.0	9,595.5	8,377.0	7,937.0	34.5	32.3	43.36	-1,141.0	251.5	2,189.2	2,141.4	47.74	45.852		
9,700.0	9,633.7	8,377.0	7,937.0	34.6	32.3	41.72	-1,141.0	251.5	2,211.0	2,163.7	47.28	46.761		
9,750.0	9,668.8	8,377.0	7,937.0	34.7	32.3	40.30	-1,141.0	251.5	2,230.8	2,184.0	46.86	47.607		
9,800.0	9,700.8	8,410.0	7,941.0	34.8	32.3	38.70	-1,135.5	283.7	2,248.2	2,201.5	46.76	48.082		
9,850.0	9,729.2	8,441.8	7,944.5	35.0	32.3	37.41	-1,130.0	314.9	2,262.8	2,216.1	46.67	48.483		
9,900.0	9,754.0	8,471.0	7,947.3	35.1	32.3	36.40	-1,124.8	343.5	2,274.4	2,227.8	46.59	48.822		
9,950.0	9,774.9	8,471.0	7,947.3	35.3	32.3	35.86	-1,124.8	343.5	2,283.4	2,237.0	46.36	49.255		
10,000.0	9,791.8	8,509.7	7,950.5	35.5	32.3	35.22	-1,118.1	381.4	2,289.1	2,242.6	46.49	49.238		
10,050.0	9,804.5	8,528.6	7,951.8	35.8	32.4	34.93	-1,115.0	400.0	2,292.2	2,245.6	46.53	49.258		
10,100.0	9,812.9	8,566.0	7,953.7	36.0	32.6	34.75	-1,109.3	437.0	2,292.6	2,245.8	46.77	49.013		
10,125.2	9,815.5	8,566.0	7,953.7	36.2	32.6	34.82	-1,109.3	437.0	2,291.4	2,244.6	46.79	48.973		
10,200.0	9,820.7	8,566.0	7,953.7	36.7	32.6	34.88	-1,109.3	437.0	2,287.5	2,240.6	46.93	48.747		
10,225.5	9,822.0	8,594.1	7,954.7	36.9	32.9	34.81	-1,105.5	464.8	2,286.0	2,238.8	47.19	48.437		
10,300.0	9,825.5	8,621.0	7,955.2	37.5	33.2	34.74	-1,102.2	491.5	2,282.8	2,235.1	47.65	47.910		
10,400.0	9,830.2	8,660.0	7,955.3	38.4	33.6	34.64	-1,098.3	530.3	2,280.9	2,232.5	48.39	47.135		
10,413.2	9,830.8	8,660.0	7,955.3	38.5	33.6	34.64	-1,098.3	530.3	2,280.9	2,232.4	48.47	47.056		
10,500.0	9,834.9	8,690.5	7,955.0	39.4	34.0	34.57	-1,096.1	560.7	2,281.9	2,232.7	49.24	46.346		
10,600.0	9,839.7	8,723.5	7,954.2	40.6	34.5	34.52	-1,094.9	593.6	2,285.8	2,235.6	50.23	45.507		
10,700.0	9,844.4	8,941.0	7,962.1	41.9	37.6	34.71	-1,104.3	810.5	2,290.6	2,237.5	53.15	43.097		
10,800.0	9,849.1	9,000.2	7,967.3	43.3	38.6	34.82	-1,107.8	869.3	2,291.3	2,236.6	54.73	41.864		
10,900.0	9,853.8	10,900.0	7,972.8	44.7	71.3	34.96	-1,113.2	961.2	2,294.0	2,217.8	76.18	30.113		
11,000.0	9,858.5	9,214.3	7,980.1	46.3	42.3	35.10	-1,118.4	1,082.8	2,295.7	2,236.5	59.18	38.792		
11,100.0	9,863.2	9,378.2	7,990.4	47.9	45.3	35.22	-1,120.9	1,246.3	2,295.6	2,233.5	62.13	36.946		
11,200.0	9,867.9	9,474.9	7,996.7	49.6	47.1	35.25	-1,120.7	1,342.9	2,294.4	2,230.0	64.39	35.632		
11,300.0	9,872.6	9,573.3	8,002.0	51.4	49.0	35.24	-1,119.1	1,441.1	2,293.2	2,226.6	66.69	34.389		
11,400.0	9,877.3	9,668.4	8,006.1	53.2	50.9	35.19	-1,116.3	1,536.1	2,292.2	2,223.3	68.96	33.241		
11,500.0	9,882.1	9,767.6	8,010.7	55.1	52.9	35.16	-1,114.2	1,635.1	2,291.5	2,220.1	71.35	32.117		
11,600.0	9,886.8	9,853.8	8,014.3	57.0	54.6	35.11	-1,111.8	1,721.2	2,290.7	2,217.1	73.62	31.116		
11,700.0	9,891.5	10,050.9	8,023.4	58.9	58.7	34.97	-1,103.6	1,917.9	2,289.2	2,212.1	77.06	29.706		
11,800.0	9,896.2	10,145.2	8,028.9	60.9	60.7	34.87	-1,097.6	2,011.8	2,284.9	2,205.4	79.43	28.764		
11,900.0	9,900.9	10,234.8	8,033.1	63.0	62.6	34.74	-1,090.5	2,101.1	2,280.8	2,199.0	81.72	27.908		
12,000.0	9,905.6	10,327.6	8,036.3	65.0	64.6	34.57	-1,082.6	2,193.5	2,277.3	2,193.3	84.02	27.105		
12,100.0	9,910.3	10,443.8	8,042.0	67.1	67.1	34.42	-1,074.5	2,309.2	2,273.5	2,186.9	86.62	26.247		
12,200.0	9,915.0	10,535.2	8,046.3	69.2	69.1	34.28	-1,067.3	2,400.2	2,269.4	2,180.5	88.97	25.507		
12,300.0	9,919.8	10,649.1	8,051.5	71.3	71.6	34.11	-1,058.6	2,513.7	2,265.7	2,174.1	91.54	24.752		
12,400.0	9,924.5	10,770.4	8,060.5	73.5	74.3	34.04	-1,052.2	2,634.5	2,260.8	2,166.4	94.35	23.962		
12,500.0	9,929.2	10,853.2	8,067.3	75.6	76.2	34.02	-1,048.7	2,716.9	2,255.9	2,159.1	96.83	23.297		
12,600.0	9,933.9	10,945.2	8,074.1	77.8	78.3	33.98	-1,044.6	2,808.6	2,251.5	2,152.1	99.40	22.652		
12,700.0	9,938.6	10,996.6	8,077.4	80.0	79.4	33.96	-1,042.7	2,859.9	2,248.3	2,146.8	101.54	22.141		
12,795.3	9,943.1	11,046.0	8,080.2	82.1	80.5	33.96	-1,042.2	2,909.2	2,247.4	2,143.8	103.62	21.689		
12,800.0	9,943.3	11,046.0	8,080.2	82.2	80.5	33.96	-1,042.2	2,909.2	2,247.4	2,143.7	103.69	21.674		
12,900.0	9,948.0	11,113.1	8,083.3	84.4	82.1	33.98	-1,042.8	2,976.2	2,248.3	2,142.2	106.08	21.194		
13,000.0	9,952.7	11,184.0	8,085.9	86.7	83.7	34.01	-1,044.2	3,047.0	2,250.7	2,142.1	108.54	20.736		
13,100.0	9,957.5	11,260.4	8,087.5	88.9	85.5	34.03	-1,045.6	3,123.4	2,254.2	2,143.1	111.05	20.299		
13,200.0	9,962.2	11,345.9	8,088.3	91.2	87.4	34.02	-1,047.0	3,208.9	2,258.5	2,144.9	113.64	19.875		
13,300.0	9,966.9	11,436.7	8,088.9	93.4	89.5	34.02	-1,048.8	3,299.7	2,263.4	2,147.1	116.32	19.458		
13,400.0	9,971.6	11,538.6	8,089.4	95.7	91.9	34.02	-1,051.1	3,401.6	2,268.5	2,149.3	119.18	19.035		
13,500.0	9,976.3	11,657.7	8,091.6	98.0	94.7	34.05	-1,054.2	3,520.5	2,272.6	2,150.3	122.35	18.575		
13,600.0	9,981.0	11,745.1	8,093.0	100.3	96.7	34.07	-1,056.4	3,607.9	2,277.1	2,152.0	125.06	18.207		
13,700.0	9,985.7	11,845.1	8,094.0	102.6	99.1	34.08	-1,058.8	3,707.9	2,281.8	2,153.8	127.95	17.834		
13,800.0	9,990.4	11,949.9	8,095.4	104.9	101.5	34.10	-1,061.4	3,812.6	2,286.3	2,155.4	130.92	17.463		
13,900.0	9,995.2	12,045.1	8,096.0	107.2	103.8	34.08	-1,062.5	3,907.8	2,290.7	2,157.1	133.68	17.136		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #122H - Wellbore #1 - Actual													Offset Site Error:	0.0 usft
Survey Program: 163-MWD													Offset Well Error:	0.0 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		
14,000.0	9,999.9	12,135.0	8,096.1	109.5	105.9	34.06	-1,063.6	3,997.7	2,295.6	2,159.3	136.35	16,836		
14,100.0	10,004.6	12,238.3	8,097.6	111.9	108.3	34.10	-1,067.5	4,100.9	2,300.8	2,161.3	139.41	16,504		
14,200.0	10,009.3	12,340.4	8,099.4	114.2	110.7	34.15	-1,071.1	4,203.0	2,305.5	2,163.1	142.45	16,185		
14,300.0	10,014.0	12,513.7	8,103.4	116.5	114.9	34.17	-1,073.8	4,376.2	2,308.8	2,162.4	146.42	15,769		
14,400.0	10,018.7	12,613.5	8,107.7	118.9	117.2	34.21	-1,075.3	4,475.9	2,310.3	2,160.9	149.42	15,461		
14,500.0	10,023.4	12,725.0	8,112.4	121.2	119.9	34.25	-1,077.0	4,587.3	2,311.9	2,159.3	152.61	15,149		
14,600.0	10,028.1	12,858.9	8,121.9	123.6	123.1	34.41	-1,081.6	4,720.8	2,312.2	2,155.8	156.40	14,784		
14,630.4	10,029.6	12,882.5	8,123.9	124.3	123.6	34.44	-1,082.7	4,744.3	2,312.1	2,154.8	157.31	14,698		
14,700.0	10,032.8	12,938.0	8,128.5	125.9	125.0	34.54	-1,085.5	4,799.5	2,312.4	2,152.9	159.45	14,502		
14,800.0	10,037.6	13,025.0	8,135.2	128.3	127.0	34.68	-1,090.3	4,886.1	2,313.3	2,150.7	162.65	14,222		
14,900.0	10,042.3	13,112.6	8,141.4	130.7	129.1	34.82	-1,094.9	4,973.3	2,314.8	2,148.9	165.85	13,957		
15,000.0	10,047.0	13,199.1	8,146.8	133.0	131.2	34.94	-1,099.4	5,059.6	2,316.8	2,147.8	169.01	13,708		
15,100.0	10,051.7	13,296.3	8,152.3	135.4	133.5	35.06	-1,104.2	5,156.4	2,319.2	2,146.9	172.33	13,458		
15,200.0	10,056.4	13,412.3	8,158.8	137.8	136.3	35.19	-1,109.2	5,272.2	2,321.4	2,145.4	175.95	13,194		
15,300.0	10,061.1	13,532.6	8,165.6	140.1	139.2	35.29	-1,112.7	5,392.2	2,322.6	2,143.1	179.54	12,937		
15,400.0	10,065.8	13,645.2	8,171.2	142.5	141.9	35.33	-1,113.6	5,504.7	2,323.3	2,140.5	182.83	12,707		
15,500.0	10,070.5	13,748.7	8,175.3	144.9	144.4	35.31	-1,112.2	5,608.1	2,323.5	2,137.6	185.81	12,504		
15,600.0	10,075.3	13,851.9	8,178.7	147.3	146.8	35.25	-1,109.8	5,711.2	2,323.7	2,135.0	188.67	12,316		
15,700.0	10,080.0	13,950.5	8,181.3	149.7	149.2	35.16	-1,106.4	5,809.7	2,323.7	2,132.3	191.39	12,141		
15,800.0	10,084.7	14,034.7	8,183.5	152.0	151.2	35.10	-1,103.8	5,893.9	2,324.1	2,130.1	193.98	11,981		
15,900.0	10,089.4	14,124.0	8,185.3	154.4	153.4	35.03	-1,101.6	5,983.1	2,325.2	2,128.6	196.62	11,826		
16,000.0	10,094.1	14,240.6	8,187.3	156.8	156.2	34.93	-1,098.1	6,099.6	2,326.3	2,126.8	199.46	11,663		
16,100.0	10,098.8	14,339.2	8,188.7	159.2	158.5	34.80	-1,093.5	6,198.1	2,326.8	2,124.8	202.00	11,519		
16,200.0	10,103.5	14,430.0	8,189.1	161.6	160.7	34.66	-1,088.7	6,288.8	2,327.6	2,123.2	204.36	11,389		
16,300.0	10,108.2	14,522.1	8,189.8	164.0	162.9	34.54	-1,084.8	6,380.8	2,328.8	2,122.0	206.81	11,260		
16,400.0	10,113.0	14,739.3	8,201.4	166.4	168.1	34.56	-1,083.2	6,597.6	2,328.8	2,117.7	211.18	11,028		
16,500.0	10,117.7	14,844.4	8,211.2	168.8	170.7	34.63	-1,082.8	6,702.3	2,325.3	2,110.8	214.50	10,841		
16,600.0	10,122.4	14,952.7	8,221.4	171.2	173.3	34.69	-1,081.4	6,810.0	2,321.0	2,103.2	217.80	10,657		
16,700.0	10,127.1	15,041.4	8,228.9	173.6	175.4	34.71	-1,079.5	6,898.5	2,317.0	2,096.2	220.79	10,494		
16,800.0	10,131.8	15,131.3	8,235.8	176.0	177.6	34.71	-1,077.1	6,988.0	2,313.4	2,089.7	223.70	10,342		
16,900.0	10,136.5	15,199.0	8,240.1	178.4	179.2	34.68	-1,074.8	7,055.6	2,310.6	2,084.3	226.30	10,210		
17,000.0	10,141.2	15,270.4	8,243.3	180.8	180.9	34.63	-1,071.9	7,126.9	2,309.0	2,080.2	228.77	10,093		
17,044.9	10,143.3	15,299.3	8,244.0	181.9	181.6	34.60	-1,070.7	7,155.7	2,308.9	2,079.1	229.81	10,047		
17,100.0	10,145.9	15,339.8	8,244.7	183.2	182.6	34.55	-1,068.8	7,196.2	2,309.0	2,078.0	231.07	9,993		
17,200.0	10,150.7	15,413.2	8,244.9	185.6	184.3	34.44	-1,065.3	7,269.5	2,310.2	2,077.0	233.26	9,904		
17,218.0	10,151.5	15,426.4	8,244.8	186.1	184.7	34.42	-1,064.6	7,282.7	2,310.6	2,076.9	233.64	9,889 SF		
17,218.7	10,151.5	15,427.0	8,244.8	186.1	184.7	34.42	-1,064.6	7,283.2	2,310.6	2,077.0	233.64	9,890		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	164.69	-110.3	30.2	114.3					
100.0	100.0	101.0	99.0	0.1	0.1	164.69	-110.3	30.2	114.3	114.1	0.26	439.947		
200.0	200.0	201.0	199.0	0.5	0.5	164.69	-110.3	30.2	114.3	113.4	0.98	117.050		
300.0	300.0	301.0	299.0	0.8	0.8	164.69	-110.3	30.2	114.3	112.6	1.69	67.505		
400.0	400.0	401.0	399.0	1.2	1.2	164.69	-110.3	30.2	114.3	111.9	2.41	47.429		
500.0	500.0	501.0	499.0	1.6	1.6	164.69	-110.3	30.2	114.3	111.2	3.13	36.557		
600.0	600.0	601.0	599.0	1.9	1.9	164.69	-110.3	30.2	114.3	110.5	3.84	29.740		
700.0	700.0	701.0	699.0	2.3	2.3	164.69	-110.3	30.2	114.3	109.8	4.56	25.066		
800.0	800.0	801.0	799.0	2.6	2.6	164.69	-110.3	30.2	114.3	109.1	5.28	21.661		
900.0	900.0	901.0	899.0	3.0	3.0	164.69	-110.3	30.2	114.3	108.3	6.00	19.071		
1,000.0	1,000.0	999.0	999.0	3.4	3.4	164.69	-110.3	30.2	114.3	107.6	6.71	17.052 CC		
1,100.0	1,100.0	1,097.4	1,097.4	3.7	3.7	164.94	-111.1	29.9	115.0	107.6	7.40	15,542 ES		
1,200.0	1,200.0	1,195.8	1,195.8	4.1	4.0	165.69	-113.4	28.9	117.1	109.0	8.08	14.486		
1,300.0	1,300.0	1,294.1	1,293.9	4.4	4.3	166.87	-117.3	27.4	120.5	111.8	8.76	13.753		
1,400.0	1,400.0	1,392.2	1,391.8	4.8	4.7	168.41	-122.7	25.2	125.5	116.0	9.45	13.279		
1,500.0	1,500.0	1,490.0	1,489.4	5.1	5.0	170.22	-129.7	22.3	132.0	121.8	10.14	13.020		
1,600.0	1,600.0	1,587.6	1,586.5	5.5	5.4	-125.06	-138.2	18.9	140.5	129.7	10.81	12.995		
1,700.0	1,700.0	1,684.7	1,683.1	5.9	5.7	-123.71	-148.2	14.9	151.7	140.2	11.49	13.201		
1,800.0	1,799.9	1,781.4	1,779.0	6.2	6.1	-122.74	-159.6	10.3	165.3	153.1	12.16	13.589		
1,900.0	1,899.7	1,877.5	1,874.1	6.6	6.4	-122.11	-172.5	5.1	181.4	168.5	12.84	14.126		
2,000.0	1,999.4	1,973.0	1,968.3	6.9	6.8	-121.75	-186.7	-0.7	199.8	186.3	13.51	14.787		
2,100.0	2,098.9	2,067.7	2,061.5	7.3	7.2	-121.59	-202.3	-6.9	220.6	206.4	14.18	15.551		
2,200.0	2,198.3	2,161.6	2,153.7	7.6	7.6	-121.58	-219.1	-13.7	243.7	228.8	14.86	16.402		
2,300.0	2,297.4	2,254.9	2,244.9	8.0	8.0	-121.68	-237.2	-21.0	269.1	253.6	15.54	17.321		
2,400.0	2,396.4	2,351.3	2,339.0	8.4	8.4	-122.04	-256.5	-28.8	295.5	279.3	16.26	18.172		
2,500.0	2,495.5	2,447.7	2,433.2	8.8	8.8	-122.35	-275.8	-36.6	322.0	305.0	17.00	18.944		
2,600.0	2,594.5	2,544.2	2,527.3	9.2	9.2	-122.60	-295.2	-44.4	348.5	330.7	17.74	19.646		
2,700.0	2,693.5	2,640.6	2,621.5	9.5	9.7	-122.82	-314.5	-52.2	375.0	356.5	18.48	20.287		
2,800.0	2,792.5	2,737.0	2,715.6	9.9	10.1	-123.01	-333.8	-60.0	401.4	382.2	19.23	20.873		
2,900.0	2,891.6	2,833.4	2,809.8	10.3	10.6	-123.18	-353.1	-67.8	427.9	407.9	19.99	21.412		
3,000.0	2,990.6	2,929.9	2,903.9	10.7	11.0	-123.33	-372.5	-75.6	454.4	433.7	20.74	21.907		
3,100.0	3,089.6	3,026.3	2,998.0	11.1	11.5	-123.46	-391.8	-83.4	480.9	459.4	21.50	22.365		
3,200.0	3,188.6	3,122.7	3,092.2	11.5	11.9	-123.58	-411.1	-91.2	507.4	485.1	22.27	22.788		
3,300.0	3,287.7	3,219.1	3,186.3	11.9	12.4	-123.69	-430.4	-99.0	533.9	510.9	23.03	23.181		
3,400.0	3,386.7	3,315.5	3,280.5	12.3	12.8	-123.78	-449.7	-106.8	560.4	536.6	23.80	23.546		
3,500.0	3,485.7	3,412.0	3,374.6	12.7	13.3	-123.87	-469.1	-114.6	586.9	562.3	24.57	23.887		
3,600.0	3,584.8	3,508.4	3,468.8	13.1	13.7	-123.95	-488.4	-122.4	613.4	588.0	25.34	24.205		
3,700.0	3,683.8	3,604.8	3,562.9	13.5	14.2	-124.02	-507.7	-130.2	639.9	613.8	26.12	24.502		
3,800.0	3,782.8	3,701.2	3,657.0	13.9	14.7	-124.09	-527.0	-138.0	666.4	639.5	26.89	24.781		
3,900.0	3,881.8	3,802.4	3,751.2	14.4	15.2	-124.15	-546.3	-145.8	692.9	665.2	27.69	25.026		
4,000.0	3,980.9	3,905.9	3,845.3	14.8	15.7	-124.21	-565.7	-153.6	719.4	690.9	28.49	25.247		
4,100.0	4,079.9	4,009.5	3,939.5	15.2	16.2	-124.26	-585.0	-161.4	745.9	716.6	29.30	25.454		
4,200.0	4,178.9	4,086.9	4,033.6	15.6	16.5	-124.31	-604.3	-169.2	772.4	742.4	30.01	25.741		
4,300.0	4,277.9	4,183.3	4,127.8	16.0	17.0	-124.36	-623.6	-177.0	798.9	768.1	30.79	25.948		
4,400.0	4,377.0	4,279.8	4,221.9	16.4	17.5	-124.40	-642.9	-184.8	825.4	793.8	31.57	26.144		
4,500.0	4,476.0	4,376.2	4,316.1	16.8	18.0	-124.45	-662.3	-192.6	851.9	819.6	32.35	26.330		
4,600.0	4,575.0	4,472.6	4,410.2	17.2	18.4	-124.48	-681.6	-200.4	878.4	845.3	33.14	26.507		
4,698.1	4,672.2	4,567.2	4,502.5	17.6	18.9	-124.52	-700.5	-208.1	904.4	870.5	33.91	26.671		
4,700.0	4,674.0	4,569.0	4,504.3	17.6	18.9	-124.53	-700.9	-208.2	904.9	871.0	33.93	26.674		
4,800.0	4,773.3	4,665.6	4,598.7	18.0	19.4	-124.82	-720.3	-216.0	930.7	896.0	34.70	26.817		
4,900.0	4,872.7	4,762.6	4,693.3	18.4	19.9	-124.96	-739.7	-223.9	955.0	919.5	35.47	26.923		
5,000.0	4,972.5	4,859.8	4,788.3	18.8	20.3	-124.96	-759.2	-231.7	977.9	941.6	36.23	26.994		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
5,100.0	5,072.4	4,957.3	4,883.4	19.2	20.8	-124.83	-778.7	-239.6	999.3	962.4	36.97	27.033		
5,200.0	5,172.3	5,054.8	4,978.7	19.5	21.3	-124.57	-798.2	-247.5	1,019.4	981.7	37.69	27.044		
5,231.4	5,203.8	5,085.5	5,008.6	19.6	21.4	172.58	-804.4	-250.0	1,025.4	987.5	37.92	27.042		
5,300.0	5,272.3	5,152.5	5,074.0	19.8	21.8	172.98	-817.8	-255.4	1,038.4	1,000.0	38.41	27.037		
5,400.0	5,372.3	5,250.1	5,169.3	20.2	22.3	173.54	-837.4	-263.3	1,057.4	1,018.3	39.12	27.031		
5,500.0	5,472.3	5,347.7	5,264.7	20.5	22.7	174.09	-856.9	-271.2	1,076.6	1,036.8	39.83	27.028		
5,600.0	5,572.3	5,445.4	5,360.0	20.8	23.2	174.61	-876.5	-279.1	1,095.8	1,055.3	40.54	27.028		
5,700.0	5,672.3	5,543.0	5,455.3	21.2	23.7	175.12	-896.1	-287.0	1,115.2	1,073.9	41.26	27.030		
5,800.0	5,772.3	5,640.7	5,550.7	21.5	24.2	175.61	-915.6	-294.9	1,134.6	1,092.6	41.97	27.033		
5,900.0	5,872.3	5,738.3	5,646.0	21.8	24.7	176.09	-935.2	-302.8	1,154.1	1,111.4	42.68	27.039		
6,000.0	5,972.3	5,835.9	5,741.3	22.2	25.2	176.54	-954.8	-310.7	1,173.6	1,130.2	43.39	27.045		
6,100.0	6,072.3	5,933.6	5,836.7	22.5	25.6	176.99	-974.3	-318.6	1,193.3	1,149.1	44.11	27.053		
6,200.0	6,172.3	6,031.2	5,932.0	22.9	26.1	177.42	-993.9	-326.5	1,213.0	1,168.1	44.82	27.063		
6,300.0	6,272.3	6,128.8	6,027.3	23.2	26.6	177.83	-1,013.5	-334.4	1,232.7	1,187.2	45.53	27.073		
6,400.0	6,372.3	6,226.5	6,122.6	23.5	27.1	178.24	-1,033.0	-342.3	1,252.5	1,206.3	46.25	27.084		
6,500.0	6,472.3	6,343.8	6,237.3	23.9	27.7	178.69	-1,056.0	-351.5	1,272.1	1,225.0	47.13	26.992		
6,600.0	6,572.3	6,486.1	6,377.3	24.2	28.3	179.15	-1,080.0	-361.2	1,288.8	1,240.6	48.18	26.751		
6,700.0	6,672.3	6,630.3	6,519.9	24.6	28.9	179.51	-1,099.3	-369.0	1,302.2	1,253.0	49.17	26.482		
6,800.0	6,772.3	6,775.9	6,664.6	24.9	29.5	179.77	-1,113.7	-374.8	1,312.1	1,262.0	50.10	26.187		
6,900.0	6,872.3	6,922.4	6,810.8	25.2	30.0	179.94	-1,123.0	-378.6	1,318.4	1,267.5	50.96	25.870		
7,000.0	6,972.3	7,069.4	6,957.8	25.6	30.5	-179.99	-1,127.1	-380.2	1,321.2	1,269.5	51.75	25.531		
7,100.0	7,072.3	7,183.0	7,071.3	25.9	30.8	-179.99	-1,127.4	-380.3	1,321.4	1,269.0	52.43	25.204		
7,200.0	7,172.3	7,283.0	7,171.3	26.3	31.1	-179.99	-1,127.4	-380.3	1,321.4	1,268.3	53.08	24.895		
7,300.0	7,272.3	7,383.0	7,271.3	26.6	31.3	-179.99	-1,127.4	-380.3	1,321.4	1,267.6	53.73	24.592		
7,400.0	7,372.3	7,483.2	7,371.5	27.0	31.6	-179.99	-1,127.4	-380.2	1,321.4	1,267.0	54.39	24.296		
7,489.2	7,461.5	7,572.7	7,460.5	27.3	31.8	179.63	-1,127.3	-371.5	1,321.3	1,266.4	54.96	24.040		
7,500.0	7,472.3	7,583.3	7,470.9	27.3	31.9	179.55	-1,127.3	-369.5	1,321.3	1,266.3	55.03	24.010		
7,600.0	7,572.3	7,677.1	7,561.0	27.7	32.0	178.44	-1,127.1	-344.0	1,321.7	1,266.0	55.66	23.746		
7,700.0	7,672.3	7,760.7	7,636.9	28.0	32.2	176.93	-1,126.9	-309.1	1,323.3	1,267.0	56.26	23.521		
7,800.0	7,772.3	7,832.7	7,697.7	28.3	32.2	175.26	-1,126.7	-270.4	1,327.3	1,270.4	56.80	23.365		
7,900.0	7,872.3	7,893.7	7,744.9	28.7	32.3	173.60	-1,126.4	-232.0	1,334.7	1,277.4	57.26	23.311		
8,000.0	7,972.3	7,944.8	7,781.3	29.0	32.3	172.07	-1,126.2	-196.0	1,346.4	1,288.9	57.57	23.388		
8,100.0	8,072.3	7,987.7	7,809.1	29.4	32.3	170.68	-1,126.0	-163.5	1,363.1	1,305.4	57.71	23.620		
8,200.0	8,172.3	8,023.7	7,830.6	29.7	32.3	169.46	-1,125.8	-134.5	1,385.0	1,327.3	57.65	24.023		
8,300.0	8,272.3	8,050.0	7,845.1	30.1	32.3	168.55	-1,125.6	-112.6	1,412.3	1,354.9	57.36	24.620		
8,400.0	8,372.3	8,080.3	7,860.6	30.4	32.3	167.46	-1,125.5	-86.5	1,445.0	1,388.0	56.96	25.366		
8,500.0	8,472.3	8,100.0	7,869.9	30.8	32.3	166.74	-1,125.4	-69.2	1,482.9	1,426.6	56.34	26.323		
8,600.0	8,572.3	8,122.2	7,879.6	31.1	32.3	165.93	-1,125.2	-49.3	1,525.9	1,470.2	55.63	27.429		
8,700.0	8,672.3	8,150.0	7,890.8	31.5	32.3	164.89	-1,125.1	-23.8	1,573.6	1,518.7	54.90	28.664		
8,800.0	8,772.3	8,150.0	7,890.8	31.8	32.3	164.89	-1,125.1	-23.8	1,625.5	1,571.7	53.82	30.200		
8,900.0	8,872.3	8,167.2	7,897.0	32.2	32.3	164.24	-1,125.0	-7.8	1,681.5	1,628.6	52.90	31.787		
9,000.0	8,972.3	8,178.9	7,901.0	32.5	32.3	163.80	-1,124.9	3.3	1,741.3	1,689.4	51.91	33.546		
9,100.0	9,072.3	8,200.0	7,907.6	32.9	32.3	163.00	-1,124.8	23.3	1,804.5	1,753.4	51.02	35.370		
9,200.0	9,172.3	8,200.0	7,907.6	33.2	32.3	163.00	-1,124.8	23.3	1,870.5	1,820.6	49.93	37.466		
9,272.2	9,244.5	8,200.0	7,907.6	33.5	32.3	163.00	-1,124.8	23.3	1,920.0	1,870.8	49.16	39.058		
9,300.0	9,272.3	8,200.0	7,907.6	33.6	32.3	70.64	-1,124.8	23.3	1,939.3	1,890.5	48.86	39.690		
9,350.0	9,322.1	8,200.0	7,907.6	33.7	32.3	66.24	-1,124.8	23.3	1,973.7	1,925.4	48.32	40.845		
9,400.0	9,371.3	8,218.9	7,912.9	33.9	32.2	61.56	-1,124.6	41.4	2,007.2	1,959.2	47.98	41.834		
9,450.0	9,419.5	8,225.8	7,914.7	34.0	32.2	57.64	-1,124.6	48.0	2,039.9	1,992.3	47.51	42.934		
9,500.0	9,466.4	8,250.0	7,920.3	34.1	32.2	53.71	-1,124.4	71.6	2,071.6	2,024.4	47.22	43.870		
9,550.0	9,511.6	8,250.0	7,920.3	34.2	32.2	50.75	-1,124.4	71.6	2,101.6	2,054.9	46.71	44.994		
9,600.0	9,554.7	8,250.0	7,920.3	34.4	32.2	48.12	-1,124.4	71.6	2,130.1	2,083.9	46.21	46.090		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #122H - Wellbore #1 - Altitude Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,650.0	9,595.5	8,250.0	7,920.3	34.5	32.2	45.79	-1,124.4	71.6	2,157.0	2,111.2	45.75	47.144		
9,700.0	9,633.7	8,269.2	7,924.0	34.6	32.2	43.51	-1,124.3	90.5	2,181.7	2,136.2	45.50	47.952		
9,750.0	9,668.8	8,279.3	7,925.7	34.7	32.2	41.66	-1,124.3	100.4	2,204.5	2,159.3	45.20	48.774		
9,800.0	9,700.8	8,300.0	7,928.7	34.8	32.2	39.99	-1,124.1	120.9	2,225.2	2,180.2	45.03	49.418		
9,850.0	9,729.2	8,300.0	7,928.7	35.0	32.2	38.75	-1,124.1	120.9	2,243.4	2,198.6	44.74	50.138		
9,900.0	9,754.0	8,300.0	7,928.7	35.1	32.2	37.71	-1,124.1	120.9	2,259.3	2,214.8	44.53	50.741		
9,950.0	9,774.9	8,322.7	7,931.1	35.3	32.2	36.75	-1,124.0	143.5	2,272.5	2,228.0	44.54	51.021		
10,000.0	9,791.8	8,347.1	7,932.7	35.5	32.2	36.00	-1,123.8	167.8	2,283.4	2,238.8	44.62	51.171		
10,050.0	9,804.5	8,347.1	7,932.7	35.8	32.2	35.54	-1,123.8	167.8	2,291.3	2,246.7	44.62	51.351		
10,100.0	9,812.9	8,409.8	7,934.5	36.0	32.2	35.16	-1,123.5	210.9	2,296.3	2,251.3	45.08	50.940		
10,125.2	9,815.5	8,415.3	7,935.6	36.2	32.2	35.07	-1,123.4	235.9	2,297.6	2,252.4	45.19	50.843		
10,200.0	9,820.7	8,509.9	7,938.9	36.7	32.3	35.03	-1,122.9	310.7	2,299.0	2,253.0	46.08	49.894		
10,225.5	9,822.0	8,515.6	7,940.0	36.9	32.4	35.03	-1,122.7	336.1	2,299.2	2,253.0	46.23	49.732		
10,300.0	9,825.5	8,609.9	7,943.2	37.5	33.0	35.02	-1,122.3	410.6	2,299.4	2,252.2	47.28	48.632		
10,400.0	9,830.2	8,709.9	7,947.5	38.4	34.2	35.02	-1,121.6	510.5	2,299.8	2,251.1	48.65	47.268		
10,500.0	9,834.9	8,809.9	7,951.9	39.4	35.5	35.01	-1,121.0	610.4	2,300.1	2,249.9	50.18	45.840		
10,600.0	9,839.7	8,909.9	7,956.2	40.6	36.9	35.01	-1,120.3	710.3	2,300.4	2,248.5	51.84	44.378		
10,700.0	9,844.4	9,009.9	7,960.5	41.9	38.5	35.00	-1,119.7	810.2	2,300.7	2,247.1	53.62	42.906		
10,800.0	9,849.1	9,090.1	7,964.9	43.3	39.8	34.99	-1,119.0	910.1	2,301.0	2,245.7	55.31	41.600		
10,900.0	9,853.8	9,209.9	7,969.2	44.7	41.8	34.99	-1,118.4	1,010.0	2,301.3	2,243.8	57.52	40.008		
11,000.0	9,858.5	9,309.9	7,973.5	46.3	43.6	34.98	-1,117.7	1,109.9	2,301.6	2,242.0	59.61	38.609		
11,100.0	9,863.2	9,409.9	7,977.8	47.9	45.4	34.98	-1,117.1	1,209.8	2,301.9	2,240.1	61.79	37.255		
11,200.0	9,867.9	9,509.9	7,982.2	49.6	47.3	34.97	-1,116.5	1,309.7	2,302.2	2,238.2	64.04	35.951		
11,300.0	9,872.6	9,609.9	7,986.5	51.4	49.3	34.97	-1,115.8	1,409.6	2,302.5	2,236.2	66.35	34.701		
11,400.0	9,877.3	9,709.9	7,990.8	53.2	51.3	34.96	-1,115.2	1,509.5	2,302.8	2,234.1	68.73	33.507		
11,500.0	9,882.1	9,790.1	7,995.2	55.1	52.9	34.96	-1,114.5	1,609.4	2,303.2	2,232.2	70.90	32.482		
11,600.0	9,886.8	9,890.1	7,999.5	57.0	55.0	34.95	-1,113.9	1,709.3	2,303.5	2,230.1	73.38	31.392		
11,700.0	9,891.5	10,059.1	8,006.8	58.9	58.5	34.85	-1,108.4	1,878.0	2,302.3	2,225.7	76.53	30.083		
11,800.0	9,896.2	10,158.9	8,011.1	60.9	60.6	34.74	-1,102.5	1,977.6	2,299.6	2,220.7	78.94	29.130		
11,900.0	9,900.9	10,258.8	8,015.5	63.0	62.7	34.63	-1,096.7	2,077.2	2,296.9	2,215.6	81.38	28.225		
12,000.0	9,905.6	10,358.7	8,019.8	65.0	64.9	34.51	-1,090.8	2,176.8	2,294.3	2,210.4	83.83	27.367		
12,100.0	9,910.3	10,458.5	8,024.1	67.1	67.0	34.40	-1,084.9	2,276.4	2,291.6	2,205.3	86.31	26.552		
12,200.0	9,915.0	10,558.4	8,028.4	69.2	69.2	34.29	-1,079.1	2,376.0	2,289.0	2,200.2	88.79	25.778		
12,300.0	9,919.8	10,658.3	8,032.7	71.3	71.4	34.17	-1,073.2	2,475.6	2,286.3	2,195.0	91.29	25.044		
12,400.0	9,924.5	10,758.1	8,037.1	73.5	73.6	34.06	-1,067.3	2,575.2	2,283.7	2,189.9	93.80	24.346		
12,500.0	9,929.2	10,858.0	8,041.4	75.6	75.9	33.94	-1,061.5	2,674.8	2,281.1	2,184.8	96.32	23.682		
12,600.0	9,933.9	10,946.4	8,045.2	77.8	77.8	33.85	-1,056.4	2,763.0	2,278.6	2,179.8	98.74	23.076		
12,700.0	9,938.6	11,015.6	8,048.2	80.0	79.4	33.80	-1,053.8	2,832.1	2,277.2	2,176.1	101.04	22.537		
12,755.7	9,941.2	11,054.2	8,049.9	81.2	80.3	33.78	-1,053.1	2,870.7	2,277.0	2,174.6	102.35	22.247		
12,800.0	9,943.3	11,085.0	8,051.2	82.2	81.0	33.78	-1,052.9	2,901.4	2,277.1	2,173.7	103.40	22.021		
12,900.0	9,948.0	11,154.3	8,054.2	84.4	82.6	33.80	-1,053.6	2,970.6	2,278.4	2,172.5	105.84	21.527		
13,000.0	9,952.7	11,220.1	8,057.1	86.7	84.1	33.86	-1,055.9	3,036.4	2,281.0	2,172.7	108.28	21.065		
13,100.0	9,957.5	11,309.7	8,060.3	88.9	86.2	33.94	-1,060.0	3,125.7	2,284.8	2,173.7	111.10	20.564		
13,200.0	9,962.2	11,409.5	8,063.8	91.2	88.5	34.03	-1,064.5	3,225.4	2,288.7	2,174.6	114.10	20.059		
13,300.0	9,966.9	11,509.4	8,067.4	93.4	90.8	34.12	-1,069.1	3,325.1	2,292.6	2,175.5	117.11	19.577		
13,400.0	9,971.6	11,609.2	8,070.9	95.7	93.1	34.22	-1,073.7	3,424.8	2,296.5	2,176.4	120.14	19.115		
13,500.0	9,976.3	11,709.1	8,074.4	98.0	95.5	34.31	-1,078.3	3,524.5	2,300.4	2,177.2	123.19	18.674		
13,600.0	9,981.0	11,808.9	8,077.9	100.3	97.8	34.40	-1,082.9	3,624.2	2,304.3	2,178.1	126.26	18.251		
13,700.0	9,985.7	11,908.8	8,081.4	102.6	100.1	34.49	-1,087.4	3,723.9	2,308.3	2,178.9	129.34	17.846		
13,800.0	9,990.4	12,008.7	8,084.9	104.9	102.5	34.58	-1,092.0	3,823.6	2,312.2	2,179.8	132.44	17.458		
13,900.0	9,995.2	12,121.5	8,088.9	107.2	105.2	34.68	-1,097.1	3,936.2	2,316.1	2,180.4	135.76	17.061		
14,000.0	9,999.9	12,277.2	8,094.4	109.5	108.8	34.70	-1,098.6	4,091.8	2,317.9	2,178.4	139.45	16.622		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #122H - Wellbore #1 - Altitude Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
14,100.0	10,004.6	12,377.2	8,097.9	111.9	111.2	34.68	-1,098.0	4,191.7	2,318.9	2,176.5	142.33	16.292		
14,200.0	10,009.3	12,477.2	8,101.4	114.2	113.6	34.67	-1,097.3	4,291.7	2,319.9	2,174.6	145.22	15.975		
14,300.0	10,014.0	12,577.2	8,104.9	116.5	115.9	34.65	-1,096.7	4,391.6	2,320.8	2,172.7	148.10	15.670		
14,400.0	10,018.7	12,677.2	8,108.4	118.9	118.3	34.63	-1,096.0	4,491.5	2,321.8	2,170.8	151.00	15.377		
14,500.0	10,023.4	12,805.1	8,113.1	121.2	121.3	34.62	-1,095.2	4,609.2	2,322.4	2,168.2	154.27	15.054		
14,600.0	10,028.1	12,905.1	8,117.6	123.6	123.7	34.62	-1,094.6	4,709.1	2,322.6	2,165.4	157.21	14.774		
14,700.0	10,032.8	13,005.1	8,122.0	125.9	126.1	34.61	-1,094.0	4,809.0	2,322.9	2,162.7	160.15	14.504		
14,800.0	10,037.6	13,105.1	8,126.4	128.3	128.5	34.61	-1,093.3	4,908.9	2,323.1	2,160.0	163.09	14.244		
14,900.0	10,042.3	13,205.1	8,130.9	130.7	130.9	34.61	-1,092.7	5,008.8	2,323.3	2,157.3	166.04	13.992		
15,000.0	10,047.0	13,305.1	8,135.3	133.0	133.3	34.60	-1,092.1	5,108.7	2,323.5	2,154.5	168.99	13.749		
15,100.0	10,051.7	13,394.9	8,139.8	135.4	135.4	34.60	-1,091.4	5,208.6	2,323.7	2,151.9	171.80	13.526		
15,200.0	10,056.4	13,494.9	8,144.2	137.8	137.8	34.59	-1,090.8	5,308.4	2,324.0	2,149.2	174.75	13.298		
15,300.0	10,061.1	13,594.9	8,148.7	140.1	140.2	34.59	-1,090.1	5,408.3	2,324.2	2,146.5	177.71	13.078		
15,400.0	10,065.8	13,694.9	8,153.1	142.5	142.6	34.59	-1,089.5	5,508.2	2,324.4	2,143.7	180.68	12.865		
15,500.0	10,070.5	13,794.9	8,157.6	144.9	145.0	34.58	-1,088.9	5,608.1	2,324.6	2,141.0	183.64	12.658		
15,600.0	10,075.3	13,905.1	8,162.0	147.3	147.6	34.58	-1,088.2	5,708.0	2,324.8	2,138.1	186.76	12.448		
15,700.0	10,080.0	14,005.1	8,166.5	149.7	150.0	34.58	-1,087.6	5,807.9	2,325.1	2,135.3	189.73	12.254		
15,800.0	10,084.7	14,105.1	8,170.9	152.0	152.4	34.57	-1,087.0	5,907.8	2,325.3	2,132.6	192.70	12.067		
15,900.0	10,089.4	14,205.1	8,175.3	154.4	154.8	34.57	-1,086.3	6,007.7	2,325.5	2,129.8	195.68	11.884		
16,000.0	10,094.1	14,305.1	8,179.8	156.8	157.2	34.56	-1,085.7	6,107.6	2,325.7	2,127.1	198.65	11.707		
16,100.0	10,098.8	14,405.1	8,184.2	159.2	159.6	34.56	-1,085.0	6,207.5	2,325.9	2,124.3	201.63	11.536		
16,200.0	10,103.5	14,505.1	8,188.7	161.6	162.1	34.56	-1,084.4	6,307.4	2,326.2	2,121.6	204.61	11.369		
16,300.0	10,108.2	14,605.1	8,193.1	164.0	164.5	34.55	-1,083.8	6,407.3	2,326.4	2,118.8	207.59	11.207		
16,400.0	10,113.0	14,705.1	8,197.6	166.4	166.9	34.55	-1,083.1	6,507.2	2,326.6	2,116.0	210.57	11.049		
16,500.0	10,117.7	14,805.1	8,202.0	168.8	169.3	34.55	-1,082.5	6,607.1	2,326.8	2,113.3	213.56	10.896		
16,600.0	10,122.4	14,894.9	8,206.5	171.2	171.5	34.54	-1,081.8	6,707.0	2,327.0	2,110.7	216.39	10.754		
16,700.0	10,127.1	15,005.1	8,210.9	173.6	174.1	34.54	-1,081.2	6,806.9	2,327.3	2,107.7	219.53	10.601		
16,800.0	10,131.8	15,105.1	8,215.4	176.0	176.5	34.53	-1,080.6	6,906.8	2,327.5	2,105.0	222.52	10.460		
16,900.0	10,136.5	15,205.1	8,219.8	178.4	179.0	34.53	-1,079.9	7,006.7	2,327.7	2,102.2	225.50	10.322		
17,000.0	10,141.2	15,294.9	8,224.3	180.8	181.1	34.53	-1,079.3	7,106.6	2,327.9	2,099.6	228.34	10.195		
17,100.0	10,145.9	15,405.1	8,228.7	183.2	183.8	34.52	-1,078.7	7,206.5	2,328.1	2,096.7	231.48	10.057		
17,200.0	10,150.7	15,505.1	8,233.1	185.6	186.2	34.52	-1,078.0	7,306.4	2,328.4	2,093.9	234.47	9.930		
17,218.0	10,151.5	15,512.9	8,233.9	186.1	186.4	34.52	-1,077.9	7,324.4	2,328.4	2,093.5	234.86	9.914		
17,218.7	10,151.5	15,513.6	8,234.0	186.1	186.4	34.52	-1,077.9	7,325.1	2,328.4	2,093.5	234.87	9.913 SF		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	-1.0	0.0	0.0	0.47	29.8	0.2	29.8					
100.0	100.0	101.0	99.0	0.1	0.1	0.47	29.8	0.2	29.8	29.5	0.26	114.637		
200.0	200.0	201.0	199.0	0.5	0.5	0.47	29.8	0.2	29.8	28.8	0.98	30.500		
300.0	300.0	301.0	299.0	0.8	0.8	0.47	29.8	0.2	29.8	28.1	1.69	17.590		
400.0	400.0	401.0	399.0	1.2	1.2	0.47	29.8	0.2	29.8	27.4	2.41	12.359		
500.0	500.0	501.0	499.0	1.6	1.6	0.47	29.8	0.2	29.8	26.7	3.13	9.526		
600.0	600.0	601.0	599.0	1.9	1.9	0.47	29.8	0.2	29.8	25.9	3.84	7.749		
700.0	700.0	701.0	699.0	2.3	2.3	0.47	29.8	0.2	29.8	25.2	4.56	6.531		
800.0	800.0	801.0	799.0	2.6	2.6	0.47	29.8	0.2	29.8	24.5	5.28	5.644		
900.0	900.0	901.0	899.0	3.0	3.0	0.47	29.8	0.2	29.8	23.8	6.00	4.969		
1,000.0	1,000.0	999.0	999.0	3.4	3.4	0.47	29.8	0.2	29.8	23.1	6.71	4.443		
1,100.0	1,100.0	1,099.4	1,099.4	3.7	3.7	-0.55	29.1	-0.3	29.1	21.7	7.41	3.930		
1,200.0	1,200.0	1,199.8	1,199.7	4.1	4.0	-3.94	27.0	-1.9	27.1	19.0	8.10	3.346		
1,300.0	1,300.0	1,300.0	1,299.8	4.4	4.4	-10.83	23.5	-4.5	24.0	15.2	8.79	2.728		
1,400.0	1,400.0	1,400.0	1,399.7	4.8	4.7	-23.70	18.7	-8.2	20.4	10.9	9.49	2.150		
1,500.0	1,500.0	1,499.8	1,499.2	5.1	5.1	-46.11	12.4	-12.9	17.9	7.7	10.20	1.759		
1,536.9	1,536.9	1,536.6	1,535.8	5.3	5.2	6.26	9.8	-14.9	17.7	7.3	10.46	1.697 CC, ES		
1,600.0	1,600.0	1,599.3	1,598.2	5.5	5.4	-13.08	4.9	-18.7	18.5	7.6	10.89	1.696 SF		
1,700.0	1,700.0	1,698.5	1,696.8	5.9	5.8	-41.14	-4.1	-25.5	23.2	11.6	11.56	2.005		
1,800.0	1,799.9	1,802.8	1,794.6	6.2	6.2	-60.99	-14.3	-33.2	32.0	19.8	12.23	2.620		
1,900.0	1,899.7	1,903.8	1,892.7	6.6	6.5	-73.89	-25.3	-41.6	43.4	30.5	12.92	3.361		
2,000.0	1,999.4	2,004.9	1,990.6	6.9	6.9	-82.94	-36.2	-49.9	55.9	42.2	13.63	4.097		
2,100.0	2,098.9	2,093.9	2,088.5	7.3	7.3	-90.01	-47.2	-58.2	69.2	54.8	14.31	4.831		
2,200.0	2,198.3	2,207.4	2,186.2	7.6	7.7	-95.90	-58.1	-66.5	83.4	68.3	15.10	5.521		
2,300.0	2,297.4	2,308.9	2,283.7	8.0	8.1	-101.00	-69.0	-74.8	98.5	82.7	15.85	6.215		
2,400.0	2,396.4	2,389.5	2,381.1	8.4	8.4	-105.26	-80.0	-83.1	114.5	98.0	16.53	6.925		
2,500.0	2,495.5	2,487.9	2,478.6	8.8	8.8	-108.47	-90.9	-91.4	130.9	113.7	17.29	7.574		
2,600.0	2,594.5	2,586.3	2,576.0	9.2	9.2	-110.96	-101.8	-99.7	147.7	129.7	18.04	8.186		
2,700.0	2,693.5	2,684.7	2,673.5	9.5	9.6	-112.94	-112.7	-107.9	164.7	145.9	18.80	8.758		
2,800.0	2,792.5	2,783.1	2,770.9	9.9	10.0	-114.55	-123.6	-116.2	181.8	162.2	19.57	9.292		
2,900.0	2,891.6	2,881.5	2,868.4	10.3	10.4	-115.88	-134.5	-124.5	199.1	178.7	20.33	9.791		
3,000.0	2,990.6	2,979.9	2,965.8	10.7	10.8	-117.00	-145.4	-132.8	216.4	195.3	21.10	10.257		
3,100.0	3,089.6	3,078.3	3,063.3	11.1	11.2	-117.95	-156.3	-141.1	233.8	211.9	21.86	10.693		
3,200.0	3,188.6	3,176.7	3,160.7	11.5	11.6	-118.78	-167.2	-149.3	251.3	228.6	22.63	11.101		
3,300.0	3,287.7	3,275.1	3,258.2	11.9	12.0	-119.49	-178.1	-157.6	268.8	245.3	23.41	11.483		
3,400.0	3,386.7	3,373.5	3,355.6	12.3	12.5	-120.12	-189.0	-165.9	286.3	262.1	24.18	11.841		
3,500.0	3,485.7	3,471.9	3,453.1	12.7	12.9	-120.67	-199.9	-174.2	303.9	278.9	24.95	12.177		
3,600.0	3,584.8	3,570.3	3,550.5	13.1	13.3	-121.17	-210.8	-182.5	321.4	295.7	25.73	12.494		
3,700.0	3,683.8	3,668.7	3,648.0	13.5	13.7	-121.61	-221.8	-190.8	339.1	312.6	26.50	12.793		
3,800.0	3,782.8	3,767.1	3,745.4	13.9	14.1	-122.01	-232.7	-199.0	356.7	329.4	27.28	13.074		
3,900.0	3,881.8	3,865.6	3,842.9	14.4	14.5	-122.37	-243.6	-207.3	374.3	346.3	28.06	13.341		
4,000.0	3,980.9	3,964.0	3,940.3	14.8	14.9	-122.70	-254.5	-215.6	392.0	363.2	28.84	13.592		
4,100.0	4,079.9	4,062.4	4,037.7	15.2	15.3	-123.00	-265.4	-223.9	409.7	380.0	29.62	13.831		
4,200.0	4,178.9	4,160.8	4,135.2	15.6	15.7	-123.28	-276.3	-232.2	427.3	396.9	30.40	14.057		
4,300.0	4,277.9	4,259.2	4,232.6	16.0	16.1	-123.53	-287.2	-240.4	445.0	413.8	31.18	14.272		
4,400.0	4,377.0	4,357.6	4,330.1	16.4	16.5	-123.76	-298.1	-248.7	462.7	430.8	31.96	14.477		
4,500.0	4,476.0	4,456.0	4,427.5	16.8	17.0	-123.98	-309.0	-257.0	480.4	447.7	32.75	14.671		
4,600.0	4,575.0	4,554.4	4,525.0	17.2	17.4	-124.18	-319.9	-265.3	498.1	464.6	33.53	14.857		
4,698.1	4,672.2	4,650.9	4,620.6	17.6	17.8	-124.37	-330.6	-273.4	515.5	481.2	34.30	15.030		
4,700.0	4,674.0	4,652.8	4,622.4	17.6	17.8	-124.38	-330.8	-273.6	515.8	481.5	34.31	15.034		
4,800.0	4,773.3	4,751.3	4,720.0	18.0	18.2	-124.64	-341.8	-281.9	532.8	497.7	35.09	15.184		
4,900.0	4,872.7	4,850.1	4,817.8	18.4	18.6	-124.66	-352.7	-290.2	548.3	512.4	35.86	15.292		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #135H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
5,000.0	4,972.5	4,949.1	4,915.8	18.8	19.0	-124.44	-363.7	-298.5	562.3	525.7	36.61	15.360		
5,100.0	5,072.4	5,048.1	5,013.9	19.2	19.4	-124.01	-374.6	-306.8	575.0	537.6	37.35	15.394		
5,200.0	5,172.3	5,147.1	5,112.0	19.5	19.9	-123.38	-385.6	-315.2	586.2	548.1	38.07	15.396		
5,231.4	5,203.8	5,178.3	5,142.8	19.6	20.0	173.91	-389.1	-317.8	589.5	551.2	38.30	15.391		
5,300.0	5,272.3	5,246.2	5,210.0	19.8	20.3	174.53	-396.6	-323.5	596.5	557.7	38.79	15.379		
5,400.0	5,372.3	5,345.2	5,308.1	20.2	20.7	175.42	-407.6	-331.8	606.8	567.3	39.49	15.364		
5,500.0	5,472.3	5,444.2	5,406.2	20.5	21.1	176.28	-418.6	-340.2	617.3	577.1	40.20	15.355		
5,600.0	5,572.3	5,543.2	5,504.2	20.8	21.5	177.11	-429.5	-348.5	627.9	587.0	40.91	15.348		
5,700.0	5,672.3	5,642.3	5,602.3	21.2	21.9	177.91	-440.5	-356.8	638.7	597.1	41.62	15.346		
5,800.0	5,772.3	5,755.2	5,714.3	21.5	22.4	178.71	-451.9	-365.5	648.6	606.1	42.44	15.282		
5,900.0	5,872.3	5,870.2	5,828.8	21.8	22.9	179.32	-460.8	-372.2	656.2	613.0	43.25	15.172		
6,000.0	5,972.3	5,985.8	5,944.1	22.2	23.3	179.73	-466.9	-376.9	661.5	617.5	44.03	15.024		
6,100.0	6,072.3	6,101.8	6,060.0	22.5	23.7	179.95	-470.3	-379.5	664.4	619.7	44.78	14.837		
6,200.0	6,172.3	6,213.1	6,171.3	22.9	24.0	-180.00	-471.0	-380.0	665.0	619.6	45.48	14.624		
6,300.0	6,272.3	6,313.1	6,271.3	23.2	24.3	-180.00	-471.0	-380.0	665.0	618.9	46.14	14.415		
6,400.0	6,372.3	6,413.1	6,371.3	23.5	24.6	-180.00	-471.0	-380.0	665.0	618.2	46.80	14.211		
6,500.0	6,472.3	6,513.1	6,471.3	23.9	25.0	-180.00	-471.0	-380.0	665.0	617.6	47.46	14.012		
6,600.0	6,572.3	6,613.1	6,571.3	24.2	25.3	-180.00	-471.0	-380.0	665.0	616.9	48.13	13.819		
6,700.0	6,672.3	6,713.1	6,671.3	24.6	25.6	-180.00	-471.0	-380.0	665.0	616.3	48.79	13.630		
6,800.0	6,772.3	6,813.1	6,771.3	24.9	25.9	-180.00	-471.0	-380.0	665.0	615.6	49.46	13.446		
6,900.0	6,872.3	6,913.1	6,871.3	25.2	26.2	-180.00	-471.0	-380.0	665.0	614.9	50.13	13.267		
7,000.0	6,972.3	7,013.1	6,971.3	25.6	26.5	-180.00	-471.0	-380.0	665.0	614.2	50.80	13.092		
7,100.0	7,072.3	7,113.1	7,071.3	25.9	26.8	-180.00	-471.0	-380.0	665.0	613.6	51.47	12.921		
7,200.0	7,172.3	7,213.1	7,171.3	26.3	27.1	-180.00	-471.0	-380.0	665.0	612.9	52.14	12.754		
7,300.0	7,272.3	7,313.1	7,271.3	26.6	27.4	-180.00	-471.0	-380.0	665.0	612.2	52.82	12.591		
7,400.0	7,372.3	7,413.1	7,371.3	27.0	27.7	-180.00	-471.0	-380.0	665.0	611.6	53.49	12.432		
7,500.0	7,472.3	7,513.1	7,471.3	27.3	28.1	-180.00	-471.0	-380.0	665.0	610.9	54.17	12.277		
7,600.0	7,572.3	7,613.1	7,571.3	27.7	28.4	-180.00	-471.0	-380.0	665.0	610.2	54.85	12.126		
7,700.0	7,672.3	7,713.1	7,671.3	28.0	28.7	-180.00	-471.0	-380.0	665.0	609.5	55.52	11.978		
7,800.0	7,772.3	7,813.1	7,771.3	28.3	29.0	-180.00	-471.0	-380.0	665.0	608.8	56.20	11.833		
7,900.0	7,872.3	7,913.1	7,871.3	28.7	29.3	-180.00	-471.0	-380.0	665.0	608.2	56.88	11.691		
8,000.0	7,972.3	8,013.1	7,971.3	29.0	29.7	-180.00	-471.0	-380.0	665.0	607.5	57.56	11.553		
8,100.0	8,072.3	8,113.1	8,071.3	29.4	30.0	-180.00	-471.0	-380.0	665.0	606.8	58.25	11.418		
8,200.0	8,172.3	8,213.1	8,171.3	29.7	30.3	-180.00	-471.0	-380.0	665.0	606.1	58.93	11.286		
8,300.0	8,272.3	8,313.1	8,271.3	30.1	30.6	-180.00	-471.0	-380.0	665.0	605.4	59.61	11.156		
8,400.0	8,372.3	8,413.1	8,371.3	30.4	30.9	-180.00	-471.0	-380.0	665.0	604.7	60.30	11.030		
8,500.0	8,472.3	8,513.1	8,471.3	30.8	31.3	-180.00	-471.0	-380.0	665.0	604.1	60.98	10.906		
8,600.0	8,572.3	8,613.1	8,571.3	31.1	31.6	-180.00	-471.0	-380.0	665.0	603.4	61.67	10.785		
8,700.0	8,672.3	8,713.1	8,671.3	31.5	31.9	-180.00	-471.0	-380.0	665.0	602.7	62.35	10.666		
8,777.5	8,749.8	8,790.8	8,748.8	31.7	32.2	179.60	-471.0	-375.4	665.0	602.2	62.87	10.577		
8,800.0	8,772.3	8,813.0	8,770.8	31.8	32.2	179.32	-471.0	-372.1	665.0	602.0	63.02	10.552		
8,900.0	8,872.3	8,907.5	8,862.2	32.2	32.5	177.32	-470.8	-348.9	665.6	602.0	63.66	10.456		
9,000.0	8,972.3	8,992.4	8,940.2	32.5	32.6	174.45	-470.6	-315.5	668.4	604.2	64.21	10.411		
9,100.0	9,072.3	9,066.0	9,003.2	32.9	32.8	171.22	-470.3	-277.4	675.7	611.1	64.54	10.469		
9,200.0	9,172.3	9,128.6	9,052.5	33.2	32.9	168.01	-470.0	-239.0	689.2	624.7	64.49	10.686		
9,272.2	9,244.5	9,167.4	9,080.9	33.5	32.9	165.84	-469.9	-212.5	703.7	639.6	64.15	10.970		
9,300.0	9,272.3	9,181.4	9,090.7	33.6	32.9	74.59	-469.8	-202.5	710.3	646.4	63.94	11.109		
9,350.0	9,322.1	9,206.7	9,107.7	33.7	32.9	72.01	-469.7	-183.8	722.8	659.4	63.48	11.387		
9,400.0	9,371.3	9,231.9	9,123.8	33.9	33.0	69.48	-469.5	-164.5	736.0	673.0	62.92	11.696		
9,450.0	9,419.5	9,257.1	9,139.1	34.0	33.0	67.04	-469.4	-144.5	749.4	687.1	62.29	12.031		
9,500.0	9,466.4	9,282.2	9,153.5	34.1	33.0	64.72	-469.2	-123.8	763.0	701.4	61.61	12.385		
9,550.0	9,511.6	9,307.4	9,166.9	34.2	33.0	62.53	-469.1	-102.5	776.4	715.5	60.88	12.753		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,600.0	9,554.7	9,332.6	9,179.4	34.4	33.0	60.50	-468.9	-80.7	789.5	729.4	60.15	13.127		
9,650.0	9,595.5	9,350.0	9,187.5	34.5	33.1	58.84	-468.8	-65.2	802.2	742.9	59.26	13.538		
9,700.0	9,633.7	9,382.9	9,201.5	34.6	33.1	56.94	-468.6	-35.5	814.0	755.3	58.70	13.866		
9,750.0	9,668.8	9,400.0	9,208.1	34.7	33.1	55.58	-468.5	-19.7	825.2	767.3	57.89	14.254		
9,800.0	9,700.8	9,433.1	9,219.5	34.8	33.2	54.07	-468.3	11.4	835.3	777.8	57.45	14.540		
9,850.0	9,729.2	9,450.0	9,224.6	35.0	33.2	53.03	-468.2	27.5	844.4	787.6	56.80	14.867		
9,900.0	9,754.0	9,483.4	9,233.3	35.1	33.3	51.91	-468.0	59.7	852.3	795.8	56.52	15.079		
9,950.0	9,774.9	9,500.0	9,236.9	35.3	33.4	51.17	-467.8	75.9	859.1	803.0	56.12	15.309		
10,000.0	9,791.8	9,533.6	9,242.8	35.5	33.5	50.43	-467.6	109.1	864.4	808.4	56.06	15.419		
10,050.0	9,804.5	9,550.0	9,245.0	35.8	33.6	49.99	-467.5	125.3	868.6	812.7	55.96	15.523		
10,100.0	9,812.9	9,583.9	9,248.0	36.0	33.8	49.62	-467.3	159.0	871.3	815.1	56.16	15.513		
10,125.2	9,815.5	9,603.5	9,248.8	36.2	33.9	49.50	-467.1	178.6	872.2	815.9	56.32	15.486		
10,200.0	9,820.7	9,664.9	9,250.3	36.7	34.4	49.34	-466.7	240.0	874.0	817.1	56.95	15.346		
10,225.5	9,822.0	9,690.4	9,250.9	36.9	34.5	49.30	-466.5	265.5	874.4	817.2	57.23	15.280		
10,300.0	9,825.5	9,764.9	9,252.8	37.5	35.2	49.22	-465.9	339.9	875.4	817.3	58.15	15.054		
10,400.0	9,830.2	9,864.9	9,255.3	38.4	36.2	49.10	-465.1	439.9	876.8	817.2	59.58	14.717		
10,500.0	9,834.9	9,964.8	9,257.8	39.4	37.3	48.98	-464.3	539.8	878.1	816.9	61.20	14.349		
10,600.0	9,839.7	10,064.8	9,260.3	40.6	38.6	48.87	-463.5	639.8	879.5	816.5	63.00	13.960		
10,700.0	9,844.4	10,164.8	9,262.8	41.9	39.9	48.75	-462.8	739.7	880.8	815.9	64.97	13.558		
10,800.0	9,849.1	10,264.8	9,265.3	43.3	41.4	48.64	-462.0	839.6	882.2	815.1	67.09	13.150		
10,900.0	9,853.8	10,364.7	9,267.7	44.7	42.9	48.53	-461.2	939.6	883.6	814.2	69.34	12.743		
11,000.0	9,858.5	10,464.7	9,270.2	46.3	44.5	48.41	-460.4	1,039.5	884.9	813.2	71.71	12.341		
11,100.0	9,863.2	10,564.7	9,272.7	47.9	46.2	48.30	-459.6	1,139.5	886.3	812.1	74.19	11.947		
11,200.0	9,867.9	10,664.7	9,275.2	49.6	48.0	48.18	-458.8	1,239.4	887.7	810.9	76.76	11.565		
11,300.0	9,872.6	10,764.6	9,277.7	51.4	49.8	48.07	-458.1	1,339.4	889.1	809.7	79.41	11.196		
11,400.0	9,877.3	10,864.6	9,280.2	53.2	51.7	47.96	-457.3	1,439.3	890.4	808.3	82.14	10.841		
11,500.0	9,882.1	10,964.6	9,282.7	55.1	53.6	47.85	-456.5	1,539.2	891.8	806.9	84.93	10.500		
11,600.0	9,886.8	11,064.6	9,285.2	57.0	55.6	47.74	-455.7	1,639.2	893.2	805.4	87.78	10.175		
11,700.0	9,891.5	11,164.5	9,287.7	58.9	57.6	47.62	-454.9	1,739.1	894.6	803.9	90.69	9.865		
11,800.0	9,896.2	11,264.5	9,290.2	60.9	59.6	47.51	-454.2	1,839.1	896.0	802.4	93.63	9.569		
11,900.0	9,900.9	11,364.5	9,292.6	63.0	61.7	47.40	-453.4	1,939.0	897.4	800.8	96.62	9.288		
12,000.0	9,905.6	11,464.5	9,295.1	65.0	63.7	47.29	-452.6	2,038.9	898.8	799.2	99.64	9.020		
12,100.0	9,910.3	11,564.4	9,297.6	67.1	65.9	47.18	-451.8	2,138.9	900.2	797.5	102.70	8.766		
12,200.0	9,915.0	11,664.4	9,300.1	69.2	68.0	47.07	-451.0	2,238.8	901.6	795.8	105.78	8.524		
12,300.0	9,919.8	11,764.4	9,302.6	71.3	70.2	46.96	-450.3	2,338.8	903.0	794.1	108.88	8.294		
12,400.0	9,924.5	11,864.4	9,305.1	73.5	72.3	46.85	-449.5	2,438.7	904.4	792.4	112.00	8.075		
12,500.0	9,929.2	11,964.3	9,307.6	75.6	74.5	46.75	-448.7	2,538.6	905.9	790.7	115.15	7.867		
12,600.0	9,933.9	12,064.3	9,310.1	77.8	76.7	46.64	-447.9	2,638.6	907.3	789.0	118.30	7.669		
12,700.0	9,938.6	12,164.3	9,312.6	80.0	79.0	46.53	-447.1	2,738.5	908.7	787.2	121.47	7.481		
12,800.0	9,943.3	12,264.3	9,315.1	82.2	81.2	46.42	-446.4	2,838.5	910.1	785.5	124.66	7.301		
12,900.0	9,948.0	12,364.2	9,317.6	84.4	83.4	46.31	-445.6	2,938.4	911.6	783.7	127.85	7.130		
13,000.0	9,952.7	12,464.2	9,320.0	86.7	85.7	46.21	-444.8	3,038.4	913.0	781.9	131.05	6.967		
13,100.0	9,957.5	12,564.2	9,322.5	88.9	88.0	46.10	-444.0	3,138.3	914.4	780.2	134.26	6.811		
13,200.0	9,962.2	12,664.2	9,325.0	91.2	90.3	45.99	-443.2	3,238.2	915.9	778.4	137.47	6.662		
13,300.0	9,966.9	12,764.1	9,327.5	93.4	92.5	45.89	-442.5	3,338.2	917.3	776.6	140.69	6.520		
13,400.0	9,971.6	12,864.1	9,330.0	95.7	94.8	45.78	-441.7	3,438.1	918.8	774.9	143.91	6.384		
13,500.0	9,976.3	12,964.1	9,332.5	98.0	97.1	45.68	-440.9	3,538.1	920.2	773.1	147.13	6.254		
13,600.0	9,981.0	13,064.1	9,335.0	100.3	99.5	45.57	-440.1	3,638.0	921.7	771.3	150.35	6.130		
13,700.0	9,985.7	13,164.0	9,337.5	102.6	101.8	45.47	-439.3	3,737.9	923.1	769.5	153.58	6.011		
13,800.0	9,990.4	13,264.0	9,340.0	104.9	104.1	45.36	-438.5	3,837.9	924.6	767.8	156.80	5.896		
13,900.0	9,995.2	13,364.0	9,342.5	107.2	106.4	45.26	-437.8	3,937.8	926.0	766.0	160.03	5.787		
14,000.0	9,999.9	13,464.0	9,345.0	109.5	108.8	45.16	-437.0	4,037.8	927.5	764.3	163.25	5.681		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 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	
14,100.0	10,004.6	13,563.9	9,347.4	111.9	111.1	45.05	-436.2	4,137.7	929.0	762.5	166.47	5.580	
14,200.0	10,009.3	13,663.9	9,349.9	114.2	113.4	44.95	-435.4	4,237.6	930.4	760.8	169.69	5.483	
14,300.0	10,014.0	13,763.9	9,352.4	116.5	115.8	44.85	-434.6	4,337.6	931.9	759.0	172.91	5.390	
14,400.0	10,018.7	13,863.9	9,354.9	118.9	118.1	44.74	-433.9	4,437.5	933.4	757.3	176.12	5.300	
14,500.0	10,023.4	13,963.8	9,357.4	121.2	120.5	44.64	-433.1	4,537.5	934.9	755.5	179.33	5.213	
14,600.0	10,028.1	14,063.8	9,359.9	123.6	122.9	44.54	-432.3	4,637.4	936.4	753.8	182.54	5.130	
14,700.0	10,032.8	14,163.8	9,362.4	125.9	125.2	44.44	-431.5	4,737.4	937.8	752.1	185.74	5.049	
14,800.0	10,037.6	14,263.8	9,364.9	128.3	127.6	44.34	-430.7	4,837.3	939.3	750.4	188.94	4.972	
14,900.0	10,042.3	14,363.7	9,367.4	130.7	130.0	44.24	-430.0	4,937.2	940.8	748.7	192.13	4.897	
15,000.0	10,047.0	14,463.7	9,369.9	133.0	132.3	44.14	-429.2	5,037.2	942.3	747.0	195.32	4.824	
15,100.0	10,051.7	14,563.7	9,372.4	135.4	134.7	44.04	-428.4	5,137.1	943.8	745.3	198.51	4.755	
15,200.0	10,056.4	14,663.7	9,374.8	137.8	137.1	43.94	-427.6	5,237.1	945.3	743.6	201.68	4.687	
15,300.0	10,061.1	14,763.6	9,377.3	140.1	139.5	43.84	-426.8	5,337.0	946.8	742.0	204.85	4.622	
15,400.0	10,065.8	14,863.6	9,379.8	142.5	141.9	43.74	-426.1	5,436.9	948.3	740.3	208.02	4.559	
15,500.0	10,070.5	14,963.6	9,382.3	144.9	144.2	43.64	-425.3	5,536.9	949.8	738.7	211.18	4.498	
15,600.0	10,075.3	15,063.6	9,384.8	147.3	146.6	43.54	-424.5	5,636.8	951.4	737.0	214.34	4.439	
15,700.0	10,080.0	15,163.5	9,387.3	149.7	149.0	43.44	-423.7	5,736.8	952.9	735.4	217.48	4.381	
15,800.0	10,084.7	15,263.5	9,389.8	152.0	151.4	43.34	-422.9	5,836.7	954.4	733.8	220.62	4.326	
15,900.0	10,089.4	15,363.5	9,392.3	154.4	153.8	43.25	-422.2	5,936.6	955.9	732.1	223.76	4.272	
16,000.0	10,094.1	15,463.5	9,394.8	156.8	156.2	43.15	-421.4	6,036.6	957.4	730.5	226.89	4.220	
16,100.0	10,098.8	15,563.4	9,397.3	159.2	158.6	43.05	-420.6	6,136.5	959.0	728.9	230.01	4.169	
16,200.0	10,103.5	15,663.4	9,399.7	161.6	161.0	42.96	-419.8	6,236.5	960.5	727.4	233.12	4.120	
16,300.0	10,108.2	15,763.4	9,402.2	164.0	163.4	42.86	-419.0	6,336.4	962.0	725.8	236.23	4.072	
16,400.0	10,113.0	15,863.4	9,404.7	166.4	165.8	42.76	-418.3	6,436.4	963.5	724.2	239.33	4.026	
16,500.0	10,117.7	15,963.3	9,407.2	168.8	168.2	42.67	-417.5	6,536.3	965.1	722.7	242.42	3.981	
16,600.0	10,122.4	16,063.3	9,409.7	171.2	170.6	42.57	-416.7	6,636.2	966.6	721.1	245.51	3.937	
16,700.0	10,127.1	16,163.3	9,412.2	173.6	173.0	42.48	-415.9	6,736.2	968.2	719.6	248.59	3.895	
16,800.0	10,131.8	16,263.3	9,414.7	176.0	175.4	42.38	-415.1	6,836.1	969.7	718.1	251.66	3.853	
16,900.0	10,136.5	16,363.2	9,417.2	178.4	177.8	42.29	-414.3	6,936.1	971.3	716.5	254.72	3.813	
17,000.0	10,141.2	16,463.2	9,419.7	180.8	180.3	42.19	-413.6	7,036.0	972.8	715.0	257.78	3.774	
17,100.0	10,145.9	16,563.2	9,422.2	183.2	182.7	42.10	-412.8	7,135.9	974.4	713.5	260.83	3.736	
17,200.0	10,150.7	16,663.2	9,424.7	185.6	185.1	42.01	-412.0	7,235.9	975.9	712.0	263.87	3.698	
17,218.0	10,151.5	16,681.1	9,425.1	186.1	185.5	41.99	-411.9	7,253.8	976.2	711.8	264.42	3.692	
17,218.7	10,151.5	16,681.9	9,425.1	186.1	185.5	41.99	-411.9	7,254.6	976.2	711.8	264.43	3.692	

