

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 333392

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 30-015-53356
4. Property Code 333122	5. Property Name Barry Miller State Com	6. Well No. 201H

7. Surface Location

UL - Lot D	Section 16	Township 22S	Range 28E	Lot Idn	Feet From 935	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 334	N/S Line N	Feet From 2331	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 3084
16. Multiple N	17. Proposed Depth 16738	18. Formation Wolfcamp	19. Contractor	20. Spud Date 4/1/2023
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	425	550	0
Int1	9.875	7.625	29.7	8695	1350	0
Prod	6.75	5.5	20	16738	825	8195

Casing/Cement Program: Additional Comments

Matador requests optionality to use DV Tool Packer at 2500'.
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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 ☐ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Brett A Jennings	Approved By: Katherine Pickford	
Title: Regulatory Analyst	Title: Geoscientist	
Email Address: brett.jennings@matadorresources.com	Approved Date: 1/31/2023	Expiration Date: 1/31/2025
Date: 1/31/2023	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

¹ API Number 30-015-53356	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (gas)
⁴ Property Code 333122	⁵ Property Name BARRY MILLER STATE COM	⁶ Well Number 201H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3084'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	22-S	28-E	-	935'	NORTH	430'	WEST	EDDY

¹¹Bottom 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
C	15	22-S	28-E	-	334'	NORTH	2331'	WEST	EDDY

¹² Dedicated Acres 480	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

FIRST PERFORATION POINT NEW MEXICO EAST NAD 1927 X=572099 Y=508961 LAT.: N 32.3990322 LONG.: W 104.0997337 NAD 1983 X=613281 Y=509021 LAT.: N 32.3991520 LONG.: W 104.1002330 NAD27 X=574434.38 Y=509308.30 NAD83 X=615616.14 Y=509368.39 NAD27 X=571769.50 Y=509293.65 NAD83 X=612951.25 Y=509353.72 NAD27 X=577099.27 Y=509323.06 NAD83 X=618281.08 Y=509383.19 NAD27 X=579770.98 Y=509344.95 NAD83 X=620952.81 Y=509405.11 NAD27 X=571768.38 Y=506619.74 NAD83 X=612950.20 Y=506679.74 NAD27 X=577106.67 Y=506678.25 NAD83 X=618288.55 Y=506738.32 NAD27 X=579768.60 Y=506695.48 NAD83 X=620950.50 Y=506755.57 SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=572199 Y=508361 LAT.: N 32.3973811 LONG.: W 104.0994145 NAD 1983 X=613381 Y=508421 LAT.: N 32.3975008 LONG.: W 104.0999137	LAST PERFORATION POINT/ BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=579431 Y=509008 LAT.: N 32.3991143 LONG.: W 104.0759803 NAD 1983 X=620613 Y=509068 LAT.: N 32.3992344 LONG.: W 104.0764788	¹⁷OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>Hanna Bollenbach</i> Date: <i>12/8/22</i> Printed Name: <i>Hanna Bollenbach</i> E-mail Address: <i>hanna.bollenbach@matadorresources.com</i>
¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. 10/08/2022 Date of Survey Signature and Seal of Professional Surveyor <i>Michael B. Brown</i> MICHAEL B. BROWN NEW MEXICO 18329 PROFESSIONAL SURVEYOR Certificate Number		16 15 21 22

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

Form APD Conditions

Permit 333392

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-53356
	Well: Barry Miller State Com #201H

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	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
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	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

Matador Production Company

Rustler Breaks

Barry Miller

Barry Miller State Com #201H

Wellbore #1

State Plan #1

Anticollision Report

09 January, 2023

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	1/9/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	16,737.8	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Separation Factor	Warning
Barry Miller						
Barry Miller Fed Com #221H - Wellbore #1 - BLM Plan #	0.0	1.0	0.0			
Barry Miller Fed Com #221H - Wellbore #1 - BLM Plan #	16,737.8	17,222.0	612.7	390.0	2.751 SF	
Barry Miller Fed Com #222H - Wellbore #1 - BLM Plan #	555.8	556.3	21.1	17.6	5.953 CC	
Barry Miller Fed Com #222H - Wellbore #1 - BLM Plan #	600.0	600.5	21.3	17.4	5.493 ES	
Barry Miller Fed Com #222H - Wellbore #1 - BLM Plan #	900.0	900.0	27.8	21.7	4.605 SF	
Barry Miller State Com #121H - Wellbore #1 - Actual	0.0	0.0	30.0			
Barry Miller State Com #121H - Wellbore #1 - Actual	1,200.0	1,201.5	60.6	52.5	7.492 SF	
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	0.0	0.0	30.0			
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	6,100.0	6,104.4	312.0	266.8	6.897 SF	
Barry Miller State Com #122H - Wellbore #1 - Actual	699.0	699.9	37.0	32.6	8.278 CC	
Barry Miller State Com #122H - Wellbore #1 - Actual	800.0	800.9	37.4	32.2	7.196 ES	
Barry Miller State Com #122H - Wellbore #1 - Actual	1,000.0	999.8	42.0	35.4	6.332 SF	
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	0.0	0.0	42.5			
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	300.0	300.1	43.2	41.5	25.429 ES	
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	16,737.8	15,488.5	2,100.9	1,800.6	6.996 SF	
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,716.1	1,711.0	65.2	53.5	5.548 CC	
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,729.5	1,724.1	65.3	53.4	5.511 ES	
Barry Miller State Com #135H - Wellbore #1 - State Plan	16,737.8	16,669.2	985.4	617.2	2.676 SF	
Barry Miller State Com #136H - Wellbore #1 - State Plan	2,066.5	2,061.8	15.8	1.4	1.098 Level 2, CC, ES, SF	
Barry Miller State Com #202H - Wellbore #1 - State Plan	0.0	0.0	30.0			
Barry Miller State Com #202H - Wellbore #1 - State Plan	100.0	99.5	30.3	30.0	117.467 ES	
Barry Miller State Com #202H - Wellbore #1 - State Plan	16,737.8	16,711.6	1,316.2	946.4	3.559 SF	

Offset Design	Barry Miller - Barry Miller Fed Com #221H - 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	1.0	1.0	0.0	0.0	139.56	0.0	0.0	0.0				
100.0	100.0	101.0	101.0	0.1	0.1	176.89	0.0	0.0	0.9	0.6	0.28	3.153	
200.0	200.0	201.0	201.0	0.5	0.5	179.22	0.0	0.0	3.5	2.5	0.98	3.550	
300.0	299.9	300.9	300.9	0.9	0.8	179.65	0.0	0.0	7.9	6.2	1.70	4.613	
400.0	399.7	400.7	400.7	1.2	1.2	179.79	0.0	0.0	13.1	10.7	2.42	5.409	
500.0	499.6	500.6	500.6	1.6	1.6	179.85	0.0	0.0	18.3	15.2	3.14	5.843	