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.0	-1.0	0.0	0.0	45.48	29.7	30.2	42.4				
100.0	100.0	101.0	99.0	0.1	0.1	45.48	29.7	30.2	42.4	42.2	0.26	163.240	
200.0	200.0	201.0	199.0	0.5	0.5	45.48	29.7	30.2	42.4	41.4	0.98	43.431	
300.0	300.0	301.0	299.0	0.8	0.8	45.48	29.7	30.2	42.4	40.7	1.69	25.048	
400.0	400.0	401.0	399.0	1.2	1.2	45.48	29.7	30.2	42.4	40.0	2.41	17.598	
500.0	500.0	501.0	499.0	1.6	1.6	45.48	29.7	30.2	42.4	39.3	3.13	13.564	
600.0	600.0	601.0	599.0	1.9	1.9	45.48	29.7	30.2	42.4	38.6	3.84	11.035	
700.0	700.0	701.0	699.0	2.3	2.3	45.48	29.7	30.2	42.4	37.9	4.56	9.301	
800.0	800.0	801.0	799.0	2.6	2.6	45.48	29.7	30.2	42.4	37.1	5.28	8.037	
900.0	900.0	901.0	899.0	3.0	3.0	45.48	29.7	30.2	42.4	36.4	6.00	7.076	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	45.48	29.7	30.2	42.4	35.7	6.71	6.320	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	45.48	29.7	30.2	42.4	35.0	7.43	5.710	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	45.48	29.7	30.2	42.4	34.3	8.15	5.208	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	45.48	29.7	30.2	42.4	33.6	8.86	4.787	
1,400.0	1,400.0	1,401.0	1,399.0	4.8	4.8	45.48	29.7	30.2	42.4	32.8	9.58	4.428	
1,500.0	1,500.0	1,501.0	1,499.0	5.1	5.2	45.48	29.7	30.2	42.4	32.1	10.30	4.120 CC	
1,600.0	1,600.0	1,601.0	1,599.0	5.5	5.5	109.54	29.7	30.2	42.7	31.7	11.01	3.879 ES	
1,700.0	1,700.0	1,701.0	1,699.0	5.9	5.9	112.77	29.7	30.2	43.7	31.9	11.72	3.725	
1,800.0	1,799.9	1,801.1	1,798.9	6.2	6.2	117.82	29.7	30.2	45.5	33.1	12.43	3.663 SF	
1,900.0	1,899.7	1,901.3	1,898.7	6.6	6.6	124.15	29.7	30.2	48.7	35.5	13.14	3.704	
2,000.0	1,999.4	2,001.6	1,998.4	6.9	6.9	131.08	29.7	30.2	53.5	39.6	13.85	3.861	
2,100.0	2,098.9	2,102.1	2,097.9	7.3	7.3	137.91	29.7	30.2	60.2	45.7	14.57	4.134	
2,200.0	2,198.3	2,202.7	2,197.3	7.6	7.7	144.15	29.7	30.2	69.1	53.8	15.28	4.519	
2,300.0	2,297.4	2,303.6	2,296.4	8.0	8.0	149.56	29.7	30.2	80.0	64.0	16.00	5.003	
2,400.0	2,396.4	2,404.6	2,395.4	8.4	8.4	153.93	29.7	30.2	92.3	75.6	16.71	5.524	
2,500.0	2,495.5	2,505.5	2,494.5	8.8	8.8	157.27	29.7	30.2	105.0	87.6	17.43	6.025	
2,600.0	2,594.5	2,606.5	2,593.5	9.2	9.1	159.88	29.7	30.2	118.0	99.9	18.15	6.502	
2,700.0	2,693.5	2,707.5	2,692.5	9.5	9.5	161.97	29.7	30.2	131.2	112.3	18.87	6.952	
2,800.0	2,792.5	2,808.5	2,791.5	9.9	9.8	163.67	29.7	30.2	144.5	124.9	19.59	7.377	
2,900.0	2,891.6	2,909.4	2,890.6	10.3	10.2	165.09	29.7	30.2	157.9	137.6	20.31	7.776	
3,000.0	2,990.6	2,989.6	2,989.6	10.7	10.5	166.29	29.7	30.2	171.4	150.4	20.95	8.180	
3,100.0	3,089.6	3,088.5	3,088.5	11.1	10.8	167.74	28.4	29.9	185.0	163.3	21.65	8.545	
3,200.0	3,188.6	3,186.9	3,186.8	11.5	11.1	169.96	23.8	28.8	198.9	176.5	22.32	8.908	
3,300.0	3,287.7	3,284.7	3,284.3	11.9	11.5	172.78	16.0	27.0	213.4	190.4	22.99	9.279	
3,400.0	3,386.7	3,381.6	3,380.5	12.3	11.8	176.04	5.1	24.4	228.8	205.2	23.66	9.673	
3,500.0	3,485.7	3,477.5	3,475.2	12.7	12.1	179.60	-8.9	21.1	245.7	221.4	24.32	10.106	
3,600.0	3,584.8	3,572.0	3,568.2	13.1	12.4	-176.67	-25.6	17.1	264.4	239.5	24.97	10.591	
3,700.0	3,683.8	3,665.1	3,659.1	13.5	12.7	-172.89	-45.0	12.5	285.2	259.6	25.60	11.142	
3,800.0	3,782.8	3,756.5	3,747.8	13.9	13.1	-169.16	-66.9	7.2	308.5	282.3	26.21	11.768	
3,900.0	3,881.8	3,846.3	3,834.0	14.4	13.4	-165.54	-91.0	1.5	334.3	307.5	26.80	12.475	
4,000.0	3,980.9	3,934.1	3,917.6	14.8	13.8	-162.10	-117.1	-4.7	363.0	335.6	27.36	13.268	
4,100.0	4,079.9	4,020.0	3,998.5	15.2	14.1	-158.86	-145.0	-11.4	394.5	366.6	27.88	14.149	
4,200.0	4,178.9	4,103.8	4,076.7	15.6	14.5	-155.85	-174.6	-18.4	428.9	400.5	28.37	15.117	
4,300.0	4,277.9	4,185.4	4,151.9	16.0	14.9	-153.07	-205.5	-25.7	466.1	437.3	28.82	16.171	
4,400.0	4,377.0	4,264.9	4,224.2	16.4	15.3	-150.52	-237.5	-33.4	506.1	476.9	29.24	17.307	
4,500.0	4,476.0	4,346.8	4,297.8	16.8	15.7	-148.07	-272.4	-41.7	548.7	519.0	29.73	18.457	
4,600.0	4,575.0	4,434.2	4,376.3	17.2	16.1	-145.77	-309.9	-50.6	592.5	562.1	30.36	19.513	
4,698.1	4,672.2	4,519.9	4,453.2	17.6	16.6	-143.82	-346.7	-59.4	636.1	605.1	31.00	20.517	
4,700.0	4,674.0	4,521.6	4,454.7	17.6	16.6	-143.79	-347.5	-59.5	636.9	605.9	31.02	20.536	
4,800.0	4,773.3	4,609.3	4,533.4	18.0	17.1	-142.42	-385.1	-68.5	681.0	649.3	31.68	21.500	
4,900.0	4,872.7	4,702.4	4,612.6	18.4	17.7	-141.13	-423.0	-77.5	723.7	691.4	32.36	22.366	
5,000.0	4,972.5	4,786.3	4,692.2	18.8	18.2	-139.89	-461.1	-86.6	765.2	732.2	33.00	23.188	

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #136H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
5,100.0	5,072.4	4,875.4	4,772.2	19.2	18.7	-138.69	-499.4	-95.7	805.4	771.7	33.66	23.928		
5,200.0	5,172.3	4,964.9	4,852.4	19.5	19.3	-137.52	-537.8	-104.8	844.3	810.0	34.31	24.607		
5,231.4	5,203.8	5,006.9	4,877.7	19.6	19.5	159.90	-549.9	-107.7	856.3	821.7	34.58	24.763		
5,300.0	5,272.3	5,054.6	4,932.9	19.8	19.8	160.95	-576.3	-114.0	882.4	847.5	34.96	25.242		
5,400.0	5,372.3	5,144.3	5,013.5	20.2	20.4	162.38	-614.9	-123.2	921.1	885.4	35.61	25.863		
5,500.0	5,472.3	5,234.1	5,094.0	20.5	21.0	163.71	-653.4	-132.4	960.1	923.9	36.27	26.472		
5,600.0	5,572.3	5,323.8	5,174.5	20.8	21.6	164.93	-691.9	-141.5	999.6	962.7	36.93	27.068		
5,700.0	5,672.3	5,413.5	5,255.0	21.2	22.2	166.07	-730.5	-150.7	1,039.5	1,001.9	37.60	27.650		
5,800.0	5,772.3	5,503.2	5,335.5	21.5	22.8	167.12	-769.0	-159.9	1,079.7	1,041.5	38.26	28.217		
5,900.0	5,872.3	5,607.0	5,416.0	21.8	23.5	168.10	-807.5	-169.0	1,120.2	1,081.2	39.00	28.722		
6,000.0	5,972.3	5,682.7	5,496.5	22.2	24.1	169.02	-846.1	-178.2	1,161.0	1,121.4	39.61	29.309		
6,100.0	6,072.3	5,772.4	5,577.1	22.5	24.7	169.87	-884.6	-187.4	1,202.0	1,161.7	40.29	29.834		
6,200.0	6,172.3	5,862.2	5,657.6	22.9	25.3	170.67	-923.1	-196.6	1,243.2	1,202.3	40.97	30.344		
6,300.0	6,272.3	5,951.9	5,738.1	23.2	26.0	171.42	-961.7	-205.7	1,284.7	1,243.0	41.66	30.840		
6,400.0	6,372.3	6,041.6	5,818.6	23.5	26.6	172.13	-1,000.2	-214.9	1,326.3	1,283.9	42.34	31.322		
6,500.0	6,472.3	6,131.4	5,899.1	23.9	27.2	172.79	-1,038.7	-224.1	1,368.0	1,325.0	43.03	31.791		
6,600.0	6,572.3	6,221.1	5,979.6	24.2	27.9	173.41	-1,077.3	-233.3	1,409.9	1,366.2	43.72	32.246		
6,700.0	6,672.3	6,310.8	6,060.1	24.6	28.5	174.00	-1,115.8	-242.4	1,451.9	1,407.5	44.42	32.689		
6,800.0	6,772.3	6,400.5	6,140.6	24.9	29.2	174.56	-1,154.3	-251.6	1,494.1	1,449.0	45.11	33.119		
6,900.0	6,872.3	6,509.7	6,221.2	25.2	30.0	175.09	-1,192.9	-260.8	1,536.4	1,490.5	45.90	33.471		
7,000.0	6,972.3	6,580.0	6,301.7	25.6	30.5	175.58	-1,231.4	-269.9	1,578.7	1,532.2	46.51	33.943		
7,100.0	7,072.3	6,669.7	6,382.2	25.9	31.2	176.06	-1,269.9	-279.1	1,621.2	1,574.0	47.21	34.337		
7,200.0	7,172.3	6,759.5	6,462.7	26.3	31.8	176.51	-1,308.5	-288.3	1,663.7	1,615.8	47.92	34.721		
7,300.0	7,272.3	6,903.2	6,592.6	26.6	32.9	177.16	-1,368.4	-302.6	1,705.2	1,655.9	49.35	34.554		
7,400.0	7,372.3	7,066.5	6,742.8	27.0	34.0	177.79	-1,430.7	-317.4	1,743.2	1,692.3	50.95	34.217		
7,500.0	7,472.3	7,235.6	6,901.1	27.3	35.1	178.34	-1,488.6	-331.2	1,777.3	1,724.8	52.50	33.855		
7,600.0	7,572.3	7,410.2	7,067.0	27.7	36.2	178.80	-1,541.1	-343.7	1,807.3	1,753.3	53.99	33.477		
7,700.0	7,672.3	7,589.6	7,240.0	28.0	37.2	179.18	-1,587.4	-354.7	1,833.0	1,777.6	55.39	33.094		
7,800.0	7,772.3	7,773.3	7,419.3	28.3	38.1	179.49	-1,626.5	-364.0	1,854.3	1,797.6	56.69	32.711		
7,900.0	7,872.3	7,960.7	7,603.8	28.7	38.9	179.73	-1,657.7	-371.4	1,871.0	1,813.1	57.87	32.332		
8,000.0	7,972.3	8,150.8	7,792.5	29.0	39.6	179.90	-1,680.3	-376.8	1,882.9	1,823.9	58.91	31.962		
8,100.0	8,072.3	8,342.7	7,983.9	29.4	40.3	180.00	-1,693.9	-380.0	1,889.9	1,830.1	59.81	31.601		
8,200.0	8,172.3	8,530.2	8,171.3	29.7	40.8	-179.97	-1,698.1	-381.0	1,892.1	1,831.6	60.54	31.251		
8,300.0	8,272.3	8,630.2	8,271.3	30.1	41.0	-179.97	-1,698.1	-381.0	1,892.1	1,830.9	61.20	30.918		
8,400.0	8,372.3	8,730.2	8,371.3	30.4	41.3	-179.97	-1,698.1	-381.0	1,892.1	1,830.3	61.85	30.591		
8,500.0	8,472.3	8,830.2	8,471.3	30.8	41.5	-179.97	-1,698.1	-381.0	1,892.1	1,829.6	62.51	30.270		
8,600.0	8,572.3	8,930.2	8,571.3	31.1	41.8	-179.97	-1,698.1	-381.0	1,892.1	1,828.9	63.16	29.955		
8,614.6	8,586.9	8,944.8	8,585.9	31.2	41.8	-179.97	-1,698.1	-381.0	1,892.1	1,828.8	63.26	29.910		
8,700.0	8,672.3	9,028.5	8,669.6	31.5	42.0	-179.97	-1,698.1	-381.0	1,892.1	1,828.3	63.82	29.646		
8,800.0	8,772.3	9,100.0	8,740.9	31.8	42.2	179.88	-1,698.7	-376.1	1,893.0	1,828.5	64.47	29.363		
8,900.0	8,872.3	9,166.3	8,806.0	32.2	42.3	179.51	-1,700.3	-363.7	1,895.5	1,830.4	65.10	29.119		
9,000.0	8,972.3	9,230.3	8,867.0	32.5	42.4	178.93	-1,702.8	-344.7	1,900.0	1,834.3	65.70	28.919		
9,100.0	9,072.3	9,289.4	8,921.1	32.9	42.6	178.23	-1,705.8	-321.3	1,906.6	1,840.4	66.26	28.773		
9,200.0	9,172.3	9,350.0	8,973.9	33.2	42.7	177.34	-1,709.6	-291.7	1,915.9	1,849.1	66.80	28.681		
9,272.2	9,244.5	9,378.1	8,997.2	33.5	42.7	176.88	-1,711.6	-276.1	1,924.3	1,857.2	67.10	28.677		
9,300.0	9,272.3	9,391.2	9,007.8	33.6	42.7	86.49	-1,712.6	-268.5	1,927.9	1,860.7	67.21	28.684		
9,350.0	9,322.1	9,414.6	9,026.3	33.7	42.8	85.42	-1,714.4	-254.2	1,934.9	1,867.5	67.38	28.716		
9,400.0	9,371.3	9,438.2	9,044.3	33.9	42.8	84.35	-1,716.4	-239.1	1,942.2	1,874.7	67.52	28.766		
9,450.0	9,419.5	9,461.8	9,061.6	34.0	42.8	83.27	-1,718.4	-223.3	1,949.8	1,882.2	67.63	28.833		
9,500.0	9,466.4	9,485.4	9,078.4	34.1	42.8	82.20	-1,720.6	-206.8	1,957.7	1,890.0	67.71	28.913		
9,550.0	9,511.6	9,500.0	9,088.4	34.2	42.9	81.25	-1,721.9	-196.2	1,965.7	1,897.9	67.72	29.025		
9,600.0	9,554.7	9,532.7	9,109.7	34.4	42.9	80.15	-1,725.1	-171.7	1,973.6	1,905.8	67.83	29.096		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #136H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,650.0	9,595.5	9,550.0	9,120.4	34.5	42.9	79.23	-1,726.8	-158.2	1,981.5	1,913.7	67.84	29.210		
9,700.0	9,633.7	9,580.1	9,138.1	34.6	42.9	78.27	-1,729.9	-134.0	1,989.2	1,921.3	67.93	29.283		
9,750.0	9,668.8	9,600.0	9,149.1	34.7	43.0	77.43	-1,732.1	-117.6	1,996.7	1,928.8	67.97	29.376		
9,800.0	9,700.8	9,627.5	9,163.3	34.8	43.0	76.62	-1,735.1	-94.2	2,004.0	1,935.9	68.09	29.433		
9,850.0	9,729.2	9,650.0	9,174.0	35.0	43.0	75.90	-1,737.6	-74.6	2,010.8	1,942.6	68.20	29.486		
9,900.0	9,754.0	9,674.9	9,185.0	35.1	43.0	75.25	-1,740.5	-52.4	2,017.3	1,948.9	68.37	29.507		
9,950.0	9,774.9	9,700.0	9,195.1	35.3	43.0	74.68	-1,743.4	-29.7	2,023.2	1,954.7	68.58	29.503		
10,000.0	9,791.8	9,722.3	9,203.2	35.5	43.0	74.19	-1,746.1	-9.0	2,028.7	1,959.9	68.83	29.475		
10,050.0	9,804.5	9,750.0	9,212.1	35.8	43.1	73.80	-1,749.4	17.0	2,033.7	1,964.5	69.17	29.403		
10,100.0	9,812.9	9,769.6	9,217.7	36.0	43.1	73.47	-1,751.8	35.6	2,038.0	1,968.5	69.51	29.319		
10,125.2	9,815.5	9,781.5	9,220.7	36.2	43.1	73.34	-1,753.3	47.0	2,040.0	1,970.3	69.72	29.260		
10,200.0	9,820.7	9,817.1	9,228.5	36.7	43.1	73.41	-1,757.8	81.5	2,046.2	1,975.8	70.41	29.059		
10,225.5	9,822.0	9,829.4	9,230.6	36.9	43.1	73.42	-1,759.3	93.4	2,048.5	1,977.8	70.67	28.985		
10,300.0	9,825.5	9,865.5	9,235.4	37.5	43.2	73.54	-1,763.9	128.9	2,056.2	1,984.7	71.50	28.758		
10,400.0	9,830.2	10,043.7	9,247.8	38.4	43.4	73.80	-1,782.3	305.7	2,066.5	1,992.8	73.75	28.020		
10,500.0	9,834.9	10,278.7	9,257.8	39.4	44.0	73.85	-1,790.8	540.3	2,070.7	1,993.8	76.90	26.927		
10,600.0	9,839.7	10,390.6	9,260.7	40.6	44.6	73.79	-1,789.9	652.2	2,071.2	1,991.9	79.28	26.126		
10,700.0	9,844.4	10,509.4	9,263.2	41.9	45.4	73.73	-1,789.0	752.1	2,071.5	1,989.5	82.00	25.263		
10,800.0	9,849.1	10,609.4	9,265.7	43.3	46.3	73.67	-1,788.1	852.1	2,071.9	1,987.2	84.68	24.467		
10,900.0	9,853.8	10,709.4	9,268.3	44.7	47.4	73.61	-1,787.3	952.0	2,072.3	1,984.8	87.54	23.673		
11,000.0	9,858.5	10,809.5	9,270.8	46.3	48.6	73.55	-1,786.4	1,051.9	2,072.7	1,982.2	90.55	22.891		
11,100.0	9,863.2	10,909.5	9,273.3	47.9	50.1	73.49	-1,785.5	1,151.9	2,073.1	1,979.4	93.69	22.126		
11,200.0	9,867.9	11,009.5	9,275.9	49.6	51.6	73.43	-1,784.6	1,251.8	2,073.5	1,976.5	96.97	21.384		
11,300.0	9,872.6	11,109.5	9,278.4	51.4	53.2	73.37	-1,783.8	1,351.8	2,073.9	1,973.5	100.35	20.666		
11,400.0	9,877.3	11,209.6	9,280.9	53.2	55.0	73.31	-1,782.9	1,451.7	2,074.3	1,970.5	103.84	19.976		
11,500.0	9,882.1	11,309.6	9,283.5	55.1	56.7	73.25	-1,782.0	1,551.6	2,074.7	1,967.3	107.41	19.315		
11,600.0	9,886.8	11,390.4	9,286.0	57.0	58.2	73.19	-1,781.2	1,651.6	2,075.1	1,964.4	110.72	18.743		
11,700.0	9,891.5	11,509.6	9,288.5	58.9	60.5	73.13	-1,780.3	1,751.5	2,075.5	1,960.7	114.80	18.079		
11,800.0	9,896.2	11,609.7	9,291.1	60.9	62.4	73.07	-1,779.4	1,851.5	2,075.9	1,957.3	118.60	17.503		
11,900.0	9,900.9	11,709.7	9,293.6	63.0	64.4	73.01	-1,778.5	1,951.4	2,076.3	1,953.9	122.46	16.955		
12,000.0	9,905.6	11,809.7	9,296.1	65.0	66.4	72.95	-1,777.7	2,051.3	2,076.8	1,950.4	126.37	16.434		
12,100.0	9,910.3	11,909.7	9,298.7	67.1	68.4	72.90	-1,776.8	2,151.3	2,077.2	1,946.8	130.33	15.938		
12,200.0	9,915.0	12,009.8	9,301.2	69.2	70.5	72.84	-1,775.9	2,251.2	2,077.6	1,943.3	134.34	15.466		
12,300.0	9,919.8	12,109.8	9,303.7	71.3	72.6	72.78	-1,775.1	2,351.2	2,078.0	1,939.6	138.38	15.017		
12,400.0	9,924.5	12,209.8	9,306.3	73.5	74.7	72.72	-1,774.2	2,451.1	2,078.4	1,936.0	142.46	14.589		
12,500.0	9,929.2	12,309.8	9,308.8	75.6	76.8	72.66	-1,773.3	2,551.0	2,078.9	1,932.3	146.58	14.183		
12,600.0	9,933.9	12,409.9	9,311.3	77.8	79.0	72.60	-1,772.4	2,651.0	2,079.3	1,928.6	150.72	13.796		
12,700.0	9,938.6	12,509.9	9,313.9	80.0	81.2	72.54	-1,771.6	2,750.9	2,079.7	1,924.8	154.89	13.427		
12,800.0	9,943.3	12,609.9	9,316.4	82.2	83.4	72.48	-1,770.7	2,850.9	2,080.2	1,921.1	159.09	13.075		
12,900.0	9,948.0	12,709.9	9,318.9	84.4	85.6	72.42	-1,769.8	2,950.8	2,080.6	1,917.3	163.31	12.740		
13,000.0	9,952.7	12,810.0	9,321.5	86.7	87.8	72.36	-1,768.9	3,050.7	2,081.0	1,913.5	167.55	12.421		
13,100.0	9,957.5	12,910.0	9,324.0	88.9	90.0	72.30	-1,768.1	3,150.7	2,081.5	1,909.7	171.81	12.115		
13,200.0	9,962.2	12,990.0	9,326.5	91.2	91.8	72.24	-1,767.2	3,250.6	2,081.9	1,906.3	175.65	11.853		
13,300.0	9,966.9	13,090.0	9,329.1	93.4	94.0	72.19	-1,766.3	3,350.6	2,082.3	1,902.4	179.94	11.572		
13,400.0	9,971.6	13,190.0	9,331.6	95.7	96.3	72.13	-1,765.5	3,450.5	2,082.8	1,898.6	184.24	11.305		
13,500.0	9,976.3	13,289.9	9,334.1	98.0	98.6	72.07	-1,764.6	3,550.4	2,083.2	1,894.7	188.56	11.048		
13,600.0	9,981.0	13,389.9	9,336.7	100.3	100.8	72.01	-1,763.7	3,650.4	2,083.7	1,890.8	192.89	10.802		
13,700.0	9,985.7	13,489.9	9,339.2	102.6	103.1	71.95	-1,762.8	3,750.3	2,084.1	1,886.9	197.23	10.567		
13,800.0	9,990.4	13,589.9	9,341.7	104.9	105.4	71.89	-1,762.0	3,850.3	2,084.6	1,883.0	201.58	10.341		
13,900.0	9,995.2	13,689.8	9,344.3	107.2	107.7	71.83	-1,761.1	3,950.2	2,085.1	1,879.1	205.95	10.124		
14,000.0	9,999.9	13,789.8	9,346.8	109.5	110.0	71.77	-1,760.2	4,050.1	2,085.5	1,875.2	210.32	9.916		
14,100.0	10,004.6	13,889.8	9,349.3	111.9	112.3	71.71	-1,759.4	4,150.1	2,086.0	1,871.3	214.69	9.716		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
14,200.0	10,009.3	13,989.8	9,351.9	114.2	114.6	71.65	-1,758.5	4,250.0	2,086.4	1,867.4	219.08	9.524		
14,300.0	10,014.0	14,089.7	9,354.4	116.5	117.0	71.60	-1,757.6	4,350.0	2,086.9	1,863.4	223.47	9.339		
14,400.0	10,018.7	14,189.7	9,356.9	118.9	119.3	71.54	-1,756.7	4,449.9	2,087.4	1,859.5	227.87	9.160		
14,500.0	10,023.4	14,289.7	9,359.5	121.2	121.6	71.48	-1,755.9	4,549.8	2,087.8	1,855.6	232.27	8.989		
14,600.0	10,028.1	14,389.7	9,362.0	123.6	124.0	71.42	-1,755.0	4,649.8	2,088.3	1,851.6	236.68	8.823		
14,700.0	10,032.8	14,489.6	9,364.5	125.9	126.3	71.36	-1,754.1	4,749.7	2,088.8	1,847.7	241.09	8.664		
14,800.0	10,037.6	14,589.6	9,367.1	128.3	128.7	71.30	-1,753.3	4,849.7	2,089.3	1,843.8	245.51	8.510		
14,900.0	10,042.3	14,689.6	9,369.6	130.7	131.0	71.24	-1,752.4	4,949.6	2,089.7	1,839.8	249.93	8.361		
15,000.0	10,047.0	14,789.6	9,372.1	133.0	133.4	71.19	-1,751.5	5,049.5	2,090.2	1,835.9	254.36	8.218		
15,100.0	10,051.7	14,889.5	9,374.7	135.4	135.7	71.13	-1,750.6	5,149.5	2,090.7	1,831.9	258.79	8.079		
15,200.0	10,056.4	14,989.5	9,377.2	137.8	138.1	71.07	-1,749.8	5,249.4	2,091.2	1,828.0	263.22	7.945		
15,300.0	10,061.1	15,089.5	9,379.7	140.1	140.4	71.01	-1,748.9	5,349.4	2,091.7	1,824.0	267.65	7.815		
15,400.0	10,065.8	15,189.5	9,382.3	142.5	142.8	70.95	-1,748.0	5,449.3	2,092.2	1,820.1	272.08	7.689		
15,500.0	10,070.5	15,289.4	9,384.8	144.9	145.2	70.89	-1,747.1	5,549.2	2,092.7	1,816.1	276.52	7.568		
15,600.0	10,075.3	15,389.4	9,387.3	147.3	147.5	70.83	-1,746.3	5,649.2	2,093.2	1,812.2	280.96	7.450		
15,700.0	10,080.0	15,489.4	9,389.9	149.7	149.9	70.78	-1,745.4	5,749.1	2,093.7	1,808.3	285.40	7.336		
15,800.0	10,084.7	15,589.4	9,392.4	152.0	152.3	70.72	-1,744.5	5,849.1	2,094.2	1,804.3	289.84	7.225		
15,900.0	10,089.4	15,689.3	9,394.9	154.4	154.7	70.66	-1,743.7	5,949.0	2,094.7	1,800.4	294.28	7.118		
16,000.0	10,094.1	15,789.3	9,397.5	156.8	157.1	70.60	-1,742.8	6,048.9	2,095.2	1,796.4	298.72	7.014		
16,100.0	10,098.8	15,889.3	9,400.0	159.2	159.4	70.54	-1,741.9	6,148.9	2,095.7	1,792.5	303.17	6.913		
16,200.0	10,103.5	15,989.3	9,402.5	161.6	161.8	70.48	-1,741.0	6,248.8	2,096.2	1,788.6	307.61	6.814		
16,300.0	10,108.2	16,089.3	9,405.1	164.0	164.2	70.43	-1,740.2	6,348.8	2,096.7	1,784.6	312.05	6.719		
16,400.0	10,113.0	16,189.2	9,407.6	166.4	166.6	70.37	-1,739.3	6,448.7	2,097.2	1,780.7	316.50	6.626		
16,500.0	10,117.7	16,289.2	9,410.1	168.8	169.0	70.31	-1,738.4	6,548.6	2,097.7	1,776.8	320.94	6.536		
16,600.0	10,122.4	16,389.2	9,412.7	171.2	171.4	70.25	-1,737.6	6,648.6	2,098.2	1,772.8	325.38	6.448		
16,700.0	10,127.1	16,489.2	9,415.2	173.6	173.8	70.19	-1,736.7	6,748.5	2,098.7	1,768.9	329.83	6.363		
16,800.0	10,131.8	16,589.1	9,417.7	176.0	176.2	70.13	-1,735.8	6,848.5	2,099.3	1,765.0	334.27	6.280		
16,900.0	10,136.5	16,689.1	9,420.3	178.4	178.6	70.08	-1,734.9	6,948.4	2,099.8	1,761.1	338.71	6.199		
17,000.0	10,141.2	16,789.1	9,422.8	180.8	181.0	70.02	-1,734.1	7,048.3	2,100.3	1,757.2	343.15	6.121		
17,100.0	10,145.9	16,889.1	9,425.3	183.2	183.4	69.96	-1,733.2	7,148.3	2,100.8	1,753.2	347.59	6.044		
17,200.0	10,150.7	16,989.0	9,427.9	185.6	185.8	69.90	-1,732.3	7,248.2	2,101.4	1,749.3	352.03	5.969		
17,218.0	10,151.5	17,007.0	9,428.3	186.1	186.2	69.89	-1,732.2	7,266.2	2,101.5	1,748.6	352.83	5.956		
17,218.7	10,151.5	17,007.7	9,428.4	186.1	186.2	69.89	-1,732.2	7,266.9	2,101.5	1,748.6	352.86	5.956		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	0.0	179.85	-80.2	0.2	80.2				
100.0	100.0	100.0	100.0	0.1	0.1	179.41	-79.6	0.8	79.6	79.4	0.27	299.472	
200.0	200.0	200.9	200.9	0.5	0.5	178.01	-77.7	2.7	77.8	76.8	0.99	78.642	
300.0	300.0	301.7	301.6	0.8	0.9	175.54	-74.6	5.8	74.9	73.2	1.72	43.646	
400.0	400.0	401.6	401.3	1.2	1.2	172.36	-70.9	9.5	71.6	69.2	2.43	29.434	
500.0	500.0	501.4	501.0	1.6	1.6	168.88	-67.2	13.2	68.5	65.4	3.15	21.740	
600.0	600.0	601.3	600.7	1.9	2.0	165.10	-63.5	16.9	65.8	61.9	3.87	16.971	
700.0	700.0	701.1	700.5	2.3	2.3	161.00	-59.8	20.6	63.3	58.7	4.60	13.764	
800.0	800.0	801.0	800.2	2.6	2.7	156.59	-56.1	24.3	61.2	55.9	5.32	11.493	
900.0	900.0	900.9	899.9	3.0	3.1	151.90	-52.4	28.0	59.4	53.4	6.05	9.829	
1,000.0	1,000.0	1,000.7	999.6	3.4	3.4	146.97	-48.7	31.7	58.1	51.4	6.77	8.583	
1,100.0	1,100.0	1,100.6	1,099.4	3.7	3.8	141.85	-45.0	35.4	57.3	49.8	7.50	7.639	
1,200.0	1,200.0	1,200.5	1,199.1	4.1	4.2	136.61	-41.3	39.1	56.9	48.7	8.22	6.919	
1,230.7	1,230.7	1,231.1	1,229.7	4.2	4.3	135.00	-40.2	40.2	56.9	48.4	8.45	6.734	
1,300.0	1,300.0	1,300.3	1,298.8	4.4	4.5	131.35	-37.7	42.8	57.0	48.0	8.95	6.370	
1,400.0	1,400.0	1,401.7	1,400.0	4.8	4.9	126.24	-33.2	45.3	56.2	46.6	9.67	5.815	
1,500.0	1,500.0	1,503.0	1,501.2	5.1	5.3	121.11	-27.5	45.6	53.3	42.9	10.38	5.131	
1,600.0	1,600.0	1,604.1	1,602.0	5.5	5.6	117.21	-20.5	43.5	49.0	37.9	11.08	4.423	
1,700.0	1,700.0	1,705.1	1,702.5	5.9	6.0	111.04	-12.2	39.0	44.5	32.7	11.77	3.779	
1,800.0	1,799.9	1,805.0	1,801.9	6.2	6.3	102.34	-3.0	33.0	40.7	28.2	12.47	3.260	
1,897.2	1,896.9	1,902.1	1,898.3	6.5	6.7	93.52	5.9	27.1	39.4	26.3	13.17	2.995 CC	
1,900.0	1,899.7	1,904.8	1,901.1	6.6	6.7	85.28	6.2	26.9	39.4	26.3	13.19	2.991 ES	
2,000.0	1,999.4	2,004.7	2,000.3	6.9	7.0	76.32	15.3	20.9	40.7	26.8	13.91	2.925 SF	
2,100.0	2,098.9	2,104.5	2,099.6	7.3	7.4	67.46	24.5	14.8	44.0	29.3	14.64	3.004	
2,200.0	2,198.3	2,204.4	2,198.8	7.6	7.8	58.91	33.7	8.7	48.9	33.5	15.37	3.180	
2,300.0	2,297.4	2,304.2	2,298.0	8.0	8.1	50.32	42.9	2.6	55.1	39.0	16.11	3.423	
2,400.0	2,396.4	2,403.9	2,397.1	8.4	8.5	41.68	52.0	-3.5	62.0	45.2	16.85	3.682	
2,500.0	2,495.5	2,503.7	2,496.3	8.8	8.9	33.17	61.2	-9.5	68.9	51.3	17.60	3.918	
2,600.0	2,594.5	2,603.4	2,595.4	9.2	9.3	24.75	70.4	-15.6	75.9	57.5	18.35	4.134	
2,700.0	2,693.5	2,703.2	2,694.6	9.5	9.7	16.40	79.5	-21.7	82.8	63.7	19.11	4.332	
2,800.0	2,792.5	2,803.0	2,793.7	9.9	10.0	7.11	88.7	-27.8	89.7	69.8	19.86	4.515	
2,900.0	2,891.6	2,902.7	2,892.9	10.3	10.4	1.86	97.9	-33.9	96.6	76.0	20.62	4.684	
3,000.0	2,990.6	3,002.5	2,992.0	10.7	10.8	131.64	107.0	-39.9	103.5	82.1	21.39	4.840	
3,100.0	3,089.6	3,102.2	3,091.2	11.1	11.2	131.45	116.2	-46.0	110.4	88.3	22.15	4.985	
3,200.0	3,188.6	3,202.0	3,190.4	11.5	11.6	131.28	125.4	-52.1	117.3	94.4	22.92	5.120	
3,300.0	3,287.7	3,301.8	3,289.5	11.9	12.0	131.13	134.5	-58.2	124.3	100.6	23.69	5.246	
3,400.0	3,386.7	3,401.5	3,388.7	12.3	12.3	130.99	143.7	-64.3	131.2	106.7	24.46	5.364	
3,500.0	3,485.7	3,501.3	3,487.8	12.7	12.7	130.87	152.9	-70.3	138.1	112.9	25.23	5.474	
3,600.0	3,584.8	3,601.0	3,587.0	13.1	13.1	130.76	162.1	-76.4	145.0	119.0	26.00	5.577	
3,700.0	3,683.8	3,700.8	3,686.1	13.5	13.5	130.66	171.2	-82.5	152.0	125.2	26.78	5.674	
3,800.0	3,782.8	3,800.5	3,785.3	13.9	13.9	130.57	180.4	-88.6	158.9	131.3	27.56	5.766	
3,900.0	3,881.8	3,900.3	3,884.4	14.4	14.3	130.49	189.6	-94.6	165.8	137.5	28.33	5.852	
4,000.0	3,980.9	4,000.1	3,983.6	14.8	14.7	130.41	198.7	-100.7	172.7	143.6	29.11	5.934	
4,100.0	4,079.9	4,100.2	4,082.7	15.2	15.1	130.34	207.9	-106.8	179.7	149.8	29.89	6.010	
4,200.0	4,178.9	4,200.4	4,181.9	15.6	15.5	130.28	217.1	-112.9	186.6	155.9	30.67	6.083	
4,300.0	4,277.9	4,300.7	4,281.0	16.0	15.8	130.22	226.2	-119.0	193.5	162.0	31.45	6.152	
4,400.0	4,377.0	4,400.9	4,380.2	16.4	16.2	130.16	235.4	-125.0	200.4	168.2	32.24	6.217	
4,500.0	4,476.0	4,501.1	4,479.3	16.8	16.6	130.11	244.6	-131.1	207.4	174.3	33.02	6.280	
4,600.0	4,575.0	4,601.4	4,578.5	17.2	17.0	130.06	253.7	-137.2	214.3	180.5	33.80	6.339	
4,698.1	4,672.2	4,703.5	4,675.7	17.6	17.4	130.01	262.7	-143.2	221.1	186.5	34.59	6.391	
4,700.0	4,674.0	4,701.6	4,677.6	17.6	17.4	130.01	262.9	-143.3	221.2	186.6	34.59	6.395	
4,800.0	4,773.3	4,801.8	4,776.8	18.0	17.8	129.78	272.1	-149.3	227.3	191.9	35.37	6.425	