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

Anticollision Report

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Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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		
600.0	599.5	600.5	600.5	2.0	1.9	179.88	0.0	0.0	23.6	19.7	3.85	6.115		
700.0	699.3	700.3	700.3	2.3	2.3	179.91	0.0	0.0	28.8	24.2	4.57	6.301		
800.0	799.2	800.2	800.2	2.7	2.6	179.92	0.0	0.0	34.0	28.7	5.29	6.436		
900.0	899.0	900.0	900.0	3.1	3.0	179.93	0.0	0.0	39.3	33.3	6.00	6.539		
1,000.0	998.9	1,000.1	999.9	3.4	3.4	179.94	0.0	0.0	44.5	37.8	6.72	6.619		
1,100.0	1,098.8	1,100.2	1,099.8	3.8	3.7	179.95	0.0	0.0	49.7	42.3	7.44	6.683		
1,200.0	1,198.6	1,200.4	1,199.6	4.2	4.1	179.95	0.0	0.0	55.0	46.8	8.16	6.736		
1,300.0	1,298.5	1,300.5	1,299.5	4.5	4.4	179.95	0.0	0.0	60.2	51.3	8.88	6.780		
1,400.0	1,398.4	1,400.6	1,399.4	4.9	4.8	-152.02	0.0	0.0	65.1	55.5	9.60	6.783		
1,500.0	1,498.2	1,499.2	1,499.2	5.2	5.1	-131.32	0.0	0.0	69.4	59.1	10.30	6.739		
1,600.0	1,597.9	1,599.2	1,599.2	5.6	5.5	-120.56	0.6	-0.5	73.4	62.4	11.01	6.667		
1,700.0	1,697.5	1,699.3	1,699.2	5.9	5.9	-115.88	2.5	-2.3	77.1	65.4	11.72	6.580		
1,729.5	1,726.8	1,728.8	1,728.7	6.1	6.0	-115.24	3.4	-3.0	78.2	66.2	11.93	6.553		
1,800.0	1,796.9	1,799.5	1,799.3	6.3	6.2	-118.05	5.8	-5.2	80.7	68.2	12.43	6.488		
1,900.0	1,896.3	1,899.9	1,899.5	6.7	6.6	-120.80	10.4	-9.3	83.9	70.7	13.15	6.381		
2,000.0	1,995.7	2,000.4	1,999.8	7.0	6.9	-122.28	16.2	-14.5	86.6	72.7	13.87	6.243		
2,100.0	2,095.1	2,101.0	2,099.9	7.4	7.3	-122.64	23.4	-21.0	88.6	74.0	14.59	6.070		
2,200.0	2,194.5	2,201.6	2,199.9	7.8	7.7	-121.97	31.9	-28.6	89.9	74.5	15.32	5.863		
2,300.0	2,293.9	2,302.2	2,299.6	8.1	8.0	-120.28	41.7	-37.4	90.5	74.4	16.07	5.631		
2,400.0	2,393.3	2,402.1	2,398.5	8.5	8.4	-118.14	52.1	-46.7	90.9	74.1	16.82	5.403		
2,500.0	2,492.6	2,502.1	2,497.5	8.9	8.8	-116.01	62.4	-56.0	91.4	73.8	17.58	5.200		
2,600.0	2,592.0	2,602.0	2,596.5	9.3	9.2	-113.92	72.8	-65.2	92.1	73.7	18.35	5.018		
2,700.0	2,691.4	2,702.0	2,695.5	9.6	9.6	-111.85	83.1	-74.5	92.9	73.7	19.12	4.856		
2,800.0	2,790.8	2,801.9	2,794.4	10.0	10.0	-109.82	93.5	-83.8	93.8	73.9	19.90	4.712		
2,900.0	2,890.2	2,901.8	2,893.4	10.4	10.4	-107.84	103.9	-93.1	94.8	74.1	20.68	4.583		
3,000.0	2,989.6	3,001.8	2,992.4	10.8	10.7	-105.90	114.2	-102.4	95.9	74.4	21.46	4.468		
3,100.0	3,089.0	3,101.7	3,091.3	11.2	11.1	-104.00	124.6	-111.7	97.1	74.9	22.25	4.365		
3,200.0	3,188.4	3,201.7	3,190.3	11.6	11.5	-102.16	134.9	-120.9	98.5	75.4	23.04	4.273		
3,300.0	3,287.8	3,301.6	3,289.3	11.9	11.9	-100.36	145.3	-130.2	99.9	76.1	23.83	4.192		
3,400.0	3,387.2	3,401.6	3,388.2	12.3	12.3	-98.62	155.7	-139.5	101.4	76.8	24.63	4.119		
3,500.0	3,486.5	3,501.5	3,487.2	12.7	12.7	-96.93	166.0	-148.8	103.1	77.6	25.42	4.054		
3,600.0	3,585.9	3,601.4	3,586.2	13.1	13.1	-95.30	176.4	-158.1	104.8	78.6	26.21	3.997		
3,700.0	3,685.3	3,701.4	3,685.1	13.5	13.5	-93.72	186.7	-167.4	106.6	79.6	27.01	3.946		
3,800.0	3,784.7	3,801.3	3,784.1	13.9	14.0	-92.19	197.1	-176.6	108.4	80.6	27.80	3.901		
3,900.0	3,884.1	3,901.3	3,883.1	14.3	14.4	-90.71	207.4	-185.9	110.4	81.8	28.59	3.860		
4,000.0	3,983.5	4,001.2	3,982.1	14.7	14.8	-89.29	217.8	-195.2	112.4	83.0	29.39	3.825		
4,100.0	4,082.9	4,101.1	4,081.0	15.1	15.2	-87.92	228.2	-204.5	114.5	84.3	30.18	3.794		
4,200.0	4,182.3	4,201.1	4,180.0	15.5	15.6	-86.60	238.5	-213.8	116.6	85.7	30.97	3.766		
4,300.0	4,281.7	4,301.0	4,279.0	15.8	16.0	-85.32	248.9	-223.1	118.8	87.1	31.76	3.742		
4,400.0	4,381.1	4,401.0	4,377.9	16.2	16.4	-84.10	259.2	-232.3	121.1	88.6	32.54	3.721		
4,500.0	4,480.4	4,500.9	4,476.9	16.6	16.8	-82.91	269.6	-241.6	123.4	90.1	33.33	3.703		
4,600.0	4,579.8	4,600.9	4,575.9	17.0	17.2	-81.78	279.9	-250.9	125.8	91.7	34.12	3.687		
4,700.0	4,679.2	4,700.8	4,674.8	17.4	17.6	-80.68	290.3	-260.2	128.2	93.3	34.90	3.673		
4,800.0	4,778.6	4,800.7	4,773.8	17.8	18.0	-79.63	300.7	-269.5	130.7	95.0	35.68	3.662		
4,900.0	4,878.0	4,900.7	4,872.8	18.2	18.4	-78.61	311.0	-278.8	133.2	96.7	36.46	3.652		
5,000.0	4,977.4	5,000.6	4,971.7	18.6	18.9	-77.64	321.4	-288.0	135.7	98.5	37.24	3.643		
5,100.0	5,076.8	5,100.6	5,070.7	19.0	19.3	-76.69	331.7	-297.3	138.3	100.3	38.02	3.637		
5,200.0	5,176.2	5,200.5	5,169.7	19.4	19.7	-75.79	342.1	-306.6	140.9	102.1	38.80	3.631		
5,300.0	5,275.6	5,300.4	5,268.6	19.8	20.1	-74.92	352.5	-315.9	143.5	104.0	39.58	3.627		
5,400.0	5,375.0	5,400.4	5,367.6	20.2	20.5	-74.07	362.8	-325.2	146.2	105.9	40.36	3.624		
5,500.0	5,474.3	5,500.3	5,466.6	20.6	20.9	-73.26	373.2	-334.5	148.9	107.8	41.13	3.621		
5,600.0	5,573.7	5,600.3	5,565.6	20.9	21.3	-72.48	383.5	-343.7	151.7	109.8	41.91	3.620		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
5,700.0	5,673.1	5,700.2	5,664.5	21.3	21.7	-71.73	393.9	-353.0	154.5	111.8	42.68	3.619	
5,800.0	5,772.5	5,801.6	5,765.0	21.7	22.2	-71.23	403.8	-361.9	156.9	113.4	43.47	3.610	
5,900.0	5,871.9	5,903.5	5,866.3	22.1	22.6	-71.59	411.9	-369.2	158.2	113.9	44.28	3.573	
6,000.0	5,971.3	6,005.3	5,967.8	22.5	22.9	-72.83	418.0	-374.6	158.3	113.3	45.09	3.512	
6,100.0	6,070.7	6,106.8	6,069.2	22.9	23.3	-74.95	422.0	-378.2	157.5	111.6	45.90	3.431	
6,200.0	6,170.1	6,208.0	6,170.3	23.3	23.7	-78.01	424.0	-380.0	155.9	109.2	46.72	3.337	
6,300.0	6,269.5	6,308.1	6,270.5	23.7	24.0	-81.91	424.2	-380.2	154.1	106.5	47.53	3.242	
6,400.0	6,368.9	6,407.5	6,369.9	24.1	24.3	-85.98	424.2	-380.2	152.9	104.6	48.32	3.164	
6,497.8	6,466.1	6,504.8	6,467.1	24.5	24.6	-90.00	424.2	-380.2	152.5	103.4	49.06	3.108	
6,500.0	6,468.2	6,506.9	6,469.2	24.5	24.6	-90.09	424.2	-380.2	152.5	103.4	49.08	3.107	
6,600.0	6,567.6	6,606.3	6,568.6	24.9	25.0	-94.20	424.2	-380.2	152.9	103.1	49.82	3.070	
6,700.0	6,667.0	6,705.7	6,668.0	25.3	25.3	-98.27	424.2	-380.2	154.1	103.6	50.53	3.050	
6,800.0	6,766.4	6,805.1	6,767.4	25.7	25.6	-102.25	424.2	-380.2	156.1	104.9	51.21	3.048	
6,900.0	6,865.8	6,904.5	6,866.8	26.1	26.0	-106.12	424.2	-380.2	158.8	107.0	51.88	3.062	
7,000.0	6,965.2	7,003.9	6,966.2	26.5	26.3	-109.84	424.2	-380.2	162.3	109.7	52.52	3.089	
7,100.0	7,064.6	7,103.3	7,065.6	26.9	26.6	-113.40	424.2	-380.2	166.3	113.2	53.15	3.130	
7,200.0	7,164.0	7,202.7	7,165.0	27.3	27.0	-116.77	424.2	-380.2	171.0	117.3	53.76	3.181	
7,300.0	7,263.4	7,302.0	7,264.4	27.6	27.3	-119.96	424.2	-380.2	176.3	121.9	54.37	3.243	
7,400.0	7,362.8	7,401.4	7,363.8	28.0	27.6	-122.95	424.2	-380.2	182.1	127.1	54.98	3.312	
7,500.0	7,462.2	7,500.8	7,463.2	28.4	28.0	-125.76	424.2	-380.2	188.3	132.8	55.58	3.388	
7,600.0	7,561.5	7,600.2	7,562.5	28.8	28.3	-128.38	424.2	-380.2	195.0	138.8	56.19	3.471	
7,700.0	7,660.9	7,700.4	7,661.9	29.2	28.6	-130.82	424.2	-380.2	202.1	145.3	56.80	3.558	
7,800.0	7,760.3	7,801.0	7,761.3	29.6	29.0	-133.10	424.2	-380.2	209.5	152.1	57.42	3.648	
7,900.0	7,859.7	7,901.6	7,860.7	30.0	29.3	-135.22	424.2	-380.2	217.2	159.1	58.04	3.742	
8,000.0	7,959.1	8,002.2	7,960.1	30.4	29.7	-137.19	424.2	-380.2	225.2	166.5	58.67	3.838	
8,100.0	8,058.5	8,102.8	8,059.5	30.8	30.0	-139.02	424.2	-380.2	233.4	174.1	59.30	3.936	
8,200.0	8,157.9	8,203.4	8,158.9	31.2	30.3	-140.73	424.2	-380.2	241.8	181.9	59.94	4.035	
8,300.0	8,257.3	8,304.1	8,258.3	31.6	30.7	-142.33	424.2	-380.2	250.5	189.9	60.58	4.135	
8,373.0	8,329.8	8,368.5	8,330.8	31.9	30.9	-143.42	424.2	-380.2	256.9	195.9	61.02	4.210	
8,400.0	8,356.7	8,404.7	8,357.7	32.0	31.0	-143.82	424.2	-380.2	259.3	198.0	61.23	4.234	
8,500.0	8,456.3	8,505.1	8,457.3	32.4	31.4	-145.03	424.2	-380.2	266.6	204.7	61.89	4.307	
8,600.0	8,556.1	8,605.3	8,557.1	32.7	31.7	-145.84	424.2	-380.2	271.9	209.3	62.57	4.346	
8,700.0	8,656.0	8,705.4	8,657.0	33.1	32.1	-146.31	424.2	-380.2	275.0	211.8	63.25	4.349	
8,795.0	8,751.0	8,789.7	8,752.0	33.4	32.4	180.00	424.2	-380.2	276.0	212.2	63.87	4.322	
8,800.0	8,756.0	8,805.4	8,757.0	33.4	32.4	88.11	424.2	-380.2	276.0	212.1	63.94	4.317	
8,850.0	8,805.9	8,844.6	8,806.9	33.6	32.5	88.66	424.2	-380.2	275.9	211.7	64.26	4.294	
8,897.3	8,852.7	8,908.6	8,853.7	33.7	32.8	90.00	424.2	-380.2	275.9	211.2	64.68	4.265	
8,900.0	8,855.4	8,905.9	8,856.4	33.7	32.8	90.10	424.2	-380.2	275.9	211.2	64.69	4.265	
8,950.0	8,904.1	8,942.8	8,905.1	33.8	32.9	92.35	424.2	-380.2	276.1	211.1	65.07	4.244	
9,000.0	8,951.6	9,009.7	8,952.6	34.0	33.1	95.27	424.2	-380.2	277.2	211.6	65.58	4.227	
9,050.0	8,997.6	9,036.3	8,998.6	34.1	33.2	98.69	424.2	-380.2	279.8	213.8	65.98	4.241	
9,100.0	9,041.8	9,080.4	9,042.8	34.1	33.4	102.36	424.2	-380.2	284.7	218.2	66.44	4.284	
9,150.0	9,083.7	9,122.4	9,084.7	34.2	33.5	106.03	424.2	-380.2	292.6	225.7	66.89	4.373	
9,200.0	9,123.1	9,161.8	9,124.1	34.3	33.6	109.46	424.2	-380.2	304.2	236.9	67.31	4.519	
9,250.0	9,159.6	9,201.7	9,160.6	34.3	33.8	112.40	424.2	-380.2	320.0	252.4	67.69	4.728	
9,300.0	9,193.1	9,231.8	9,194.1	34.3	33.9	114.69	424.2	-380.2	340.4	272.4	67.97	5.008	
9,350.0	9,223.2	9,261.8	9,224.2	34.4	34.0	116.17	424.2	-380.2	365.2	297.0	68.20	5.355	
9,400.0	9,249.7	9,292.7	9,250.0	34.4	34.1	117.31	424.2	-380.1	394.2	325.9	68.39	5.765	
9,450.0	9,272.4	9,338.8	9,301.0	34.4	34.2	119.97	423.7	-377.5	426.3	357.8	68.49	6.224	
9,500.0	9,291.1	9,391.9	9,353.6	34.4	34.4	122.82	422.4	-369.9	460.4	392.1	68.27	6.743	
9,550.0	9,305.7	9,456.5	9,416.2	34.4	34.5	126.20	419.5	-354.3	495.7	428.2	67.53	7.341	
9,600.0	9,316.1	9,540.9	9,494.5	34.5	34.7	130.52	413.9	-323.7	531.5	465.6	65.84	8.073	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Barry Miller - Barry Miller Fed Com #221H - 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	9,322.2	9,650.0	9,573.8	34.8	34.9	134.11	405.3	-277.3	565.9	502.4	63.42	8.922	
9,676.9	9,323.7	9,755.0	9,665.4	35.0	35.1	139.27	391.0	-199.0	583.2	524.3	58.98	9.889	
9,700.0	9,324.4	9,858.7	9,728.6	35.1	35.3	142.62	376.2	-118.2	596.0	540.7	55.28	10.780	
9,800.0	9,327.6	10,200.5	9,820.7	35.9	36.7	143.75	318.2	201.3	617.1	566.1	50.96	12.110	
9,900.0	9,330.7	10,320.2	9,829.2	36.8	37.6	143.07	301.7	319.6	626.7	574.1	52.58	11.920	
10,000.0	9,333.9	10,440.9	9,836.5	37.9	38.7	142.67	289.9	439.4	633.1	578.9	54.28	11.664	
10,100.0	9,337.0	10,562.1	9,842.5	39.1	40.0	142.55	282.9	560.3	636.3	580.3	56.03	11.357	
10,200.0	9,340.1	10,683.4	9,847.2	40.3	41.4	142.70	280.9	681.5	636.2	578.4	57.78	11.011	
10,300.0	9,343.3	10,784.9	9,850.6	41.7	42.7	142.96	281.6	782.9	634.2	574.8	59.37	10.683	
10,400.0	9,346.4	10,884.8	9,853.8	43.2	44.2	143.21	282.3	882.8	632.3	571.3	61.04	10.358	
10,500.0	9,349.5	10,984.8	9,857.1	44.8	45.7	143.46	283.0	982.7	630.5	567.7	62.81	10.038	
10,600.0	9,352.7	11,084.7	9,860.3	46.4	47.3	143.70	283.6	1,082.6	628.7	564.0	64.66	9.723	
10,700.0	9,355.8	11,184.7	9,863.6	48.1	48.9	143.93	284.3	1,182.5	627.0	560.4	66.59	9.417	
10,800.0	9,358.9	11,284.7	9,866.9	49.9	50.6	144.16	285.0	1,282.4	625.4	556.8	68.57	9.120	
10,900.0	9,362.0	11,384.6	9,870.1	51.7	52.4	144.38	285.7	1,382.3	623.9	553.2	70.62	8.834	
11,000.0	9,365.1	11,484.6	9,873.4	53.6	54.2	144.60	286.4	1,482.2	622.4	549.7	72.71	8.559	
11,100.0	9,368.2	11,584.5	9,876.6	55.6	56.1	144.81	287.1	1,582.1	621.0	546.1	74.85	8.296	
11,200.0	9,371.3	11,684.5	9,879.9	57.5	58.0	145.02	287.8	1,682.0	619.6	542.6	77.03	8.044	
11,300.0	9,374.4	11,784.5	9,883.2	59.5	60.0	145.21	288.5	1,781.9	618.3	539.1	79.24	7.803	
11,400.0	9,377.5	11,884.4	9,886.4	61.5	62.0	145.41	289.2	1,881.8	617.1	535.6	81.49	7.573	
11,500.0	9,380.6	11,984.4	9,889.7	63.6	64.0	145.59	289.9	1,981.8	615.9	532.2	83.76	7.354	
11,600.0	9,383.6	12,084.4	9,893.0	65.7	66.1	145.77	290.5	2,081.7	614.9	528.8	86.06	7.144	
11,700.0	9,386.7	12,184.4	9,896.2	67.8	68.1	145.95	291.2	2,181.6	613.8	525.4	88.38	6.945	
11,800.0	9,389.8	12,284.4	9,899.5	69.9	70.2	146.11	291.9	2,281.5	612.9	522.1	90.73	6.755	
11,900.0	9,392.9	12,384.3	9,902.7	72.1	72.4	146.28	292.6	2,381.5	612.0	518.9	93.09	6.574	
12,000.0	9,395.9	12,484.3	9,906.0	74.3	74.5	146.43	293.3	2,481.4	611.1	515.6	95.48	6.401	
12,100.0	9,399.0	12,584.3	9,909.3	76.5	76.7	146.58	294.0	2,581.3	610.3	512.4	97.88	6.236	
12,200.0	9,402.0	12,684.3	9,912.5	78.7	78.8	146.72	294.7	2,681.2	609.6	509.3	100.30	6.078	
12,300.0	9,405.1	12,784.3	9,915.8	80.9	81.0	146.85	295.4	2,781.2	608.9	506.2	102.73	5.927	
12,400.0	9,408.1	12,884.3	9,919.0	83.1	83.2	146.98	296.1	2,881.1	608.3	503.1	105.18	5.783	
12,500.0	9,411.2	12,984.3	9,922.3	85.4	85.5	147.09	296.7	2,981.0	607.8	500.1	107.65	5.646	
12,600.0	9,414.2	13,084.2	9,925.6	87.6	87.7	147.21	297.4	3,081.0	607.3	497.2	110.14	5.514	
12,700.0	9,417.3	13,184.2	9,928.8	89.9	89.9	147.31	298.1	3,180.9	606.9	494.2	112.64	5.388	
12,800.0	9,420.3	13,284.2	9,932.1	92.2	92.2	147.41	298.8	3,280.9	606.5	491.3	115.16	5.267	
12,900.0	9,423.3	13,384.2	9,935.4	94.5	94.5	147.50	299.5	3,380.8	606.2	488.5	117.69	5.151	
13,000.0	9,426.3	13,484.2	9,938.6	96.8	96.7	147.58	300.2	3,480.7	605.9	485.7	120.24	5.039	
13,100.0	9,429.4	13,584.2	9,941.9	99.1	99.0	147.66	300.9	3,580.7	605.7	482.9	122.81	4.932	
13,200.0	9,432.4	13,684.2	9,945.1	101.4	101.3	147.73	301.6	3,680.6	605.5	480.1	125.40	4.829	
13,300.0	9,435.4	13,784.2	9,948.4	103.7	103.6	147.79	302.3	3,780.6	605.4	477.4	128.01	4.730	
13,400.0	9,438.4	13,884.2	9,951.7	106.0	105.9	147.84	302.9	3,880.5	605.4	474.8	130.63	4.634	
13,427.2	9,439.2	13,911.4	9,952.6	106.6	106.5	147.85	303.1	3,907.7	605.4	474.0	131.35	4.609	
13,500.0	9,441.4	13,984.2	9,954.9	108.3	108.2	147.89	303.6	3,980.4	605.4	472.1	133.28	4.542	
13,600.0	9,444.4	14,084.2	9,958.2	110.7	110.5	147.93	304.3	4,080.4	605.5	469.5	135.95	4.454	
13,700.0	9,447.4	14,184.2	9,961.5	113.0	112.8	147.96	305.0	4,180.3	605.6	467.0	138.64	4.368	
13,800.0	9,450.4	14,284.2	9,964.7	115.3	115.2	147.98	305.7	4,280.3	605.8	464.4	141.35	4.286	
13,858.5	9,452.1	14,342.7	9,966.6	116.7	116.5	147.99	306.1	4,338.8	605.9	463.0	142.95	4.239	
13,900.0	9,453.3	14,384.2	9,968.0	117.7	117.5	148.00	306.4	4,380.2	606.0	461.9	144.09	4.206	
14,000.0	9,456.3	14,484.2	9,971.2	120.0	119.8	148.01	307.1	4,480.2	606.2	459.4	146.83	4.129	
14,100.0	9,459.3	14,584.2	9,974.5	122.4	122.2	148.03	307.8	4,580.1	606.5	456.9	149.58	4.055	
14,200.0	9,462.3	14,684.2	9,977.8	124.7	124.5	148.04	308.5	4,680.1	606.7	454.4	152.33	3.983	
14,300.0	9,465.3	14,784.2	9,981.0	127.1	126.9	148.06	309.2	4,780.0	606.9	451.9	155.08	3.914	
14,400.0	9,468.3	14,884.2	9,984.3	129.5	129.2	148.07	309.8	4,879.9	607.2	449.3	157.84	3.847	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Barry Miller - Barry Miller Fed Com #221H - 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	
14,500.0	9,471.2	14,984.2	9,987.5	131.8	131.6	148.08	310.5	4,979.9	607.4	446.8	160.60	3.782	
14,600.0	9,474.2	15,084.2	9,990.8	134.2	133.9	148.10	311.2	5,079.8	607.6	444.3	163.36	3.720	
14,700.0	9,477.2	15,184.2	9,994.1	136.6	136.3	148.11	311.9	5,179.8	607.9	441.8	166.12	3.659	
14,800.0	9,480.2	15,284.2	9,997.3	139.0	138.6	148.13	312.6	5,279.7	608.1	439.2	168.89	3.601	
14,900.0	9,483.2	15,384.2	10,000.6	141.3	141.0	148.14	313.3	5,379.7	608.4	436.7	171.66	3.544	
15,000.0	9,486.2	15,484.2	10,003.9	143.7	143.4	148.15	314.0	5,479.6	608.6	434.2	174.43	3.489	
15,100.0	9,489.1	15,584.2	10,007.1	146.1	145.7	148.17	314.7	5,579.6	608.8	431.6	177.20	3.436	
15,200.0	9,492.1	15,684.2	10,010.4	148.5	148.1	148.18	315.4	5,679.5	609.1	429.1	179.97	3.384	
15,300.0	9,495.1	15,784.2	10,013.6	150.9	150.5	148.20	316.0	5,779.4	609.3	426.5	182.75	3.334	
15,400.0	9,498.1	15,884.2	10,016.9	153.3	152.9	148.21	316.7	5,879.4	609.5	424.0	185.52	3.285	
15,500.0	9,501.1	15,984.2	10,020.2	155.7	155.3	148.23	317.4	5,979.3	609.8	421.5	188.30	3.238	