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #201H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
4,900.0	4,872.7	4,902.0	4,876.1	18.4	18.2	129.04	281.3	-155.4	231.7	195.5	36.16	6.407		
5,000.0	4,972.5	5,002.1	4,975.3	18.8	18.6	127.81	290.4	-161.5	234.5	197.6	36.94	6.348		
5,100.0	5,072.4	5,097.6	5,074.4	19.2	19.0	126.09	299.6	-167.6	235.9	198.2	37.71	6.256		
5,200.0	5,172.3	5,202.8	5,173.4	19.5	19.4	123.86	308.7	-173.7	236.1	197.5	38.51	6.130		
5,231.4	5,203.8	5,228.4	5,204.4	19.6	19.5	60.09	311.6	-175.6	235.9	197.1	38.73	6.090		
5,300.0	5,272.3	5,303.4	5,272.2	19.8	19.8	58.27	317.9	-179.7	235.5	196.2	39.28	5.995		
5,367.8	5,340.2	5,364.0	5,339.2	20.1	20.0	56.46	324.1	-183.8	235.4	195.6	39.78	5.918		
5,400.0	5,372.3	5,404.0	5,370.9	20.2	20.2	55.60	327.0	-185.8	235.4	195.4	40.05	5.878		
5,500.0	5,472.3	5,504.6	5,469.7	20.5	20.6	52.94	336.2	-191.8	235.9	195.0	40.81	5.779		
5,600.0	5,572.3	5,605.3	5,568.5	20.8	21.0	50.29	345.3	-197.9	236.8	195.2	41.57	5.696		
5,700.0	5,672.3	5,705.9	5,667.3	21.2	21.4	47.67	354.4	-203.9	238.2	195.9	42.32	5.630		
5,800.0	5,772.3	5,806.5	5,766.1	21.5	21.8	45.08	363.6	-210.0	240.2	197.1	43.06	5.578		
5,900.0	5,872.3	5,907.1	5,864.9	21.8	22.2	42.54	372.7	-216.0	242.6	198.8	43.79	5.540		
6,000.0	5,972.3	6,007.7	5,963.6	22.2	22.6	40.06	381.8	-222.1	245.5	201.0	44.52	5.515		
6,100.0	6,072.3	6,108.3	6,062.4	22.5	22.9	37.64	391.0	-228.2	248.9	203.6	45.24	5.501		
6,200.0	6,172.3	6,191.1	6,161.2	22.9	23.3	35.28	400.1	-234.2	252.7	206.8	45.88	5.506		
6,300.0	6,272.3	6,309.5	6,260.0	23.2	23.7	33.00	409.2	-240.3	256.9	210.2	46.66	5.505		
6,400.0	6,372.3	6,389.9	6,358.8	23.5	24.1	30.79	418.4	-246.3	261.5	214.2	47.28	5.530		
6,500.0	6,472.3	6,489.3	6,457.6	23.9	24.5	28.66	427.5	-252.4	266.5	218.5	47.98	5.554		
6,600.0	6,572.3	6,588.6	6,556.4	24.2	24.8	26.62	436.6	-258.4	271.8	223.1	48.67	5.585		
6,700.0	6,672.3	6,688.0	6,655.1	24.6	25.2	24.65	445.8	-264.5	277.5	228.1	49.36	5.622		
6,800.0	6,772.3	6,787.4	6,753.9	24.9	25.6	22.76	454.9	-270.5	283.5	233.4	50.04	5.665		
6,900.0	6,872.3	6,886.8	6,852.7	25.2	26.0	20.96	464.0	-276.6	289.8	239.0	50.72	5.712		
7,000.0	6,972.3	6,986.2	6,951.5	25.6	26.4	19.23	473.2	-282.7	296.3	244.9	51.40	5.764		
7,100.0	7,072.3	7,085.6	7,050.3	25.9	26.8	17.57	482.3	-288.7	303.1	251.1	52.08	5.820		
7,200.0	7,172.3	7,185.0	7,149.1	26.3	27.2	15.99	491.4	-294.8	310.2	257.4	52.76	5.879		
7,300.0	7,272.3	7,284.4	7,247.8	26.6	27.6	14.48	500.6	-300.8	317.5	264.1	53.44	5.941		
7,400.0	7,372.3	7,383.8	7,346.6	27.0	28.0	13.04	509.7	-306.9	325.0	270.9	54.12	6.005		
7,500.0	7,472.3	7,483.2	7,445.4	27.3	28.4	11.67	518.8	-312.9	332.7	277.9	54.80	6.071		
7,600.0	7,572.3	7,582.5	7,544.2	27.7	28.8	10.36	528.0	-319.0	340.6	285.1	55.48	6.138		
7,700.0	7,672.3	7,681.9	7,643.0	28.0	29.2	9.10	537.1	-325.1	348.6	292.5	56.16	6.207		
7,800.0	7,772.3	7,781.3	7,741.8	28.3	29.6	7.91	546.2	-331.1	356.8	300.0	56.85	6.277		
7,900.0	7,872.3	7,880.7	7,840.5	28.7	29.9	6.76	555.4	-337.2	365.2	307.7	57.53	6.348		
8,000.0	7,972.3	7,980.1	7,939.3	29.0	30.3	5.67	564.5	-343.2	373.7	315.5	58.21	6.420		
8,100.0	8,072.3	8,079.5	8,038.1	29.4	30.7	4.63	573.7	-349.3	382.3	323.4	58.90	6.491		
8,200.0	8,172.3	8,178.9	8,136.9	29.7	31.1	3.63	582.8	-355.3	391.1	331.5	59.58	6.564		
8,300.0	8,272.3	8,278.3	8,235.7	30.1	31.5	2.68	591.9	-361.4	399.9	339.7	60.27	6.636		
8,400.0	8,372.3	8,378.1	8,334.9	30.4	31.9	1.77	601.1	-367.5	408.9	347.9	60.96	6.707		
8,500.0	8,472.3	8,487.4	8,443.7	30.8	32.3	0.94	609.7	-373.2	416.7	355.0	61.72	6.751		
8,600.0	8,572.3	8,597.1	8,553.2	31.1	32.7	0.38	615.8	-377.2	422.2	359.7	62.45	6.759		
8,700.0	8,672.3	8,707.2	8,663.2	31.5	33.1	0.07	619.2	-379.5	425.3	362.1	63.16	6.734		
8,800.0	8,772.3	8,815.9	8,771.8	31.8	33.5	0.05	620.0	-379.6	426.0	362.2	63.83	6.674		
8,900.0	8,872.3	8,916.5	8,871.6	32.2	33.8	1.73	619.6	-367.2	425.8	361.3	64.54	6.597		
8,905.8	8,878.1	8,922.2	8,877.1	32.2	33.8	1.89	619.6	-366.0	425.8	361.2	64.59	6.593		
9,000.0	8,972.3	9,010.2	8,961.1	32.5	34.0	5.37	618.7	-340.1	426.7	361.4	65.32	6.533		
9,100.0	9,072.3	9,093.2	9,035.9	32.9	34.1	10.15	617.5	-304.2	431.7	365.7	65.98	6.543		
9,200.0	9,172.3	9,164.5	9,095.4	33.2	34.2	15.23	616.2	-265.0	444.2	378.0	66.14	6.716		
9,272.2	9,244.5	9,208.9	9,129.8	33.5	34.3	18.75	615.3	-237.0	459.2	393.5	65.73	6.987		
9,300.0	9,272.3	9,224.9	9,141.7	33.6	34.3	-69.09	615.0	-226.3	466.3	400.9	65.43	7.127		
9,350.0	9,322.1	9,253.4	9,162.0	33.7	34.3	-65.66	614.3	-206.3	479.9	415.2	64.74	7.412		
9,400.0	9,371.3	9,281.7	9,181.2	33.9	34.3	-62.40	613.6	-185.6	494.2	430.3	63.88	7.737		
9,450.0	9,419.5	9,309.7	9,199.2	34.0	34.3	-59.34	612.9	-164.1	509.0	446.1	62.88	8.094		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,500.0	9,466.4	9,337.6	9,216.0	34.1	34.3	-56.50	612.2	-141.9	523.8	462.0	61.78	8.478		
9,550.0	9,511.6	9,365.2	9,231.6	34.2	34.4	-53.90	611.4	-119.1	538.4	477.7	60.61	8.882		
9,600.0	9,554.7	9,392.8	9,246.1	34.4	34.4	-51.54	610.7	-95.7	552.5	493.1	59.41	9.300		
9,650.0	9,595.5	9,420.2	9,259.3	34.5	34.4	-49.42	609.9	-71.7	566.0	507.8	58.21	9.724		
9,700.0	9,633.7	9,450.0	9,272.4	34.6	34.4	-47.45	609.0	-44.9	578.8	521.6	57.11	10.133		
9,750.0	9,668.8	9,474.7	9,282.1	34.7	34.4	-45.86	608.2	-22.2	590.5	534.6	55.91	10.561		
9,800.0	9,700.8	9,500.0	9,291.1	34.8	34.4	-44.45	607.5	1.4	601.1	546.3	54.82	10.965		
9,850.0	9,729.2	9,528.9	9,300.0	35.0	34.4	-43.16	606.5	28.9	610.6	556.6	53.95	11.317		
9,900.0	9,754.0	9,550.0	9,305.7	35.1	34.4	-42.20	605.9	49.2	618.7	565.7	53.02	11.670		
9,950.0	9,774.9	9,582.9	9,313.0	35.3	34.5	-41.23	604.8	81.2	625.5	572.9	52.51	11.910		
10,000.0	9,791.8	9,609.8	9,317.6	35.5	34.6	-40.54	603.9	107.8	630.8	578.7	52.04	12.120		
10,050.0	9,804.5	9,636.7	9,321.0	35.8	34.7	-40.01	603.1	134.4	634.6	582.9	51.77	12.259		
10,100.0	9,812.9	9,663.6	9,323.1	36.0	34.9	-39.65	602.2	161.2	637.0	585.3	51.70	12.320		
10,125.2	9,815.5	9,677.3	9,323.7	36.2	35.0	-39.53	601.7	174.9	637.6	585.8	51.74	12.322		
10,200.0	9,820.7	9,751.7	9,326.0	36.7	35.5	-39.17	599.3	249.2	638.0	585.8	52.22	12.216		
10,225.5	9,822.0	9,777.1	9,326.8	36.9	35.7	-39.07	598.5	274.6	637.8	585.3	52.42	12.167		
10,300.0	9,825.5	9,851.2	9,329.2	37.5	36.4	-38.81	596.1	348.7	636.9	583.8	53.08	11.998		
10,400.0	9,830.2	9,950.8	9,332.3	38.4	37.4	-38.46	593.1	448.1	635.8	581.7	54.12	11.748		
10,500.0	9,834.9	10,050.3	9,335.4	39.4	38.5	-38.12	590.1	547.5	634.8	579.5	55.30	11.478		
10,600.0	9,839.7	10,149.8	9,338.6	40.6	39.7	-37.78	587.2	647.0	633.8	577.2	56.63	11.193		
10,700.0	9,844.4	10,249.4	9,341.7	41.9	41.0	-37.45	584.4	746.4	633.0	574.9	58.08	10.899		
10,800.0	9,849.1	10,348.9	9,344.8	43.3	42.5	-37.12	581.7	845.9	632.2	572.6	59.63	10.601		
10,900.0	9,853.8	10,448.5	9,347.9	44.7	44.0	-36.80	579.1	945.3	631.5	570.2	61.29	10.304		
11,000.0	9,858.5	10,548.0	9,351.0	46.3	45.6	-36.49	576.6	1,044.8	630.9	567.9	63.03	10.010		
11,100.0	9,863.2	10,647.6	9,354.1	47.9	47.2	-36.18	574.2	1,144.3	630.4	565.5	64.84	9.722		
11,200.0	9,867.9	10,747.1	9,357.2	49.6	49.0	-35.88	571.9	1,243.8	629.9	563.2	66.72	9.442		
11,300.0	9,872.6	10,846.7	9,360.3	51.4	50.8	-35.58	569.7	1,343.3	629.5	560.9	68.65	9.170		
11,400.0	9,877.3	10,946.3	9,363.4	53.2	52.6	-35.30	567.6	1,442.8	629.2	558.6	70.63	8.908		
11,500.0	9,882.1	11,045.9	9,366.5	55.1	54.5	-35.01	565.5	1,542.3	629.0	556.3	72.66	8.657		
11,600.0	9,886.8	11,145.5	9,369.6	57.0	56.4	-34.74	563.6	1,641.9	628.8	554.1	74.72	8.416		
11,700.0	9,891.5	11,245.1	9,372.7	58.9	58.4	-34.47	561.8	1,741.4	628.8	552.0	76.81	8.186		
11,767.8	9,894.7	11,312.6	9,374.8	60.3	59.8	-34.29	560.6	1,808.9	628.7	550.5	78.25	8.035		
11,800.0	9,896.2	11,344.7	9,375.8	60.9	60.4	-34.21	560.0	1,840.9	628.8	549.8	78.93	7.965		
11,900.0	9,900.9	11,444.3	9,378.8	63.0	62.5	-33.95	558.3	1,940.5	628.8	547.7	81.08	7.755		
12,000.0	9,905.6	11,543.9	9,381.9	65.0	64.5	-33.70	556.8	2,040.0	628.9	545.7	83.25	7.555		
12,100.0	9,910.3	11,643.5	9,385.0	67.1	66.6	-33.46	555.3	2,139.6	629.1	543.7	85.43	7.364		
12,200.0	9,915.0	11,743.1	9,388.0	69.2	68.7	-33.23	554.0	2,239.1	629.4	541.8	87.63	7.182		
12,300.0	9,919.8	11,842.7	9,391.1	71.3	70.9	-33.00	552.7	2,338.7	629.7	539.9	89.85	7.008		
12,400.0	9,924.5	11,942.4	9,394.2	73.5	73.0	-32.78	551.5	2,438.3	630.1	538.0	92.08	6.843		
12,500.0	9,929.2	12,042.0	9,397.2	75.6	75.2	-32.57	550.4	2,537.8	630.6	536.2	94.32	6.685		
12,600.0	9,933.9	12,141.6	9,400.3	77.8	77.4	-32.36	549.4	2,637.4	631.1	534.5	96.58	6.535		
12,700.0	9,938.6	12,241.2	9,403.3	80.0	79.6	-32.16	548.5	2,737.0	631.7	532.8	98.84	6.391		
12,800.0	9,943.3	12,340.9	9,406.3	82.2	81.8	-31.97	547.7	2,836.6	632.3	531.2	101.12	6.253		
12,900.0	9,948.0	12,440.5	9,409.4	84.4	84.0	-31.79	547.0	2,936.2	633.0	529.6	103.40	6.122		
13,000.0	9,952.7	12,540.2	9,412.4	86.7	86.3	-31.61	546.4	3,035.8	633.8	528.1	105.70	5.996		
13,100.0	9,957.5	12,639.8	9,415.4	88.9	88.5	-31.45	545.9	3,135.4	634.6	526.6	108.00	5.876		
13,200.0	9,962.2	12,739.4	9,418.5	91.2	90.8	-31.28	545.4	3,234.9	635.5	525.2	110.32	5.760		
13,300.0	9,966.9	12,839.1	9,421.5	93.4	93.1	-31.13	545.1	3,334.5	636.4	523.8	112.64	5.650		
13,400.0	9,971.6	12,938.7	9,424.5	95.7	95.4	-30.99	544.9	3,434.1	637.4	522.4	114.98	5.544		
13,500.0	9,976.3	13,038.4	9,427.5	98.0	97.6	-30.85	544.7	3,533.8	638.5	521.1	117.33	5.442		
13,600.0	9,981.0	13,138.0	9,430.5	100.3	99.9	-30.72	544.7	3,633.4	639.6	519.9	119.69	5.344		
13,700.0	9,985.7	13,237.7	9,433.5	102.6	102.2	-30.60	544.7	3,733.0	640.7	518.7	122.06	5.249		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 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	
13,800.0	9,990.4	13,337.3	9,436.5	104.9	104.5	-30.48	544.9	3,832.6	641.9	517.5	124.44	5.158	
13,900.0	9,995.2	13,437.0	9,439.5	107.2	106.9	-30.37	545.1	3,932.2	643.2	516.4	126.84	5.071	
14,000.0	9,999.9	13,536.6	9,442.5	109.5	109.2	-30.27	545.4	4,031.8	644.5	515.3	129.25	4.987	
14,100.0	10,004.6	13,636.3	9,445.5	111.9	111.5	-30.18	545.9	4,131.4	645.9	514.2	131.68	4.905	
14,200.0	10,009.3	13,735.9	9,448.4	114.2	113.8	-30.09	546.4	4,231.0	647.3	513.2	134.12	4.826	
14,300.0	10,014.0	13,835.6	9,451.4	116.5	116.2	-30.02	547.0	4,330.6	648.8	512.2	136.58	4.750	
14,400.0	10,018.7	13,935.5	9,454.4	118.9	118.5	-29.94	547.7	4,430.5	650.3	511.3	139.06	4.677	
14,500.0	10,023.4	14,035.5	9,457.4	121.2	120.9	-29.87	548.4	4,530.4	651.9	510.3	141.53	4.606	
14,600.0	10,028.1	14,135.5	9,460.4	123.6	123.2	-29.80	549.0	4,630.3	653.4	509.4	144.00	4.538	
14,700.0	10,032.8	14,235.5	9,463.3	125.9	125.6	-29.73	549.7	4,730.3	654.9	508.5	146.46	4.472	
14,800.0	10,037.6	14,335.4	9,466.3	128.3	127.9	-29.66	550.4	4,830.2	656.4	507.5	148.93	4.408	
14,900.0	10,042.3	14,435.4	9,469.3	130.7	130.3	-29.58	551.1	4,930.2	658.0	506.6	151.39	4.346	
15,000.0	10,047.0	14,535.4	9,472.3	133.0	132.7	-29.51	551.8	5,030.1	659.5	505.7	153.85	4.287	
15,100.0	10,051.7	14,635.4	9,475.3	135.4	135.1	-29.44	552.5	5,130.0	661.0	504.7	156.30	4.229	
15,200.0	10,056.4	14,735.4	9,478.3	137.8	137.4	-29.37	553.2	5,230.0	662.6	503.8	158.75	4.173	
15,300.0	10,061.1	14,835.4	9,481.2	140.1	139.8	-29.30	553.8	5,329.9	664.1	502.9	161.20	4.120	
15,400.0	10,065.8	14,935.4	9,484.2	142.5	142.2	-29.23	554.5	5,429.8	665.6	502.0	163.65	4.067	
15,500.0	10,070.5	15,035.3	9,487.2	144.9	144.6	-29.17	555.2	5,529.8	667.2	501.1	166.09	4.017	
15,600.0	10,075.3	15,135.3	9,490.2	147.3	147.0	-29.10	555.9	5,629.7	668.7	500.2	168.52	3.968	
15,700.0	10,080.0	15,235.3	9,493.2	149.7	149.3	-29.03	556.6	5,729.7	670.2	499.3	170.96	3.920	
15,800.0	10,084.7	15,335.3	9,496.2	152.0	151.7	-28.96	557.3	5,829.6	671.8	498.4	173.39	3.874	
15,900.0	10,089.4	15,435.3	9,499.1	154.4	154.1	-28.89	557.9	5,929.5	673.3	497.5	175.81	3.830	
16,000.0	10,094.1	15,535.3	9,502.1	156.8	156.5	-28.82	558.6	6,029.5	674.8	496.6	178.23	3.786	
16,100.0	10,098.8	15,635.3	9,505.1	159.2	158.9	-28.76	559.3	6,129.4	676.4	495.7	180.65	3.744	
16,200.0	10,103.5	15,735.2	9,508.1	161.6	161.3	-28.69	560.0	6,229.4	677.9	494.8	183.06	3.703	
16,300.0	10,108.2	15,835.2	9,511.1	164.0	163.7	-28.62	560.7	6,329.3	679.5	494.0	185.47	3.663	
16,400.0	10,113.0	15,935.2	9,514.1	166.4	166.1	-28.56	561.4	6,429.2	681.0	493.1	187.87	3.625	
16,500.0	10,117.7	16,035.2	9,517.0	168.8	168.5	-28.49	562.1	6,529.2	682.5	492.3	190.27	3.587	
16,600.0	10,122.4	16,135.2	9,520.0	171.2	170.9	-28.43	562.7	6,629.1	684.1	491.4	192.67	3.551	
16,700.0	10,127.1	16,235.2	9,523.0	173.6	173.3	-28.36	563.4	6,729.0	685.6	490.6	195.06	3.515	
16,800.0	10,131.8	16,335.1	9,526.0	176.0	175.7	-28.30	564.1	6,829.0	687.2	489.7	197.45	3.480	
16,900.0	10,136.5	16,435.1	9,529.0	178.4	178.1	-28.23	564.8	6,928.9	688.7	488.9	199.83	3.447	
17,000.0	10,141.2	16,535.1	9,532.0	180.8	180.5	-28.17	565.5	7,028.9	690.3	488.1	202.20	3.414	
17,100.0	10,145.9	16,635.1	9,534.9	183.2	182.9	-28.10	566.2	7,128.8	691.8	487.2	204.57	3.382	
17,200.0	10,150.7	16,735.1	9,537.9	185.6	185.3	-28.04	566.9	7,228.7	693.4	486.4	206.94	3.350	
17,218.0	10,151.5	16,737.8	9,538.0	186.1	185.4	-28.04	566.9	7,231.5	693.8	486.6	207.25	3.348	
17,218.7	10,151.5	16,737.8	9,538.0	186.1	185.4	-28.04	566.9	7,231.5	693.8	486.6	207.22	3.348	