15,600.0	9,504.1	16,084.2	10,023.4	158.1	157.6	148.24	318.1	6,079.3	610.0	418.9	191.08	3.192	
15,700.0	9,507.0	16,184.2	10,026.7	160.5	160.0	148.25	318.8	6,179.2	610.2	416.4	193.86	3.148	
15,800.0	9,510.0	16,284.2	10,030.0	162.9	162.4	148.27	319.5	6,279.2	610.5	413.8	196.64	3.105	
15,900.0	9,513.0	16,384.2	10,033.2	165.3	164.8	148.28	320.2	6,379.1	610.7	411.3	199.41	3.062	
16,000.0	9,516.0	16,484.2	10,036.5	167.7	167.2	148.30	320.9	6,479.0	610.9	408.7	202.20	3.022	
16,100.0	9,519.0	16,584.2	10,039.7	170.1	169.6	148.31	321.6	6,579.0	611.2	406.2	204.98	2.982	
16,200.0	9,522.0	16,684.2	10,043.0	172.5	172.0	148.32	322.3	6,678.9	611.4	403.6	207.76	2.943	
16,300.0	9,524.9	16,784.2	10,046.3	174.9	174.4	148.34	322.9	6,778.9	611.6	401.1	210.54	2.905	
16,400.0	9,527.9	16,884.2	10,049.5	177.3	176.8	148.35	323.6	6,878.8	611.9	398.6	213.32	2.868	
16,500.0	9,530.9	16,984.2	10,052.8	179.7	179.2	148.37	324.3	6,978.8	612.1	396.0	216.10	2.833	
16,600.0	9,533.9	17,084.2	10,056.1	182.1	181.6	148.38	325.0	7,078.7	612.3	393.5	218.88	2.798	
16,700.0	9,536.9	17,184.2	10,059.3	184.5	184.0	148.39	325.7	7,178.7	612.6	390.9	221.67	2.764	
16,737.8	9,538.0	17,222.0	10,060.5	185.4	184.9	148.40	326.0	7,216.5	612.7	390.0	222.72	2.751 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	1.0	0.0	0.0	89.87	0.1	30.0	30.0				
100.0	100.0	101.0	101.0	0.1	0.1	46.08	0.1	30.0	29.4	29.1	0.27	109.079	
200.0	200.0	201.0	201.0	0.5	0.5	50.01	0.1	30.0	27.6	26.6	0.98	28.150	
300.0	299.9	300.9	300.9	0.9	0.8	57.70	0.1	30.0	25.0	23.3	1.70	14.719	
400.0	399.7	400.7	400.7	1.2	1.2	68.94	0.1	30.0	22.7	20.2	2.42	9.355	
500.0	499.6	500.6	500.6	1.6	1.6	82.15	0.1	30.0	21.3	18.2	3.15	6.782	
555.8	555.3	556.3	556.3	1.8	1.8	90.00	0.1	30.0	21.1	17.6	3.55	5.953 CC	
600.0	599.5	600.5	600.5	2.0	1.9	96.23	0.1	30.0	21.3	17.4	3.87	5.493 ES	
700.0	699.3	700.3	700.3	2.3	2.3	109.61	0.1	30.0	22.5	17.9	4.60	4.886	
800.0	799.2	800.2	800.2	2.7	2.6	121.11	0.1	30.0	24.7	19.4	5.32	4.649	
900.0	899.0	900.0	900.0	3.1	3.0	130.39	0.1	30.0	27.8	21.7	6.03	4.605 SF	
1,000.0	998.9	1,000.1	999.9	3.4	3.4	137.67	0.1	30.0	31.4	24.7	6.75	4.656	
1,100.0	1,098.8	1,100.2	1,099.8	3.8	3.7	143.37	0.1	30.0	35.5	28.0	7.47	4.752	
1,200.0	1,198.6	1,200.4	1,199.6	4.2	4.1	147.87	0.1	30.0	39.8	31.6	8.18	4.864	
1,300.0	1,298.5	1,300.5	1,299.5	4.5	4.4	151.47	0.1	30.0	44.3	35.4	8.90	4.980	
1,400.0	1,398.4	1,400.6	1,399.4	4.9	4.8	-177.97	0.1	30.0	49.2	39.6	9.62	5.119	
1,500.0	1,498.2	1,500.8	1,499.2	5.2	5.1	-155.74	0.1	30.0	54.7	44.4	10.33	5.294	
1,600.0	1,597.9	1,601.1	1,598.9	5.6	5.5	-144.55	0.1	30.0	60.9	49.8	11.04	5.513	
1,700.0	1,697.5	1,701.5	1,698.5	5.9	5.9	-140.55	0.1	30.0	68.2	56.4	11.75	5.801	
1,729.5	1,726.8	1,727.8	1,727.8	6.1	6.0	-140.23	0.1	30.0	70.6	58.6	11.95	5.908	
1,800.0	1,796.9	1,802.1	1,797.9	6.3	6.2	-143.94	0.1	30.0	76.8	64.3	12.46	6.158	
1,900.0	1,896.3	1,902.7	1,897.3	6.7	6.6	-148.27	0.1	30.0	85.9	72.8	13.17	6.522	
2,000.0	1,995.7	2,003.3	1,996.7	7.0	7.0	-151.74	0.1	30.0	95.5	81.6	13.89	6.877	
2,100.0	2,095.1	2,103.9	2,096.1	7.4	7.3	-154.58	0.1	30.0	105.4	90.8	14.60	7.216	
2,200.0	2,194.5	2,204.5	2,195.5	7.8	7.7	-156.93	0.1	30.0	115.4	100.1	15.31	7.537	
2,300.0	2,293.9	2,305.1	2,294.9	8.1	8.0	-158.90	0.1	30.0	125.6	109.6	16.03	7.839	
2,400.0	2,393.3	2,405.7	2,394.3	8.5	8.4	-160.57	0.1	30.0	136.0	119.3	16.74	8.122	
2,500.0	2,492.6	2,493.6	2,493.6	8.9	8.7	-162.00	0.1	30.0	146.5	129.0	17.42	8.409	
2,600.0	2,592.0	2,591.1	2,591.1	9.3	9.0	-163.05	-0.6	29.7	157.5	139.4	18.10	8.705	
2,700.0	2,691.4	2,688.3	2,688.2	9.6	9.4	-163.59	-2.8	28.7	169.9	151.2	18.76	9.058	
2,800.0	2,790.8	2,785.1	2,785.0	10.0	9.7	-163.71	-6.4	27.1	183.6	164.2	19.42	9.454	
2,900.0	2,890.2	2,881.5	2,881.3	10.4	10.0	-163.50	-11.5	24.8	198.5	178.4	20.08	9.888	
3,000.0	2,989.6	2,977.6	2,977.0	10.8	10.3	-163.03	-18.1	21.9	214.7	194.0	20.73	10.357	
3,100.0	3,089.0	3,073.2	3,072.2	11.2	10.6	-162.36	-26.1	18.3	232.2	210.8	21.38	10.859	
3,200.0	3,188.4	3,168.3	3,166.7	11.6	11.0	-161.56	-35.5	14.1	250.9	228.9	22.02	11.392	
3,300.0	3,287.8	3,262.8	3,260.5	11.9	11.3	-160.66	-46.2	9.3	271.0	248.3	22.66	11.956	
3,400.0	3,387.2	3,356.7	3,353.5	12.3	11.6	-159.70	-58.3	4.0	292.3	269.1	23.30	12.549	
3,500.0	3,486.5	3,450.0	3,445.6	12.7	11.9	-158.69	-71.7	-2.0	315.1	291.2	23.93	13.170	
3,600.0	3,585.9	3,547.4	3,536.7	13.1	12.3	-157.68	-86.3	-8.5	339.2	314.7	24.56	13.810	
3,700.0	3,685.3	3,639.1	3,631.8	13.5	12.6	-156.68	-102.3	-15.6	364.1	338.9	25.24	14.428	
3,800.0	3,784.7	3,735.8	3,726.8	13.9	13.0	-155.81	-118.4	-22.8	389.1	363.2	25.93	15.004	
3,900.0	3,884.1	3,832.4	3,821.9	14.3	13.4	-155.04	-134.4	-29.9	414.2	387.5	26.63	15.551	
4,000.0	3,983.5	3,929.1	3,917.0	14.7	13.8	-154.36	-150.4	-37.0	439.3	411.9	27.33	16.071	
4,100.0	4,082.9	4,025.8	4,012.0	15.1	14.1	-153.75	-166.4	-44.2	464.5	436.4	28.04	16.565	
4,200.0	4,182.3	4,122.5	4,107.1	15.5	14.5	-153.21	-182.4	-51.3	489.7	460.9	28.75	17.034	
4,300.0	4,281.7	4,219.1	4,202.2	15.8	14.9	-152.72	-198.4	-58.4	514.9	485.5	29.46	17.481	
4,400.0	4,381.1	4,315.8	4,297.2	16.2	15.3	-152.27	-214.4	-65.6	540.2	510.0	30.17	17.907	
4,500.0	4,480.4	4,412.5	4,392.3	16.6	15.7	-151.87	-230.5	-72.7	565.5	534.6	30.88	18.312	
4,600.0	4,579.8	4,509.1	4,487.4	17.0	16.1	-151.50	-246.5	-79.8	590.9	559.3	31.60	18.700	
4,700.0	4,679.2	4,605.8	4,582.4	17.4	16.5	-151.16	-262.5	-87.0	616.2	583.9	32.31	19.069	
4,800.0	4,778.6	4,702.5	4,677.5	17.8	16.9	-150.84	-278.5	-94.1	641.6	608.6	33.03	19.423	
4,900.0	4,878.0	4,800.9	4,772.6	18.2	17.3	-150.55	-294.5	-101.2	667.0	633.2	33.76	19.757	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,977.4	4,904.2	4,867.6	18.6	17.7	-150.29	-310.5	-108.4	692.4	657.9	34.51	20.066	
5,100.0	5,076.8	5,007.5	4,962.7	19.0	18.2	-150.04	-326.6	-115.5	717.8	682.6	35.25	20.361	
5,200.0	5,176.2	5,089.1	5,057.7	19.4	18.5	-149.80	-342.6	-122.6	743.3	707.3	35.92	20.691	
5,300.0	5,275.6	5,185.8	5,152.8	19.8	18.9	-149.59	-358.6	-129.8	768.7	732.1	36.65	20.976	
5,400.0	5,375.0	5,282.5	5,247.9	20.2	19.3	-149.38	-374.6	-136.9	794.2	756.8	37.37	21.250	
5,500.0	5,474.3	5,379.1	5,342.9	20.6	19.8	-149.19	-390.6	-144.0	819.6	781.5	38.10	21.513	
5,600.0	5,573.7	5,475.8	5,438.0	20.9	20.2	-149.02	-406.6	-151.2	845.1	806.3	38.83	21.766	
5,700.0	5,673.1	5,572.5	5,533.1	21.3	20.6	-148.85	-422.6	-158.3	870.6	831.0	39.55	22.009	
5,800.0	5,772.5	5,669.2	5,628.1	21.7	21.0	-148.69	-438.7	-165.5	896.1	855.8	40.28	22.244	
5,900.0	5,871.9	5,765.8	5,723.2	22.1	21.4	-148.54	-454.7	-172.6	921.6	880.5	41.01	22.469	
6,000.0	5,971.3	5,862.5	5,818.3	22.5	21.8	-148.40	-470.7	-179.7	947.0	905.3	41.74	22.687	
6,100.0	6,070.7	5,959.2	5,913.3	22.9	22.3	-148.26	-486.7	-186.9	972.6	930.1	42.48	22.897	
6,200.0	6,170.1	6,055.8	6,008.4	23.3	22.7	-148.13	-502.7	-194.0	998.1	954.8	43.21	23.099	
6,300.0	6,269.5	6,152.5	6,103.5	23.7	23.1	-148.01	-518.7	-201.1	1,023.6	979.6	43.94	23.294	
6,400.0	6,368.9	6,249.2	6,198.5	24.1	23.5	-147.90	-534.7	-208.3	1,049.1	1,004.4	44.67	23.483	
6,500.0	6,468.2	6,345.8	6,293.6	24.5	24.0	-147.79	-550.8	-215.4	1,074.6	1,029.2	45.41	23.666	
6,600.0	6,567.6	6,442.5	6,388.7	24.9	24.4	-147.68	-566.8	-222.5	1,100.1	1,054.0	46.14	23.842	
6,700.0	6,667.0	6,539.2	6,483.7	25.3	24.8	-147.58	-582.8	-229.7	1,125.7	1,078.8	46.88	24.013	
6,800.0	6,766.4	6,635.8	6,578.8	25.7	25.3	-147.49	-598.8	-236.8	1,151.2	1,103.6	47.61	24.179	
6,900.0	6,865.8	6,732.5	6,673.9	26.1	25.7	-147.40	-614.8	-243.9	1,176.7	1,128.4	48.35	24.339	
7,000.0	6,965.2	6,829.2	6,768.9	26.5	26.1	-147.31	-630.8	-251.1	1,202.2	1,153.2	49.08	24.494	
7,100.0	7,064.6	6,925.9	6,864.0	26.9	26.5	-147.22	-646.9	-258.2	1,227.8	1,178.0	49.82	24.645	
7,200.0	7,164.0	7,022.5	6,959.1	27.3	27.0	-147.14	-662.9	-265.3	1,253.3	1,202.8	50.56	24.790	
7,300.0	7,263.4	7,119.2	7,054.1	27.6	27.4	-147.07	-678.9	-272.5	1,278.9	1,227.6	51.29	24.932	
7,400.0	7,362.8	7,215.9	7,149.2	28.0	27.8	-146.99	-694.9	-279.6	1,304.4	1,252.4	52.03	25.069	
7,500.0	7,462.2	7,312.5	7,244.3	28.4	28.3	-146.92	-710.9	-286.7	1,330.0	1,277.2	52.77	25.203	
7,600.0	7,561.5	7,409.2	7,339.3	28.8	28.7	-146.85	-726.9	-293.9	1,355.5	1,302.0	53.51	25.333	
7,700.0	7,660.9	7,505.9	7,434.4	29.2	29.1	-146.79	-742.9	-301.0	1,381.1	1,326.8	54.25	25.458	
7,800.0	7,760.3	7,602.5	7,529.5	29.6	29.6	-146.72	-759.0	-308.1	1,406.6	1,351.6	54.99	25.581	
7,900.0	7,859.7	7,699.2	7,624.5	30.0	30.0	-146.66	-775.0	-315.3	1,432.2	1,376.4	55.73	25.700	
8,000.0	7,959.1	7,804.1	7,719.6	30.4	30.5	-146.60	-791.0	-322.4	1,457.7	1,401.2	56.50	25.801	
8,100.0	8,058.5	7,907.5	7,814.7	30.8	30.9	-146.54	-807.0	-329.5	1,483.3	1,426.0	57.26	25.902	
8,200.0	8,157.9	7,989.2	7,909.7	31.2	31.3	-146.49	-823.0	-336.7	1,508.8	1,450.9	57.95	26.038	
8,300.0	8,257.3	8,085.9	8,004.8	31.6	31.8	-146.43	-839.0	-343.8	1,534.4	1,475.7	58.69	26.145	
8,373.0	8,329.8	8,156.4	8,074.2	31.9	32.1	-146.40	-850.7	-349.0	1,553.0	1,493.8	59.23	26.221	
8,400.0	8,356.7	8,182.6	8,099.9	32.0	32.2	-146.44	-855.1	-350.9	1,559.9	1,500.4	59.43	26.248	
8,500.0	8,456.3	8,309.7	8,225.0	32.4	32.8	-146.53	-875.4	-360.0	1,583.3	1,522.9	60.43	26.200	
8,600.0	8,556.1	8,468.3	8,382.1	32.7	33.4	-146.55	-895.7	-369.0	1,601.4	1,539.8	61.64	25.982	
8,700.0	8,656.0	8,629.4	8,542.4	33.1	34.1	-146.54	-910.2	-375.5	1,613.6	1,550.9	62.75	25.715	
8,795.0	8,751.0	8,784.0	8,696.7	33.4	34.6	179.96	-918.4	-379.1	1,619.6	1,555.9	63.72	25.419	
8,800.0	8,756.0	8,792.1	8,704.8	33.4	34.6	88.06	-918.6	-379.3	1,619.8	1,556.0	63.76	25.403	
8,850.0	8,805.9	8,873.6	8,786.2	33.6	34.9	88.14	-920.5	-380.1	1,620.8	1,556.6	64.21	25.242	
8,900.0	8,855.4	8,943.7	8,856.4	33.7	35.1	88.47	-920.8	-380.2	1,620.8	1,556.2	64.58	25.096	
8,950.0	8,904.1	9,007.6	8,905.1	33.8	35.3	88.89	-920.8	-380.2	1,620.5	1,555.6	64.92	24.962	
9,000.0	8,951.6	9,040.0	8,952.6	34.0	35.4	89.43	-920.8	-380.2	1,620.3	1,555.1	65.14	24.873	
9,044.5	8,992.7	9,081.0	8,993.7	34.0	35.5	90.00	-920.8	-380.2	1,620.2	1,554.8	65.37	24.784	
9,050.0	8,997.6	9,086.0	8,998.6	34.1	35.5	90.07	-920.8	-380.2	1,620.2	1,554.8	65.40	24.773	
9,100.0	9,041.8	9,130.1	9,042.8	34.1	35.7	90.79	-920.8	-380.2	1,620.4	1,554.8	65.64	24.685	
9,150.0	9,083.7	9,172.0	9,084.7	34.2	35.8	91.53	-920.8	-380.2	1,621.1	1,555.2	65.87	24.609	
9,200.0	9,123.1	9,211.4	9,124.1	34.3	35.9	92.25	-920.8	-380.2	1,622.4	1,556.3	66.09	24.548	
9,250.0	9,169.6	9,248.0	9,160.6	34.3	36.0	92.92	-920.8	-380.2	1,624.5	1,558.2	66.30	24.502	
9,300.0	9,193.1	9,281.4	9,194.1	34.3	36.1	93.48	-920.8	-380.2	1,627.6	1,561.1	66.50	24.474	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
9,350.0	9,223.2	9,311.5	9,224.2	34.4	36.2	93.90	-920.8	-380.2	1,631.9	1,565.2	66.70	24.465	
9,400.0	9,249.7	9,338.0	9,250.7	34.4	36.3	94.13	-920.8	-380.2	1,637.5	1,570.6	66.90	24.475	
9,450.0	9,272.4	9,360.7	9,273.4	34.4	36.4	94.13	-920.8	-380.2	1,644.5	1,577.4	67.11	24.506	
9,500.0	9,291.1	9,379.4	9,292.1	34.4	36.4	93.87	-920.8	-380.2	1,653.1	1,585.8	67.31	24.559	
9,550.0	9,305.7	9,394.0	9,306.7	34.4	36.5	93.33	-920.8	-380.2	1,663.3	1,595.7	67.52	24.633	
9,600.0	9,316.1	9,404.4	9,317.1	34.5	36.5	92.48	-920.8	-380.2	1,675.0	1,607.3	67.73	24.730	
9,650.0	9,322.2	9,410.5	9,323.2	34.8	36.5	91.32	-920.8	-380.2	1,688.3	1,620.3	67.94	24.850	
9,676.9	9,323.7	9,412.0	9,324.7	35.0	36.5	90.56	-920.8	-380.2	1,696.0	1,628.0	68.05	24.924	
9,700.0	9,324.4	9,412.7	9,325.4	35.1	36.5	90.59	-920.8	-380.2	1,703.0	1,634.8	68.14	24.991	
9,800.0	9,327.6	9,415.9	9,328.6	35.9	36.5	90.70	-920.8	-380.2	1,736.4	1,667.8	68.62	25.307	
9,900.0	9,330.7	9,419.0	9,331.7	36.8	36.5	90.81	-920.8	-380.2	1,775.0	1,705.8	69.16	25.666	
10,000.0	9,333.9	10,217.8	9,913.6	37.9	37.7	109.53	-980.0	76.6	1,800.0	1,730.4	69.68	25.834	
10,100.0	9,337.0	10,375.4	9,967.5	39.1	37.9	110.90	-995.6	223.9	1,818.2	1,747.0	71.20	25.538	
10,200.0	9,340.1	10,538.5	10,015.2	40.3	38.9	112.06	-1,009.2	379.3	1,833.5	1,760.3	73.18	25.055	
10,300.0	9,343.3	10,706.4	10,055.3	41.7	40.5	113.00	-1,020.4	541.8	1,845.3	1,769.7	75.63	24.400	
10,400.0	9,346.4	10,877.9	10,086.8	43.2	42.6	113.70	-1,028.9	710.2	1,853.6	1,775.1	78.57	23.592	
10,500.0	9,349.5	11,052.1	10,108.9	44.8	44.9	114.16	-1,034.5	882.8	1,858.1	1,776.2	81.95	22.675	
10,600.0	9,352.7	11,227.6	10,121.0	46.4	47.6	114.37	-1,036.9	1,057.9	1,858.7	1,773.0	85.71	21.686	
10,700.0	9,355.8	11,376.8	10,123.5	48.1	50.0	114.36	-1,036.5	1,207.0	1,855.6	1,766.1	89.43	20.748	
10,800.0	9,358.9	11,476.7	10,123.6	49.9	51.7	114.32	-1,035.8	1,307.0	1,851.6	1,759.0	92.65	19.985	
10,900.0	9,362.0	11,576.6	10,123.8	51.7	53.4	114.27	-1,035.1	1,406.9	1,847.8	1,751.8	95.98	19.252	
11,000.0	9,365.1	11,676.5	10,124.0	53.6	55.2	114.22	-1,034.4	1,506.8	1,844.1	1,744.7	99.40	18.551	
11,100.0	9,368.2	11,776.4	10,124.2	55.6	57.0	114.18	-1,033.7	1,606.7	1,840.4	1,737.5	102.92	17.882	
11,200.0	9,371.3	11,876.4	10,124.3	57.5	58.9	114.13	-1,033.0	1,706.6	1,836.8	1,730.3	106.52	17.245	
11,300.0	9,374.4	11,976.3	10,124.5	59.5	60.8	114.08	-1,032.3	1,806.5	1,833.4	1,723.2	110.19	16.639	
11,400.0	9,377.5	12,076.2	10,124.7	61.5	62.8	114.03	-1,031.6	1,906.5	1,830.0	1,716.0	113.92	16.063	
11,500.0	9,380.6	12,176.1	10,124.8	63.6	64.8	113.97	-1,030.9	2,006.4	1,826.7	1,709.0	117.72	15.517	
11,600.0	9,383.6	12,276.1	10,125.0	65.7	66.8	113.92	-1,030.2	2,106.3	1,823.5	1,701.9	121.58	14.998	
11,700.0	9,386.7	12,376.0	10,125.2	67.8	68.8	113.86	-1,029.5	2,206.3	1,820.4	1,694.9	125.48	14.507	
11,800.0	9,389.8	12,475.9	10,125.3	69.9	70.9	113.81	-1,028.8	2,306.2	1,817.3	1,687.9	129.44	14.040	
11,900.0	9,392.9	12,575.9	10,125.5	72.1	73.0	113.75	-1,028.1	2,406.1	1,814.4	1,681.0	133.43	13.598	
12,000.0	9,395.9	12,675.8	10,125.7	74.3	75.1	113.69	-1,027.4	2,506.1	1,811.5	1,674.1	137.47	13.178	
12,100.0	9,399.0	12,775.8	10,125.9	76.5	77.2	113.63	-1,026.7	2,606.0	1,808.8	1,667.2	141.55	12.779	
12,200.0	9,402.0	12,875.7	10,126.0	78.7	79.4	113.57	-1,026.0	2,706.0	1,806.1	1,660.5	145.66	12.400	
12,300.0	9,405.1	12,975.7	10,126.2	80.9	81.5	113.50	-1,025.3	2,805.9	1,803.6	1,653.8	149.80	12.040	
12,400.0	9,408.1	13,075.6	10,126.4	83.1	83.7	113.44	-1,024.6	2,905.8	1,801.1	1,647.1	153.97	11.698	
12,500.0	9,411.2	13,175.6	10,126.5	85.4	85.9	113.37	-1,023.9	3,005.8	1,798.7	1,640.5	158.17	11.372	
12,600.0	9,414.2	13,275.5	10,126.7	87.6	88.1	113.31	-1,023.2	3,105.7	1,796.4	1,634.0	162.40	11.062	
12,700.0	9,417.3	13,375.5	10,126.9	89.9	90.4	113.24	-1,022.5	3,205.7	1,794.2	1,627.5	166.65	10.766	
12,800.0	9,420.3	13,475.4	10,127.1	92.2	92.6	113.17	-1,021.8	3,305.6	1,792.1	1,621.1	170.93	10.484	
12,900.0	9,423.3	13,575.4	10,127.2	94.5	94.8	113.10	-1,021.1	3,405.6	1,790.1	1,614.8	175.23	10.216	
13,000.0	9,426.3	13,675.3	10,127.4	96.8	97.1	113.03	-1,020.4	3,505.5	1,788.1	1,608.6	179.55	9.959	
13,100.0	9,429.4	13,775.3	10,127.6	99.1	99.3	112.96	-1,019.7	3,605.5	1,786.3	1,602.4	183.89	9.714	
13,200.0	9,432.4	13,875.2	10,127.7	101.4	101.6	112.88	-1,019.0	3,705.4	1,784.5	1,596.3	188.25	9.480	
13,300.0	9,435.4	13,975.2	10,127.9	103.7	103.9	112.81	-1,018.3	3,805.4	1,782.9	1,590.3	192.63	9.256	
13,400.0	9,438.4	14,075.2	10,128.1	106.0	106.2	112.73	-1,017.6	3,905.4	1,781.3	1,584.3	197.02	9.041	
13,500.0	9,441.4	14,175.1	10,128.3	108.3	108.5	112.65	-1,016.9	4,005.3	1,779.9	1,578.4	201.44	8.836	
13,600.0	9,444.4	14,275.1	10,128.4	110.7	110.8	112.57	-1,016.2	4,105.3	1,778.5	1,572.6	205.87	8.639	
13,700.0	9,447.4	14,375.0	10,128.6	113.0	113.1	112.49	-1,015.5	4,205.2	1,777.2	1,566.9	210.31	8.450	
13,800.0	9,450.4	14,475.0	10,128.8	115.3	115.4	112.41	-1,014.8	4,305.2	1,776.0	1,561.3	214.77	8.269	
13,858.5	9,452.1	14,533.5	10,128.9	116.7	116.8	112.36	-1,014.3	4,363.7	1,775.4	1,558.0	217.39	8.167	
13,900.0	9,453.3	14,575.0	10,128.9	117.7	117.7	112.33	-1,014.1	4,405.1	1,774.9	1,555.7	219.24	8.096	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Barry Miller - Barry Miller Fed 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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,000.0	9,456.3	14,674.9	10,129.1	120.0	120.0	112.25	-1,013.3	4,505.1	1,773.8	1,550.1	223.73	7.928	
14,100.0	9,459.3	14,774.9	10,129.3	122.4	122.4	112.16	-1,012.6	4,605.1	1,772.8	1,544.5	228.23	7.767	
14,200.0	9,462.3	14,874.8	10,129.4	124.7	124.7	112.08	-1,011.9	4,705.0	1,771.7	1,538.9	232.74	7.612	
14,300.0	9,465.3	14,974.8	10,129.6	127.1	127.0	111.99	-1,011.2	4,805.0	1,770.6	1,533.4	237.27	7.463	
14,400.0	9,468.3	15,074.8	10,129.8	129.5	129.4	111.91	-1,010.5	4,904.9	1,769.6	1,527.8	241.80	7.318	
14,500.0	9,471.2	15,174.7	10,130.0	131.8	131.7	111.83	-1,009.8	5,004.9	1,768.5	1,522.1	246.35	7.179	
14,600.0	9,474.2	15,274.7	10,130.1	134.2	134.1	111.74	-1,009.1	5,104.9	1,767.4	1,516.5	250.90	7.044	
14,700.0	9,477.2	15,374.6	10,130.3	136.6	136.4	111.66	-1,008.4	5,204.8	1,766.4	1,510.9	255.47	6.914	
14,800.0	9,480.2	15,474.6	10,130.5	139.0	138.8	111.57	-1,007.7	5,304.8	1,765.3	1,505.3	260.04	6.789	
14,900.0	9,483.2	15,574.6	10,130.6	141.3	141.1	111.49	-1,007.0	5,404.7	1,764.3	1,499.7	264.63	6.667	
15,000.0	9,486.2	15,674.5	10,130.8	143.7	143.5	111.40	-1,006.3	5,504.7	1,763.2	1,494.0	269.22	6.549	
15,100.0	9,489.1	15,774.5	10,131.0	146.1	145.8	111.32	-1,005.6	5,604.6	1,762.2	1,488.4	273.82	6.436	
15,200.0	9,492.1	15,874.4	10,131.2	148.5	148.2	111.23	-1,004.9	5,704.6	1,761.2	1,482.7	278.43	6.325	
15,300.0	9,495.1	15,974.4	10,131.3	150.9	150.6	111.15	-1,004.2	5,804.6	1,760.1	1,477.1	283.05	6.218	
15,400.0	9,498.1	16,074.4	10,131.5	153.3	152.9	111.06	-1,003.5	5,904.5	1,759.1	1,471.4	287.68	6.115	
15,500.0	9,501.1	16,174.3	10,131.7	155.7	155.3	110.98	-1,002.8	6,004.5	1,758.1	1,465.8	292.31	6.014	
15,600.0	9,504.1	16,274.3	10,131.8	158.1	157.7	110.89	-1,002.1	6,104.4	1,757.0	1,460.1	296.96	5.917	
15,700.0	9,507.0	16,374.2	10,132.0	160.5	160.1	110.81	-1,001.4	6,204.4	1,756.0	1,454.4	301.61	5.822	
15,800.0	9,510.0	16,474.2	10,132.2	162.9	162.5	110.72	-1,000.7	6,304.3	1,755.0	1,448.8	306.27	5.730	
15,900.0	9,513.0	16,574.2	10,132.4	165.3	164.8	110.63	-1,000.0	6,404.3	1,754.0	1,443.1	310.93	5.641	
16,000.0	9,516.0	16,674.1	10,132.5	167.7	167.2	110.55	-999.3	6,504.3	1,753.0	1,437.4	315.61	5.554	
16,100.0	9,519.0	16,774.1	10,132.7	170.1	169.6	110.46	-998.6	6,604.2	1,752.0	1,431.7	320.29	5.470	
16,200.0	9,522.0	16,874.0	10,132.9	172.5	172.0	110.38	-997.9	6,704.2	1,751.0	1,426.0	324.97	5.388	
16,300.0	9,524.9	16,974.0	10,133.0	174.9	174.4	110.29	-997.2	6,804.1	1,750.0	1,420.3	329.67	5.308	
16,400.0	9,527.9	17,074.0	10,133.2	177.3	176.8	110.20	-996.5	6,904.1	1,749.0	1,414.7	334.37	5.231	
16,500.0	9,530.9	17,173.9	10,133.4	179.7	179.2	110.12	-995.8	7,004.1	1,748.0	1,409.0	339.07	5.155	
16,600.0	9,533.9	17,273.9	10,133.5	182.1	181.5	110.03	-995.1	7,104.0	1,747.1	1,403.3	343.78	5.082	
16,700.0	9,536.9	17,373.9	10,133.7	184.5	183.9	109.95	-994.4	7,204.0	1,746.1	1,397.6	348.50	5.010	
16,737.8	9,538.0	17,411.7	10,133.8	185.4	184.8	109.91	-994.1	7,241.8	1,745.7	1,395.4	350.29	4.984	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	179.93	-30.0	0.0	30.0				
100.0	100.0	100.1	100.1	0.1	0.1	136.20	-29.9	0.0	30.5	30.2	0.28	107.923	
200.0	200.0	200.1	200.1	0.5	0.4	139.70	-29.5	-0.2	32.1	31.2	0.86	37.081	
300.0	299.9	300.2	300.2	0.9	0.7	144.96	-28.8	-0.5	34.9	33.3	1.58	22.040	
400.0	399.7	400.4	400.4	1.2	1.1	151.54	-27.2	-1.6	38.1	35.8	2.31	16.508	
500.0	499.6	500.7	500.6	1.6	1.5	158.22	-24.4	-3.1	40.7	37.6	3.03	13.434	
600.0	599.5	600.4	600.3	2.0	1.8	164.61	-21.2	-4.9	43.6	39.8	3.74	11.633	
700.0	699.3	700.3	700.1	2.3	2.2	170.28	-17.9	-6.7	46.8	42.4	4.46	10.492	
800.0	799.2	800.5	800.2	2.7	2.5	175.41	-14.3	-8.6	50.3	45.1	5.19	9.706	
900.0	899.0	900.8	900.4	3.1	2.9	-179.26	-9.4	-10.4	53.3	47.4	5.91	9.011	
1,000.0	998.9	1,001.0	1,000.4	3.4	3.3	-174.04	-3.7	-11.9	55.8	49.2	6.64	8.414	
1,100.0	1,098.8	1,101.1	1,100.3	3.8	3.6	-169.46	2.2	-12.9	58.3	50.9	7.36	7.915	
1,200.0	1,198.6	1,201.5	1,200.5	4.2	4.0	-165.25	8.3	-13.5	60.6	52.5	8.09	7.492 SF	
1,300.0	1,298.5	1,220.0	1,219.0	4.5	4.1	-164.50	9.5	-13.5	102.7	95.6	7.15	14.365	
1,400.0	1,398.4	1,220.0	1,219.0	4.9	4.1	-132.73	9.5	-13.5	192.4	185.9	6.50	29.599	
1,500.0	1,498.2	1,220.0	1,219.0	5.2	4.1	-104.69	9.5	-13.5	288.6	282.3	6.26	46.069	
1,600.0	1,597.9	1,220.0	1,219.0	5.6	4.1	-84.52	9.5	-13.5	386.4	380.3	6.13	63.074	
1,700.0	1,697.5	1,220.0	1,219.0	5.9	4.1	-69.76	9.5	-13.5	484.9	478.9	6.02	80.484	
1,729.5	1,726.8	1,220.0	1,219.0	6.1	4.1	-66.12	9.5	-13.5	514.0	508.0	6.00	85.708	
1,800.0	1,796.9	1,220.0	1,219.0	6.3	4.1	-66.12	9.5	-13.5	583.7	577.7	5.94	98.235	
1,900.0	1,896.3	1,220.0	1,219.0	6.7	4.1	-66.12	9.5	-13.5	682.8	676.9	5.87	116.258	
2,000.0	1,995.7	1,220.0	1,219.0	7.0	4.1	-66.12	9.5	-13.5	782.2	776.4	5.81	134.584	
2,100.0	2,095.1	1,220.0	1,219.0	7.4	4.1	-66.12	9.5	-13.5	881.7	875.9	5.76	153.182	
2,200.0	2,194.5	1,220.0	1,219.0	7.8	4.1	-66.12	9.5	-13.5	981.3	975.6	5.70	172.017	
2,300.0	2,293.9	1,220.0	1,219.0	8.1	4.1	-66.12	9.5	-13.5	1,080.9	1,075.3	5.66	191.049	
2,400.0	2,393.3	1,220.0	1,219.0	8.5	4.1	-66.12	9.5	-13.5	1,180.7	1,175.1	5.62	210.231	
2,500.0	2,492.6	1,220.0	1,219.0	8.9	4.1	-66.12	9.5	-13.5	1,280.4	1,274.9	5.58	229.511	
2,600.0	2,592.0	1,220.0	1,219.0	9.3	4.1	-66.12	9.5	-13.5	1,380.2	1,374.7	5.55	248.831	
2,700.0	2,691.4	1,220.0	1,219.0	9.6	4.1	-66.12	9.5	-13.5	1,480.1	1,474.6	5.52	268.127	
2,800.0	2,790.8	1,220.0	1,219.0	10.0	4.1	-66.12	9.5	-13.5	1,579.9	1,574.4	5.50	287.330	
2,900.0	2,890.2	1,220.0	1,219.0	10.4	4.1	-66.12	9.5	-13.5	1,679.8	1,674.3	5.48	306.366	
3,000.0	2,989.6	1,220.0	1,219.0	10.8	4.1	-66.12	9.5	-13.5	1,779.7	1,774.2	5.47	325.159	
3,100.0	3,089.0	1,220.0	1,219.0	11.2	4.1	-66.12	9.5	-13.5	1,879.6	1,874.1	5.47	343.634	
3,200.0	3,188.4	1,220.0	1,219.0	11.6	4.1	-66.12	9.5	-13.5	1,979.5	1,974.0	5.47	361.714	
3,300.0	3,287.8	1,220.0	1,219.0	11.9	4.1	-66.12	9.5	-13.5	2,079.4	2,073.9	5.48	379.326	
3,400.0	3,387.2	1,220.0	1,219.0	12.3	4.1	-66.12	9.5	-13.5	2,179.3	2,173.8	5.50	396.401	
3,500.0	3,486.5	1,220.0	1,219.0	12.7	4.1	-66.12	9.5	-13.5	2,279.3	2,273.7	5.52	412.878	
3,600.0	3,585.9	1,220.0	1,219.0	13.1	4.1	-66.12	9.5	-13.5	2,379.2	2,373.6	5.55	428.702	
3,700.0	3,685.3	1,220.0	1,219.0	13.5	4.1	-66.12	9.5	-13.5	2,479.1	2,473.5	5.59	443.828	
3,800.0	3,784.7	1,220.0	1,219.0	13.9	4.1	-66.12	9.5	-13.5	2,579.1	2,573.4	5.63	458.221	
3,900.0	3,884.1	1,220.0	1,219.0	14.3	4.1	-66.12	9.5	-13.5	2,679.0	2,673.3	5.68	471.855	
4,000.0	3,983.5	1,220.0	1,219.0	14.7	4.1	-66.12	9.5	-13.5	2,779.0	2,773.2	5.73	484.714	
4,100.0	4,082.9	1,220.0	1,219.0	15.1	4.1	-66.12	9.5	-13.5	2,878.9	2,873.1	5.80	496.790	
4,200.0	4,182.3	1,220.0	1,219.0	15.5	4.1	-66.12	9.5	-13.5	2,978.9	2,973.0	5.86	508.086	
4,300.0	4,281.7	1,220.0	1,219.0	15.8	4.1	-66.12	9.5	-13.5	3,078.9	3,072.9	5.94	518.610	
4,400.0	4,381.1	1,220.0	1,219.0	16.2	4.1	-66.12	9.5	-13.5	3,178.8	3,172.8	6.02	528.376	
4,500.0	4,480.4	1,220.0	1,219.0	16.6	4.1	-66.12	9.5	-13.5	3,278.8	3,272.7	6.10	537.405	
4,600.0	4,579.8	1,220.0	1,219.0	17.0	4.1	-66.12	9.5	-13.5	3,378.8	3,372.6	6.19	545.720	
4,700.0	4,679.2	1,220.0	1,219.0	17.4	4.1	-66.12	9.5	-13.5	3,478.7	3,472.4	6.29	553.348	
4,800.0	4,778.6	1,220.0	1,219.0	17.8	4.1	-66.12	9.5	-13.5	3,578.7	3,572.3	6.39	560.317	
4,900.0	4,878.0	1,220.0	1,219.0	18.2	4.1	-66.12	9.5	-13.5	3,678.7	3,672.2	6.49	566.659	
5,000.0	4,977.4	1,220.0	1,219.0	18.6	4.1	-66.12	9.5	-13.5	3,778.7	3,772.1	6.60	572.405	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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		
5,100.0	5,076.8	1,220.0	1,219.0	19.0	4.1	-66.12	9.5	-13.5	3,878.6	3,871.9	6.72	577.584		
5,200.0	5,176.2	1,220.0	1,219.0	19.4	4.1	-66.12	9.5	-13.5	3,978.6	3,971.8	6.83	582.228		
5,300.0	5,275.6	1,220.0	1,219.0	19.8	4.1	-66.12	9.5	-13.5	4,078.6	4,071.6	6.96	586.368		
5,400.0	5,375.0	1,220.0	1,219.0	20.2	4.1	-66.12	9.5	-13.5	4,178.6	4,171.5	7.08	590.033		
5,500.0	5,474.3	1,220.0	1,219.0	20.6	4.1	-66.12	9.5	-13.5	4,278.5	4,271.3	7.21	593.250		
5,600.0	5,573.7	1,220.0	1,219.0	20.9	4.1	-66.12	9.5	-13.5	4,378.5	4,371.2	7.35	596.048		
5,700.0	5,673.1	1,220.0	1,219.0	21.3	4.1	-66.12	9.5	-13.5	4,478.5	4,471.0	7.48	598.452		
5,800.0	5,772.5	1,220.0	1,219.0	21.7	4.1	-66.12	9.5	-13.5	4,578.5	4,570.9	7.62	600.487		
5,900.0	5,871.9	1,220.0	1,219.0	22.1	4.1	-66.12	9.5	-13.5	4,678.5	4,670.7	7.77	602.176		
6,000.0	5,971.3	1,220.0	1,219.0	22.5	4.1	-66.12	9.5	-13.5	4,778.5	4,770.5	7.92	603.542		
6,100.0	6,070.7	1,220.0	1,219.0	22.9	4.1	-66.12	9.5	-13.5	4,878.4	4,870.4	8.07	604.605		
6,200.0	6,170.1	1,220.0	1,219.0	23.3	4.1	-66.12	9.5	-13.5	4,978.4	4,970.2	8.22	605.385		
6,300.0	6,269.5	1,220.0	1,219.0	23.7	4.1	-66.12	9.5	-13.5	5,078.4	5,070.0	8.38	605.901		
6,400.0	6,368.9	1,220.0	1,219.0	24.1	4.1	-66.12	9.5	-13.5	5,178.4	5,169.9	8.54	606.170		
6,500.0	6,468.2	1,220.0	1,219.0	24.5	4.1	-66.12	9.5	-13.5	5,278.4	5,269.7	8.71	606.208		
6,600.0	6,567.6	1,220.0	1,219.0	24.9	4.1	-66.12	9.5	-13.5	5,378.4	5,369.5	8.87	606.031		
6,700.0	6,667.0	1,220.0	1,219.0	25.3	4.1	-66.12	9.5	-13.5	5,478.4	5,469.3	9.05	605.654		
6,800.0	6,766.4	1,220.0	1,219.0	25.7	4.1	-66.12	9.5	-13.5	5,578.4	5,569.1	9.22	605.089		
6,900.0	6,865.8	1,220.0	1,219.0	26.1	4.1	-66.12	9.5	-13.5	5,678.3	5,668.9	9.40	604.349		
7,000.0	6,965.2	1,220.0	1,219.0	26.5	4.1	-66.12	9.5	-13.5	5,778.3	5,768.8	9.58	603.447		
7,100.0	7,064.6	1,220.0	1,219.0	26.9	4.1	-66.12	9.5	-13.5	5,878.3	5,868.6	9.76	602.394		
7,200.0	7,164.0	1,220.0	1,219.0	27.3	4.1	-66.12	9.5	-13.5	5,978.3	5,968.4	9.94	601.199		
7,300.0	7,263.4	1,220.0	1,219.0	27.6	4.1	-66.12	9.5	-13.5	6,078.3	6,068.2	10.13	599.873		
7,400.0	7,362.8	1,220.0	1,219.0	28.0	4.1	-66.12	9.5	-13.5	6,178.3	6,168.0	10.32	598.425		
7,500.0	7,462.2	1,220.0	1,219.0	28.4	4.1	-66.12	9.5	-13.5	6,278.3	6,267.8	10.52	596.864		
7,600.0	7,561.5	1,220.0	1,219.0	28.8	4.1	-66.12	9.5	-13.5	6,378.3	6,367.6	10.72	595.198		
7,700.0	7,660.9	1,220.0	1,219.0	29.2	4.1	-66.12	9.5	-13.5	6,478.3	6,467.4	10.92	593.433		
7,800.0	7,760.3	1,220.0	1,219.0	29.6	4.1	-66.12	9.5	-13.5	6,578.3	6,567.1	11.12	591.579		
7,900.0	7,859.7	1,220.0	1,219.0	30.0	4.1	-66.12	9.5	-13.5	6,678.3	6,666.9	11.33	589.640		
8,000.0	7,959.1	1,220.0	1,219.0	30.4	4.1	-66.12	9.5	-13.5	6,778.2	6,766.7	11.54	587.624		
8,100.0	8,058.5	1,220.0	1,219.0	30.8	4.1	-66.12	9.5	-13.5	6,878.2	6,866.5	11.75	585.536		
8,200.0	8,157.9	1,220.0	1,219.0	31.2	4.1	-66.12	9.5	-13.5	6,978.2	6,966.3	11.96	583.382		
8,300.0	8,257.3	1,220.0	1,219.0	31.6	4.1	-66.12	9.5	-13.5	7,078.2	7,066.0	12.18	581.168		
8,373.0	8,329.8	1,220.0	1,219.0	31.9	4.1	-66.12	9.5	-13.5	7,151.2	7,138.9	12.34	579.516		
8,400.0	8,356.7	1,220.0	1,219.0	32.0	4.1	-102.63	9.5	-13.5	7,178.2	7,165.8	12.40	578.897		
8,500.0	8,456.3	1,220.0	1,219.0	32.4	4.1	-159.77	9.5	-13.5	7,278.2	7,265.6	12.62	576.581		
8,600.0	8,556.1	1,220.0	1,219.0	32.7	4.1	-169.19	9.5	-13.5	7,378.1	7,365.3	12.85	574.233		
8,700.0	8,656.0	1,220.0	1,219.0	33.1	4.1	-172.68	9.5	-13.5	7,477.9	7,464.8	13.08	571.860		
8,795.0	8,751.0	1,220.0	1,219.0	33.4	4.1	152.03	9.5	-13.5	7,572.5	7,559.2	13.29	569.585		
8,800.0	8,756.0	1,220.0	1,219.0	33.4	4.1	56.17	9.5	-13.5	7,577.4	7,564.1	13.31	569.493		
8,850.0	8,805.9	1,220.0	1,219.0	33.6	4.1	31.39	9.5	-13.5	7,627.0	7,613.5	13.42	568.370		
8,900.0	8,855.4	1,220.0	1,219.0	33.7	4.1	21.03	9.5	-13.5	7,675.9	7,662.3	13.53	567.425		
8,950.0	8,904.1	1,220.0	1,219.0	33.8	4.1	15.73	9.5	-13.5	7,723.8	7,710.1	13.63	566.637		
9,000.0	8,951.6	1,220.0	1,219.0	34.0	4.1	12.58	9.5	-13.5	7,770.4	7,756.6	13.73	565.994		
9,050.0	8,997.6	1,220.0	1,219.0	34.1	4.1	10.53	9.5	-13.5	7,815.3	7,801.5	13.82	565.470		
9,100.0	9,041.8	1,220.0	1,219.0	34.1	4.1	9.09	9.5	-13.5	7,858.3	7,844.3	13.91	565.028		
9,150.0	9,083.7	1,220.0	1,219.0	34.2	4.1	8.05	9.5	-13.5	7,899.0	7,885.0	13.99	564.617		
9,200.0	9,123.1	1,220.0	1,219.0	34.3	4.1	7.26	9.5	-13.5	7,937.1	7,923.1	14.07	564.172		
9,250.0	9,159.6	1,220.0	1,219.0	34.3	4.1	6.65	9.5	-13.5	7,972.5	7,958.4	14.15	563.612		
9,300.0	9,193.1	1,220.0	1,219.0	34.3	4.1	6.18	9.5	-13.5	8,004.9	7,990.7	14.22	562.848		
9,350.0	9,223.2	1,220.0	1,219.0	34.4	4.1	5.80	9.5	-13.5	8,034.1	8,019.8	14.30	561.781		
9,400.0	9,249.7	1,220.0	1,219.0	34.4	4.1	5.50	9.5	-13.5	8,059.9	8,045.5	14.38	560.310		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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		
9,450.0	9,272.4	1,220.0	1,219.0	34.4	4.1	5.27	9.5	-13.5	8,082.1	8,067.6	14.48	558.342		
9,500.0	9,291.1	1,220.0	1,219.0	34.4	4.1	5.09	9.5	-13.5	8,100.5	8,086.0	14.57	555.794		
9,550.0	9,305.7	1,220.0	1,219.0	34.4	4.1	4.96	9.5	-13.5	8,115.2	8,100.5	14.69	552.604		
9,600.0	9,316.1	1,220.0	1,219.0	34.5	4.1	4.86	9.5	-13.5	8,126.0	8,111.1	14.81	548.738		
9,650.0	9,322.2	1,220.0	1,219.0	34.8	4.1	4.81	9.5	-13.5	8,132.7	8,117.8	14.94	544.191		
9,676.9	9,323.7	1,220.0	1,219.0	35.0	4.1	4.79	9.5	-13.5	8,134.7	8,119.7	15.02	541.490		
9,700.0	9,324.4	1,220.0	1,219.0	35.1	4.1	4.79	9.5	-13.5	8,135.9	8,120.8	15.09	539.018		
9,800.0	9,327.6	1,220.0	1,219.0	35.9	4.1	4.79	9.5	-13.5	8,142.0	8,126.6	15.44	527.273		
9,900.0	9,330.7	1,220.0	1,219.0	36.8	4.1	4.79	9.5	-13.5	8,149.3	8,133.5	15.85	514.310		
10,000.0	9,333.9	1,220.0	1,219.0	37.9	4.1	4.78	9.5	-13.5	8,157.8	8,141.5	16.30	500.529		
10,100.0	9,337.0	1,220.0	1,219.0	39.1	4.1	4.78	9.5	-13.5	8,167.6	8,150.8	16.80	486.281		
10,200.0	9,340.1	1,220.0	1,219.0	40.3	4.1	4.77	9.5	-13.5	8,178.6	8,161.2	17.33	471.864		
10,300.0	9,343.3	1,220.0	1,219.0	41.7	4.1	4.77	9.5	-13.5	8,190.7	8,172.8	17.90	457.514		
10,400.0	9,346.4	1,220.0	1,219.0	43.2	4.1	4.76	9.5	-13.5	8,204.1	8,185.6	18.50	443.414		
10,500.0	9,349.5	1,220.0	1,219.0	44.8	4.1	4.76	9.5	-13.5	8,218.7	8,199.6	19.13	429.700		
10,600.0	9,352.7	1,220.0	1,219.0	46.4	4.1	4.75	9.5	-13.5	8,234.4	8,214.7	19.77	416.464		
10,700.0	9,355.8	1,220.0	1,219.0	48.1	4.1	4.74	9.5	-13.5	8,251.4	8,231.0	20.44	403.768		
10,800.0	9,358.9	1,220.0	1,219.0	49.9	4.1	4.73	9.5	-13.5	8,269.5	8,248.4	21.11	391.649		
10,900.0	9,362.0	1,220.0	1,219.0	51.7	4.1	4.73	9.5	-13.5	8,288.8	8,267.0	21.81	380.122		
11,000.0	9,365.1	1,220.0	1,219.0	53.6	4.1	4.72	9.5	-13.5	8,309.3	8,286.8	22.51	369.190		
11,100.0	9,368.2	1,220.0	1,219.0	55.6	4.1	4.70	9.5	-13.5	8,330.9	8,307.7	23.22	358.844		
11,200.0	9,371.3	1,220.0	1,219.0	57.5	4.1	4.69	9.5	-13.5	8,353.7	8,329.8	23.93	349.068		
11,300.0	9,374.4	1,220.0	1,219.0	59.5	4.1	4.68	9.5	-13.5	8,377.6	8,352.9	24.65	339.843		
11,400.0	9,377.5	1,220.0	1,219.0	61.5	4.1	4.67	9.5	-13.5	8,402.6	8,377.2	25.37	331.144		
11,500.0	9,380.6	1,220.0	1,219.0	63.6	4.1	4.66	9.5	-13.5	8,428.7	8,402.7	26.10	322.945		
11,600.0	9,383.6	1,220.0	1,219.0	65.7	4.1	4.64	9.5	-13.5	8,456.0	8,429.2	26.83	315.222		
11,700.0	9,386.7	1,220.0	1,219.0	67.8	4.1	4.63	9.5	-13.5	8,484.3	8,456.8	27.55	307.948		
11,800.0	9,389.8	1,220.0	1,219.0	69.9	4.1	4.61	9.5	-13.5	8,513.8	8,485.5	28.28	301.098		
11,900.0	9,392.9	1,220.0	1,219.0	72.1	4.1	4.60	9.5	-13.5	8,544.3	8,515.3	29.00	294.646		
12,000.0	9,395.9	1,220.0	1,219.0	74.3	4.1	4.58	9.5	-13.5	8,575.8	8,546.1	29.72	288.569		