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	159.37	-80.2	30.2	85.7					
100.0	100.0	98.5	98.5	0.1	0.1	158.84	-80.2	31.1	86.0	85.8	0.26	334.614		
200.0	200.0	197.9	197.8	0.5	0.5	157.26	-80.2	33.6	87.0	86.0	0.97	89.581		
300.0	300.0	302.9	297.0	0.8	0.9	154.71	-80.2	37.9	88.8	87.0	1.71	51.817		
400.0	400.0	403.0	396.7	1.2	1.2	151.73	-80.2	43.1	91.1	88.7	2.44	37.420		
500.0	500.0	503.1	496.5	1.6	1.6	148.92	-80.2	48.4	93.7	90.6	3.16	29.682		
600.0	600.0	603.3	596.2	1.9	2.0	146.26	-80.2	53.6	96.5	92.6	3.88	24.883		
700.0	700.0	703.4	695.9	2.3	2.3	143.75	-80.2	58.8	99.5	94.9	4.60	21.634		
800.0	800.0	803.5	795.6	2.6	2.7	141.40	-80.2	64.0	102.7	97.4	5.32	19.302		
900.0	900.0	896.3	895.4	3.0	3.0	139.19	-80.2	69.3	106.1	100.0	6.02	17.632		
1,000.0	1,000.0	996.2	995.1	3.4	3.4	137.12	-80.2	74.5	109.6	102.8	6.73	16.269		
1,100.0	1,100.0	1,096.6	1,095.4	3.7	3.8	135.99	-81.2	78.4	112.9	105.5	7.45	15.160		
1,200.0	1,200.0	1,197.1	1,195.9	4.1	4.1	136.64	-84.2	79.5	115.9	107.7	8.15	14.212		
1,300.0	1,300.0	1,297.4	1,296.0	4.4	4.5	138.95	-89.3	77.8	118.4	109.6	8.84	13.391		
1,400.0	1,400.0	1,397.3	1,395.6	4.8	4.8	142.79	-96.4	73.2	121.0	111.5	9.53	12.700		
1,500.0	1,500.0	1,503.2	1,494.5	5.1	5.1	147.38	-104.6	66.9	124.3	114.0	10.24	12.135		
1,600.0	1,600.0	1,603.8	1,593.4	5.5	5.5	-145.51	-112.9	60.7	129.0	118.1	10.94	11.797		
1,700.0	1,700.0	1,704.3	1,692.3	5.9	5.8	-142.10	-121.1	54.5	135.7	124.1	11.63	11.669		
1,800.0	1,799.9	1,804.9	1,791.2	6.2	6.2	-139.45	-129.4	48.2	144.2	131.8	12.33	11.692		
1,900.0	1,899.7	1,905.5	1,890.1	6.6	6.5	-137.52	-137.6	42.0	154.2	141.1	13.04	11.827		
2,000.0	1,999.4	2,006.2	1,988.8	6.9	6.9	-136.23	-145.9	35.7	165.6	151.8	13.75	12.044		
2,100.0	2,098.9	2,107.0	2,087.5	7.3	7.3	-135.49	-154.1	29.5	178.2	163.8	14.46	12.324		
2,200.0	2,198.3	2,208.0	2,186.0	7.6	7.6	-135.19	-162.4	23.3	192.2	177.0	15.19	12.654		
2,300.0	2,297.4	2,309.1	2,284.3	8.0	8.0	-135.25	-170.6	17.1	207.3	191.4	15.92	13.025		
2,400.0	2,396.4	2,389.6	2,382.5	8.4	8.3	-135.56	-178.8	10.9	223.1	206.5	16.58	13.459		
2,500.0	2,495.5	2,488.3	2,480.7	8.8	8.7	-135.83	-187.0	4.7	238.9	221.6	17.31	13.803		
2,600.0	2,594.5	2,587.1	2,578.9	9.2	9.1	-136.06	-195.2	-1.5	254.7	236.6	18.04	14.116		
2,700.0	2,693.5	2,685.8	2,677.1	9.5	9.4	-136.27	-203.4	-7.7	270.5	251.7	18.78	14.403		
2,800.0	2,792.5	2,784.6	2,775.3	9.9	9.8	-136.45	-211.6	-13.9	286.3	266.7	19.52	14.666		
2,900.0	2,891.6	2,883.3	2,873.5	10.3	10.2	-136.62	-219.8	-20.1	302.1	281.8	20.26	14.908		
3,000.0	2,990.6	2,982.0	2,971.7	10.7	10.6	-136.77	-228.0	-26.3	317.9	296.8	21.01	15.131		
3,100.0	3,089.6	3,080.8	3,069.9	11.1	11.0	-136.90	-236.2	-32.5	333.7	311.9	21.75	15.337		
3,200.0	3,188.6	3,179.5	3,168.1	11.5	11.3	-137.02	-244.4	-38.7	349.5	326.9	22.50	15.529		
3,300.0	3,287.7	3,278.3	3,266.3	11.9	11.7	-137.13	-252.6	-44.9	365.3	342.0	23.25	15.707		
3,400.0	3,386.7	3,377.0	3,364.5	12.3	12.1	-137.24	-260.8	-51.1	381.1	357.1	24.01	15.873		
3,500.0	3,485.7	3,475.7	3,462.7	12.7	12.5	-137.33	-269.0	-57.3	396.9	372.1	24.76	16.028		
3,600.0	3,584.8	3,574.5	3,560.9	13.1	12.9	-137.42	-277.2	-63.5	412.7	387.2	25.52	16.173		
3,700.0	3,683.8	3,673.2	3,659.1	13.5	13.3	-137.50	-285.4	-69.7	428.5	402.2	26.27	16.309		
3,800.0	3,782.8	3,772.0	3,757.3	13.9	13.6	-137.57	-293.6	-75.9	444.3	417.3	27.03	16.436		
3,900.0	3,881.8	3,870.7	3,855.5	14.4	14.0	-137.64	-301.8	-82.1	460.1	432.3	27.79	16.557		
4,000.0	3,980.9	3,969.5	3,953.7	14.8	14.4	-137.71	-310.0	-88.3	475.9	447.3	28.55	16.670		
4,100.0	4,079.9	4,068.2	4,051.9	15.2	14.8	-137.77	-318.2	-94.5	491.7	462.4	29.31	16.777		
4,200.0	4,178.9	4,166.9	4,150.1	15.6	15.2	-137.83	-326.4	-100.7	507.5	477.4	30.07	16.878		
4,300.0	4,277.9	4,265.7	4,248.3	16.0	15.6	-137.88	-334.6	-106.8	523.3	492.5	30.83	16.974		
4,400.0	4,377.0	4,364.4	4,346.6	16.4	16.0	-137.93	-342.8	-113.0	539.1	507.5	31.59	17.065		
4,500.0	4,476.0	4,463.2	4,444.8	16.8	16.3	-137.98	-351.0	-119.2	554.9	522.6	32.36	17.151		
4,600.0	4,575.0	4,561.9	4,543.0	17.2	16.7	-138.02	-359.2	-125.4	570.8	537.6	33.12	17.233		
4,698.1	4,672.2	4,658.8	4,639.3	17.6	17.1	-138.06	-367.2	-131.5	586.3	552.4	33.87	17.309		
4,700.0	4,674.0	4,660.6	4,641.2	17.6	17.1	-138.07	-367.4	-131.6	586.6	552.7	33.88	17.311		
4,800.0	4,773.3	4,759.5	4,739.5	18.0	17.5	-138.17	-375.6	-137.8	601.4	566.7	34.65	17.358		
4,900.0	4,872.7	4,858.7	4,838.1	18.4	17.9	-138.09	-383.8	-144.1	614.3	578.9	35.40	17.352		
5,000.0	4,972.5	4,958.0	4,936.9	18.8	18.3	-137.84	-392.1	-150.3	625.2	589.1	36.15	17.296		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
5,100.0	5,072.4	5,057.4	5,035.8	19.2	18.7	-137.42	-400.3	-156.5	634.3	597.4	36.89	17.195		
5,200.0	5,172.3	5,156.9	5,134.7	19.5	19.1	-136.84	-408.6	-162.8	641.5	603.9	37.62	17.053		
5,231.4	5,203.8	5,188.1	5,165.8	19.6	19.2	160.42	-411.2	-164.7	643.4	605.6	37.85	17.000		
5,300.0	5,272.3	5,256.3	5,233.6	19.8	19.5	160.95	-416.9	-169.0	647.4	609.0	38.34	16.885		
5,400.0	5,372.3	5,355.8	5,332.6	20.2	19.9	161.70	-425.1	-175.3	653.3	614.2	39.06	16.724		
5,500.0	5,472.3	5,455.3	5,431.5	20.5	20.2	162.44	-433.4	-181.5	659.3	619.5	39.78	16.571		
5,600.0	5,572.3	5,554.7	5,530.4	20.8	20.6	163.17	-441.6	-187.8	665.4	624.8	40.50	16.428		
5,700.0	5,672.3	5,654.2	5,629.3	21.2	21.0	163.89	-449.9	-194.0	671.6	630.3	41.22	16.292		
5,800.0	5,772.3	5,753.6	5,728.2	21.5	21.4	164.59	-458.2	-200.2	677.9	635.9	41.94	16.163		
5,900.0	5,872.3	5,853.1	5,827.1	21.8	21.8	165.28	-466.4	-206.5	684.3	641.6	42.66	16.041		
6,000.0	5,972.3	5,952.5	5,926.1	22.2	22.2	165.95	-474.7	-212.7	690.8	647.4	43.38	15.925		
6,100.0	6,072.3	6,052.0	6,025.0	22.5	22.6	166.62	-482.9	-219.0	697.4	653.3	44.09	15.816		
6,200.0	6,172.3	6,151.5	6,123.9	22.9	23.0	167.27	-491.2	-225.2	704.1	659.3	44.81	15.712		
6,300.0	6,272.3	6,250.9	6,222.8	23.2	23.4	167.91	-499.5	-231.5	710.9	665.3	45.53	15.614		
6,400.0	6,372.3	6,350.4	6,321.7	23.5	23.8	168.53	-507.7	-237.7	717.7	671.5	46.24	15.520		
6,500.0	6,472.3	6,449.8	6,420.6	23.9	24.2	169.15	-516.0	-243.9	724.7	677.7	46.96	15.432		
6,600.0	6,572.3	6,549.3	6,519.5	24.2	24.6	169.75	-524.2	-250.2	731.7	684.1	47.68	15.348		
6,700.0	6,672.3	6,648.7	6,618.5	24.6	25.0	170.34	-532.5	-256.4	738.8	690.5	48.39	15.268		
6,800.0	6,772.3	6,748.2	6,717.4	24.9	25.4	170.93	-540.8	-262.7	746.0	696.9	49.11	15.192		
6,900.0	6,872.3	6,847.7	6,816.3	25.2	25.7	171.49	-549.0	-268.9	753.3	703.5	49.82	15.120		
7,000.0	6,972.3	6,947.1	6,915.2	25.6	26.1	172.05	-557.3	-275.2	760.6	710.1	50.54	15.051		
7,100.0	7,072.3	7,046.6	7,014.1	25.9	26.5	172.60	-565.5	-281.4	768.1	716.8	51.25	14.986		
7,200.0	7,172.3	7,146.0	7,113.0	26.3	26.9	173.14	-573.8	-287.6	775.5	723.6	51.97	14.924		
7,300.0	7,272.3	7,245.5	7,212.0	26.6	27.3	173.67	-582.1	-293.9	783.1	730.4	52.68	14.865		
7,400.0	7,372.3	7,344.9	7,310.9	27.0	27.7	174.18	-590.3	-300.1	790.7	737.3	53.39	14.809		
7,500.0	7,472.3	7,444.4	7,409.8	27.3	28.1	174.69	-598.6	-306.4	798.4	744.3	54.11	14.756		
7,600.0	7,572.3	7,543.9	7,508.7	27.7	28.5	175.19	-606.8	-312.6	806.1	751.3	54.82	14.705		
7,700.0	7,672.3	7,643.3	7,607.6	28.0	28.9	175.68	-615.1	-318.9	813.9	758.4	55.53	14.656		
7,800.0	7,772.3	7,742.8	7,706.5	28.3	29.3	176.16	-623.4	-325.1	821.8	765.5	56.25	14.610		
7,900.0	7,872.3	7,842.2	7,805.5	28.7	29.7	176.63	-631.6	-331.3	829.7	772.7	56.96	14.566		
8,000.0	7,972.3	7,941.7	7,904.4	29.0	30.1	177.09	-639.9	-337.6	837.7	780.0	57.67	14.524		
8,100.0	8,072.3	8,041.1	8,003.3	29.4	30.5	177.54	-648.1	-343.8	845.7	787.3	58.39	14.484		
8,200.0	8,172.3	8,140.6	8,102.2	29.7	30.9	177.98	-656.4	-350.1	853.7	794.6	59.10	14.446		
8,300.0	8,272.3	8,240.0	8,201.1	30.1	31.3	178.42	-664.7	-356.3	861.9	802.1	59.81	14.410		
8,400.0	8,372.3	8,339.5	8,300.0	30.4	31.6	178.85	-672.9	-362.5	870.0	809.5	60.52	14.375		
8,500.0	8,472.3	8,439.0	8,399.0	30.8	32.0	179.26	-681.2	-368.8	878.3	817.0	61.24	14.342		
8,600.0	8,572.3	8,561.3	8,520.7	31.1	32.5	179.71	-690.1	-375.6	886.6	823.5	62.10	14.261		
8,700.0	8,672.3	8,693.9	8,653.2	31.5	33.0	179.96	-695.3	-379.5	889.5	826.5	62.95	14.129		
8,800.0	8,772.3	8,809.2	8,768.5	31.8	33.4	179.90	-696.1	-378.5	890.1	826.5	63.67	13.980		
8,900.0	8,872.3	8,900.7	8,858.8	32.2	33.6	179.00	-696.7	-364.6	890.9	826.6	64.31	13.854		
9,000.0	8,972.3	8,985.8	8,939.8	32.5	33.8	177.36	-697.8	-338.9	893.3	828.4	64.89	13.766		
9,100.0	9,072.3	9,061.9	9,008.4	32.9	34.0	175.26	-699.2	-306.0	898.4	833.1	65.37	13.744		
9,200.0	9,172.3	9,128.1	9,064.0	33.2	34.0	173.00	-700.7	-270.2	907.8	842.1	65.67	13.824		
9,272.2	9,244.5	9,169.9	9,096.9	33.5	34.1	171.39	-701.7	-244.3	917.8	852.0	65.71	13.966		
9,300.0	9,272.3	9,185.1	9,108.3	33.6	34.1	80.53	-702.2	-234.4	922.3	856.6	65.69	14.041		
9,350.0	9,322.1	9,212.3	9,128.1	33.7	34.1	78.63	-702.9	-215.8	931.1	865.6	65.58	14.199		
9,400.0	9,371.3	9,239.3	9,146.9	33.9	34.2	76.75	-703.7	-196.5	940.5	875.1	65.40	14.381		
9,450.0	9,419.5	9,266.1	9,164.7	34.0	34.2	74.92	-704.6	-176.4	950.3	885.2	65.17	14.583		
9,500.0	9,466.4	9,292.9	9,181.5	34.1	34.2	73.14	-705.5	-155.5	960.3	895.5	64.89	14.800		
9,550.0	9,511.6	9,319.6	9,197.2	34.2	34.2	71.44	-706.4	-134.0	970.4	905.8	64.57	15.028		
9,600.0	9,554.7	9,350.0	9,213.9	34.4	34.2	69.75	-707.4	-108.6	980.4	916.1	64.29	15.250		
9,650.0	9,595.5	9,372.7	9,225.4	34.5	34.2	68.34	-708.2	-89.1	990.1	926.2	63.90	15.495		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,700.0	9,633.7	9,400.0	9,238.3	34.6	34.2	66.94	-709.3	-65.0	999.4	935.8	63.58	15.720		
9,750.0	9,668.8	9,425.5	9,249.2	34.7	34.2	65.70	-710.2	-42.0	1,008.3	945.0	63.27	15.936		
9,800.0	9,700.8	9,450.0	9,258.8	34.8	34.2	64.60	-711.2	-19.4	1,016.5	953.5	62.99	16.138		
9,850.0	9,729.2	9,478.2	9,268.6	35.0	34.2	63.58	-712.3	7.0	1,024.0	961.2	62.82	16.302		
9,900.0	9,754.0	9,500.0	9,275.2	35.1	34.2	62.76	-713.1	27.7	1,030.8	968.2	62.64	16.456		
9,950.0	9,774.9	9,530.8	9,283.3	35.3	34.2	62.01	-714.4	57.4	1,036.7	974.0	62.66	16.544		
10,000.0	9,791.8	9,550.0	9,287.5	35.5	34.2	61.46	-715.2	76.1	1,041.7	979.1	62.65	16.627		
10,050.0	9,804.5	9,583.2	9,293.3	35.8	34.3	60.99	-716.5	108.8	1,045.8	982.9	62.89	16.628		
10,100.0	9,812.9	9,609.5	9,296.6	36.0	34.3	60.70	-717.6	134.8	1,048.8	985.7	63.17	16.604		
10,125.2	9,815.5	9,622.7	9,297.7	36.2	34.4	60.60	-718.2	148.0	1,050.0	986.7	63.35	16.575		
10,200.0	9,820.7	9,689.7	9,301.9	36.7	34.8	60.62	-721.0	214.9	1,053.2	989.0	64.21	16.403		
10,225.5	9,822.0	9,715.4	9,303.5	36.9	35.0	60.65	-722.0	240.5	1,054.1	989.6	64.56	16.327		
10,300.0	9,825.5	9,790.5	9,308.1	37.5	35.6	60.79	-725.0	315.4	1,056.6	990.9	65.70	16.083		
10,400.0	9,830.2	9,891.3	9,314.1	38.4	36.6	60.97	-728.9	415.9	1,060.0	992.5	67.45	15.715		
10,500.0	9,834.9	9,992.2	9,320.1	39.4	37.7	61.14	-732.7	516.5	1,063.2	993.8	69.43	15.313		
10,600.0	9,839.7	10,093.0	9,325.9	40.6	38.9	61.31	-736.2	617.1	1,066.3	994.7	71.63	14.887		
10,700.0	9,844.4	10,193.9	9,331.7	41.9	40.2	61.46	-739.7	717.7	1,069.4	995.4	74.02	14.447		
10,800.0	9,849.1	10,294.7	9,337.4	43.3	41.7	61.60	-743.0	818.4	1,072.4	995.8	76.60	14.000		
10,900.0	9,853.8	10,395.6	9,343.0	44.7	43.2	61.74	-746.1	919.1	1,075.3	996.0	79.34	13.552		
11,000.0	9,858.5	10,496.5	9,348.5	46.3	44.8	61.87	-749.1	1,019.8	1,078.1	995.9	82.24	13.110		
11,100.0	9,863.2	10,597.4	9,353.9	47.9	46.5	61.98	-752.0	1,120.5	1,080.9	995.6	85.26	12.677		
11,200.0	9,867.9	10,698.3	9,359.2	49.6	48.2	62.09	-754.6	1,221.2	1,083.5	995.1	88.40	12.256		
11,300.0	9,872.6	10,799.2	9,364.4	51.4	50.0	62.19	-757.2	1,322.0	1,086.1	994.4	91.66	11.850		
11,400.0	9,877.3	10,900.2	9,369.5	53.2	51.9	62.28	-759.6	1,422.8	1,088.6	993.6	95.01	11.458		
11,500.0	9,882.1	11,001.1	9,374.6	55.1	53.8	62.37	-761.8	1,523.6	1,091.0	992.5	98.44	11.082		
11,600.0	9,886.8	11,102.1	9,379.5	57.0	55.8	62.44	-763.9	1,624.4	1,093.3	991.3	101.96	10.723		
11,700.0	9,891.5	11,203.0	9,384.3	58.9	57.7	62.51	-765.8	1,725.2	1,095.5	990.0	105.54	10.380		
11,800.0	9,896.2	11,304.0	9,389.1	60.9	59.8	62.57	-767.6	1,826.0	1,097.6	988.4	109.18	10.053		
11,900.0	9,900.9	11,405.0	9,393.7	63.0	61.8	62.62	-769.2	1,926.9	1,099.7	986.8	112.88	9.742		
12,000.0	9,905.6	11,506.0	9,398.3	65.0	63.9	62.66	-770.6	2,027.8	1,101.6	985.0	116.63	9.446		
12,100.0	9,910.3	11,606.9	9,402.8	67.1	66.0	62.69	-772.0	2,128.6	1,103.5	983.1	120.42	9.164		
12,200.0	9,915.0	11,707.9	9,407.1	69.2	68.2	62.72	-773.1	2,229.5	1,105.2	981.0	124.25	8.895		
12,300.0	9,919.8	11,808.9	9,411.4	71.3	70.3	62.73	-774.1	2,330.4	1,106.9	978.8	128.11	8.640		
12,400.0	9,924.5	11,909.9	9,415.6	73.5	72.5	62.74	-775.0	2,431.3	1,108.5	976.5	132.00	8.398		
12,500.0	9,929.2	12,010.9	9,419.7	75.6	74.7	62.74	-775.7	2,532.3	1,110.0	974.1	135.92	8.166		
12,600.0	9,933.9	12,112.0	9,423.7	77.8	76.9	62.74	-776.3	2,633.2	1,111.4	971.5	139.86	7.946		
12,700.0	9,938.6	12,213.0	9,427.6	80.0	79.1	62.72	-776.7	2,734.1	1,112.7	968.9	143.82	7.737		
12,800.0	9,943.3	12,314.0	9,431.4	82.2	81.4	62.70	-776.9	2,835.1	1,113.9	966.1	147.79	7.537		
12,900.0	9,948.0	12,415.0	9,435.1	84.4	83.6	62.67	-777.0	2,936.0	1,115.0	963.3	151.78	7.346		
13,000.0	9,952.7	12,516.0	9,438.8	86.7	85.9	62.63	-776.9	3,037.0	1,116.1	960.3	155.78	7.165		
13,100.0	9,957.5	12,617.0	9,442.3	88.9	88.2	62.59	-776.7	3,137.9	1,117.0	957.2	159.78	6.991		
13,200.0	9,962.2	12,718.0	9,445.7	91.2	90.5	62.53	-776.4	3,238.9	1,117.9	954.1	163.79	6.825		
13,300.0	9,966.9	12,819.0	9,449.1	93.4	92.7	62.47	-775.9	3,339.8	1,118.6	950.8	167.81	6.666		
13,400.0	9,971.6	12,919.7	9,452.3	95.7	95.0	62.40	-775.2	3,440.5	1,119.3	947.5	171.82	6.514		
13,500.0	9,976.3	13,019.7	9,455.5	98.0	97.3	62.33	-774.5	3,540.4	1,120.0	944.1	175.82	6.370		
13,600.0	9,981.0	13,119.7	9,458.7	100.3	99.6	62.26	-773.8	3,640.3	1,120.6	940.8	179.84	6.231		
13,700.0	9,985.7	13,219.7	9,461.9	102.6	101.9	62.19	-773.1	3,740.3	1,121.3	937.4	183.87	6.098		
13,800.0	9,990.4	13,319.7	9,465.1	104.9	104.2	62.12	-772.4	3,840.2	1,121.9	934.0	187.90	5.971		
13,900.0	9,995.2	13,419.7	9,468.3	107.2	106.5	62.05	-771.7	3,940.1	1,122.6	930.6	191.94	5.849		
14,000.0	9,999.9	13,519.7	9,471.5	109.5	108.9	61.98	-771.0	4,040.1	1,123.3	927.3	195.98	5.731		
14,100.0	10,004.6	13,619.7	9,474.7	111.9	111.2	61.91	-770.3	4,140.0	1,123.9	923.9	200.03	5.619		
14,200.0	10,009.3	13,719.7	9,477.9	114.2	113.5	61.84	-769.6	4,240.0	1,124.6	920.5	204.09	5.510		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1												Offset Site Error:	0.0 usft
Survey Program: 0-MWD												Offset Well Error:	0.0 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	
14,300.0	10,014.0	13,819.6	9,481.1	116.5	115.8	61.78	-768.9	4,339.9	1,125.2	917.1	208.14	5.406	
14,400.0	10,018.7	13,919.6	9,484.3	118.9	118.2	61.71	-768.2	4,439.8	1,125.9	913.7	212.21	5.306	
14,500.0	10,023.4	14,019.6	9,487.5	121.2	120.5	61.64	-767.6	4,539.8	1,126.6	910.3	216.27	5.209	
14,600.0	10,028.1	14,119.6	9,490.7	123.6	122.9	61.57	-766.9	4,639.7	1,127.3	906.9	220.34	5.116	
14,700.0	10,032.8	14,219.6	9,493.9	125.9	125.2	61.50	-766.2	4,739.6	1,127.9	903.5	224.40	5.026	
14,800.0	10,037.6	14,319.6	9,497.1	128.3	127.6	61.43	-765.5	4,839.6	1,128.6	900.1	228.47	4.940	
14,900.0	10,042.3	14,419.6	9,500.3	130.7	129.9	61.36	-764.8	4,939.5	1,129.3	896.7	232.55	4.856	
15,000.0	10,047.0	14,519.6	9,503.4	133.0	132.3	61.29	-764.1	5,039.4	1,130.0	893.4	236.62	4.776	
15,100.0	10,051.7	14,619.6	9,506.6	135.4	134.7	61.22	-763.4	5,139.4	1,130.7	890.0	240.69	4.698	
15,200.0	10,056.4	14,719.5	9,509.8	137.8	137.0	61.15	-762.7	5,239.3	1,131.3	886.6	244.76	4.622	
15,300.0	10,061.1	14,819.5	9,513.0	140.1	139.4	61.08	-762.0	5,339.2	1,132.0	883.2	248.84	4.549	
15,400.0	10,065.8	14,919.5	9,516.2	142.5	141.8	61.02	-761.3	5,439.2	1,132.7	879.8	252.91	4.479	
15,500.0	10,070.5	15,019.5	9,519.4	144.9	144.1	60.95	-760.6	5,539.1	1,133.4	876.4	256.98	4.410	
15,600.0	10,075.3	15,119.5	9,522.6	147.3	146.5	60.88	-759.9	5,639.0	1,134.1	873.0	261.05	4.344	
15,700.0	10,080.0	15,219.5	9,525.8	149.7	148.9	60.81	-759.2	5,739.0	1,134.8	869.7	265.12	4.280	
15,800.0	10,084.7	15,319.5	9,529.0	152.0	151.3	60.74	-758.5	5,838.9	1,135.5	866.3	269.19	4.218	
15,900.0	10,089.4	15,419.5	9,532.2	154.4	153.7	60.67	-757.8	5,938.8	1,136.2	862.9	273.26	4.158	
16,000.0	10,094.1	15,519.4	9,535.4	156.8	156.0	60.61	-757.1	6,038.8	1,136.9	859.5	277.32	4.099	
16,100.0	10,098.8	15,619.4	9,538.6	159.2	158.4	60.54	-756.4	6,138.7	1,137.5	856.2	281.39	4.043	
16,200.0	10,103.5	15,719.4	9,541.8	161.6	160.8	60.47	-755.7	6,238.7	1,138.2	852.8	285.45	3.988	
16,300.0	10,108.2	15,819.4	9,545.0	164.0	163.2	60.40	-755.1	6,338.6	1,138.9	849.4	289.51	3.934	
16,400.0	10,113.0	15,919.4	9,548.2	166.4	165.6	60.34	-754.4	6,438.5	1,139.7	846.1	293.57	3.882	
16,500.0	10,117.7	16,019.4	9,551.4	168.8	168.0	60.27	-753.7	6,538.5	1,140.4	842.7	297.62	3.832	
16,600.0	10,122.4	16,119.4	9,554.6	171.2	170.4	60.20	-753.0	6,638.4	1,141.1	839.4	301.68	3.782	
16,700.0	10,127.1	16,219.4	9,557.8	173.6	172.8	60.13	-752.3	6,738.3	1,141.8	836.0	305.73	3.735	
16,800.0	10,131.8	16,319.4	9,561.0	176.0	175.2	60.07	-751.6	6,838.3	1,142.5	832.7	309.77	3.688	
16,900.0	10,136.5	16,419.3	9,564.2	178.4	177.6	60.00	-750.9	6,938.2	1,143.2	829.4	313.82	3.643	
17,000.0	10,141.2	16,519.3	9,567.4	180.8	180.0	59.93	-750.2	7,038.1	1,143.9	826.0	317.86	3.599	
17,100.0	10,145.9	16,619.3	9,570.6	183.2	182.4	59.86	-749.5	7,138.1	1,144.6	822.7	321.90	3.556	
17,200.0	10,150.7	16,711.6	9,573.5	185.6	184.6	59.80	-748.9	7,230.3	1,145.3	819.5	325.81	3.515	
17,218.0	10,151.5	16,711.6	9,573.5	186.1	184.6	59.80	-748.9	7,230.3	1,145.7	819.5	326.19	3.512 SF	
17,218.7	10,151.5	16,711.6	9,573.5	186.1	184.6	59.80	-748.9	7,230.3	1,145.8	819.6	326.19	3.513	