12,100.0	9,399.0	1,220.0	1,219.0	76.5	4.1	4.56	9.5	-13.5	8,608.4	8,578.0	30.44	282.845		
12,200.0	9,402.0	1,220.0	1,219.0	78.7	4.1	4.55	9.5	-13.5	8,642.1	8,610.9	31.15	277.452		
12,300.0	9,405.1	1,220.0	1,219.0	80.9	4.1	4.53	9.5	-13.5	8,676.7	8,644.9	31.86	272.370		
12,400.0	9,408.1	1,220.0	1,219.0	83.1	4.1	4.51	9.5	-13.5	8,712.4	8,679.9	32.56	267.580		
12,500.0	9,411.2	1,220.0	1,219.0	85.4	4.1	4.49	9.5	-13.5	8,749.1	8,715.8	33.26	263.065		
12,600.0	9,414.2	1,220.0	1,219.0	87.6	4.1	4.47	9.5	-13.5	8,786.8	8,752.8	33.95	258.807		
12,700.0	9,417.3	1,220.0	1,219.0	89.9	4.1	4.45	9.5	-13.5	8,825.4	8,790.8	34.64	254.792		
12,800.0	9,420.3	1,220.0	1,219.0	92.2	4.1	4.42	9.5	-13.5	8,865.0	8,829.7	35.32	251.005		
12,900.0	9,423.3	1,220.0	1,219.0	94.5	4.1	4.40	9.5	-13.5	8,905.6	8,869.6	35.99	247.432		
13,000.0	9,426.3	1,220.0	1,219.0	96.8	4.1	4.38	9.5	-13.5	8,947.1	8,910.4	36.66	244.061		
13,100.0	9,429.4	1,220.0	1,219.0	99.1	4.1	4.36	9.5	-13.5	8,989.5	8,952.2	37.32	240.881		
13,200.0	9,432.4	1,220.0	1,219.0	101.4	4.1	4.33	9.5	-13.5	9,032.8	8,994.9	37.97	237.880		
13,300.0	9,435.4	1,220.0	1,219.0	103.7	4.1	4.31	9.5	-13.5	9,077.1	9,038.4	38.62	235.049		
13,400.0	9,438.4	1,220.0	1,219.0	106.0	4.1	4.28	9.5	-13.5	9,122.2	9,082.9	39.26	232.377		
13,500.0	9,441.4	1,220.0	1,219.0	108.3	4.1	4.25	9.5	-13.5	9,168.1	9,128.3	39.89	229.856		
13,600.0	9,444.4	1,220.0	1,219.0	110.7	4.1	4.23	9.5	-13.5	9,215.0	9,174.5	40.51	227.478		
13,700.0	9,447.4	1,220.0	1,219.0	113.0	4.1	4.20	9.5	-13.5	9,262.7	9,221.5	41.12	225.235		
13,800.0	9,450.4	1,220.0	1,219.0	115.3	4.1	4.17	9.5	-13.5	9,311.2	9,269.5	41.73	223.120		
13,858.5	9,452.1	1,220.0	1,219.0	116.7	4.1	4.15	9.5	-13.5	9,340.0	9,297.9	42.08	221.939		
13,900.0	9,453.3	1,220.0	1,219.0	117.7	4.1	4.15	9.5	-13.5	9,360.5	9,318.2	42.33	221.126		
14,000.0	9,456.3	1,220.0	1,219.0	120.0	4.1	4.15	9.5	-13.5	9,410.7	9,367.7	42.92	219.247		
14,100.0	9,459.3	1,220.0	1,219.0	122.4	4.1	4.15	9.5	-13.5	9,461.6	9,418.1	43.51	217.476		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	9,462.3	1,220.0	1,219.0	124.7	4.1	4.15	9.5	-13.5	9,513.3	9,469.2	44.08	215.808	
14,300.0	9,465.3	1,220.0	1,219.0	127.1	4.1	4.15	9.5	-13.5	9,565.8	9,521.1	44.65	214.239	
14,400.0	9,468.3	1,220.0	1,219.0	129.5	4.1	4.15	9.5	-13.5	9,619.0	9,573.8	45.21	212.762	
14,500.0	9,471.2	1,220.0	1,219.0	131.8	4.1	4.15	9.5	-13.5	9,673.0	9,627.2	45.76	211.374	
14,600.0	9,474.2	1,220.0	1,219.0	134.2	4.1	4.15	9.5	-13.5	9,727.7	9,681.4	46.31	210.071	
14,700.0	9,477.2	1,220.0	1,219.0	136.6	4.1	4.15	9.5	-13.5	9,783.1	9,736.3	46.84	208.847	
14,800.0	9,480.2	1,220.0	1,219.0	139.0	4.1	4.15	9.5	-13.5	9,839.2	9,791.9	47.37	207.701	
14,900.0	9,483.2	1,220.0	1,219.0	141.3	4.1	4.15	9.5	-13.5	9,896.0	9,848.2	47.89	206.627	
15,000.0	9,486.2	1,220.0	1,219.0	143.7	4.1	4.15	9.5	-13.5	9,953.5	9,905.1	48.41	205.622	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	179.93	-30.0	0.0	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	136.08	-30.0	0.0	30.6	30.4	0.27	114.993	
200.0	200.0	200.0	200.0	0.5	0.5	139.27	-30.0	0.0	32.6	31.6	0.98	33.272	
300.0	299.9	300.1	299.9	0.9	0.8	143.78	-30.0	0.0	36.0	34.3	1.70	21.169	
400.0	399.7	400.3	399.7	1.2	1.2	148.18	-30.0	0.0	40.3	37.9	2.42	16.663	
500.0	499.6	500.4	499.6	1.6	1.6	151.70	-30.0	0.0	44.9	41.7	3.14	14.292	
600.0	599.5	600.5	599.5	2.0	1.9	154.57	-30.0	0.0	49.5	45.7	3.86	12.840	
700.0	699.3	700.7	699.3	2.3	2.3	156.94	-30.0	0.0	54.3	49.7	4.58	11.867	
800.0	799.2	800.8	799.2	2.7	2.6	158.93	-30.0	0.0	59.2	53.9	5.30	11.172	
900.0	899.0	901.0	899.0	3.1	3.0	160.61	-30.0	0.0	64.1	58.1	6.01	10.654	
1,000.0	998.9	1,001.1	998.9	3.4	3.4	162.05	-30.0	0.0	69.0	62.3	6.73	10.253	
1,100.0	1,098.8	1,101.2	1,098.8	3.8	3.7	163.30	-30.0	0.0	74.0	66.6	7.45	9.935	
1,200.0	1,198.6	1,201.4	1,198.6	4.2	4.1	164.39	-30.0	0.0	79.1	70.9	8.17	9.677	
1,300.0	1,298.5	1,301.5	1,298.5	4.5	4.4	165.35	-30.0	0.0	84.1	75.2	8.89	9.463	
1,400.0	1,398.4	1,401.6	1,398.4	4.9	4.8	-165.50	-30.0	0.0	89.2	79.6	9.61	9.281	
1,500.0	1,498.2	1,501.8	1,498.2	5.2	5.2	-143.32	-30.0	0.0	94.2	83.9	10.32	9.127	
1,600.0	1,597.9	1,602.1	1,597.9	5.6	5.5	-131.43	-30.0	0.0	99.4	88.4	11.03	9.011	
1,700.0	1,697.5	1,697.5	1,697.5	5.9	5.9	-126.45	-30.0	0.0	105.2	93.4	11.72	8.970	
1,729.5	1,726.8	1,726.9	1,726.9	6.1	6.0	-125.82	-30.0	0.0	107.0	95.1	11.93	8.969	
1,800.0	1,796.9	1,797.4	1,797.4	6.3	6.2	-128.68	-29.6	-0.7	111.6	99.2	12.43	8.977	
1,900.0	1,896.3	1,897.5	1,897.4	6.7	6.6	-131.66	-28.3	-2.9	118.1	104.9	13.14	8.988	
2,000.0	1,995.7	1,997.9	1,997.7	7.0	6.9	-133.56	-26.0	-6.6	124.3	110.4	13.84	8.975	
2,100.0	2,095.1	2,098.4	2,098.1	7.4	7.3	-134.55	-22.9	-11.8	130.0	115.4	14.56	8.929	
2,200.0	2,194.5	2,199.0	2,198.4	7.8	7.6	-134.75	-18.8	-18.6	135.2	119.9	15.28	8.848	
2,300.0	2,293.9	2,299.7	2,298.6	8.1	8.0	-134.25	-13.8	-26.8	139.8	123.8	16.00	8.734	
2,400.0	2,393.3	2,400.2	2,398.5	8.5	8.4	-133.14	-8.0	-36.5	143.8	127.1	16.73	8.595	
2,500.0	2,492.6	2,500.1	2,497.6	8.9	8.7	-131.90	-1.9	-46.6	147.8	130.3	17.47	8.460	
2,600.0	2,592.0	2,600.1	2,596.8	9.3	9.1	-130.73	4.2	-56.7	151.8	133.6	18.21	8.337	
2,700.0	2,691.4	2,700.2	2,696.0	9.6	9.5	-129.62	10.3	-66.8	155.9	137.0	18.96	8.224	
2,800.0	2,790.8	2,800.3	2,795.2	10.0	9.9	-128.56	16.3	-76.9	160.1	140.4	19.71	8.121	
2,900.0	2,890.2	2,900.4	2,894.3	10.4	10.2	-127.56	22.4	-87.0	164.3	143.8	20.47	8.026	
3,000.0	2,989.6	3,000.6	2,993.5	10.8	10.6	-126.61	28.5	-97.1	168.5	147.3	21.23	7.939	
3,100.0	3,089.0	3,100.7	3,092.7	11.2	11.0	-125.70	34.6	-107.2	172.8	150.8	21.99	7.859	
3,200.0	3,188.4	3,200.8	3,191.9	11.6	11.4	-124.84	40.7	-117.3	177.2	154.4	22.76	7.785	
3,300.0	3,287.8	3,301.0	3,291.0	11.9	11.8	-124.02	46.7	-127.3	181.5	158.0	23.53	7.717	
3,400.0	3,387.2	3,398.9	3,390.2	12.3	12.1	-123.24	52.8	-137.4	186.0	161.7	24.29	7.656	
3,500.0	3,486.5	3,501.2	3,489.4	12.7	12.5	-122.50	58.9	-147.5	190.4	165.3	25.07	7.595	
3,600.0	3,585.9	3,601.3	3,588.5	13.1	12.9	-121.79	65.0	-157.6	194.9	169.0	25.84	7.540	
3,700.0	3,685.3	3,701.5	3,687.7	13.5	13.3	-121.11	71.1	-167.7	199.4	172.8	26.62	7.490	
3,800.0	3,784.7	3,801.6	3,786.9	13.9	13.7	-120.46	77.2	-177.8	203.9	176.5	27.40	7.442	
3,900.0	3,884.1	3,901.7	3,886.1	14.3	14.1	-119.84	83.2	-187.9	208.5	180.3	28.18	7.398	
4,000.0	3,983.5	4,001.9	3,985.2	14.7	14.5	-119.25	89.3	-198.0	213.0	184.1	28.96	7.357	
4,100.0	4,082.9	4,102.0	4,084.4	15.1	14.9	-118.68	95.4	-208.1	217.6	187.9	29.74	7.318	
4,200.0	4,182.3	4,202.1	4,183.6	15.5	15.3	-118.13	101.5	-218.2	222.3	191.7	30.52	7.282	
4,300.0	4,281.7	4,302.2	4,282.8	15.8	15.7	-117.61	107.6	-228.3	226.9	195.6	31.31	7.248	
4,400.0	4,381.1	4,402.4	4,381.9	16.2	16.1	-117.11	113.6	-238.4	231.5	199.5	32.09	7.216	
4,500.0	4,480.4	4,502.5	4,481.1	16.6	16.5	-116.63	119.7	-248.4	236.2	203.3	32.88	7.185	
4,600.0	4,579.8	4,602.6	4,580.3	17.0	16.9	-116.17	125.8	-258.5	240.9	207.2	33.66	7.157	
4,700.0	4,679.2	4,702.8	4,679.5	17.4	17.3	-115.72	131.9	-268.6	245.6	211.2	34.45	7.130	
4,800.0	4,778.6	4,802.9	4,778.6	17.8	17.6	-115.29	138.0	-278.7	250.3	215.1	35.23	7.105	
4,900.0	4,878.0	4,903.0	4,877.8	18.2	18.0	-114.88	144.0	-288.8	255.1	219.0	36.02	7.081	
5,000.0	4,977.4	5,003.1	4,977.0	18.6	18.4	-114.48	150.1	-298.9	259.8	223.0	36.81	7.058	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	5,076.8	5,103.3	5,076.2	19.0	18.8	-114.10	156.2	-309.0	264.6	227.0	37.60	7.036	
5,200.0	5,176.2	5,203.4	5,175.3	19.4	19.2	-113.73	162.3	-319.1	269.3	230.9	38.39	7.016	
5,300.0	5,275.6	5,303.5	5,274.5	19.8	19.6	-113.37	168.4	-329.2	274.1	234.9	39.18	6.997	
5,400.0	5,375.0	5,403.7	5,373.7	20.2	20.0	-113.03	174.5	-339.3	278.9	238.9	39.97	6.978	
5,500.0	5,474.3	5,503.8	5,472.9	20.6	20.4	-112.69	180.5	-349.4	283.7	242.9	40.76	6.961	
5,600.0	5,573.7	5,596.2	5,572.1	20.9	20.8	-112.38	186.6	-359.4	288.5	247.0	41.52	6.949	
5,700.0	5,673.1	5,696.4	5,671.9	21.3	21.2	-112.44	191.7	-367.9	293.2	250.9	42.30	6.932	
5,800.0	5,772.5	5,796.6	5,771.8	21.7	21.6	-113.01	195.5	-374.1	297.8	254.8	43.06	6.917	
5,900.0	5,871.9	5,896.6	5,871.7	22.1	21.9	-114.05	197.9	-378.1	302.4	258.6	43.80	6.904	
6,000.0	5,971.3	5,996.3	5,971.3	22.5	22.3	-115.55	198.9	-379.9	307.1	262.5	44.51	6.898	
6,100.0	6,070.7	6,104.4	6,070.7	22.9	22.6	-117.34	199.0	-380.0	312.0	266.8	45.24	6.897 SF	
6,200.0	6,170.1	6,205.0	6,170.1	23.3	23.0	-119.11	199.0	-380.0	317.2	271.3	45.93	6.907	
6,300.0	6,269.5	6,305.6	6,269.5	23.7	23.3	-120.81	199.0	-380.0	322.8	276.1	46.62	6.923	
6,400.0	6,368.9	6,393.8	6,368.9	24.1	23.6	-122.45	199.0	-380.0	328.6	281.3	47.27	6.951	
6,500.0	6,468.2	6,493.2	6,468.2	24.5	24.0	-124.04	199.0	-380.0	334.6	286.7	47.96	6.978	
6,600.0	6,567.6	6,592.6	6,567.6	24.9	24.3	-125.57	199.0	-380.0	341.0	292.3	48.64	7.010	
6,700.0	6,667.0	6,692.0	6,667.0	25.3	24.6	-127.04	199.0	-380.0	347.5	298.2	49.32	7.046	
6,800.0	6,766.4	6,808.6	6,766.4	25.7	25.0	-128.46	199.0	-380.0	354.3	304.2	50.06	7.077	
6,900.0	6,865.8	6,909.2	6,865.8	26.1	25.4	-129.83	199.0	-380.0	361.3	310.5	50.75	7.119	
7,000.0	6,965.2	6,990.1	6,965.2	26.5	25.6	-131.14	199.0	-380.0	368.5	317.1	51.37	7.173	
7,100.0	7,064.6	7,089.5	7,064.6	26.9	26.0	-132.40	199.0	-380.0	375.8	323.8	52.05	7.221	
7,200.0	7,164.0	7,188.9	7,164.0	27.3	26.3	-133.61	199.0	-380.0	383.4	330.7	52.73	7.271	
7,300.0	7,263.4	7,288.3	7,263.4	27.6	26.7	-134.78	199.0	-380.0	391.1	337.7	53.41	7.322	
7,400.0	7,362.8	7,387.7	7,362.8	28.0	27.0	-135.90	199.0	-380.0	399.0	344.9	54.10	7.375	
7,500.0	7,462.2	7,507.5	7,481.9	28.4	27.4	-138.68	200.2	-369.1	404.6	349.8	54.80	7.384	
7,600.0	7,561.5	7,617.6	7,587.1	28.8	27.6	-144.08	203.7	-337.6	407.2	352.0	55.27	7.369	
7,700.0	7,660.9	7,711.0	7,670.3	29.2	27.8	-150.66	208.5	-295.6	411.8	356.2	55.59	7.407	
7,800.0	7,760.3	7,787.4	7,732.5	29.6	28.0	-157.19	213.4	-251.7	423.5	368.0	55.54	7.625	
7,900.0	7,859.7	7,849.0	7,778.1	30.0	28.1	-163.00	218.0	-210.5	446.0	391.3	54.72	8.151	
8,000.0	7,959.1	7,900.0	7,812.2	30.4	28.2	-168.00	222.2	-172.9	480.8	427.7	53.06	9.062	
8,100.0	8,058.5	7,939.0	7,836.0	30.8	28.3	-171.87	225.7	-142.1	527.3	476.6	50.66	10.407	
8,200.0	8,157.9	7,972.1	7,854.4	31.2	28.4	-175.12	228.7	-114.9	583.9	535.9	48.00	12.165	
8,300.0	8,257.3	8,000.0	7,868.8	31.6	28.5	-177.82	231.4	-91.1	648.7	603.4	45.33	14.311	
8,373.0	8,329.8	8,016.8	7,876.8	31.9	28.5	-179.41	233.0	-76.5	700.3	656.8	43.46	16.112	
8,400.0	8,356.7	8,022.6	7,879.5	32.0	28.5	-179.96	233.6	-71.3	720.0	677.2	42.80	16.822	
8,500.0	8,456.3	8,050.0	7,891.5	32.4	28.7	177.60	236.4	-46.8	795.3	754.6	40.72	19.532	
8,600.0	8,556.1	8,050.0	7,891.5	32.7	28.7	177.67	236.4	-46.8	873.1	835.1	38.03	22.958	
8,700.0	8,656.0	8,076.1	7,901.8	33.1	28.8	175.63	239.0	-22.9	952.8	916.4	36.43	26.152	
8,795.0	8,751.0	8,100.0	7,910.2	33.4	28.9	140.40	241.5	-0.8	1,030.2	995.2	35.06	29.387	
8,800.0	8,756.0	8,100.0	7,910.2	33.4	28.9	47.99	241.5	-0.8	1,034.3	999.3	34.95	29.591	
8,850.0	8,805.9	8,100.0	7,910.2	33.6	28.9	43.15	241.5	-0.8	1,074.5	1,040.6	33.91	31.687	
8,900.0	8,855.4	8,100.0	7,910.2	33.7	28.9	39.01	241.5	-0.8	1,113.7	1,080.8	32.86	33.887	
8,950.0	8,904.1	8,115.7	7,915.2	33.8	29.0	34.81	243.2	14.0	1,151.3	1,119.1	32.21	35.739	
9,000.0	8,951.6	8,125.8	7,918.3	34.0	29.0	31.57	244.3	23.6	1,187.3	1,155.9	31.42	37.793	
9,050.0	8,997.6	8,150.0	7,924.8	34.1	29.1	28.46	246.9	46.7	1,221.7	1,190.8	30.95	39.468	
9,100.0	9,041.8	8,150.0	7,924.8	34.1	29.1	26.54	246.9	46.7	1,253.7	1,223.7	29.92	41.897	
9,150.0	9,083.7	8,150.0	7,924.8	34.2	29.1	24.90	246.9	46.7	1,283.8	1,254.8	28.94	44.364	
9,200.0	9,123.1	8,172.3	7,930.0	34.3	29.3	23.09	249.3	68.3	1,311.4	1,282.9	28.43	46.121	
9,250.0	9,159.6	8,200.0	7,935.2	34.3	29.4	21.50	252.3	95.3	1,336.9	1,308.9	28.03	47.691	
9,300.0	9,193.1	8,200.0	7,935.2	34.3	29.4	20.60	252.3	95.3	1,359.5	1,332.3	27.17	50.031	
9,350.0	9,223.2	8,200.0	7,935.2	34.4	29.4	19.83	252.3	95.3	1,379.8	1,353.4	26.42	52.232	
9,400.0	9,249.7	8,225.5	7,938.9	34.4	29.6	18.90	255.1	120.4	1,397.1	1,371.0	26.09	53.546	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
9,450.0	9,272.4	8,250.0	7,941.3	34.4	29.8	18.16	257.8	144.6	1,412.0	1,386.2	25.79	54.742	
9,500.0	9,291.1	8,250.0	7,941.3	34.4	29.8	17.78	257.8	144.6	1,423.8	1,398.5	25.32	56.226	
9,550.0	9,305.7	8,276.1	7,942.8	34.4	30.0	17.28	260.7	170.5	1,432.9	1,407.7	25.18	56.897	
9,600.0	9,316.1	8,294.0	7,943.4	34.5	30.1	16.98	262.7	188.3	1,438.9	1,413.8	25.07	57.400	
9,650.0	9,322.2	8,337.0	7,944.8	34.8	30.5	16.65	266.9	231.1	1,441.2	1,416.1	25.18	57.229	
9,676.9	9,323.7	8,360.3	7,945.6	35.0	30.7	16.55	268.9	254.3	1,440.9	1,415.6	25.27	57.015	
9,700.0	9,324.4	8,380.3	7,946.3	35.1	30.9	16.47	270.5	274.2	1,440.1	1,414.7	25.36	56.790	
9,800.0	9,327.6	8,467.4	7,949.1	35.9	31.7	16.16	275.7	361.1	1,437.3	1,411.5	25.86	55.571	
9,900.0	9,330.7	8,554.9	7,952.0	36.8	32.7	15.96	278.3	448.5	1,435.5	1,408.9	26.55	54.069	
10,000.0	9,333.9	8,651.7	7,955.2	37.9	33.9	15.83	279.0	545.2	1,434.3	1,406.8	27.46	52.229	
10,100.0	9,337.0	8,751.6	7,958.5	39.1	35.3	15.70	279.6	645.1	1,433.2	1,404.7	28.50	50.290	
10,200.0	9,340.1	8,851.6	7,961.9	40.3	36.8	15.57	280.3	745.0	1,432.1	1,402.4	29.62	48.343	
10,300.0	9,343.3	8,951.5	7,965.2	41.7	38.4	15.44	280.9	844.9	1,431.0	1,400.2	30.83	46.421	
10,400.0	9,346.4	9,051.4	7,968.5	43.2	40.1	15.32	281.6	944.8	1,429.9	1,397.8	32.09	44.555	
10,500.0	9,349.5	9,151.4	7,971.8	44.8	41.8	15.20	282.2	1,044.7	1,428.9	1,395.5	33.42	42.750	
10,600.0	9,352.7	9,251.3	7,975.1	46.4	43.6	15.08	282.8	1,144.6	1,427.9	1,393.1	34.80	41.028	
10,700.0	9,355.8	9,351.3	7,978.4	48.1	45.5	14.97	283.5	1,244.5	1,427.0	1,390.7	36.23	39.390	
10,800.0	9,358.9	9,451.3	7,981.7	49.9	47.4	14.86	284.1	1,344.4	1,426.0	1,388.3	37.69	37.838	
10,900.0	9,362.0	9,551.2	7,985.0	51.7	49.4	14.75	284.8	1,444.3	1,425.1	1,385.9	39.18	36.372	
11,000.0	9,365.1	9,651.2	7,988.3	53.6	51.4	14.65	285.4	1,544.2	1,424.2	1,383.5	40.70	34.990	
11,100.0	9,368.2	9,751.1	7,991.6	55.6	53.5	14.55	286.0	1,644.1	1,423.3	1,381.1	42.25	33.689	
11,200.0	9,371.3	9,851.1	7,994.9	57.5	55.5	14.46	286.7	1,744.0	1,422.5	1,378.7	43.82	32.463	
11,300.0	9,374.4	9,951.1	7,998.2	59.5	57.7	14.37	287.3	1,843.9	1,421.7	1,376.3	45.41	31.309	
11,400.0	9,377.5	10,051.1	8,001.5	61.5	59.8	14.28	288.0	1,943.8	1,420.9	1,373.9	47.01	30.223	
11,500.0	9,380.6	10,151.0	8,004.8	63.6	62.0	14.20	288.6	2,043.7	1,420.1	1,371.5	48.64	29.199	
11,600.0	9,383.6	10,251.0	8,008.2	65.7	64.1	14.12	289.2	2,143.6	1,419.4	1,369.1	50.27	28.235	
11,700.0	9,386.7	10,351.0	8,011.5	67.8	66.3	14.04	289.9	2,243.6	1,418.6	1,366.7	51.92	27.324	
11,800.0	9,389.8	10,451.0	8,014.8	69.9	68.6	13.97	290.5	2,343.5	1,417.9	1,364.4	53.58	26.465	
11,900.0	9,392.9	10,550.9	8,018.1	72.1	70.8	13.90	291.2	2,443.4	1,417.3	1,362.0	55.25	25.653	
12,000.0	9,395.9	10,650.9	8,021.4	74.3	73.0	13.84	291.8	2,543.3	1,416.6	1,359.7	56.93	24.884	
12,100.0	9,399.0	10,750.9	8,024.7	76.5	75.3	13.77	292.4	2,643.3	1,416.0	1,357.3	58.62	24.156	
12,200.0	9,402.0	10,850.9	8,028.0	78.7	77.6	13.72	293.1	2,743.2	1,415.3	1,355.0	60.32	23.465	
12,300.0	9,405.1	10,950.9	8,031.3	80.9	79.9	13.66	293.7	2,843.1	1,414.7	1,352.7	62.02	22.810	
12,400.0	9,408.1	11,050.9	8,034.6	83.1	82.1	13.61	294.4	2,943.1	1,414.1	1,350.4	63.74	22.187	
12,500.0	9,411.2	11,150.9	8,037.9	85.4	84.4	13.57	295.0	3,043.0	1,413.6	1,348.1	65.46	21.594	
12,600.0	9,414.2	11,250.9	8,041.2	87.6	86.8	13.52	295.6	3,142.9	1,413.0	1,345.8	67.19	21.030	
12,700.0	9,417.3	11,350.9	8,044.5	89.9	89.1	13.48	296.3	3,242.9	1,412.5	1,343.6	68.93	20.491	