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #222H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	90.00	0.0	30.0	30.0					
100.0	100.0	100.0	100.0	0.1	0.1	90.00	0.0	30.0	30.0	29.7	0.26	117.057		
200.0	200.0	200.0	200.0	0.5	0.5	90.00	0.0	30.0	30.0	29.0	0.97	30.827		
300.0	300.0	300.0	300.0	0.8	0.8	90.00	0.0	30.0	30.0	28.3	1.69	17.751		
400.0	400.0	400.0	400.0	1.2	1.2	90.00	0.0	30.0	30.0	27.6	2.41	12.464		
500.0	500.0	500.0	500.0	1.6	1.6	90.00	0.0	30.0	30.0	26.9	3.12	9.604		
600.0	600.0	600.0	600.0	1.9	1.9	90.00	0.0	30.0	30.0	26.2	3.84	7.811		
700.0	700.0	700.0	700.0	2.3	2.3	90.00	0.0	30.0	30.0	25.4	4.56	6.582		
800.0	800.0	800.0	800.0	2.6	2.6	90.00	0.0	30.0	30.0	24.7	5.27	5.688		
900.0	900.0	900.0	900.0	3.0	3.0	90.00	0.0	30.0	30.0	24.0	5.99	5.007		
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	90.00	0.0	30.0	30.0	23.3	6.71	4.472		
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	90.00	0.0	30.0	30.0	22.6	7.43	4.040		
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	90.00	0.0	30.0	30.0	21.9	8.14	3.685		
1,300.0	1,300.0	1,300.2	1,300.2	4.4	4.4	91.59	-0.8	29.7	29.7	20.9	8.84	3.360		
1,400.0	1,400.0	1,400.3	1,400.2	4.8	4.7	96.51	-3.3	28.8	29.0	19.5	9.53	3.043		
1,500.0	1,500.0	1,500.3	1,500.1	5.1	5.1	105.14	-7.4	27.3	28.3	18.1	10.22	2.769		
1,516.9	1,516.9	1,517.2	1,517.0	5.2	5.1	169.95	-8.2	27.0	28.3	17.9	10.34	2.734 CC, ES		
1,600.0	1,600.0	1,600.1	1,599.7	5.5	5.4	-179.58	-13.1	25.2	29.3	18.4	10.91	2.686 SF		
1,700.0	1,700.0	1,699.5	1,698.9	5.9	5.8	-166.37	-20.5	22.6	33.8	22.2	11.60	2.918		
1,800.0	1,799.9	1,798.7	1,797.6	6.2	6.1	-155.57	-29.4	19.3	42.2	29.9	12.28	3.437		
1,900.0	1,899.7	1,897.3	1,895.5	6.6	6.4	-148.00	-39.8	15.5	54.1	41.2	12.97	4.174		
2,000.0	1,999.4	1,995.3	1,992.7	6.9	6.8	-143.01	-51.8	11.1	69.2	55.5	13.65	5.068		
2,100.0	2,098.9	2,092.6	2,089.0	7.3	7.2	-139.74	-65.2	6.3	87.1	72.8	14.33	6.078		
2,200.0	2,198.3	2,189.2	2,184.3	7.6	7.5	-137.57	-80.0	0.9	107.7	92.7	15.01	7.176		
2,300.0	2,297.4	2,285.2	2,278.7	8.0	7.9	-136.11	-96.3	-5.0	130.9	115.2	15.70	8.338		
2,400.0	2,396.4	2,382.2	2,374.0	8.4	8.3	-135.29	-113.2	-11.2	155.1	138.7	16.41	9.452		
2,500.0	2,495.5	2,479.2	2,469.3	8.8	8.7	-134.69	-130.1	-17.4	179.4	162.3	17.14	10.470		
2,600.0	2,594.5	2,576.1	2,564.6	9.2	9.1	-134.23	-147.0	-23.5	203.7	185.9	17.87	11.403		
2,700.0	2,693.5	2,673.1	2,659.9	9.5	9.5	-133.87	-163.9	-29.7	228.1	209.4	18.60	12.259		
2,800.0	2,792.5	2,770.1	2,755.2	9.9	9.9	-133.58	-180.8	-35.8	252.4	233.0	19.34	13.048		
2,900.0	2,891.6	2,867.1	2,850.5	10.3	10.3	-133.34	-197.7	-42.0	276.7	256.6	20.09	13.776		
3,000.0	2,990.6	2,964.1	2,945.8	10.7	10.8	-133.14	-214.6	-48.2	301.0	280.2	20.83	14.450		
3,100.0	3,089.6	3,061.1	3,041.2	11.1	11.2	-132.97	-231.6	-54.3	325.4	303.8	21.58	15.075		
3,200.0	3,188.6	3,158.1	3,136.5	11.5	11.6	-132.82	-248.5	-60.5	349.7	327.4	22.34	15.657		
3,300.0	3,287.7	3,255.1	3,231.8	11.9	12.0	-132.69	-265.4	-66.6	374.0	350.9	23.09	16.198		
3,400.0	3,386.7	3,352.1	3,327.1	12.3	12.5	-132.58	-282.3	-72.8	398.4	374.5	23.85	16.704		
3,500.0	3,485.7	3,449.1	3,422.4	12.7	12.9	-132.48	-299.2	-78.9	422.7	398.1	24.61	17.177		
3,600.0	3,584.8	3,546.1	3,517.7	13.1	13.3	-132.39	-316.1	-85.1	447.0	421.7	25.37	17.621		
3,700.0	3,683.8	3,643.0	3,613.0	13.5	13.8	-132.31	-333.0	-91.3	471.4	445.3	26.13	18.038		
3,800.0	3,782.8	3,740.0	3,708.3	13.9	14.2	-132.24	-349.9	-97.4	495.7	468.8	26.90	18.430		
3,900.0	3,881.8	3,837.0	3,803.6	14.4	14.6	-132.18	-366.8	-103.6	520.1	492.4	27.67	18.799		
4,000.0	3,980.9	3,934.0	3,898.9	14.8	15.1	-132.12	-383.8	-109.7	544.4	516.0	28.43	19.147		
4,100.0	4,079.9	4,031.0	3,994.2	15.2	15.5	-132.06	-400.7	-115.9	568.8	539.6	29.20	19.476		
4,200.0	4,178.9	4,128.0	4,089.5	15.6	15.9	-132.01	-417.6	-122.0	593.1	563.1	29.97	19.788		
4,300.0	4,277.9	4,225.0	4,184.8	16.0	16.4	-131.97	-434.5	-128.2	617.4	586.7	30.74	20.083		
4,400.0	4,377.0	4,322.0	4,280.1	16.4	16.8	-131.92	-451.4	-134.4	641.8	610.3	31.52	20.364		
4,500.0	4,476.0	4,419.0	4,375.4	16.8	17.3	-131.89	-468.3	-140.5	666.1	633.8	32.29	20.630		
4,600.0	4,575.0	4,516.0	4,470.7	17.2	17.7	-131.85	-485.2	-146.7	690.5	657.4	33.06	20.883		
4,698.1	4,672.2	4,611.1	4,564.2	17.6	18.1	-131.82	-501.8	-152.7	714.4	680.5	33.82	21.120		
4,700.0	4,674.0	4,612.9	4,566.0	17.6	18.1	-131.82	-502.1	-152.8	714.8	681.0	33.84	21.125		
4,800.0	4,773.3	4,710.1	4,661.6	18.0	18.6	-131.98	-519.1	-159.0	738.3	703.7	34.61	21.332		
4,900.0	4,872.7	4,807.7	4,757.4	18.4	19.0	-131.97	-536.1	-165.2	760.1	724.7	35.37	21.489		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
5,000.0	4,972.5	4,905.5	4,853.5	18.8	19.5	-131.81	-553.2	-171.4	780.1	744.0	36.12	21.599		
5,100.0	5,072.4	5,003.6	4,949.9	19.2	19.9	-131.51	-570.3	-177.6	798.6	761.7	36.86	21.666		
5,200.0	5,172.3	5,101.7	5,046.4	19.5	20.4	-131.07	-587.4	-183.9	815.3	777.8	37.58	21.693		
5,231.4	5,203.8	5,132.6	5,076.7	19.6	20.5	166.14	-592.8	-185.8	820.3	782.5	37.81	21.695		
5,300.0	5,272.3	5,200.0	5,142.9	19.8	20.8	166.62	-604.5	-190.1	830.9	792.6	38.30	21.696		
5,400.0	5,372.3	5,301.7	5,239.5	20.2	21.3	167.31	-621.6	-196.4	846.6	807.5	39.03	21.692		
5,500.0	5,472.3	5,403.5	5,336.0	20.5	21.8	167.97	-638.8	-202.6	862.3	822.6	39.75	21.691		
5,600.0	5,572.3	5,505.2	5,432.6	20.8	22.2	168.61	-655.9	-208.8	878.2	837.7	40.48	21.694		
5,700.0	5,672.3	5,606.9	5,529.1	21.2	22.7	169.23	-673.0	-215.1	894.2	852.9	41.21	21.699		
5,800.0	5,772.3	5,708.7	5,625.7	21.5	23.2	169.82	-690.2	-221.3	910.2	868.3	41.93	21.706		
5,900.0	5,872.3	5,789.6	5,722.2	21.8	23.6	170.40	-707.3	-227.5	926.4	883.8	42.58	21.757		
6,000.0	5,972.3	5,887.8	5,818.8	22.2	24.0	170.95	-724.4	-233.8	942.6	899.3	43.29	21.775		
6,100.0	6,072.3	5,986.1	5,915.4	22.5	24.5	171.49	-741.6	-240.0	958.9	914.9	44.00	21.793		
6,200.0	6,172.3	6,084.4	6,011.9	22.9	24.9	172.01	-758.7	-246.3	975.4	930.6	44.71	21.813		
6,300.0	6,272.3	6,182.6	6,108.5	23.2	25.4	172.51	-775.8	-252.5	991.8	946.4	45.43	21.834		
6,400.0	6,372.3	6,280.9	6,205.0	23.5	25.8	172.99	-793.0	-258.7	1,008.4	962.3	46.14	21.856		
6,500.0	6,472.3	6,379.2	6,301.6	23.9	26.3	173.46	-810.1	-265.0	1,025.0	978.2	46.85	21.878		
6,600.0	6,572.3	6,477.4	6,398.1	24.2	26.7	173.92	-827.3	-271.2	1,041.7	994.1	47.56	21.902		
6,700.0	6,672.3	6,575.7	6,494.7	24.6	27.2	174.36	-844.4	-277.5	1,058.5	1,010.2	48.28	21.925		
6,800.0	6,772.3	6,674.0	6,591.3	24.9	27.6	174.79	-861.5	-283.7	1,075.3	1,026.3	48.99	21.950		
6,900.0	6,872.3	6,772.2	6,687.8	25.2	28.1	175.20	-878.7	-289.9	1,092.1	1,042.4	49.70	21.974		
7,000.0	6,972.3	6,870.5	6,784.4	25.6	28.6	175.60	-895.8	-296.2	1,109.1	1,058.7	50.41	21.999		
7,100.0	7,072.3	6,968.7	6,880.9	25.9	29.0	175.99	-912.9	-302.4	1,126.0	1,074.9	51.13	22.025		
7,200.0	7,172.3	7,067.0	6,977.5	26.3	29.5	176.37	-930.1	-308.6	1,143.1	1,091.2	51.84	22.050		
7,300.0	7,272.3	7,165.3	7,074.0	26.6	29.9	176.73	-947.2	-314.9	1,160.1	1,107.6	52.55	22.076		
7,400.0	7,372.3	7,263.5	7,170.6	27.0	30.4	177.09	-964.3	-321.1	1,177.2	1,124.0	53.27	22.101		
7,500.0	7,472.3	7,361.8	7,267.1	27.3	30.8	177.44	-981.5	-327.4	1,194.4	1,140.4	53.98	22.127		
7,600.0	7,572.3	7,460.1	7,363.7	27.7	31.3	177.77	-998.6	-333.6	1,211.6	1,156.9	54.69	22.152		
7,700.0	7,672.3	7,558.3	7,460.3	28.0	31.8	178.10	-1,015.7	-339.8	1,228.8	1,173.4	55.41	22.178		
7,800.0	7,772.3	7,656.6	7,556.8	28.3	32.2	178.42	-1,032.9	-346.1	1,246.1	1,190.0	56.12	22.204		
7,900.0	7,872.3	7,754.8	7,653.4	28.7	32.7	178.72	-1,050.0	-352.3	1,263.4	1,206.6	56.84	22.229		
8,000.0	7,972.3	7,862.1	7,758.8	29.0	33.2	179.05	-1,068.6	-359.1	1,280.7	1,223.1	57.63	22.224		
8,100.0	8,072.3	8,006.4	7,901.2	29.4	33.8	179.42	-1,090.2	-367.0	1,295.7	1,237.0	58.69	22.075		
8,200.0	8,172.3	8,152.2	8,046.0	29.7	34.4	179.69	-1,106.9	-373.1	1,307.1	1,247.4	59.69	21.899		
8,300.0	8,272.3	8,299.3	8,192.5	30.1	34.9	179.88	-1,118.5	-377.3	1,315.0	1,254.4	60.61	21.697		
8,400.0	8,372.3	8,447.0	8,340.1	30.4	35.4	179.98	-1,124.8	-379.6	1,319.2	1,257.8	61.44	21.472		
8,500.0	8,472.3	8,579.3	8,472.3	30.8	35.8	180.00	-1,126.0	-380.0	1,320.1	1,257.9	62.17	21.235		
8,600.0	8,572.3	8,679.3	8,572.3	31.1	36.1	180.00	-1,126.0	-380.0	1,320.1	1,257.2	62.83	21.011		
8,700.0	8,672.3	8,779.3	8,672.3	31.5	36.4	180.00	-1,126.0	-380.0	1,320.1	1,256.6	63.49	20.793		
8,800.0	8,772.3	8,879.3	8,772.3	31.8	36.7	180.00	-1,126.0	-380.0	1,320.1	1,255.9	64.15	20.578		
8,900.0	8,872.3	8,979.3	8,872.3	32.2	36.9	180.00	-1,126.0	-380.0	1,320.1	1,255.2	64.81	20.367		
9,000.0	8,972.3	9,079.3	8,972.3	32.5	37.2	180.00	-1,126.0	-380.0	1,320.1	1,254.6	65.48	20.160		
9,100.0	9,072.3	9,179.3	9,072.3	32.9	37.5	180.00	-1,126.0	-380.0	1,320.1	1,253.9	66.14	19.957		
9,200.0	9,172.3	9,279.3	9,172.3	33.2	37.8	180.00	-1,126.0	-380.0	1,320.1	1,253.2	66.81	19.758		
9,272.2	9,244.5	9,351.5	9,244.5	33.5	38.0	180.00	-1,126.0	-380.0	1,320.1	1,252.8	67.29	19.616		
9,300.0	9,272.3	9,379.3	9,272.3	33.6	38.1	90.23	-1,126.0	-380.0	1,320.1	1,252.6	67.47	19.564		
9,350.0	9,322.1	9,429.1	9,322.1	33.7	38.2	90.42	-1,126.0	-380.0	1,320.1	1,252.3	67.78	19.477		
9,400.0	9,371.3	9,479.4	9,372.4	33.9	38.3	90.77	-1,126.0	-379.1	1,320.2	1,252.1	68.06	19.396		
9,450.0	9,419.5	9,530.8	9,423.5	34.0	38.5	91.12	-1,126.0	-373.8	1,320.3	1,252.0	68.33	19.322		
9,500.0	9,466.4	9,583.0	9,474.7	34.1	38.6	91.47	-1,126.0	-363.8	1,320.5	1,251.9	68.58	19.255		
9,550.0	9,511.6	9,636.0	9,525.6	34.2	38.7	91.80	-1,125.9	-349.0	1,320.7	1,251.9	68.81	19.195		
9,600.0	9,554.7	9,689.8	9,575.6	34.4	38.8	92.13	-1,125.8	-329.1	1,320.9	1,251.9	69.02	19.139		