12,800.0	9,420.3	11,450.9	8,047.9	92.2	91.4	13.45	296.9	3,342.8	1,412.0	1,341.3	70.68	19.978	
12,900.0	9,423.3	11,550.8	8,051.2	94.5	93.7	13.42	297.6	3,442.8	1,411.5	1,339.1	72.43	19.487	
13,000.0	9,426.3	11,670.2	8,055.7	96.8	96.5	13.39	298.3	3,562.1	1,410.6	1,336.2	74.39	18.963	
13,100.0	9,429.4	11,770.2	8,060.5	99.1	98.9	13.38	299.0	3,661.9	1,408.8	1,332.6	76.18	18.492	
13,200.0	9,432.4	11,870.2	8,065.2	101.4	101.2	13.37	299.6	3,761.8	1,406.9	1,329.0	77.98	18.042	
13,300.0	9,435.4	11,970.2	8,069.9	103.7	103.6	13.37	300.2	3,861.7	1,405.2	1,325.4	79.79	17.610	
13,400.0	9,438.4	12,070.2	8,074.6	106.0	105.9	13.37	300.9	3,961.5	1,403.4	1,321.8	81.62	17.195	
13,500.0	9,441.4	12,170.2	8,079.3	108.3	108.3	13.38	301.5	4,061.4	1,401.6	1,318.2	83.45	16.796	
13,600.0	9,444.4	12,270.1	8,084.1	110.7	110.7	13.39	302.2	4,161.3	1,399.9	1,314.6	85.29	16.413	
13,700.0	9,447.4	12,370.1	8,088.8	113.0	113.0	13.40	302.8	4,261.2	1,398.2	1,311.0	87.14	16.044	
13,800.0	9,450.4	12,470.1	8,093.5	115.3	115.4	13.42	303.4	4,361.0	1,396.5	1,307.5	89.01	15.689	
13,858.5	9,452.1	12,528.6	8,096.3	116.7	116.8	13.43	303.8	4,419.5	1,395.5	1,305.4	90.11	15.487	
13,900.0	9,453.3	12,570.1	8,098.2	117.7	117.8	13.43	304.1	4,460.9	1,394.8	1,303.9	90.88	15.347	
14,000.0	9,456.3	12,670.1	8,102.9	120.0	120.2	13.45	304.7	4,560.8	1,393.1	1,300.3	92.76	15.018	
14,100.0	9,459.3	12,770.1	8,107.7	122.4	122.5	13.47	305.4	4,660.6	1,391.4	1,296.8	94.65	14.701	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
14,200.0	9,462.3	12,870.1	8,112.4	124.7	124.9	13.49	306.0	4,760.5	1,389.7	1,293.2	96.54	14.396	
14,300.0	9,465.3	12,970.0	8,117.1	127.1	127.3	13.51	306.6	4,860.4	1,388.1	1,289.6	98.43	14.102	
14,400.0	9,468.3	13,070.0	8,121.8	129.5	129.7	13.53	307.3	4,960.2	1,386.4	1,286.1	100.33	13.819	
14,500.0	9,471.2	13,170.0	8,126.5	131.8	132.1	13.55	307.9	5,060.1	1,384.7	1,282.5	102.22	13.546	
14,600.0	9,474.2	13,270.0	8,131.3	134.2	134.5	13.56	308.6	5,160.0	1,383.0	1,278.9	104.13	13.282	
14,700.0	9,477.2	13,370.0	8,136.0	136.6	136.9	13.58	309.2	5,259.9	1,381.3	1,275.3	106.03	13.027	
14,800.0	9,480.2	13,470.0	8,140.7	139.0	139.3	13.60	309.8	5,359.7	1,379.7	1,271.7	107.94	12.781	
14,900.0	9,483.2	13,570.0	8,145.4	141.3	141.7	13.62	310.5	5,459.6	1,378.0	1,268.1	109.86	12.544	
15,000.0	9,486.2	13,669.9	8,150.1	143.7	144.1	13.64	311.1	5,559.5	1,376.3	1,264.5	111.77	12.314	
15,100.0	9,489.1	13,769.9	8,154.9	146.1	146.5	13.66	311.8	5,659.3	1,374.6	1,260.9	113.69	12.091	
15,200.0	9,492.1	13,869.9	8,159.6	148.5	148.9	13.68	312.4	5,759.2	1,372.9	1,257.3	115.61	11.876	
15,300.0	9,495.1	13,969.9	8,164.3	150.9	151.3	13.70	313.0	5,859.1	1,371.3	1,253.7	117.54	11.667	
15,400.0	9,498.1	14,069.9	8,169.0	153.3	153.7	13.72	313.7	5,959.0	1,369.6	1,250.1	119.46	11.464	
15,500.0	9,501.1	14,169.9	8,173.7	155.7	156.1	13.74	314.3	6,058.8	1,367.9	1,246.5	121.39	11.268	
15,600.0	9,504.1	14,269.8	8,178.5	158.1	158.5	13.75	315.0	6,158.7	1,366.2	1,242.9	123.33	11.078	
15,700.0	9,507.0	14,369.8	8,183.2	160.5	160.9	13.77	315.6	6,258.6	1,364.6	1,239.3	125.26	10.893	
15,800.0	9,510.0	14,469.8	8,187.9	162.9	163.3	13.79	316.2	6,358.4	1,362.9	1,235.7	127.20	10.714	
15,900.0	9,513.0	14,569.8	8,192.6	165.3	165.7	13.81	316.9	6,458.3	1,361.2	1,232.1	129.15	10.540	
16,000.0	9,516.0	14,669.8	8,197.3	167.7	168.2	13.83	317.5	6,558.2	1,359.5	1,228.4	131.09	10.371	
16,100.0	9,519.0	14,769.8	8,202.1	170.1	170.6	13.85	318.1	6,658.1	1,357.8	1,224.8	133.04	10.206	
16,200.0	9,522.0	14,869.8	8,206.8	172.5	173.0	13.87	318.8	6,757.9	1,356.2	1,221.2	134.99	10.047	
16,300.0	9,524.9	14,969.7	8,211.5	174.9	175.4	13.89	319.4	6,857.8	1,354.5	1,217.5	136.94	9.891	
16,400.0	9,527.9	15,069.7	8,216.2	177.3	177.8	13.91	320.1	6,957.7	1,352.8	1,213.9	138.90	9.740	
16,500.0	9,530.9	15,169.7	8,220.9	179.7	180.2	13.93	320.7	7,057.5	1,351.1	1,210.3	140.85	9.592	
16,600.0	9,533.9	15,269.7	8,225.7	182.1	182.7	13.95	321.3	7,157.4	1,349.5	1,206.6	142.82	9.449	
16,700.0	9,536.9	15,369.7	8,230.4	184.5	185.1	13.97	322.0	7,257.3	1,347.8	1,203.0	144.78	9.309	
16,737.8	9,538.0	15,407.5	8,232.2	185.4	186.0	13.98	322.2	7,295.1	1,347.1	1,201.6	145.52	9.257	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	135.08	-30.1	30.0	42.5				
100.0	100.0	100.2	100.2	0.1	0.1	91.41	-30.0	29.8	42.3	42.0	0.28	152.161	
200.0	200.0	200.5	200.5	0.5	0.4	95.40	-29.7	29.1	41.7	40.9	0.87	48.144	
300.0	299.9	300.7	300.7	0.9	0.7	101.38	-28.2	28.1	40.6	39.0	1.59	25.554	
400.0	399.7	400.9	400.8	1.2	1.1	108.42	-26.1	27.0	39.5	37.2	2.31	17.070	
500.0	499.6	501.0	500.9	1.6	1.5	116.35	-23.4	25.3	38.4	35.3	3.04	12.625	
600.0	599.5	601.0	600.8	2.0	1.8	124.57	-20.1	23.5	37.4	33.7	3.76	9.950	
699.0	698.4	699.9	699.7	2.3	2.2	133.29	-16.7	21.5	37.0	32.6	4.47	8.278 CC	
700.0	699.3	700.9	700.6	2.3	2.2	133.38	-16.6	21.4	37.0	32.6	4.48	8.265	
800.0	799.2	800.9	800.5	2.7	2.5	143.06	-13.0	18.8	37.4	32.2	5.20	7.196 ES	
900.0	899.0	900.3	899.9	3.1	2.9	152.26	-9.0	16.3	38.5	32.5	5.92	6.498	
1,000.0	998.9	999.8	999.3	3.4	3.3	157.92	-7.2	15.1	42.0	35.4	6.63	6.332 SF	
1,100.0	1,098.8	1,098.7	1,098.2	3.8	3.6	161.07	-6.7	14.7	46.6	39.2	7.33	6.353	
1,200.0	1,198.6	1,197.4	1,196.8	4.2	3.9	160.80	-9.8	15.3	54.1	46.1	8.01	6.749	
1,300.0	1,298.5	1,297.3	1,296.6	4.5	4.3	159.84	-14.0	16.3	62.4	53.7	8.70	7.170	
1,400.0	1,398.4	1,395.0	1,394.2	4.9	4.6	-173.59	-19.1	18.1	71.5	62.1	9.37	7.630	
1,500.0	1,498.2	1,493.1	1,491.9	5.2	4.9	-154.16	-26.8	19.9	83.6	73.5	10.04	8.323	
1,600.0	1,597.9	1,588.4	1,586.8	5.6	5.2	-143.22	-36.1	20.0	99.0	88.3	10.68	9.268	
1,700.0	1,697.5	1,687.2	1,685.0	5.9	5.6	-137.57	-47.0	18.4	117.1	105.7	11.37	10.297	
1,729.5	1,726.8	1,715.0	1,712.6	6.1	5.7	-136.56	-50.0	17.9	122.7	111.1	11.56	10.611	
1,800.0	1,796.9	1,781.1	1,778.2	6.3	5.9	-138.55	-58.2	16.2	137.3	125.3	12.00	11.437	
1,900.0	1,896.3	1,877.5	1,873.6	6.7	6.3	-140.96	-71.4	13.9	159.5	146.9	12.67	12.592	
2,000.0	1,995.7	1,976.4	1,971.6	7.0	6.6	-143.57	-85.0	13.9	181.9	168.5	13.38	13.598	
2,100.0	2,095.1	2,060.0	2,054.0	7.4	7.0	-144.90	-99.0	12.5	207.5	193.6	13.87	14.957	
2,200.0	2,194.5	2,148.9	2,140.7	7.8	7.3	-145.14	-117.9	7.5	237.6	223.1	14.44	16.449	
2,300.0	2,293.9	2,244.0	2,233.1	8.1	7.7	-145.12	-139.5	1.1	269.2	254.0	15.13	17.791	
2,400.0	2,393.3	2,336.3	2,322.8	8.5	8.1	-145.03	-160.6	-5.4	300.8	285.1	15.78	19.068	
2,500.0	2,492.6	2,431.4	2,414.8	8.9	8.6	-144.60	-182.7	-14.1	333.1	316.6	16.48	20.216	
2,600.0	2,592.0	2,530.8	2,511.1	9.3	9.0	-144.12	-205.1	-23.9	364.6	347.4	17.24	21.152	
2,700.0	2,691.4	2,628.5	2,606.1	9.6	9.5	-143.74	-226.2	-33.3	395.1	377.2	17.98	21.980	
2,800.0	2,790.8	2,722.5	2,697.5	10.0	9.9	-143.41	-246.2	-42.5	425.5	406.8	18.67	22.790	
2,900.0	2,890.2	2,817.9	2,790.2	10.4	10.4	-143.15	-266.8	-51.6	456.1	436.7	19.39	23.524	
3,000.0	2,989.6	2,918.9	2,888.5	10.8	10.8	-142.94	-287.9	-61.0	486.0	465.9	20.17	24.097	
3,100.0	3,089.0	3,019.3	2,986.5	11.2	11.3	-142.84	-307.9	-69.6	515.0	494.0	20.94	24.588	
3,200.0	3,188.4	3,115.3	3,080.4	11.6	11.8	-142.84	-326.7	-77.1	543.5	521.8	21.67	25.082	
3,300.0	3,287.8	3,213.8	3,176.8	11.9	12.2	-142.90	-345.7	-84.0	571.7	549.3	22.42	25.502	
3,400.0	3,387.2	3,299.4	3,260.3	12.3	12.6	-142.87	-362.8	-90.9	600.7	577.7	23.03	26.078	
3,500.0	3,486.5	3,398.7	3,357.2	12.7	13.1	-142.78	-383.0	-99.5	630.1	606.3	23.80	26.472	
3,600.0	3,585.9	3,494.8	3,451.1	13.1	13.6	-142.79	-402.4	-106.9	659.2	634.7	24.54	26.867	
3,700.0	3,685.3	3,568.9	3,523.0	13.5	13.9	-142.73	-418.4	-113.4	689.8	664.8	25.03	27.561	
3,800.0	3,784.7	3,653.7	3,604.9	13.9	14.4	-142.52	-438.5	-122.6	722.7	697.0	25.64	28.180	
3,900.0	3,884.1	3,747.1	3,694.9	14.3	14.9	-142.28	-461.3	-133.2	756.2	729.8	26.36	28.682	
4,000.0	3,983.5	3,847.1	3,791.4	14.7	15.4	-142.08	-485.4	-144.1	789.3	762.2	27.16	29.061	
4,100.0	4,082.9	3,950.3	3,891.1	15.1	15.9	-141.92	-509.4	-154.8	821.6	793.6	27.99	29.354	
4,200.0	4,182.3	4,059.7	3,997.3	15.5	16.5	-141.79	-533.3	-165.7	852.6	823.7	28.88	29.525	
4,300.0	4,281.7	4,162.8	4,097.7	15.8	17.0	-141.68	-554.6	-176.0	882.3	852.6	29.69	29.715	
4,400.0	4,381.1	4,252.9	4,185.5	16.2	17.4	-141.61	-573.1	-184.5	912.0	881.6	30.38	30.022	
4,500.0	4,480.4	4,344.5	4,274.6	16.6	17.9	-141.53	-592.3	-193.5	942.1	911.0	31.08	30.312	
4,600.0	4,579.8	4,438.5	4,365.9	17.0	18.4	-141.43	-612.2	-203.1	972.4	940.6	31.81	30.573	
4,700.0	4,679.2	4,535.6	4,460.3	17.4	18.9	-141.35	-632.8	-212.7	1,002.7	970.2	32.57	30.792	
4,800.0	4,778.6	4,634.5	4,556.6	17.8	19.4	-141.31	-653.6	-221.8	1,032.8	999.5	33.34	30.978	
4,900.0	4,878.0	4,739.0	4,658.5	18.2	19.9	-141.32	-675.1	-230.6	1,062.4	1,028.2	34.17	31.094	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	4,977.4	4,846.5	4,763.5	18.6	20.4	-141.35	-696.1	-239.1	1,090.9	1,055.9	35.01	31.158		
5,100.0	5,076.8	4,959.5	4,874.4	19.0	21.0	-141.43	-716.9	-247.2	1,118.3	1,082.4	35.90	31.153		
5,200.0	5,176.2	5,074.0	4,986.9	19.4	21.5	-141.53	-736.2	-254.6	1,144.1	1,107.3	36.78	31.105		
5,300.0	5,275.6	5,154.5	5,066.2	19.8	21.9	-141.61	-749.6	-259.7	1,169.6	1,132.3	37.39	31.281		
5,400.0	5,375.0	5,242.7	5,152.7	20.2	22.3	-141.68	-765.5	-265.5	1,196.6	1,158.5	38.06	31.436		
5,500.0	5,474.3	5,344.2	5,252.3	20.6	22.7	-141.75	-783.7	-272.4	1,223.5	1,184.7	38.85	31.495		
5,600.0	5,573.7	5,441.3	5,347.7	20.9	23.2	-141.80	-800.8	-279.2	1,250.1	1,210.5	39.59	31.571		
5,700.0	5,673.1	5,537.4	5,441.9	21.3	23.7	-141.79	-817.7	-287.3	1,276.7	1,236.4	40.34	31.651		
5,800.0	5,772.5	5,644.4	5,546.9	21.7	24.2	-141.75	-836.1	-296.8	1,303.0	1,261.9	41.17	31.652		
5,900.0	5,871.9	5,748.9	5,649.6	22.1	24.7	-141.75	-853.2	-305.2	1,328.5	1,286.6	41.97	31.651		
6,000.0	5,971.3	5,862.6	5,761.7	22.5	25.2	-141.77	-871.0	-313.8	1,353.2	1,310.4	42.85	31.584		
6,100.0	6,070.7	5,962.9	5,860.6	22.9	25.6	-141.81	-885.5	-320.8	1,376.6	1,333.0	43.61	31.566		
6,200.0	6,170.1	6,020.2	5,917.0	23.3	25.9	-141.81	-894.7	-325.4	1,401.8	1,357.8	44.05	31.824		
6,300.0	6,269.5	6,115.5	6,010.4	23.7	26.3	-141.80	-911.8	-333.4	1,428.8	1,384.1	44.79	31.904		
6,400.0	6,368.9	6,183.7	6,077.3	24.1	26.7	-141.80	-924.2	-338.8	1,456.2	1,410.9	45.29	32.150		
6,500.0	6,468.2	6,258.5	6,150.2	24.5	27.0	-141.79	-939.7	-345.3	1,485.7	1,439.9	45.85	32.403		
6,600.0	6,567.6	6,375.9	6,264.8	24.9	27.6	-141.82	-963.4	-354.4	1,515.0	1,468.2	46.79	32.378		
6,700.0	6,667.0	6,535.3	6,421.3	25.3	28.4	-141.93	-991.7	-364.5	1,541.7	1,493.7	48.04	32.093		
6,800.0	6,766.4	6,678.9	6,563.3	25.7	29.0	-142.07	-1,011.9	-372.0	1,564.7	1,515.6	49.10	31.870		
6,900.0	6,865.8	6,808.8	6,692.1	26.1	29.5	-142.26	-1,027.2	-376.6	1,585.3	1,535.3	50.03	31.689		
7,000.0	6,965.2	6,922.2	6,805.0	26.5	30.0	-142.46	-1,038.9	-379.5	1,604.5	1,553.6	50.84	31.559		
7,100.0	7,064.6	7,043.1	6,925.3	26.9	30.4	-142.69	-1,050.1	-382.1	1,622.6	1,570.9	51.69	31.393		
7,200.0	7,164.0	7,166.5	7,048.3	27.3	30.9	-142.94	-1,059.6	-383.7	1,639.1	1,586.6	52.53	31.204		
7,300.0	7,263.4	7,277.1	7,158.6	27.6	31.3	-143.16	-1,066.9	-385.1	1,654.5	1,601.2	53.31	31.038		
7,400.0	7,362.8	7,400.0	7,295.3	28.0	31.7	-143.59	-1,074.1	-382.1	1,668.5	1,614.4	54.12	30.830		
7,500.0	7,462.2	7,438.0	7,319.1	28.4	31.8	-143.70	-1,075.1	-380.7	1,683.1	1,628.6	54.55	30.572		
7,600.0	7,561.5	7,485.0	7,365.1	28.8	31.9	-144.10	-1,078.5	-372.2	1,700.5	1,645.5	54.96	30.942		
7,700.0	7,660.9	7,818.5	7,648.6	29.2	32.4	-150.35	-1,096.5	-204.6	1,719.8	1,663.6	56.26	30.570		
7,800.0	7,760.3	7,915.4	7,728.5	29.6	32.5	-152.32	-1,092.6	-149.9	1,730.8	1,673.9	56.90	30.419		
7,900.0	7,859.7	7,958.3	7,760.3	30.0	32.5	-153.32	-1,090.6	-121.3	1,744.4	1,687.0	57.38	30.399		
8,000.0	7,959.1	7,996.0	7,785.1	30.4	32.5	-154.30	-1,088.7	-92.9	1,762.0	1,704.3	57.76	30.508		
8,100.0	8,058.5	7,996.0	7,785.1	30.8	32.5	-154.30	-1,088.7	-92.9	1,784.5	1,726.6	57.84	30.851		
8,200.0	8,157.9	8,031.0	7,805.6	31.2	32.5	-155.27	-1,087.3	-64.6	1,811.1	1,753.1	58.00	31.226		
8,300.0	8,257.3	8,046.4	7,814.0	31.6	32.5	-155.70	-1,087.0	-51.7	1,842.6	1,784.6	57.93	31.808		
8,373.0	8,329.8	8,056.7	7,819.5	31.9	32.5	-155.99	-1,086.9	-43.0	1,868.3	1,810.5	57.80	32.323		
8,400.0	8,356.7	8,091.0	7,836.4	32.0	32.5	-157.05	-1,087.1	-13.2	1,879.2	1,821.3	57.96	32.425		
8,500.0	8,456.3	8,091.0	7,836.4	32.4	32.5	-157.28	-1,087.1	-13.2	1,917.1	1,859.5	57.58	33.295		
8,600.0	8,556.1	8,600.0	7,854.9	32.7	32.6	-158.72	-1,086.1	24.1	1,956.8	1,897.3	59.48	32.900		
8,700.0	8,656.0	8,252.4	7,904.9	33.1	32.4	-162.35	-1,078.5	132.6	1,996.7	1,938.8	57.94	34.460		
8,795.0	8,751.0	8,292.3	7,918.5	33.4	32.4	162.77	-1,073.4	169.7	2,035.1	1,977.4	57.72	35.260		
8,800.0	8,756.0	8,294.2	7,919.1	33.4	32.4	70.62	-1,073.2	171.5	2,037.1	1,979.4	57.70	35.306		
8,850.0	8,805.9	8,281.0	7,914.8	33.6	32.4	68.90	-1,075.0	159.1	2,057.5	2,000.2	57.25	35.940		
8,900.0	8,855.4	8,281.0	7,914.8	33.7	32.4	66.89	-1,075.0	159.1	2,077.4	2,020.5	56.88	36.520		
8,950.0	8,904.1	8,309.5	7,923.4	33.8	32.4	64.28	-1,071.1	186.0	2,096.3	2,039.5	56.76	36.933		
9,000.0	8,951.6	8,319.1	7,926.0	34.0	32.4	62.31	-1,069.7	195.1	2,114.5	2,058.1	56.45	37.458		
9,050.0	8,997.6	8,329.2	7,928.4	34.1	32.4	60.47	-1,068.2	204.8	2,131.8	2,075.6	56.14	37.972		
9,100.0	9,041.8	8,339.8	7,930.7	34.1	32.4	58.78	-1,066.6	215.1	2,147.9	2,092.0	55.83	38.470		
9,150.0	9,083.7	8,377.0	7,937.0	34.2	32.3	56.75	-1,060.8	251.2	2,163.2	2,107.5	55.75	38.805		
9,200.0	9,123.1	8,377.0	7,937.0	34.3	32.3	55.62	-1,060.8	251.2	2,176.4	2,121.0	55.37	39.307		
9,250.0	9,159.6	8,377.0	7,937.0	34.3	32.3	54.62	-1,060.8	251.2	2,188.2	2,133.2	55.01	39.777		
9,300.0	9,193.1	8,405.2	7,940.4	34.3	32.3	53.35	-1,056.1	278.8	2,198.4	2,143.5	54.93	40.021		
9,350.0	9,223.2	8,443.7	7,944.7	34.4	32.3	52.17	-1,049.5	316.5	2,206.5	2,151.6	54.96	40.145		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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		
9,400.0	9,249.7	8,471.0	7,947.3	34.4	32.3	51.37	-1,044.6	343.3	2,212.4	2,157.4	54.92	40.283		
9,450.0	9,272.4	8,471.0	7,947.3	34.4	32.3	51.05	-1,044.6	343.3	2,216.4	2,161.7	54.74	40.493		
9,500.0	9,291.1	8,514.2	7,950.9	34.4	32.3	50.50	-1,037.1	385.7	2,217.8	2,162.9	54.99	40.334		
9,550.0	9,305.7	8,533.7	7,952.1	34.4	32.4	50.38	-1,034.0	404.8	2,217.5	2,162.4	55.10	40.249		
9,600.0	9,316.1	8,566.0	7,953.7	34.5	32.6	50.37	-1,029.1	436.7	2,215.2	2,159.8	55.38	40.001		
9,650.0	9,322.2	8,566.0	7,953.7	34.8	32.6	50.73	-1,029.1	436.7	2,210.7	2,155.2	55.47	39.851		
9,676.9	9,323.7	8,566.0	7,953.7	35.0	32.6	50.97	-1,029.1	436.7	2,207.5	2,152.0	55.56	39.734		
9,700.0	9,324.4	8,566.0	7,953.7	35.1	32.6	50.97	-1,029.1	436.7	2,204.8	2,149.1	55.64	39.623		
9,800.0	9,327.6	8,626.9	7,955.3	35.9	33.3	50.81	-1,021.3	497.1	2,193.3	2,136.7	56.64	38.721		
9,900.0	9,330.7	8,660.0	7,955.3	36.8	33.6	50.72	-1,018.1	530.1	2,185.2	2,127.7	57.54	37.979		
10,000.0	9,333.9	8,692.6	7,954.9	37.9	34.1	50.64	-1,015.7	562.6	2,180.3	2,121.7	58.59	37.211		
10,100.0	9,337.0	8,722.7	7,954.3	39.1	34.4	50.58	-1,014.7	592.6	2,178.6	2,118.8	59.75	36.464		
10,101.3	9,337.0	8,723.0	7,954.3	39.1	34.5	50.58	-1,014.6	593.0	2,178.6	2,118.8	59.76	36.454		
10,200.0	9,340.1	8,754.0	7,953.3	40.3	34.9	50.52	-1,014.6	623.9	2,180.2	2,119.2	61.02	35.726		
10,300.0	9,343.3	8,841.0	7,962.1	41.7	37.6	50.66	-1,024.1	810.3	2,180.6	2,116.2	64.45	33.832		
10,365.4	9,345.3	8,991.6	7,966.7	42.7	38.5	50.75	-1,027.1	860.6	2,179.9	2,114.0	65.94	33.060		
10,400.0	9,346.4	9,008.0	7,967.9	43.2	38.7	50.77	-1,028.1	876.9	2,180.1	2,113.5	66.57	32.747		
10,500.0	9,349.5	9,148.5	7,976.1	44.8	41.1	50.92	-1,035.6	1,016.9	2,180.6	2,110.8	69.82	31.232		
10,600.0	9,352.7	9,271.1	7,983.3	46.4	43.3	51.01	-1,039.8	1,139.2	2,179.8	2,106.8	72.95	29.881		
10,700.0	9,355.8	9,419.9	7,993.2	48.1	46.1	51.07	-1,040.7	1,287.8	2,175.9	2,099.3	76.56	28.419		
10,800.0	9,358.9	9,530.5	7,999.8	49.9	48.2	51.09	-1,039.8	1,398.1	2,171.6	2,092.0	79.68	27.253		
10,900.0	9,362.0	9,638.4	8,004.8	51.7	50.3	51.04	-1,037.0	1,505.9	2,166.9	2,084.1	82.80	26.171		
11,000.0	9,365.1	9,723.3	8,008.6	53.6	52.0	51.00	-1,034.9	1,590.6	2,162.6	2,076.9	85.64	25.251		
11,100.0	9,368.2	9,831.7	8,013.5	55.6	54.2	50.95	-1,032.3	1,699.0	2,158.3	2,069.3	88.90	24.277		
11,200.0	9,371.3	11,200.0	8,018.1	57.5	82.7	50.86	-1,027.8	1,828.2	2,153.9	2,040.8	113.12	19.042		
11,300.0	9,374.4	10,116.6	8,027.4	59.5	60.1	50.76	-1,019.4	1,983.1	2,146.2	2,049.7	96.49	22.343		
11,400.0	9,377.5	10,223.2	8,032.7	61.5	62.4	50.64	-1,011.3	2,089.3	2,137.8	2,038.1	99.77	21.427		
11,500.0	9,380.6	10,313.2	8,035.7	63.6	64.3	50.50	-1,003.6	2,178.9	2,129.7	2,026.9	102.81	20.715		
11,600.0	9,383.6	10,414.3	8,040.5	65.7	66.5	50.38	-996.4	2,279.7	2,122.1	2,016.0	106.09	20.003		
11,700.0	9,386.7	10,520.6	8,045.7	67.8	68.8	50.26	-988.3	2,385.5	2,113.9	2,004.4	109.45	19.314		
11,800.0	9,389.8	10,616.7	8,049.7	69.9	70.9	50.14	-980.6	2,481.2	2,106.0	1,993.4	112.66	18.693		
11,900.0	9,392.9	10,716.5	8,056.0	72.1	73.1	50.08	-974.4	2,580.6	2,098.2	1,982.1	116.05	18.080		
12,000.0	9,395.9	10,809.0	8,063.8	74.3	75.2	50.10	-970.4	2,672.7	2,090.6	1,971.2	119.46	17.501		
12,100.0	9,399.0	10,902.9	8,071.0	76.5	77.3	50.10	-966.3	2,766.3	2,083.5	1,960.6	122.89	16.953		
12,200.0	9,402.0	10,974.4	8,076.0	78.7	78.9	50.10	-963.1	2,837.5	2,076.9	1,950.9	125.99	16.484		
12,300.0	9,405.1	11,022.2	8,078.9	80.9	80.0	50.11	-962.0	2,885.2	2,072.6	1,943.9	128.73	16.100		
12,400.0	9,408.1	11,079.7	8,081.8	83.1	81.3	50.13	-962.1	2,942.6	2,070.8	1,939.2	131.62	15.733		
12,452.2	9,409.7	11,114.7	8,083.3	84.3	82.1	50.14	-962.6	2,977.6	2,070.6	1,937.4	133.22	15.543		
12,500.0	9,411.2	11,148.3	8,084.7	85.4	82.9	50.16	-963.2	3,011.2	2,070.8	1,936.1	134.70	15.373		
12,600.0	9,414.2	11,228.4	8,087.0	87.6	84.7	50.18	-964.8	3,091.2	2,072.0	1,934.0	137.98	15.017		
12,700.0	9,417.3	11,319.3	8,088.2	89.9	86.8	50.16	-966.4	3,182.1	2,074.0	1,932.6	141.41	14.667		
12,800.0	9,420.3	11,406.8	8,088.7	92.2	88.9	50.14	-967.9	3,269.5	2,076.6	1,931.9	144.77	14.344		
12,900.0	9,423.3	11,501.0	8,089.3	94.5	91.0	50.13	-970.1	3,363.7	2,079.8	1,931.5	148.28	14.026		
13,000.0	9,426.3	11,627.4	8,091.0	96.8	94.0	50.13	-973.2	3,490.1	2,082.6	1,930.1	152.46	13.660		
13,100.0	9,429.4	11,709.0	8,092.5	99.1	95.9	50.15	-975.3	3,571.6	2,085.3	1,929.5	155.81	13.383		
13,200.0	9,432.4	11,808.9	8,093.6	101.4	98.2	50.15	-977.7	3,671.4	2,088.3	1,928.9	159.50	13.093		
13,300.0	9,435.4	11,911.0	8,095.0	103.7	100.6	50.17	-980.3	3,773.6	2,091.5	1,928.2	163.26	12.811		
13,400.0	9,438.4	12,021.5	8,095.9	106.0	103.2	50.15	-982.1	3,884.1	2,094.2	1,927.1	167.13	12.530		
13,500.0	9,441.4	12,110.3	8,095.9	108.3	105.3	50.12	-982.9	3,972.8	2,097.1	1,926.5	170.55	12.296		
13,600.0	9,444.4	12,186.2	8,096.7	110.7	107.1	50.13	-985.2	4,048.7	2,100.9	1,927.1	173.81	12.087		
13,700.0	9,447.4	12,301.0	8,098.8	113.0	109.8	50.19	-989.7	4,163.4	2,105.0	1,927.1	177.97	11.828		
13,800.0	9,450.4	12,457.7	8,101.3	115.3	113.5	50.22	-993.0	4,320.0	2,108.3	1,925.5	182.83	11.531		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
13,858.5	9,452.1	12,525.4	8,103.8	116.7	115.1	50.25	-993.8	4,387.7	2,108.8	1,923.6	185.26	11.383	
13,900.0	9,453.3	12,570.1	8,105.8	117.7	116.2	50.28	-994.4	4,432.3	2,109.1	1,922.2	186.93	11.283	
14,000.0	9,456.3	12,662.7	8,109.5	120.0	118.4	50.33	-995.7	4,524.9	2,110.0	1,919.3	190.68	11.066	
14,100.0	9,459.3	12,770.0	8,115.1	122.4	120.9	50.44	-998.1	4,632.0	2,110.9	1,916.1	194.81	10.836	
14,200.0	9,462.3	12,871.8	8,123.0	124.7	123.4	50.62	-1,002.0	4,733.4	2,111.3	1,912.2	199.04	10.608	
14,300.0	9,465.3	12,950.2	8,129.5	127.1	125.2	50.78	-1,006.0	4,811.4	2,112.4	1,909.6	202.82	10.415	
14,400.0	9,468.3	13,042.9	8,136.6	129.5	127.5	50.97	-1,011.0	4,903.7	2,114.2	1,907.3	206.94	10.217	
14,500.0	9,471.2	13,134.8	8,142.9	131.8	129.7	51.14	-1,015.8	4,995.2	2,116.4	1,905.4	211.01	10.030	
14,600.0	9,474.2	13,225.7	8,148.4	134.2	131.8	51.29	-1,020.5	5,085.8	2,119.0	1,904.0	215.02	9.855	
14,700.0	9,477.2	13,332.3	8,154.3	136.6	134.4	51.45	-1,025.7	5,192.2	2,121.7	1,902.3	219.38	9.671	
14,800.0	9,480.2	13,458.0	8,161.4	139.0	137.4	51.61	-1,030.5	5,317.6	2,123.6	1,899.5	224.13	9.475	
14,900.0	9,483.2	13,583.8	8,168.3	141.3	140.4	51.74	-1,033.2	5,443.1	2,124.3	1,895.5	228.77	9.286	
15,000.0	9,486.2	13,713.5	8,174.0	143.7	143.5	51.78	-1,032.6	5,572.8	2,123.5	1,890.3	233.24	9.104	
15,100.0	9,489.1	13,819.5	8,177.7	146.1	146.1	51.77	-1,030.5	5,678.6	2,122.2	1,885.0	237.17	8.948	
15,200.0	9,492.1	13,926.9	8,180.7	148.5	148.6	51.72	-1,027.0	5,785.9	2,120.3	1,879.3	241.01	8.797	
15,300.0	9,495.1	14,014.6	8,183.0	150.9	150.7	51.68	-1,024.2	5,873.5	2,118.5	1,874.0	244.58	8.662	
15,400.0	9,498.1	14,101.8	8,184.9	153.3	152.8	51.64	-1,021.9	5,960.7	2,117.6	1,869.4	248.13	8.534	
15,500.0	9,501.1	14,216.5	8,186.9	155.7	155.6	51.57	-1,018.7	6,075.4	2,116.7	1,864.7	252.03	8.399	
15,600.0	9,504.1	14,330.7	8,188.6	158.1	158.3	51.46	-1,013.7	6,189.4	2,114.7	1,858.9	255.79	8.267	
15,700.0	9,507.0	14,427.4	8,189.1	160.5	160.6	51.33	-1,008.6	6,286.0	2,112.7	1,853.4	259.24	8.150	
15,800.0	9,510.0	14,505.8	8,189.5	162.9	162.5	51.24	-1,005.0	6,364.3	2,111.1	1,848.7	262.49	8.043	
15,900.0	9,513.0	14,606.4	8,192.3	165.3	164.9	51.22	-1,003.2	6,464.9	2,110.5	1,844.2	266.29	7.925	
16,000.0	9,516.0	14,759.6	8,203.3	167.7	168.6	51.36	-1,002.9	6,617.7	2,108.2	1,836.8	271.39	7.768	
16,100.0	9,519.0	14,878.1	8,214.3	170.1	171.5	51.53	-1,002.2	6,735.6	2,104.3	1,828.3	276.01	7.624	
16,200.0	9,522.0	14,982.6	8,224.0	172.5	174.0	51.65	-1,000.6	6,839.6	2,099.7	1,819.4	280.34	7.490	
16,300.0	9,524.9	15,081.6	8,232.1	174.9	176.4	51.73	-998.3	6,938.3	2,095.2	1,810.7	284.48	7.365	
16,400.0	9,527.9	15,175.2	8,238.7	177.3	178.6	51.78	-995.4	7,031.6	2,090.8	1,802.3	288.45	7.248	
16,500.0	9,530.9	15,252.9	8,242.7	179.7	180.5	51.77	-992.4	7,109.2	2,087.0	1,795.0	292.05	7.146	
16,600.0	9,533.9	15,330.5	8,244.5	182.1	182.4	51.71	-989.0	7,186.6	2,084.4	1,789.0	295.44	7.055	
16,700.0	9,536.9	15,413.6	8,244.9	184.5	184.4	51.61	-985.0	7,269.6	2,082.8	1,784.0	298.73	6.972	
16,737.8	9,538.0	15,445.1	8,244.6	185.4	185.1	51.56	-983.4	7,301.1	2,082.4	1,782.4	299.93	6.943	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	135.08	-30.1	30.0	42.5				
100.0	100.0	100.0	100.0	0.1	0.1	91.26	-30.1	30.0	42.5	42.2	0.26	165.470	
200.0	200.0	200.0	200.0	0.5	0.5	94.77	-30.1	30.0	42.6	41.6	0.98	43.665	
300.0	299.9	300.1	299.9	0.9	0.8	100.54	-30.1	30.0	43.2	41.5	1.70	25.429 ES	
400.0	399.7	400.3	399.7	1.2	1.2	107.18	-30.1	30.0	44.4	42.0	2.42	18.341	
500.0	499.6	500.4	499.6	1.6	1.6	113.38	-30.1	30.0	46.3	43.1	3.15	14.699	
600.0	599.5	600.5	599.5	2.0	1.9	119.05	-30.1	30.0	48.6	44.7	3.87	12.551	
700.0	699.3	700.7	699.3	2.3	2.3	124.16	-30.1	30.0	51.3	46.7	4.59	11.176	
800.0	799.2	800.8	799.2	2.7	2.6	128.72	-30.1	30.0	54.4	49.1	5.31	10.245	
900.0	899.0	901.0	899.0	3.1	3.0	132.76	-30.1	30.0	57.9	51.8	6.03	9.589	
1,000.0	998.9	998.9	998.9	3.4	3.4	136.34	-30.1	30.0	61.5	54.8	6.75	9.122	
1,100.0	1,098.8	1,097.7	1,097.7	3.8	3.7	139.69	-30.8	29.7	66.2	58.8	7.44	8.899	
1,200.0	1,198.6	1,196.2	1,196.2	4.2	4.0	142.91	-33.2	28.7	72.8	64.7	8.12	8.961	
1,300.0	1,298.5	1,294.5	1,294.4	4.5	4.3	145.83	-37.1	27.1	81.2	72.4	8.80	9.227	
1,400.0	1,398.4	1,392.5	1,392.2	4.9	4.7	176.80	-42.5	24.9	91.9	82.4	9.48	9.693	
1,500.0	1,498.2	1,489.9	1,489.3	5.2	5.0	-159.18	-49.5	22.1	105.0	94.8	10.15	10.345	
1,600.0	1,597.9	1,586.8	1,585.8	5.6	5.4	-145.16	-57.9	18.7	120.5	109.7	10.81	11.145	
1,700.0	1,697.5	1,683.0	1,681.4	5.9	5.7	-137.59	-67.8	14.8	138.5	127.0	11.47	12.073	
1,729.5	1,726.8	1,711.2	1,709.3	6.1	5.8	-136.13	-70.9	13.5	144.3	132.6	11.66	12.368	
1,800.0	1,796.9	1,778.4	1,776.0	6.3	6.0	-137.35	-79.0	10.2	158.8	146.7	12.13	13.098	
1,900.0	1,896.3	1,873.1	1,869.8	6.7	6.4	-138.63	-91.6	5.1	180.9	168.1	12.78	14.157	
2,000.0	1,995.7	1,967.2	1,962.6	7.0	6.8	-139.51	-105.6	-0.5	204.5	191.1	13.43	15.236	
2,100.0	2,095.1	2,060.5	2,054.5	7.4	7.1	-140.10	-120.8	-6.7	229.8	215.7	14.07	16.330	
2,200.0	2,194.5	2,153.1	2,145.3	7.8	7.5	-140.47	-137.3	-13.3	256.5	241.8	14.71	17.435	
2,300.0	2,293.9	2,251.0	2,235.0	8.1	7.9	-140.69	-154.9	-20.4	284.8	269.4	15.37	18.525	
2,400.0	2,393.3	2,340.4	2,328.4	8.5	8.3	-140.82	-174.1	-28.2	313.8	297.7	16.05	19.554	
2,500.0	2,492.6	2,436.1	2,421.8	8.9	8.7	-140.93	-193.3	-35.9	342.8	326.1	16.75	20.465	
2,600.0	2,592.0	2,531.8	2,515.3	9.3	9.2	-141.03	-212.5	-43.6	371.8	354.4	17.46	21.299	
2,700.0	2,691.4	2,627.5	2,608.7	9.6	9.6	-141.11	-231.6	-51.4	400.9	382.7	18.17	22.064	
2,800.0	2,790.8	2,723.2	2,702.1	10.0	10.0	-141.18	-250.8	-59.1	429.9	411.0	18.88	22.768	
2,900.0	2,890.2	2,818.9	2,795.6	10.4	10.5	-141.24	-270.0	-66.9	458.9	439.3	19.60	23.417	
3,000.0	2,989.6	2,914.6	2,889.0	10.8	10.9	-141.30	-289.2	-74.6	487.9	467.6	20.32	24.018	
3,100.0	3,089.0	3,010.3	2,982.4	11.2	11.4	-141.34	-308.3	-82.3	517.0	495.9	21.04	24.576	
3,200.0	3,188.4	3,106.0	3,075.9	11.6	11.8	-141.39	-327.5	-90.1	546.0	524.2	21.76	25.094	
3,300.0	3,287.8	3,201.7	3,169.3	11.9	12.3	-141.43	-346.7	-97.8	575.0	552.5	22.48	25.577	
3,400.0	3,387.2	3,302.6	3,262.7	12.3	12.8	-141.46	-365.9	-105.6	604.1	580.8	23.23	26.005	
3,500.0	3,486.5	3,393.1	3,356.2	12.7	13.2	-141.49	-385.0	-113.3	633.1	609.2	23.94	26.449	
3,600.0	3,585.9	3,488.7	3,449.6	13.1	13.7	-141.52	-404.2	-121.0	662.1	637.5	24.66	26.845	
3,700.0	3,685.3	3,584.4	3,543.0	13.5	14.1	-141.55	-423.4	-128.8	691.1	665.8	25.39	27.217	
3,800.0	3,784.7	3,680.1	3,636.5	13.9	14.6	-141.57	-442.6	-136.5	720.2	694.1	26.13	27.566	
3,900.0	3,884.1	3,775.8	3,729.9	14.3	15.0	-141.59	-461.7	-144.3	749.2	722.3	26.86	27.896	
4,000.0	3,983.5	3,871.5	3,823.3	14.7	15.5	-141.62	-480.9	-152.0	778.2	750.6	27.59	28.207	
4,100.0	4,082.9	3,967.2	3,916.8	15.1	16.0	-141.63	-500.1	-159.7	807.3	778.9	28.32	28.501	
4,200.0	4,182.3	4,062.9	4,010.2	15.5	16.4	-141.65	-519.3	-167.5	836.3	807.2	29.06	28.780	
4,300.0	4,281.7	4,158.6	4,103.6	15.8	16.9	-141.67	-538.4	-175.2	865.3	835.5	29.79	29.044	
4,400.0	4,381.1	4,254.3	4,197.1	16.2	17.4	-141.68	-557.6	-183.0	894.4	863.8	30.53	29.294	
4,500.0	4,480.4	4,350.0	4,290.5	16.6	17.8	-141.70	-576.8	-190.7	923.4	892.1	31.27	29.532	
4,600.0	4,579.8	4,445.7	4,383.9	17.0	18.3	-141.71	-596.0	-198.4	952.4	920.4	32.00	29.759	
4,700.0	4,679.2	4,541.4	4,477.3	17.4	18.8	-141.73	-615.1	-206.2	981.4	948.7	32.74	29.975	
4,800.0	4,778.6	4,637.1	4,570.8	17.8	19.2	-141.74	-634.3	-213.9	1,010.5	977.0	33.48	30.181	
4,900.0	4,878.0	4,732.8	4,664.2	18.2	19.7	-141.75	-653.5	-221.7	1,039.5	1,005.3	34.22	30.377	
5,000.0	4,977.4	4,828.5	4,757.6	18.6	20.2	-141.76	-672.7	-229.4	1,068.5	1,033.6	34.96	30.565	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 0-MWMD												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	5,076.8	4,924.1	4,851.1	19.0	20.6	-141.77	-691.8	-237.1	1,097.6	1,061.9	35.70	30.745	
5,200.0	5,176.2	5,019.8	4,944.5	19.4	21.1	-141.78	-711.0	-244.9	1,126.6	1,090.2	36.44	30.916	
5,300.0	5,275.6	5,115.5	5,037.9	19.8	21.6	-141.79	-730.2	-252.6	1,155.6	1,118.4	37.18	31.081	
5,400.0	5,375.0	5,211.2	5,131.4	20.2	22.1	-141.80	-749.4	-260.3	1,184.7	1,146.7	37.92	31.239	
5,500.0	5,474.3	5,306.9	5,224.8	20.6	22.5	-141.81	-768.5	-268.1	1,213.7	1,175.0	38.66	31.391	
5,600.0	5,573.7	5,402.6	5,318.2	20.9	23.0	-141.82	-787.7	-275.8	1,242.7	1,203.3	39.41	31.536	
5,700.0	5,673.1	5,501.7	5,411.7	21.3	23.5	-141.82	-806.9	-283.6	1,271.7	1,231.6	40.16	31.666	
5,800.0	5,772.5	5,606.0	5,505.1	21.7	24.0	-141.83	-826.1	-291.3	1,300.8	1,259.8	40.94	31.774	
5,900.0	5,871.9	5,689.7	5,598.5	22.1	24.4	-141.84	-845.2	-299.0	1,329.8	1,288.2	41.63	31.940	
6,000.0	5,971.3	5,785.4	5,692.0	22.5	24.9	-141.84	-864.4	-306.8	1,358.8	1,316.5	42.38	32.065	
6,100.0	6,070.7	5,881.1	5,785.4	22.9	25.4	-141.85	-883.6	-314.5	1,387.9	1,344.7	43.12	32.185	
6,200.0	6,170.1	5,976.8	5,878.8	23.3	25.8	-141.86	-902.8	-322.3	1,416.9	1,373.0	43.87	32.301	
6,300.0	6,269.5	6,072.5	5,972.3	23.7	26.3	-141.86	-921.9	-330.0	1,445.9	1,401.3	44.61	32.413	
6,400.0	6,368.9	6,168.2	6,065.7	24.1	26.8	-141.87	-941.1	-337.7	1,475.0	1,429.6	45.35	32.521	
6,500.0	6,468.2	6,263.9	6,159.1	24.5	27.3	-141.87	-960.3	-345.5	1,504.0	1,457.9	46.10	32.625	
6,600.0	6,567.6	6,408.8	6,301.1	24.9	28.0	-141.91	-987.3	-356.4	1,531.7	1,484.5	47.25	32.417	
6,700.0	6,667.0	6,566.4	6,456.6	25.3	28.7	-142.02	-1,011.1	-366.0	1,555.8	1,507.4	48.43	32.126	
6,800.0	6,766.4	6,726.8	6,615.8	25.7	29.3	-142.20	-1,029.2	-373.3	1,576.0	1,526.4	49.53	31.816	
6,900.0	6,865.8	6,889.5	6,777.9	26.1	29.9	-142.45	-1,041.1	-378.1	1,592.2	1,541.7	50.56	31.492	
7,000.0	6,965.2	7,053.8	6,942.2	26.5	30.5	-142.78	-1,046.7	-380.4	1,604.5	1,553.0	51.50	31.158	
7,100.0	7,064.6	7,176.2	7,064.6	26.9	30.8	-143.07	-1,047.1	-380.5	1,613.5	1,561.3	52.25	30.882	
7,200.0	7,164.0	7,275.6	7,164.0	27.3	31.1	-143.30	-1,047.1	-380.5	1,622.4	1,569.5	52.94	30.647	
7,300.0	7,263.4	7,375.0	7,263.4	27.6	31.3	-143.53	-1,047.1	-380.5	1,631.3	1,577.6	53.63	30.418	
7,400.0	7,362.8	7,474.8	7,363.2	28.0	31.6	-143.76	-1,047.1	-380.5	1,640.2	1,585.8	54.32	30.194	
7,500.0	7,462.2	7,588.0	7,475.6	28.4	31.9	-144.42	-1,047.1	-368.8	1,648.6	1,593.6	55.02	29.966	
7,600.0	7,561.5	7,690.4	7,573.5	28.8	32.1	-145.66	-1,049.9	-339.4	1,656.8	1,601.2	55.66	29.768	
7,700.0	7,660.9	7,778.1	7,652.1	29.2	32.2	-147.16	-1,046.6	-300.7	1,665.8	1,609.6	56.25	29.615	
7,800.0	7,760.3	7,850.8	7,712.2	29.6	32.3	-148.69	-1,046.4	-259.7	1,676.8	1,620.0	56.79	29.525	
7,900.0	7,859.7	7,910.3	7,757.1	30.0	32.3	-150.11	-1,046.1	-220.8	1,690.7	1,633.5	57.26	29.525	
8,000.0	7,959.1	7,958.9	7,790.7	30.4	32.3	-151.37	-1,045.9	-185.7	1,708.2	1,650.6	57.64	29.638	
8,100.0	8,058.5	8,000.0	7,816.7	30.8	32.3	-152.50	-1,045.7	-153.9	1,729.8	1,671.9	57.89	29.878	
8,200.0	8,157.9	8,031.8	7,835.2	31.2	32.3	-153.41	-1,045.5	-128.1	1,755.6	1,697.6	58.02	30.260	
8,300.0	8,257.3	8,059.5	7,850.1	31.6	32.3	-154.21	-1,045.4	-104.8	1,785.8	1,727.8	58.01	30.784	
8,373.0	8,329.8	8,076.9	7,858.9	31.9	32.3	-154.73	-1,045.3	-89.8	1,810.6	1,752.7	57.93	31.256	
8,400.0	8,356.7	8,082.8	7,861.8	32.0	32.3	-154.98	-1,045.2	-84.5	1,820.3	1,762.4	57.88	31.449	
8,500.0	8,456.3	8,100.0	7,869.9	32.4	32.3	-155.74	-1,045.1	-69.4	1,857.4	1,799.8	57.60	32.245	
8,600.0	8,556.1	8,121.5	7,879.4	32.7	32.3	-156.64	-1,045.0	-50.1	1,896.5	1,839.2	57.27	33.117	
8,700.0	8,656.0	8,150.0	7,890.8	33.1	32.3	-157.74	-1,044.8	-24.0	1,937.5	1,880.6	56.89	34.056	
8,795.0	8,751.0	8,150.0	7,890.8	33.4	32.3	168.46	-1,044.8	-24.0	1,977.9	1,921.7	56.25	35.161	
8,800.0	8,756.0	8,150.0	7,890.8	33.4	32.3	76.34	-1,044.8	-24.0	1,980.1	1,923.9	56.22	35.222	
8,850.0	8,805.9	8,150.0	7,890.8	33.6	32.3	74.00	-1,044.8	-24.0	2,001.9	1,946.0	55.84	35.851	
8,900.0	8,855.4	8,169.3	7,897.8	33.7	32.3	71.20	-1,044.7	-6.0	2,023.3	1,967.7	55.60	36.389	
8,950.0	8,904.1	8,178.9	7,901.0	33.8	32.3	68.77	-1,044.7	3.1	2,044.5	1,989.2	55.27	36.992	
9,000.0	8,951.6	8,200.0	7,907.6	34.0	32.3	66.21	-1,044.5	23.1	2,065.1	2,010.1	55.02	37.535	