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



## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #222H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
9,650.0	9,595.5	9,744.5	9,624.2	34.5	38.9	92.44	-1,125.7	-304.3	1,321.2	1,252.0	69.22	19.088		
9,700.0	9,633.7	9,799.9	9,671.0	34.6	39.0	92.74	-1,125.6	-274.4	1,321.5	1,252.1	69.41	19.039		
9,750.0	9,668.8	9,856.2	9,715.2	34.7	39.0	93.01	-1,125.4	-239.7	1,321.8	1,252.2	69.61	18.989		
9,800.0	9,700.8	9,913.2	9,756.3	34.8	39.1	93.26	-1,125.3	-200.2	1,322.1	1,252.2	69.82	18.935		
9,850.0	9,729.2	9,970.9	9,793.7	35.0	39.1	93.48	-1,125.1	-156.3	1,322.3	1,252.3	70.06	18.875		
9,900.0	9,754.0	10,029.2	9,826.8	35.1	39.1	93.68	-1,124.9	-108.4	1,322.6	1,252.2	70.34	18.803		
9,950.0	9,774.9	10,088.0	9,855.2	35.3	39.1	93.84	-1,124.6	-56.8	1,322.7	1,252.1	70.67	18.718		
10,000.0	9,791.8	10,142.0	9,877.2	35.5	39.1	93.99	-1,124.4	-7.6	1,323.0	1,251.9	71.06	18.619		
10,050.0	9,804.5	10,193.3	9,897.0	35.8	39.1	94.26	-1,124.2	39.8	1,323.4	1,252.0	71.46	18.520		
10,100.0	9,812.9	10,244.2	9,915.9	36.0	39.1	94.64	-1,124.0	87.0	1,324.2	1,252.3	71.92	18.412		
10,125.2	9,815.5	10,269.6	9,925.0	36.2	39.1	94.87	-1,123.9	110.7	1,324.7	1,252.6	72.15	18.360		
10,200.0	9,820.7	10,345.0	9,950.8	36.7	39.1	95.73	-1,123.5	181.6	1,326.7	1,253.8	72.94	18.189		
10,225.5	9,822.0	10,370.8	9,959.2	36.9	39.1	96.03	-1,123.4	206.0	1,327.5	1,254.3	73.23	18.128		
10,300.0	9,825.5	10,447.0	9,982.6	37.5	39.1	96.88	-1,123.1	278.5	1,329.9	1,255.7	74.20	17.924		
10,400.0	9,830.2	10,550.9	10,011.5	38.4	39.3	97.92	-1,122.6	378.3	1,333.1	1,257.3	75.74	17.601		
10,500.0	9,834.9	10,656.5	10,037.2	39.4	40.0	98.80	-1,122.0	480.7	1,336.1	1,258.5	77.56	17.226		
10,600.0	9,839.7	10,763.5	10,059.3	40.6	41.1	99.52	-1,121.5	585.4	1,338.8	1,259.1	79.66	16.806		
10,700.0	9,844.4	10,871.7	10,077.7	41.9	42.3	100.08	-1,120.9	692.0	1,341.0	1,258.9	82.03	16.347		
10,800.0	9,849.1	10,980.7	10,092.1	43.3	43.7	100.48	-1,120.2	800.0	1,342.6	1,257.9	84.65	15.859		
10,900.0	9,853.8	11,090.3	10,102.4	44.7	45.2	100.69	-1,119.6	909.1	1,343.5	1,255.9	87.52	15.350		
11,000.0	9,858.5	11,200.1	10,108.6	46.3	46.9	100.74	-1,118.9	1,018.7	1,343.7	1,253.0	90.62	14.828		
11,100.0	9,863.2	11,308.4	10,110.6	47.9	48.6	100.61	-1,118.2	1,127.0	1,343.1	1,249.2	93.91	14.303		
11,200.0	9,867.9	11,408.3	10,111.1	49.6	50.2	100.43	-1,117.6	1,226.9	1,342.3	1,245.1	97.24	13.804		
11,300.0	9,872.6	11,508.2	10,111.6	51.4	51.9	100.25	-1,116.9	1,326.8	1,341.6	1,240.9	100.71	13.321		
11,400.0	9,877.3	11,608.1	10,112.0	53.2	53.6	100.07	-1,116.3	1,426.7	1,340.8	1,236.5	104.29	12.857		
11,500.0	9,882.1	11,708.0	10,112.5	55.1	55.4	99.89	-1,115.6	1,526.6	1,340.1	1,232.1	107.97	12.411		
11,600.0	9,886.8	11,807.9	10,112.9	57.0	57.3	99.71	-1,115.0	1,626.5	1,339.4	1,227.6	111.75	11.985		
11,700.0	9,891.5	11,907.8	10,113.4	58.9	59.1	99.53	-1,114.3	1,726.4	1,338.6	1,223.0	115.61	11.578		
11,800.0	9,896.2	12,007.7	10,113.8	60.9	61.1	99.35	-1,113.7	1,826.3	1,337.9	1,218.4	119.56	11.191		
11,900.0	9,900.9	12,107.6	10,114.3	63.0	63.0	99.17	-1,113.1	1,926.2	1,337.2	1,213.7	123.57	10.822		
12,000.0	9,905.6	12,207.5	10,114.7	65.0	65.0	98.99	-1,112.4	2,026.1	1,336.6	1,208.9	127.64	10.471		
12,100.0	9,910.3	12,307.4	10,115.2	67.1	67.1	98.81	-1,111.8	2,126.0	1,335.9	1,204.1	131.78	10.138		
12,200.0	9,915.0	12,407.4	10,115.7	69.2	69.1	98.63	-1,111.1	2,225.9	1,335.3	1,199.3	135.97	9.820		
12,300.0	9,919.8	12,507.3	10,116.1	71.3	71.2	98.45	-1,110.5	2,325.8	1,334.6	1,194.4	140.20	9.519		
12,400.0	9,924.5	12,607.2	10,116.6	73.5	73.3	98.27	-1,109.8	2,425.8	1,334.0	1,189.5	144.49	9.233		
12,500.0	9,929.2	12,707.1	10,117.0	75.6	75.4	98.09	-1,109.2	2,525.7	1,333.4	1,184.6	148.81	8.960		
12,600.0	9,933.9	12,807.0	10,117.5	77.8	77.5	97.91	-1,108.6	2,625.6	1,332.8	1,179.6	153.17	8.701		
12,700.0	9,938.6	12,906.9	10,117.9	80.0	79.7	97.73	-1,107.9	2,725.5	1,332.2	1,174.6	157.56	8.455		
12,800.0	9,943.3	13,006.8	10,118.4	82.2	81.9	97.55	-1,107.3	2,825.4	1,331.6	1,169.6	161.99	8.220		
12,900.0	9,948.0	13,106.7	10,118.8	84.4	84.0	97.37	-1,106.6	2,925.3	1,331.1	1,164.6	166.45	7.997		
13,000.0	9,952.7	13,206.6	10,119.3	86.7	86.2	97.18	-1,106.0	3,025.2	1,330.5	1,159.6	170.93	7.784		
13,100.0	9,957.5	13,306.5	10,119.8	88.9	88.4	97.00	-1,105.3	3,125.1	1,330.0	1,154.6	175.44	7.581		
13,200.0	9,962.2	13,406.4	10,120.2	91.2	90.7	96.82	-1,104.7	3,225.0	1,329.5	1,149.5	179.98	7.387		
13,300.0	9,966.9	13,506.4	10,120.7	93.4	92.9	96.64	-1,104.1	3,324.9	1,329.0	1,144.5	184.53	7.202		
13,400.0	9,971.6	13,606.3	10,121.1	95.7	95.2	96.46	-1,103.4	3,424.8	1,328.5	1,139.4	189.11	7.025		
13,500.0	9,976.3	13,706.2	10,121.6	98.0	97.4	96.27	-1,102.8	3,524.7	1,328.0	1,134.3	193.70	6.856		
13,600.0	9,981.0	13,806.1	10,122.0	100.3	99.7	96.09	-1,102.1	3,624.6	1,327.6	1,129.2	198.31	6.694		
13,700.0	9,985.7	13,906.0	10,122.5	102.6	101.9	95.91	-1,101.5	3,724.5	1,327.1	1,124.2	202.94	6.539		
13,800.0	9,990.4	14,005.9	10,123.0	104.9	104.2	95.73	-1,100.8	3,824.4	1,326.7	1,119.1	207.58	6.391		
13,900.0	9,995.2	14,105.8	10,123.4	107.2	106.5	95.54	-1,100.2	3,924.3	1,326.3	1,114.0	212.24	6.249		
14,000.0	9,999.9	14,205.7	10,123.9	109.5	108.8	95.36	-1,099.6	4,024.3	1,325.8	1,108.9	216.91	6.112		
14,100.0	10,004.6	14,305.6	10,124.3	111.9	111.1	95.18	-1,098.9	4,124.2	1,325.4	1,103.9	221.59	5.981		

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

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #222H - Wellbore #1 - BLM Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 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		
14,200.0	10,009.3	14,405.5	10,124.8	114.2	113.4	95.00	-1,098.3	4,224.1	1,325.1	1,098.8	226.29	5.856		
14,300.0	10,014.0	14,505.5	10,125.2	116.5	115.7	94.81	-1,097.6	4,324.0	1,324.7	1,093.7	230.99	5.735		
14,400.0	10,018.7	14,605.4	10,125.7	118.9	118.0	94.63	-1,097.0	4,423.9	1,324.3	1,088.6	235.71	5.619		
14,500.0	10,023.4	14,705.3	10,126.1	121.2	120.4	94.45	-1,096.4	4,523.8	1,324.0	1,083.6	240.43	5.507		
14,600.0	10,028.1	14,805.2	10,126.6	123.6	122.7	94.26	-1,095.7	4,623.7	1,323.7	1,078.5	245.16	5.399		
14,700.0	10,032.8	14,905.1	10,127.1	125.9	125.0	94.08	-1,095.1	4,723.6	1,323.4	1,073.5	249.90	5.296		
14,800.0	10,037.6	15,005.0	10,127.5	128.3	127.3	93.89	-1,094.4	4,823.5	1,323.1	1,068.4	254.65	5.196		
14,900.0	10,042.3	15,104.9	10,128.0	130.7	129.7	93.71	-1,093.8	4,923.4	1,322.8	1,063.4	259.40	5.099		
15,000.0	10,047.0	15,204.8	10,128.4	133.0	132.0	93.53	-1,093.1	5,023.3	1,322.5	1,058.3	264.16	5.006		
15,100.0	10,051.7	15,304.7	10,128.9	135.4	134.4	93.34	-1,092.5	5,123.2	1,322.2	1,053.3	268.93	4.917		
15,200.0	10,056.4	15,404.6	10,129.3	137.8	136.7	93.16	-1,091.9	5,223.1	1,322.0	1,048.3	273.70	4.830		
15,300.0	10,061.1	15,504.5	10,129.8	140.1	139.1	92.98	-1,091.2	5,323.0	1,321.8	1,043.3	278.48	4.746		
15,400.0	10,065.8	15,604.5	10,130.3	142.5	141.4	92.79	-1,090.6	5,422.9	1,321.5	1,038.3	283.26	4.666		
15,500.0	10,070.5	15,704.4	10,130.7	144.9	143.8	92.61	-1,089.9	5,522.8	1,321.3	1,033.3	288.04	4.587		
15,600.0	10,075.3	15,804.3	10,131.2	147.3	146.2	92.42	-1,089.3	5,622.8	1,321.2	1,028.3	292.83	4.512		
15,700.0	10,080.0	15,904.2	10,131.6	149.7	148.5	92.24	-1,088.6	5,722.7	1,321.0	1,023.4	297.62	4.438		
15,800.0	10,084.7	16,004.1	10,132.1	152.0	150.9	92.05	-1,088.0	5,822.6	1,320.8	1,018.4	302.42	4.368		
15,900.0	10,089.4	16,104.0	10,132.5	154.4	153.3	91.87	-1,087.4	5,922.5	1,320.7	1,013.4	307.21	4.299		
16,000.0	10,094.1	16,203.9	10,133.0	156.8	155.6	91.69	-1,086.7	6,022.4	1,320.5	1,008.5	312.01	4.232		
16,100.0	10,098.8	16,303.8	10,133.4	159.2	158.0	91.50	-1,086.1	6,122.3	1,320.4	1,003.6	316.81	4.168		
16,200.0	10,103.5	16,403.7	10,133.9	161.6	160.4	91.32	-1,085.4	6,222.2	1,320.3	998.7	321.62	4.105		
16,300.0	10,108.2	16,503.6	10,134.4	164.0	162.8	91.13	-1,084.8	6,322.1	1,320.2	993.8	326.42	4.044		
16,400.0	10,113.0	16,603.5	10,134.8	166.4	165.1	90.95	-1,084.1	6,422.0	1,320.1	988.9	331.23	3.986		
16,500.0	10,117.7	16,703.5	10,135.3	168.8	167.5	90.76	-1,083.5	6,521.9	1,320.1	984.0	336.03	3.928		
16,600.0	10,122.4	16,803.4	10,135.7	171.2	169.9	90.58	-1,082.9	6,621.8	1,320.0	979.2	340.84	3.873		
16,700.0	10,127.1	16,903.3	10,136.2	173.6	172.3	90.39	-1,082.2	6,721.7	1,320.0	974.3	345.64	3.819		
16,800.0	10,131.8	17,003.2	10,136.6	176.0	174.7	90.21	-1,081.6	6,821.6	1,319.9	969.5	350.45	3.766		
16,900.0	10,136.5	17,103.1	10,137.1	178.4	177.1	90.02	-1,080.9	6,921.5	1,319.9	964.7	355.25	3.715		
16,942.1	10,138.5	17,145.2	10,137.3	179.4	178.1	89.95	-1,080.7	6,963.6	1,319.9	962.6	357.28	3.694		
17,000.0	10,141.2	17,203.0	10,137.5	180.8	179.5	89.84	-1,080.3	7,021.4	1,319.9	959.9	360.06	3.666		
17,100.0	10,145.9	17,302.9	10,138.0	183.2	181.9	89.66	-1,079.6	7,121.4	1,319.9	955.1	364.86	3.618		
17,200.0	10,150.7	17,402.8	10,138.5	185.6	184.2	89.47	-1,079.0	7,221.3	1,320.0	950.3	369.67	3.571		
17,218.0	10,151.5	17,411.8	10,138.5	186.1	184.5	89.45	-1,078.9	7,230.2	1,320.0	949.6	370.35	3.564		
17,218.7	10,151.5	17,411.8	10,138.5	186.1	184.5	89.45	-1,078.9	7,230.2	1,320.0	949.6	370.37	3.564		

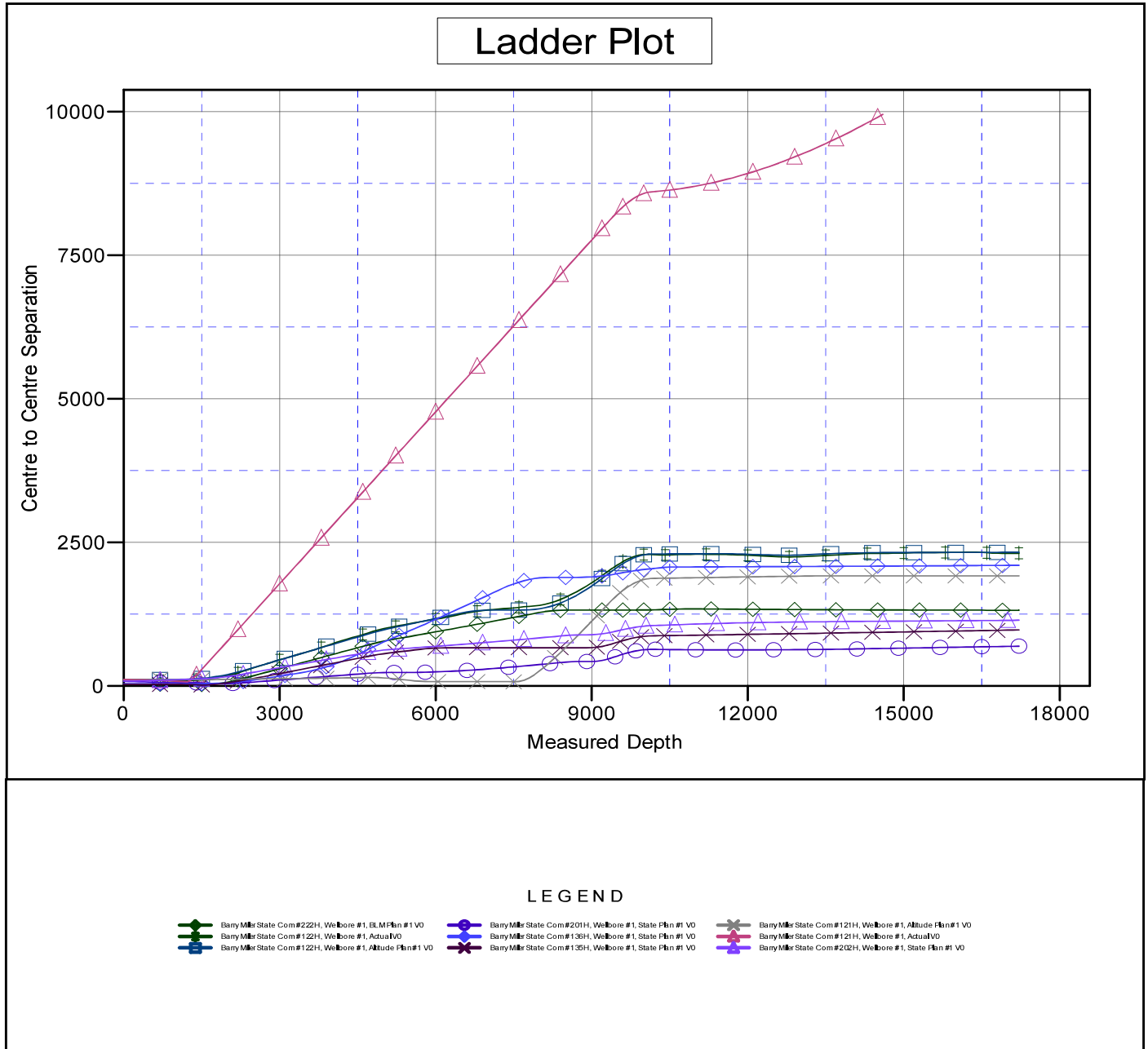
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB @ 3113.5usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Barry Miller State Com #221H  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.13°



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

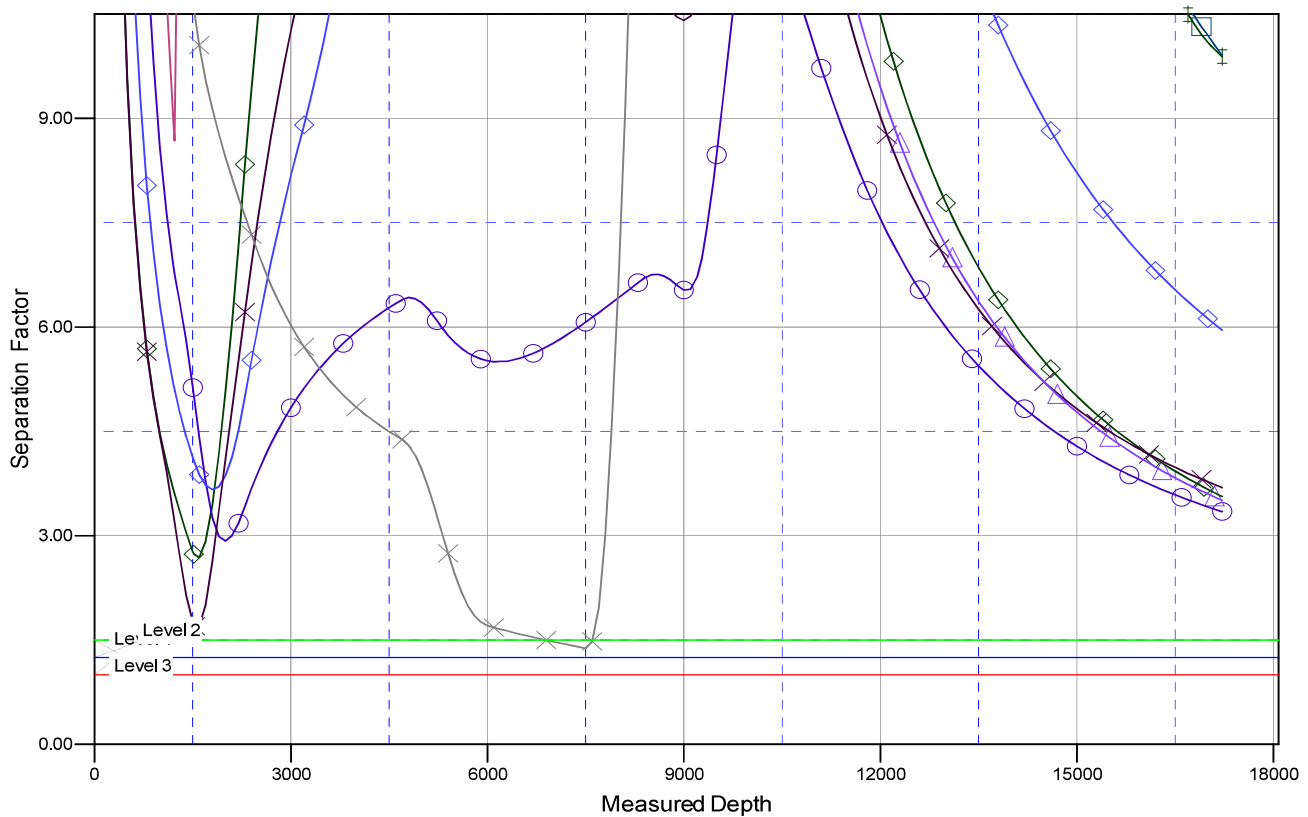
## Anticollision Report

<b>Company:</b>	Matador Production Company	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Project:</b>	Rustler Breaks	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Reference Site:</b>	Barry Miller	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site Error:</b>	0.0 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.0 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	Wellbore #1	<b>Database:</b>	EDM 5000.14 Server
<b>Reference Design:</b>	BLM Plan #1	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to KB @ 3113.5usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Barry Miller State Com #221H  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.13°

## Separation Factor Plot



## LEGEND

Barry Miller State Com #222H, Wellbore #1, BLM Plan #1 V0	Barry Miller State Com #201H, Wellbore #1, State Plan #1 V0	Barry Miller State Com #121H, Wellbore #1, Altitude Plan #1 V0
Barry Miller State Com #122H, Wellbore #1, Actual V0	Barry Miller State Com #136H, Wellbore #1, State Plan #1 V0	Barry Miller State Com #121H, Wellbore #1, Actual V0
Barry Miller State Com #122H, Wellbore #1, Altitude Plan #1 V0	Barry Miller State Com #135H, Wellbore #1, State Plan #1 V0	Barry Miller State Com #202H, Wellbore #1, State Plan #1 V0

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

# **Matador Production Company**

**Rustler Breaks**

**Barry Miller**

**Barry Miller State Com #221H**

**Wellbore #1**

**Plan: BLM Plan #1**

## **Standard Planning Report**

**19 July, 2023**

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #221H
Company:	Matador Production Company	TVD Reference:	KB @ 3113.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3113.5usft
Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #221H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project	Rustler Breaks,		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site	Barry Miller					
Site Position:		Northing:	508,440.78 usft	Latitude:	32° 23' 51.364 N	
From:	Lat/Long	Easting:	572,199.25 usft	Longitude:	104° 5' 57.890 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	Barry Miller State Com #221H					
Well Position	+N/-S	0.2 usft	Northing:	508,441.00 usft	Latitude:	32° 23' 51.366 N
	+E/-W	-0.2 usft	Easting:	572,199.00 usft	Longitude:	104° 5' 57.893 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,085.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/19/2023	6.55	60.06	47,362.55806955

Design	BLM Plan #1			
Audit Notes:				
Version:	1	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.60