9,050.0	8,997.6	8,200.0	7,907.6	34.1	32.3	64.25	-1,044.5	23.1	2,084.9	2,030.3	54.59	38.189	
9,100.0	9,041.8	8,200.0	7,907.6	34.1	32.3	62.41	-1,044.5	23.1	2,103.9	2,049.8	54.17	38.839	
9,150.0	9,083.7	8,224.0	7,914.2	34.2	32.2	60.31	-1,044.4	46.2	2,121.7	2,067.7	53.96	39.317	
9,200.0	9,123.1	8,250.0	7,920.3	34.3	32.2	58.39	-1,044.2	71.4	2,138.5	2,084.7	53.78	39.762	
9,250.0	9,159.6	8,250.0	7,920.3	34.3	32.2	57.05	-1,044.2	71.4	2,153.6	2,100.2	53.42	40.318	
9,300.0	9,193.1	8,250.0	7,920.3	34.3	32.2	55.84	-1,044.2	71.4	2,167.6	2,114.5	53.09	40.830	
9,350.0	9,223.2	8,276.5	7,925.3	34.4	32.2	54.51	-1,044.1	97.4	2,179.7	2,126.7	53.02	41.113	
9,400.0	9,249.7	8,300.0	7,928.7	34.4	32.2	53.42	-1,043.9	120.7	2,190.4	2,137.4	52.97	41.355	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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-MWMD												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	
9,450.0	9,272.4	8,300.0	7,928.7	34.4	32.2	52.71	-1,043.9	120.7	2,199.2	2,146.4	52.80	41.653	
9,500.0	9,291.1	8,318.7	7,930.7	34.4	32.2	52.02	-1,043.8	139.2	2,206.2	2,153.4	52.84	41.755	
9,550.0	9,305.7	8,347.1	7,932.7	34.4	32.2	51.47	-1,043.6	167.6	2,211.6	2,158.6	53.01	41.722	
9,600.0	9,316.1	8,348.5	7,932.7	34.5	32.2	51.23	-1,043.6	169.0	2,214.7	2,161.7	53.07	41.732	
9,650.0	9,322.2	8,401.7	7,934.9	34.8	32.2	51.04	-1,043.3	218.7	2,215.7	2,162.1	53.57	41.359	
9,676.9	9,323.7	8,425.2	7,936.1	35.0	32.2	51.07	-1,043.1	245.6	2,215.0	2,161.2	53.86	41.124	
9,700.0	9,324.4	8,448.2	7,937.1	35.1	32.2	51.06	-1,042.9	268.6	2,214.2	2,160.0	54.14	40.894	
9,800.0	9,327.6	8,548.2	7,941.4	35.9	32.5	51.02	-1,042.3	368.5	2,210.4	2,154.9	55.50	39.824	
9,900.0	9,330.7	8,648.1	7,945.7	36.8	33.4	50.99	-1,041.7	468.3	2,206.7	2,149.6	57.10	38.645	
10,000.0	9,333.9	8,748.0	7,950.0	37.9	34.7	50.95	-1,041.0	568.1	2,203.1	2,144.2	58.92	37.393	
10,100.0	9,337.0	8,847.9	7,954.4	39.1	36.0	50.92	-1,040.4	668.0	2,199.6	2,138.7	60.93	36.099	
10,200.0	9,340.1	8,947.9	7,958.7	40.3	37.5	50.89	-1,039.7	767.8	2,196.1	2,133.0	63.12	34.791	
10,300.0	9,343.3	9,047.8	7,963.0	41.7	39.1	50.86	-1,039.1	867.6	2,192.7	2,127.3	65.48	33.489	
10,400.0	9,346.4	9,147.7	7,967.3	43.2	40.7	50.84	-1,038.4	967.5	2,189.4	2,121.5	67.97	32.213	
10,500.0	9,349.5	9,247.7	7,971.7	44.8	42.5	50.81	-1,037.8	1,067.3	2,186.2	2,115.6	70.60	30.967	
10,600.0	9,352.7	9,347.6	7,976.0	46.4	44.3	50.79	-1,037.1	1,167.2	2,183.0	2,109.7	73.34	29.767	
10,700.0	9,355.8	9,447.6	7,980.3	48.1	46.2	50.76	-1,036.5	1,267.0	2,179.9	2,103.7	76.18	28.616	
10,800.0	9,358.9	9,547.5	7,984.7	49.9	48.1	50.74	-1,035.9	1,366.9	2,176.9	2,097.8	79.11	27.517	
10,900.0	9,362.0	9,647.5	7,989.0	51.7	50.0	50.72	-1,035.2	1,466.7	2,173.9	2,091.8	82.12	26.472	
11,000.0	9,365.1	9,747.4	7,993.3	53.6	52.0	50.71	-1,034.6	1,566.6	2,171.0	2,085.8	85.21	25.479	
11,100.0	9,368.2	9,847.4	7,997.6	55.6	54.1	50.69	-1,033.9	1,666.5	2,168.2	2,079.8	88.36	24.539	
11,200.0	9,371.3	10,014.1	8,004.9	57.5	57.5	50.63	-1,030.6	1,833.0	2,164.7	2,072.2	92.52	23.398	
11,300.0	9,374.4	10,134.7	8,010.1	59.5	60.1	50.51	-1,023.7	1,953.3	2,158.1	2,062.1	95.97	22.486	
11,400.0	9,377.5	10,234.4	8,014.4	61.5	62.2	50.41	-1,017.9	2,052.7	2,151.4	2,052.3	99.18	21.693	
11,500.0	9,380.6	10,334.2	8,018.7	63.6	64.3	50.31	-1,012.0	2,152.2	2,144.9	2,042.5	102.42	20.943	
11,600.0	9,383.6	10,433.9	8,023.0	65.7	66.5	50.22	-1,006.1	2,251.6	2,138.4	2,032.7	105.68	20.234	
11,700.0	9,386.7	10,533.6	8,027.3	67.8	68.7	50.12	-1,000.3	2,351.1	2,132.0	2,023.0	108.98	19.563	
11,800.0	9,389.8	10,633.3	8,031.7	69.9	70.9	50.03	-994.4	2,450.6	2,125.7	2,013.4	112.30	18.929	
11,900.0	9,392.9	10,733.1	8,036.0	72.1	73.1	49.93	-988.6	2,550.0	2,119.4	2,003.8	115.64	18.328	
12,000.0	9,395.9	10,832.8	8,040.3	74.3	75.3	49.84	-982.7	2,649.5	2,113.2	1,994.2	118.99	17.759	
12,100.0	9,399.0	10,920.4	8,044.1	76.5	77.3	49.76	-977.6	2,736.9	2,107.2	1,985.0	122.20	17.243	
12,200.0	9,402.0	11,000.0	8,047.5	78.7	79.0	49.71	-974.0	2,816.3	2,102.2	1,976.8	125.35	16.771	
12,300.0	9,405.1	11,056.2	8,050.0	80.9	80.3	49.70	-972.8	2,872.5	2,099.0	1,970.8	128.19	16.374	
12,400.0	9,408.1	11,120.4	8,052.7	83.1	81.8	49.71	-972.8	2,936.6	2,097.6	1,966.4	131.17	15.991	
12,429.6	9,409.0	11,139.4	8,053.6	83.8	82.2	49.72	-973.1	2,955.5	2,097.5	1,965.4	132.06	15.882	
12,500.0	9,411.2	11,184.5	8,055.5	85.4	83.3	49.75	-974.2	3,000.6	2,097.9	1,963.7	134.19	15.634	
12,600.0	9,414.2	11,253.6	8,058.3	87.6	84.9	49.81	-977.2	3,069.6	2,100.0	1,962.7	137.32	15.293	
12,700.0	9,417.3	11,353.5	8,061.9	89.9	87.2	49.89	-981.8	3,169.3	2,102.9	1,961.8	141.07	14.906	
12,800.0	9,420.3	11,453.4	8,065.4	92.2	89.5	49.98	-986.3	3,269.1	2,105.8	1,960.9	144.85	14.538	
12,900.0	9,423.3	11,553.3	8,068.9	94.5	91.8	50.06	-990.9	3,368.8	2,108.8	1,960.1	148.65	14.187	
13,000.0	9,426.3	11,653.2	8,072.4	96.8	94.1	50.15	-995.5	3,468.5	2,111.8	1,959.4	152.46	13.851	
13,100.0	9,429.4	11,753.1	8,075.9	99.1	96.5	50.24	-1,000.1	3,568.3	2,115.0	1,958.6	156.31	13.531	
13,200.0	9,432.4	11,853.0	8,079.5	101.4	98.8	50.33	-1,004.7	3,668.0	2,118.2	1,958.0	160.17	13.225	
13,300.0	9,435.4	11,952.9	8,083.0	103.7	101.2	50.42	-1,009.2	3,767.7	2,121.4	1,957.4	164.05	12.932	
13,400.0	9,438.4	12,052.8	8,086.5	106.0	103.5	50.52	-1,013.8	3,867.4	2,124.8	1,956.9	167.95	12.651	
13,500.0	9,441.4	12,232.3	8,092.8	108.3	107.8	50.63	-1,018.7	4,046.8	2,127.1	1,953.8	173.32	12.273	
13,600.0	9,444.4	12,338.6	8,096.6	110.7	110.3	50.64	-1,018.0	4,153.0	2,126.6	1,949.4	177.18	12.002	
13,700.0	9,447.4	12,438.6	8,100.1	113.0	112.6	50.65	-1,017.3	4,252.9	2,126.1	1,945.2	180.95	11.750	
13,800.0	9,450.4	12,538.6	8,103.6	115.3	115.0	50.66	-1,016.7	4,352.8	2,125.8	1,941.0	184.73	11.507	
13,858.5	9,452.1	12,602.9	8,105.6	116.7	116.5	50.67	-1,016.3	4,411.3	2,125.6	1,938.5	187.06	11.363	
13,900.0	9,453.3	12,638.6	8,107.1	117.7	117.4	50.67	-1,016.0	4,452.8	2,125.4	1,936.9	188.52	11.274	
14,000.0	9,456.3	12,752.5	8,111.2	120.0	120.1	50.69	-1,015.3	4,566.6	2,125.1	1,932.5	192.56	11.036	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	9,459.3	12,851.0	8,115.6	122.4	122.4	50.72	-1,014.7	4,665.0	2,124.2	1,927.8	196.38	10.817		
14,200.0	9,462.3	12,951.0	8,120.0	124.7	124.8	50.75	-1,014.0	4,764.9	2,123.3	1,923.1	200.24	10.604		
14,300.0	9,465.3	13,050.9	8,124.5	127.1	127.2	50.78	-1,013.4	4,864.8	2,122.4	1,918.3	204.11	10.398		
14,400.0	9,468.3	13,150.9	8,128.9	129.5	129.6	50.81	-1,012.8	4,964.6	2,121.5	1,913.5	207.99	10.200		
14,500.0	9,471.2	13,250.9	8,133.4	131.8	132.0	50.84	-1,012.1	5,064.5	2,120.6	1,908.8	211.87	10.009		
14,600.0	9,474.2	13,350.9	8,137.8	134.2	134.3	50.87	-1,011.5	5,164.4	2,119.7	1,904.0	215.76	9.825		
14,700.0	9,477.2	13,450.9	8,142.3	136.6	136.7	50.91	-1,010.8	5,264.3	2,118.9	1,899.2	219.66	9.646		
14,800.0	9,480.2	13,550.9	8,146.7	139.0	139.1	50.94	-1,010.2	5,364.2	2,118.0	1,894.4	223.56	9.474		
14,900.0	9,483.2	13,650.9	8,151.2	141.3	141.5	50.97	-1,009.6	5,464.1	2,117.1	1,889.6	227.47	9.307		
15,000.0	9,486.2	13,750.9	8,155.6	143.7	143.9	51.00	-1,008.9	5,564.0	2,116.2	1,884.8	231.39	9.146		
15,100.0	9,489.1	13,850.9	8,160.1	146.1	146.3	51.03	-1,008.3	5,663.9	2,115.3	1,880.0	235.31	8.990		
15,200.0	9,492.1	13,950.9	8,164.5	148.5	148.7	51.06	-1,007.6	5,763.7	2,114.4	1,875.2	239.24	8.838		
15,300.0	9,495.1	14,050.8	8,168.9	150.9	151.1	51.10	-1,007.0	5,863.6	2,113.6	1,870.4	243.17	8.692		
15,400.0	9,498.1	14,150.8	8,173.4	153.3	153.5	51.13	-1,006.4	5,963.5	2,112.7	1,865.6	247.11	8.549		
15,500.0	9,501.1	14,250.8	8,177.8	155.7	155.9	51.16	-1,005.7	6,063.4	2,111.8	1,860.7	251.06	8.412		
15,600.0	9,504.1	14,350.8	8,182.3	158.1	158.3	51.19	-1,005.1	6,163.3	2,110.9	1,855.9	255.01	8.278		
15,700.0	9,507.0	14,450.8	8,186.7	160.5	160.7	51.22	-1,004.5	6,263.2	2,110.0	1,851.1	258.96	8.148		
15,800.0	9,510.0	14,550.8	8,191.2	162.9	163.2	51.25	-1,003.8	6,363.1	2,109.1	1,846.2	262.93	8.022		
15,900.0	9,513.0	14,650.8	8,195.6	165.3	165.6	51.29	-1,003.2	6,463.0	2,108.3	1,841.4	266.89	7.899		
16,000.0	9,516.0	14,750.8	8,200.1	167.7	168.0	51.32	-1,002.5	6,562.9	2,107.4	1,836.5	270.86	7.780		
16,100.0	9,519.0	14,850.8	8,204.5	170.1	170.4	51.35	-1,001.9	6,662.7	2,106.5	1,831.7	274.84	7.664		
16,200.0	9,522.0	14,950.7	8,209.0	172.5	172.8	51.38	-1,001.3	6,762.6	2,105.6	1,826.8	278.82	7.552		
16,300.0	9,524.9	15,050.7	8,213.4	174.9	175.2	51.41	-1,000.6	6,862.5	2,104.8	1,822.0	282.81	7.442		
16,400.0	9,527.9	15,150.7	8,217.8	177.3	177.6	51.45	-1,000.0	6,962.4	2,103.9	1,817.1	286.80	7.336		
16,500.0	9,530.9	15,250.7	8,222.3	179.7	180.1	51.48	-999.4	7,062.3	2,103.0	1,812.2	290.80	7.232		
16,600.0	9,533.9	15,350.7	8,226.7	182.1	182.5	51.51	-998.7	7,162.2	2,102.1	1,807.3	294.80	7.131		
16,700.0	9,536.9	15,450.7	8,231.2	184.5	184.9	51.54	-998.1	7,262.1	2,101.3	1,802.5	298.80	7.032		
16,737.8	9,538.0	15,488.5	8,232.9	185.4	185.8	51.55	-997.8	7,299.9	2,100.9	1,800.6	300.32	6.996 SF		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	0.02	110.0	0.0	110.0				
100.0	100.0	100.0	100.0	0.1	0.1	-45.31	110.0	0.0	109.4	109.1	0.27	411.310	
200.0	200.0	200.0	200.0	0.5	0.5	-46.31	110.0	0.0	107.6	106.6	0.98	109.942	
300.0	299.9	300.1	299.9	0.9	0.8	-48.06	110.0	0.0	104.6	102.9	1.70	61.546	
400.0	399.7	400.3	399.7	1.2	1.2	-50.26	110.0	0.0	101.2	98.8	2.42	41.776	
500.0	499.6	500.4	499.6	1.6	1.6	-52.62	110.0	0.0	97.9	94.8	3.14	31.137	
600.0	599.5	600.5	599.5	2.0	1.9	-55.13	110.0	0.0	94.8	91.0	3.87	24.513	
700.0	699.3	700.7	699.3	2.3	2.3	-57.80	110.0	0.0	91.9	87.3	4.59	20.015	
800.0	799.2	800.8	799.2	2.7	2.6	-60.64	110.0	0.0	89.3	83.9	5.32	16.782	
900.0	899.0	901.0	899.0	3.1	3.0	-63.65	110.0	0.0	86.8	80.8	6.04	14.361	
1,000.0	998.9	998.9	998.9	3.4	3.4	-66.83	110.0	0.0	84.6	77.8	6.76	12.511	
1,100.0	1,098.8	1,099.4	1,099.4	3.8	3.7	-70.71	109.3	-0.5	82.3	74.8	7.48	11.009	
1,200.0	1,198.6	1,199.7	1,199.7	4.2	4.0	-75.95	107.2	-2.1	79.7	71.5	8.18	9.750	
1,300.0	1,298.5	1,299.7	1,299.5	4.5	4.4	-82.72	103.8	-4.7	77.3	68.5	8.88	8.710	
1,400.0	1,398.4	1,399.3	1,399.0	4.9	4.7	-61.74	98.9	-8.4	74.6	65.0	9.58	7.787	
1,500.0	1,498.2	1,498.5	1,497.9	5.2	5.0	-47.69	92.8	-13.1	71.0	60.7	10.29	6.900	
1,600.0	1,597.9	1,597.2	1,596.2	5.6	5.4	-44.84	85.2	-18.8	67.3	56.4	10.98	6.134	
1,700.0	1,697.5	1,695.3	1,693.6	5.9	5.8	-50.49	76.5	-25.4	65.3	53.6	11.65	5.603	
1,716.1	1,713.5	1,711.0	1,709.2	6.0	5.8	-51.98	74.9	-26.6	65.2	53.5	11.76	5.548 CC	
1,729.5	1,726.8	1,724.1	1,722.1	6.1	5.9	-53.31	73.6	-27.6	65.3	53.4	11.84	5.511 ES	
1,800.0	1,796.9	1,807.3	1,790.1	6.3	6.2	-64.88	66.4	-33.1	67.3	55.0	12.34	5.454	
1,900.0	1,896.3	1,909.4	1,887.1	6.7	6.6	-79.72	55.6	-41.3	75.3	62.3	13.01	5.791	
2,000.0	1,995.7	1,988.5	1,984.1	7.0	6.9	-91.18	44.7	-49.5	87.4	73.8	13.61	6.425	
2,100.0	2,095.1	2,086.4	2,081.0	7.4	7.2	-99.66	33.9	-57.8	102.2	87.9	14.29	7.148	
2,200.0	2,194.5	2,184.3	2,178.0	7.8	7.6	-105.94	23.0	-66.0	118.6	103.6	14.99	7.910	
2,300.0	2,293.9	2,282.2	2,274.9	8.1	8.0	-110.68	12.2	-74.3	136.0	120.3	15.69	8.666	
2,400.0	2,393.3	2,380.2	2,371.9	8.5	8.4	-114.32	1.3	-82.5	154.2	137.7	16.40	9.397	
2,500.0	2,492.6	2,478.1	2,468.9	8.9	8.8	-117.20	-9.6	-90.7	172.8	155.7	17.12	10.092	
2,600.0	2,592.0	2,576.0	2,565.8	9.3	9.2	-119.51	-20.4	-99.0	191.8	173.9	17.84	10.749	
2,700.0	2,691.4	2,673.9	2,662.8	9.6	9.6	-121.41	-31.3	-107.2	211.0	192.4	18.56	11.366	
2,800.0	2,790.8	2,771.8	2,759.8	10.0	10.0	-122.99	-42.1	-115.5	230.4	211.1	19.29	11.945	
2,900.0	2,890.2	2,869.7	2,856.7	10.4	10.4	-124.33	-53.0	-123.7	249.9	229.9	20.01	12.488	
3,000.0	2,989.6	2,967.7	2,953.7	10.8	10.8	-125.47	-63.8	-132.0	269.6	248.8	20.74	12.997	
3,100.0	3,089.0	3,065.6	3,050.7	11.2	11.2	-126.45	-74.7	-140.2	289.3	267.9	21.47	13.475	
3,200.0	3,188.4	3,163.5	3,147.6	11.6	11.6	-127.31	-85.5	-148.4	309.2	286.9	22.20	13.923	
3,300.0	3,287.8	3,261.4	3,244.6	11.9	12.0	-128.07	-96.4	-156.7	329.0	306.1	22.94	14.345	
3,400.0	3,387.2	3,359.3	3,341.6	12.3	12.4	-128.74	-107.2	-164.9	349.0	325.3	23.67	14.742	
3,500.0	3,486.5	3,457.2	3,438.5	12.7	12.8	-129.34	-118.1	-173.2	368.9	344.5	24.41	15.116	
3,600.0	3,585.9	3,555.2	3,535.5	13.1	13.2	-129.87	-128.9	-181.4	388.9	363.8	25.14	15.469	
3,700.0	3,685.3	3,653.1	3,632.4	13.5	13.6	-130.36	-139.8	-189.6	409.0	383.1	25.88	15.803	
3,800.0	3,784.7	3,751.0	3,729.4	13.9	14.0	-130.80	-150.6	-197.9	429.0	402.4	26.62	16.118	
3,900.0	3,884.1	3,848.9	3,826.4	14.3	14.4	-131.20	-161.5	-206.1	449.1	421.8	27.36	16.417	
4,000.0	3,983.5	3,946.8	3,923.3	14.7	14.8	-131.56	-172.4	-214.4	469.2	441.1	28.10	16.700	
4,100.0	4,082.9	4,044.7	4,020.3	15.1	15.2	-131.90	-183.2	-222.6	489.3	460.5	28.84	16.970	
4,200.0	4,182.3	4,142.7	4,117.3	15.5	15.7	-132.21	-194.1	-230.8	509.5	479.9	29.58	17.225	
4,300.0	4,281.7	4,240.6	4,214.2	15.8	16.1	-132.49	-204.9	-239.1	529.6	499.3	30.32	17.469	
4,400.0	4,381.1	4,338.5	4,311.2	16.2	16.5	-132.76	-215.8	-247.3	549.8	518.7	31.06	17.701	
4,500.0	4,480.4	4,436.4	4,408.2	16.6	16.9	-133.00	-226.6	-255.6	569.9	538.1	31.80	17.922	
4,600.0	4,579.8	4,534.3	4,505.1	17.0	17.3	-133.23	-237.5	-263.8	590.1	557.6	32.54	18.133	
4,700.0	4,679.2	4,632.2	4,602.1	17.4	17.7	-133.44	-248.3	-272.0	610.3	577.0	33.29	18.335	
4,800.0	4,778.6	4,730.2	4,699.1	17.8	18.1	-133.64	-259.2	-280.3	630.5	596.5	34.03	18.528	
4,900.0	4,878.0	4,828.1	4,796.0	18.2	18.5	-133.83	-270.0	-288.5	650.7	615.9	34.77	18.712	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	4,977.4	4,926.0	4,893.0	18.6	18.9	-134.01	-280.9	-296.8	670.9	635.4	35.52	18.889	
5,100.0	5,076.8	5,023.9	4,989.9	19.0	19.3	-134.17	-291.7	-305.0	691.1	654.8	36.26	19.059	
5,200.0	5,176.2	5,121.8	5,086.9	19.4	19.8	-134.33	-302.6	-313.3	711.3	674.3	37.01	19.222	
5,300.0	5,275.6	5,219.7	5,183.9	19.8	20.2	-134.48	-313.4	-321.5	731.5	693.8	37.75	19.378	
5,400.0	5,375.0	5,317.7	5,280.8	20.2	20.6	-134.62	-324.3	-329.7	751.8	713.3	38.50	19.529	
5,500.0	5,474.3	5,415.6	5,377.8	20.6	21.0	-134.75	-335.2	-338.0	772.0	732.8	39.24	19.673	
5,600.0	5,573.7	5,513.5	5,474.8	20.9	21.4	-134.88	-346.0	-346.2	792.2	752.2	39.99	19.812	
5,700.0	5,673.1	5,611.4	5,571.7	21.3	21.8	-135.00	-356.9	-354.5	812.5	771.7	40.73	19.946	
5,800.0	5,772.5	5,723.6	5,682.9	21.7	22.3	-135.15	-368.7	-363.5	832.2	790.6	41.60	20.004	
5,900.0	5,871.9	5,846.2	5,804.8	22.1	22.8	-135.42	-378.9	-371.2	849.4	806.8	42.53	19.972	
6,000.0	5,971.3	5,969.8	5,928.1	22.5	23.2	-135.79	-386.0	-376.6	863.7	820.3	43.42	19.893	
6,100.0	6,070.7	6,094.2	6,052.4	22.9	23.7	-136.27	-390.0	-379.6	875.2	830.9	44.27	19.771	
6,200.0	6,170.1	6,211.9	6,170.1	23.3	24.0	-136.82	-390.8	-380.2	884.0	838.9	45.04	19.626	
6,300.0	6,269.5	6,311.3	6,269.5	23.7	24.3	-137.31	-390.8	-380.2	892.1	846.3	45.74	19.501	
6,400.0	6,368.9	6,410.7	6,368.9	24.1	24.6	-137.78	-390.8	-380.2	900.2	853.8	46.45	19.382	
6,500.0	6,468.2	6,510.1	6,468.2	24.5	24.9	-138.25	-390.8	-380.2	908.4	861.3	47.15	19.267	
6,600.0	6,567.6	6,609.4	6,567.6	24.9	25.2	-138.71	-390.8	-380.2	916.7	868.9	47.85	19.157	
6,700.0	6,667.0	6,708.8	6,667.0	25.3	25.6	-139.16	-390.8	-380.2	925.1	876.5	48.56	19.051	
6,800.0	6,766.4	6,808.2	6,766.4	25.7	25.9	-139.60	-390.8	-380.2	933.4	884.2	49.26	18.948	
6,900.0	6,865.8	6,907.6	6,865.8	26.1	26.2	-140.03	-390.8	-380.2	941.9	891.9	49.97	18.850	
7,000.0	6,965.2	7,007.0	6,965.2	26.5	26.5	-140.46	-390.8	-380.2	950.4	899.7	50.67	18.756	
7,100.0	7,064.6	7,106.4	7,064.6	26.9	26.8	-140.88	-390.8	-380.2	958.9	907.6	51.38	18.665	
7,200.0	7,164.0	7,205.8	7,164.0	27.3	27.1	-141.29	-390.8	-380.2	967.5	915.5	52.08	18.577	
7,300.0	7,263.4	7,305.