Plan Survey Tool Program	Date	7/19/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,218.0	BLM Plan #1 (Wellbore #1)	MWD	
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,300.0	8.00	297.05	2,297.4	25.4	-49.7	1.00	1.00	0.00	297.05	
4,698.1	8.00	297.05	4,672.2	177.1	-346.9	0.00	0.00	0.00	0.00	
5,231.4	0.00	0.00	5,203.8	194.0	-380.0	1.50	-1.50	0.00	180.00	
9,272.2	0.00	0.00	9,244.5	194.0	-380.0	0.00	0.00	0.00	0.00	VP - Barry Miller Fed
10,125.2	85.30	89.80	9,815.5	195.8	146.0	10.00	10.00	0.00	89.80	
10,225.5	87.30	89.63	9,822.0	196.3	246.1	2.00	1.99	-0.17	-4.75	
17,218.0	87.30	89.63	10,151.5	241.0	7,230.7	0.00	0.00	0.00	0.00	BHL - Barry Miller Fec



## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
140.0	0.00	0.00	140.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (Rustler)</b>									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
429.0	0.00	0.00	429.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (Salado)</b>									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
744.0	0.00	0.00	744.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Z (Castile (T))</b>									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Start Build 1.00</b>									
1,600.0	1.00	297.05	1,600.0	0.4	-0.8	-0.8	1.00	1.00	0.00
1,700.0	2.00	297.05	1,700.0	1.6	-3.1	-3.1	1.00	1.00	0.00
1,800.0	3.00	297.05	1,799.9	3.6	-7.0	-7.0	1.00	1.00	0.00
1,900.0	4.00	297.05	1,899.7	6.3	-12.4	-12.4	1.00	1.00	0.00
2,000.0	5.00	297.05	1,999.4	9.9	-19.4	-19.3	1.00	1.00	0.00
2,100.0	6.00	297.05	2,098.9	14.3	-28.0	-27.9	1.00	1.00	0.00
2,200.0	7.00	297.05	2,198.3	19.4	-38.0	-37.9	1.00	1.00	0.00
2,300.0	8.00	297.05	2,297.4	25.4	-49.7	-49.5	1.00	1.00	0.00
<b>Start 2398.1 hold at 2300.0 MD</b>									
2,400.0	8.00	297.05	2,396.4	31.7	-62.1	-61.8	0.00	0.00	0.00
2,497.1	8.00	297.05	2,492.6	37.8	-74.1	-73.8	0.00	0.00	0.00
<b>Z (G30:CS14-CSB)</b>									
2,500.0	8.00	297.05	2,495.5	38.0	-74.5	-74.2	0.00	0.00	0.00
2,568.5	8.00	297.05	2,563.3	42.3	-82.9	-82.6	0.00	0.00	0.00
<b>Z (G26: Bell Cyn.)</b>									
2,600.0	8.00	297.05	2,594.5	44.3	-86.8	-86.5	0.00	0.00	0.00
2,700.0	8.00	297.05	2,693.5	50.7	-99.2	-98.9	0.00	0.00	0.00
2,800.0	8.00	297.05	2,792.5	57.0	-111.6	-111.2	0.00	0.00	0.00
2,900.0	8.00	297.05	2,891.6	63.3	-124.0	-123.6	0.00	0.00	0.00
3,000.0	8.00	297.05	2,990.6	69.7	-136.4	-135.9	0.00	0.00	0.00
3,100.0	8.00	297.05	3,089.6	76.0	-148.8	-148.3	0.00	0.00	0.00
3,200.0	8.00	297.05	3,188.6	82.3	-161.2	-160.6	0.00	0.00	0.00
3,300.0	8.00	297.05	3,287.7	88.6	-173.6	-173.0	0.00	0.00	0.00
3,400.0	8.00	297.05	3,386.7	95.0	-186.0	-185.3	0.00	0.00	0.00
3,408.2	8.00	297.05	3,394.9	95.5	-187.0	-186.4	0.00	0.00	0.00
<b>Z (G13: Cherry Cyn.)</b>									
3,500.0	8.00	297.05	3,485.7	101.3	-198.4	-197.7	0.00	0.00	0.00
3,600.0	8.00	297.05	3,584.8	107.6	-210.8	-210.0	0.00	0.00	0.00
3,700.0	8.00	297.05	3,683.8	113.9	-223.2	-222.4	0.00	0.00	0.00
3,800.0	8.00	297.05	3,782.8	120.3	-235.6	-234.7	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,900.0	8.00	297.05	3,881.8	126.6	-248.0	-247.1	0.00	0.00	0.00
4,000.0	8.00	297.05	3,980.9	132.9	-260.4	-259.4	0.00	0.00	0.00
4,100.0	8.00	297.05	4,079.9	139.3	-272.8	-271.8	0.00	0.00	0.00
4,200.0	8.00	297.05	4,178.9	145.6	-285.2	-284.2	0.00	0.00	0.00
4,300.0	8.00	297.05	4,277.9	151.9	-297.6	-296.5	0.00	0.00	0.00
4,400.0	8.00	297.05	4,377.0	158.2	-310.0	-308.9	0.00	0.00	0.00
4,500.0	8.00	297.05	4,476.0	164.6	-322.4	-321.2	0.00	0.00	0.00
4,600.0	8.00	297.05	4,575.0	170.9	-334.8	-333.6	0.00	0.00	0.00
4,604.0	8.00	297.05	4,579.0	171.2	-335.3	-334.0	0.00	0.00	0.00
<b>Z (G7: Brushy Cyn.)</b>									
4,698.1	8.00	297.05	4,672.2	177.1	-346.9	-345.7	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
4,700.0	7.97	297.05	4,674.0	177.2	-347.2	-345.9	1.50	-1.50	0.00
4,800.0	6.47	297.05	4,773.3	182.9	-358.3	-357.1	1.50	-1.50	0.00
4,900.0	4.97	297.05	4,872.7	187.5	-367.2	-365.9	1.50	-1.50	0.00
5,000.0	3.47	297.05	4,972.5	190.8	-373.8	-372.4	1.50	-1.50	0.00
5,100.0	1.97	297.05	5,072.4	193.0	-378.0	-376.7	1.50	-1.50	0.00
5,200.0	0.47	297.05	5,172.3	194.0	-379.9	-378.5	1.50	-1.50	0.00
5,231.4	0.00	0.00	5,203.8	194.0	-380.0	-378.7	1.50	-1.50	0.00
<b>Start 4040.7 hold at 5231.4 MD</b>									
5,300.0	0.00	0.00	5,272.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,372.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,472.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,572.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,672.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,772.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,872.3	194.0	-380.0	-378.7	0.00	0.00	0.00
5,983.2	0.00	0.00	5,955.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (G4: BSG (CS9))</b>									
6,000.0	0.00	0.00	5,972.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,100.0	0.00	0.00	6,072.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,172.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,272.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,372.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,446.2	0.00	0.00	6,418.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L8.2: U. Avalon Shale)</b>									
6,500.0	0.00	0.00	6,472.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,564.2	0.00	0.00	6,536.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L6.3: Avalon Carb)</b>									
6,600.0	0.00	0.00	6,572.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,608.2	0.00	0.00	6,580.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L6.2: L. Avalon Shale)</b>									
6,698.2	0.00	0.00	6,670.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L5.3: FBSC)</b>									
6,700.0	0.00	0.00	6,672.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,772.3	194.0	-380.0	-378.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,872.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,972.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,004.2	0.00	0.00	6,976.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L5.1: FBSC)</b>									
7,064.2	0.00	0.00	7,036.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (M. FBSC)</b>									
7,100.0	0.00	0.00	7,072.3	194.0	-380.0	-378.7	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,200.0	0.00	0.00	7,172.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,213.2	0.00	0.00	7,185.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L. FBSC)</b>									
7,272.2	0.00	0.00	7,244.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L4.3: SBSC)</b>									
7,300.0	0.00	0.00	7,272.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,372.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,472.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,572.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,697.2	0.00	0.00	7,669.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L4.1: SBSC)</b>									
7,700.0	0.00	0.00	7,672.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,772.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,868.2	0.00	0.00	7,840.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L4.1: SBSC B Carb)</b>									
7,900.0	0.00	0.00	7,872.3	194.0	-380.0	-378.7	0.00	0.00	0.00
7,953.2	0.00	0.00	7,925.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (SBSC B Target)</b>									
8,000.0	0.00	0.00	7,972.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,009.2	0.00	0.00	7,981.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L4.1: SBSC C)</b>									
8,031.2	0.00	0.00	8,003.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L3.3: TBSC)</b>									
8,100.0	0.00	0.00	8,072.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,172.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,272.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,372.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,439.2	0.00	0.00	8,411.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L3.3.2: Break Sand (T))</b>									
8,500.0	0.00	0.00	8,472.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,572.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,672.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,772.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,872.3	194.0	-380.0	-378.7	0.00	0.00	0.00
8,969.2	0.00	0.00	8,941.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L3.1: TBSC)</b>									
9,000.0	0.00	0.00	8,972.3	194.0	-380.0	-378.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,072.3	194.0	-380.0	-378.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,172.3	194.0	-380.0	-378.7	0.00	0.00	0.00
9,259.2	0.00	0.00	9,231.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Z (L. TBSC)</b>									
9,272.2	0.00	0.00	9,244.5	194.0	-380.0	-378.7	0.00	0.00	0.00
<b>Start Build 10.00 - VP - Barry Miller Fed Com #221H</b>									
9,289.2	1.70	89.80	9,261.5	194.0	-379.8	-378.4	10.00	10.00	0.00
<b>Z (L2: WFMP A)</b>									
9,300.0	2.78	89.80	9,272.3	194.0	-379.3	-378.0	10.00	10.00	0.00
9,350.0	7.78	89.80	9,322.1	194.0	-374.7	-373.4	10.00	10.00	0.00
9,400.0	12.78	89.80	9,371.3	194.1	-365.8	-364.5	10.00	10.00	0.00
9,430.9	15.87	89.80	9,401.2	194.1	-358.2	-356.8	10.00	10.00	0.00
<b>Z (WFMP A Fat)</b>									
9,450.0	17.78	89.80	9,419.5	194.1	-352.6	-351.3	10.00	10.00	0.00
9,500.0	22.78	89.80	9,466.4	194.2	-335.3	-334.0	10.00	10.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,550.0	27.78	89.80	9,511.6	194.2	-314.0	-312.6	10.00	10.00	0.00
9,600.0	32.78	89.80	9,554.7	194.3	-288.8	-287.4	10.00	10.00	0.00
9,650.0	37.78	89.80	9,595.5	194.4	-259.9	-258.5	10.00	10.00	0.00
9,691.4	41.93	89.80	9,627.3	194.5	-233.3	-232.0	10.00	10.00	0.00
<b>Z (WFMP B)</b>									
9,700.0	42.78	89.80	9,633.7	194.5	-227.6	-226.2	10.00	10.00	0.00
9,750.0	47.78	89.80	9,668.8	194.7	-192.1	-190.7	10.00	10.00	0.00
9,800.0	52.78	89.80	9,700.8	194.8	-153.6	-152.2	10.00	10.00	0.00
9,810.9	53.87	89.80	9,707.3	194.8	-144.9	-143.5	10.00	10.00	0.00
<b>Z (WFMP B.1)</b>									
9,850.0	57.78	89.80	9,729.2	194.9	-112.5	-111.2	10.00	10.00	0.00
9,900.0	62.78	89.80	9,754.0	195.1	-69.1	-67.7	10.00	10.00	0.00
9,901.4	62.93	89.80	9,754.7	195.1	-67.8	-66.5	10.00	10.00	0.00
<b>FTP - Barry Miller Fed Com #221H</b>									
9,901.7	62.96	89.80	9,754.8	195.1	-67.6	-66.2	10.00	10.00	0.00
<b>Z (WFMP B.2)</b>									
9,950.0	67.78	89.80	9,774.9	195.3	-23.7	-22.3	10.00	10.00	0.00
10,000.0	72.78	89.80	9,791.8	195.4	23.3	24.7	10.00	10.00	0.00
10,050.0	77.78	89.80	9,804.5	195.6	71.7	73.1	10.00	10.00	0.00
10,100.0	82.78	89.80	9,812.9	195.8	121.0	122.3	10.00	10.00	0.00
10,125.2	85.30	89.80	9,815.5	195.8	146.0	147.3	10.00	10.00	0.00
<b>Start DLS 2.00 TFO -4.75</b>									
10,200.0	86.79	89.68	9,820.7	196.2	220.6	222.0	2.00	1.99	-0.17
10,225.5	87.30	89.63	9,822.0	196.3	246.1	247.4	2.00	1.99	-0.17
<b>Start 6992.5 hold at 10225.5 MD</b>									
10,300.0	87.30	89.63	9,825.5	196.8	320.5	321.9	0.00	0.00	0.00
10,400.0	87.30	89.63	9,830.2	197.5	420.4	421.8	0.00	0.00	0.00
10,500.0	87.30	89.63	9,834.9	198.1	520.3	521.7	0.00	0.00	0.00
10,600.0	87.30	89.63	9,839.7	198.7	620.2	621.6	0.00	0.00	0.00
10,700.0	87.30	89.63	9,844.4	199.4	720.1	721.4	0.00	0.00	0.00
10,800.0	87.30	89.63	9,849.1	200.0	820.0	821.3	0.00	0.00	0.00
10,900.0	87.30	89.63	9,853.8	200.6	919.8	921.2	0.00	0.00	0.00
11,000.0	87.30	89.63	9,858.5	201.3	1,019.7	1,021.1	0.00	0.00	0.00
11,100.0	87.30	89.63	9,863.2	201.9	1,119.6	1,121.0	0.00	0.00	0.00
11,200.0	87.30	89.63	9,867.9	202.6	1,219.5	1,220.9	0.00	0.00	0.00
11,300.0	87.30	89.63	9,872.6	203.2	1,319.4	1,320.8	0.00	0.00	0.00
11,400.0	87.30	89.63	9,877.3	203.8	1,419.3	1,420.7	0.00	0.00	0.00
11,500.0	87.30	89.63	9,882.1	204.5	1,519.2	1,520.6	0.00	0.00	0.00
11,600.0	87.30	89.63	9,886.8	205.1	1,619.0	1,620.4	0.00	0.00	0.00
11,700.0	87.30	89.63	9,891.5	205.8	1,718.9	1,720.3	0.00	0.00	0.00
11,800.0	87.30	89.63	9,896.2	206.4	1,818.8	1,820.2	0.00	0.00	0.00
11,900.0	87.30	89.63	9,900.9	207.0	1,918.7	1,920.1	0.00	0.00	0.00
12,000.0	87.30	89.63	9,905.6	207.7	2,018.6	2,020.0	0.00	0.00	0.00
12,100.0	87.30	89.63	9,910.3	208.3	2,118.5	2,119.9	0.00	0.00	0.00
12,200.0	87.30	89.63	9,915.0	208.9	2,218.4	2,219.8	0.00	0.00	0.00
12,300.0	87.30	89.63	9,919.8	209.6	2,318.3	2,319.7	0.00	0.00	0.00
12,400.0	87.30	89.63	9,924.5	210.2	2,418.1	2,419.6	0.00	0.00	0.00
12,500.0	87.30	89.63	9,929.2	210.9	2,518.0	2,519.4	0.00	0.00	0.00
12,600.0	87.30	89.63	9,933.9	211.5	2,617.9	2,619.3	0.00	0.00	0.00
12,700.0	87.30	89.63	9,938.6	212.1	2,717.8	2,719.2	0.00	0.00	0.00
12,800.0	87.30	89.63	9,943.3	212.8	2,817.7	2,819.1	0.00	0.00	0.00
12,900.0	87.30	89.63	9,948.0	213.4	2,917.6	2,919.0	0.00	0.00	0.00
13,000.0	87.30	89.63	9,952.7	214.1	3,017.5	3,018.9	0.00	0.00	0.00

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	87.30	89.63	9,957.5	214.7	3,117.4	3,118.8	0.00	0.00	0.00
13,132.5	87.30	89.63	9,959.0	214.9	3,149.8	3,151.2	0.00	0.00	0.00
<b>Z (Blair Shale)</b>									
13,200.0	87.30	89.63	9,962.2	215.3	3,217.2	3,218.7	0.00	0.00	0.00
13,273.7	87.30	89.63	9,965.6	215.8	3,290.9	3,292.3	0.00	0.00	0.00
<b>Z (WFMP B.4)</b>									
13,300.0	87.30	89.63	9,966.9	216.0	3,317.1	3,318.6	0.00	0.00	0.00
13,400.0	87.30	89.63	9,971.6	216.6	3,417.0	3,418.4	0.00	0.00	0.00
13,500.0	87.30	89.63	9,976.3	217.3	3,516.9	3,518.3	0.00	0.00	0.00
13,600.0	87.30	89.63	9,981.0	217.9	3,616.8	3,618.2	0.00	0.00	0.00
13,700.0	87.30	89.63	9,985.7	218.5	3,716.7	3,718.1	0.00	0.00	0.00
13,800.0	87.30	89.63	9,990.4	219.2	3,816.6	3,818.0	0.00	0.00	0.00
13,900.0	87.30	89.63	9,995.2	219.8	3,916.4	3,917.9	0.00	0.00	0.00
14,000.0	87.30	89.63	9,999.9	220.4	4,016.3	4,017.8	0.00	0.00	0.00
14,100.0	87.30	89.63	10,004.6	221.1	4,116.2	4,117.7	0.00	0.00	0.00
14,200.0	87.30	89.63	10,009.3	221.7	4,216.1	4,217.6	0.00	0.00	0.00
14,300.0	87.30	89.63	10,014.0	222.4	4,316.0	4,317.4	0.00	0.00	0.00
14,400.0	87.30	89.63	10,018.7	223.0	4,415.9	4,417.3	0.00	0.00	0.00
14,500.0	87.30	89.63	10,023.4	223.6	4,515.8	4,517.2	0.00	0.00	0.00
14,600.0	87.30	89.63	10,028.1	224.3	4,615.7	4,617.1	0.00	0.00	0.00
14,686.2	87.30	89.63	10,032.2	224.8	4,701.8	4,703.2	0.00	0.00	0.00
<b>Z (WFMP B.3)</b>									
14,700.0	87.30	89.63	10,032.8	224.9	4,715.5	4,717.0	0.00	0.00	0.00
14,800.0	87.30	89.63	10,037.6	225.6	4,815.4	4,816.9	0.00	0.00	0.00
14,900.0	87.30	89.63	10,042.3	226.2	4,915.3	4,916.8	0.00	0.00	0.00
15,000.0	87.30	89.63	10,047.0	226.8	5,015.2	5,016.7	0.00	0.00	0.00
15,100.0	87.30	89.63	10,051.7	227.5	5,115.1	5,116.6	0.00	0.00	0.00
15,200.0	87.30	89.63	10,056.4	228.1	5,215.0	5,216.4	0.00	0.00	0.00
15,300.0	87.30	89.63	10,061.1	228.7	5,314.9	5,316.3	0.00	0.00	0.00
15,400.0	87.30	89.63	10,065.8	229.4	5,414.7	5,416.2	0.00	0.00	0.00
15,500.0	87.30	89.63	10,070.5	230.0	5,514.6	5,516.1	0.00	0.00	0.00
15,600.0	87.30	89.63	10,075.3	230.7	5,614.5	5,616.0	0.00	0.00	0.00
15,700.0	87.30	89.63	10,080.0	231.3	5,714.4	5,715.9	0.00	0.00	0.00
15,800.0	87.30	89.63	10,084.7	231.9	5,814.3	5,815.8	0.00	0.00	0.00
15,900.0	87.30	89.63	10,089.4	232.6	5,914.2	5,915.7	0.00	0.00	0.00
16,000.0	87.30	89.63	10,094.1	233.2	6,014.1	6,015.6	0.00	0.00	0.00
16,100.0	87.30	89.63	10,098.8	233.9	6,114.0	6,115.4	0.00	0.00	0.00
16,200.0	87.30	89.63	10,103.5	234.5	6,213.8	6,215.3	0.00	0.00	0.00
16,300.0	87.30	89.63	10,108.2	235.1	6,313.7	6,315.2	0.00	0.00	0.00
16,400.0	87.30	89.63	10,113.0	235.8	6,413.6	6,415.1	0.00	0.00	0.00
16,500.0	87.30	89.63	10,117.7	236.4	6,513.5	6,515.0	0.00	0.00	0.00
16,600.0	87.30	89.63	10,122.4	237.0	6,613.4	6,614.9	0.00	0.00	0.00
16,700.0	87.30	89.63	10,127.1	237.7	6,713.3	6,714.8	0.00	0.00	0.00
16,800.0	87.30	89.63	10,131.8	238.3	6,813.2	6,814.7	0.00	0.00	0.00
16,900.0	87.30	89.63	10,136.5	239.0	6,913.1	6,914.6	0.00	0.00	0.00
17,000.0	87.30	89.63	10,141.2	239.6	7,012.9	7,014.4	0.00	0.00	0.00
17,100.0	87.30	89.63	10,145.9	240.2	7,112.8	7,114.3	0.00	0.00	0.00
17,200.0	87.30	89.63	10,150.7	240.9	7,212.7	7,214.2	0.00	0.00	0.00
17,218.0	87.30	89.63	10,151.5	241.0	7,230.7	7,232.2	0.00	0.00	0.00
<b>TD at 17218.0 - BHL - Barry Miller Fed Com #221H</b>									

## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
VP - Barry Miller Fed Co - plan hits target center - Point	0.00	0.00	9,244.5	194.0	-380.0	508,635.00	571,819.00	32° 23' 53.294 N	104° 6' 2.320 W
FTP - Barry Miller Fed C - plan misses target center by 70.6usft at 9901.4usft MD (9754.7 TVD, 195.1 N, -67.8 E) - Point	0.00	0.00	9,817.5	194.0	-100.0	508,635.00	572,099.00	32° 23' 53.288 N	104° 5' 59.054 W
BHL - Barry Miller Fed C - plan hits target center - Point	0.00	0.00	10,151.5	241.0	7,230.7	508,682.00	579,430.00	32° 23' 53.586 N	104° 4' 33.546 W

Formations					
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
140.0	140.0	Z (Rustler)		1.89	89.60
429.0	429.0	Z (Salado)		1.89	89.60
744.0	744.0	Z (Castile (T))		1.89	89.60
2,497.1	2,492.6	Z (G30:CS14-CSB)		1.89	89.60
2,568.5	2,563.3	Z (G26: Bell Cyn.)		1.89	89.60
3,408.2	3,394.9	Z (G13: Cherry Cyn.)		1.89	89.60
4,604.0	4,579.0	Z (G7: Brushy Cyn.)		1.89	89.60
5,983.2	5,955.5	Z (G4: BSG (CS9))		1.89	89.60
6,446.2	6,418.5	Z (L8.2: U. Avalon Shale)		1.89	89.60
6,564.2	6,536.5	Z (L6.3: Avalon Carb)		1.89	89.60
6,608.2	6,580.5	Z (L6.2: L. Avalon Shale)		1.89	89.60
6,698.2	6,670.5	Z (L5.3: FBSC)		1.89	89.60
7,004.2	6,976.5	Z (L5.1: FBSC)		1.89	89.60
7,064.2	7,036.5	Z (M. FBSC)		1.89	89.60
7,213.2	7,185.5	Z (L. FBSC)		1.89	89.60
7,272.2	7,244.5	Z (L4.3: SBSC)		1.89	89.60
7,697.2	7,669.5	Z (L4.1: SBSC)		1.89	89.60
7,868.2	7,840.5	Z (L4.1: SBSC B Carb)		1.89	89.60
7,953.2	7,925.5	Z (SBSC B Target)		1.89	89.60
8,009.2	7,981.5	Z (L4.1: SBSC C)		1.89	89.60
8,031.2	8,003.5	Z (L3.3: TBSC)		1.89	89.60
8,439.2	8,411.5	Z (L3.3.2: Break Sand (T))		1.89	89.60
8,969.2	8,941.5	Z (L3.1: TBSC)		1.89	89.60
9,259.2	9,231.5	Z (L. TBSC)		1.89	89.60
9,289.2	9,261.5	Z (L2: WFMP A)		1.89	89.60
9,430.9	9,401.2	Z (WFMP A Fat)		1.89	89.60
9,691.4	9,627.3	Z (WFMP B)		1.89	89.60
9,810.9	9,707.3	Z (WFMP B.1)		1.89	89.60
9,901.7	9,754.8	Z (WFMP B.2)		1.89	89.60
13,132.5	9,959.0	Z (Blair Shale)		1.89	89.60
13,273.7	9,965.6	Z (WFMP B.4)		1.89	89.60
14,686.2	10,032.2	Z (WFMP B.3)		1.89	89.60



## Planning Report

<b>Database:</b>	EDM 5000.14 Server	<b>Local Co-ordinate Reference:</b>	Well Barry Miller State Com #221H
<b>Company:</b>	Matador Production Company	<b>TVD Reference:</b>	KB @ 3113.5usft
<b>Project:</b>	Rustler Breaks	<b>MD Reference:</b>	KB @ 3113.5usft
<b>Site:</b>	Barry Miller	<b>North Reference:</b>	Grid
<b>Well:</b>	Barry Miller State Com #221H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	BLM Plan #1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,500.0	1,500.0	0.0	0.0	Start Build 1.00	
2,300.0	2,297.4	25.4	-49.7	Start 2398.1 hold at 2300.0 MD	
4,698.1	4,672.2	177.1	-346.9	Start Drop -1.50	
5,231.4	5,203.8	194.0	-380.0	Start 4040.7 hold at 5231.4 MD	
9,272.2	9,244.5	194.0	-380.0	Start Build 10.00	
10,125.2	9,815.5	195.8	146.0	Start DLS 2.00 TFO -4.75	
10,225.5	9,822.0	196.3	246.1	Start 6992.5 hold at 10225.5 MD	
17,218.0	10,151.5	241.0	7,230.7	TD at 17218.0	

## **Addendum to Natural Gas Management Plan for Matador's**

### **Michael Ryan TB**

#### **VI. Separation Equipment**

Flow from the wells will be routed via a flowline to a 48"x15' three phase separator dedicated to the well. The first stage separators are sized with input from BRE ProMax and API 12J. Anticipated production rates can be seen in the below table. Liquid retention times at expected maximum rates will be >3 minutes. Gas will be routed from the first stage separator to sales. Hydrocarbon liquids are dumped from the first stage separator and commingled to one or more heater treaters. The flash gas from the heater treater(s) could either be sent to sales or routed to a compressor if the sales line pressure is higher than the MAWP of the heater treater (125 psi). From the heater treaters, hydrocarbon liquid will be routed to the tanks where vapor is compressed by a VRU if technically feasible to either sales or a compressor if the sales line pressure is higher than the VRU's maximum discharge pressure (~150 psi). Therefore, Matador has sized our separation equipment to optimize gas capture and our separation equipment is of sufficient size to handle the expected volumes of gas.

Well Name	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Barry Miller State Com 221H	400	4,500	2,500
Barry Miller State Com 222H	400	4,500	2,500
Michel Ryan Federal Com 223H	400	4,500	2,500

#### **VII. Operation Practices**

Although not a complete recitation of all our efforts to comply with subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

Regarding production operations, we have designed our production facilities to be compliant with the requirements of Part E of 19.15.27.8 NMAC. We will instruct our team to perform the AVOs on the frequency required under the rules. While the well is producing, we will take steps to minimize flaring during maintenance, as set forth below, and we have a process in place for the measuring of any flared gas and the reporting of any reportable flaring events.

#### **VII. Best Management Practices**

Steps are taken to minimize venting during active or planned maintenance when technically feasible including:

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device

- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit Electronically  
Via E-permitting

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### **Section 1 – Plan Description** **Effective May 25, 2021**

**I. Operator:** Matador Production Company **OGRID:** 228937 **Date:** 07/26/2023

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Barry Miller State Com 221H	TBD	D 16-22S-28E	855' FNL 430' FWL	400	4,500	2,500
Barry Miller State Com 222H	TBD	D 21-22S-28E	855' FNL 460' FWL	400	4,500	2,500
Michel Ryan Federal Com 223H	TBD	D-16-22S-28E	549' FSL 320' FWL	400	4,500	2,500

**IV. Central Delivery Point Name:** Michael Ryan TB [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Barry Miller State Com 221H	TBD	05/07/2025	05/25/2025	07/07/2025	08/07/2025	08/08/2025
Barry Miller State Com 222H	TBD	04/18/2025	05/06/2025	07/07/2025	08/07/2025	08/08/2025
Michel Ryan Federal Com 223H	TBD	05/30/2025	05/30/2025	07/07/2025	08/07/2025	08/08/2025

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## **Section 2 – Enhanced Plan**

### **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### **IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### **X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

**Section 3 - Certifications****Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

**Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.



I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: <b>Omar Enriquez</b> <small>Digitally signed by Omar Enriquez DN: cn=Omar Enriquez, o=Mata Dor Resources, c=US Date: 2023.07.26 12:04:08 PM</small>
Printed Name: Omar Enriquez
Title: Sr. Production Engineer
E-mail Address: <a href="mailto:oenriquez@matadorresources.com">oenriquez@matadorresources.com</a>
Date: 07/26/2025
Phone: (972) 587-4638
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval: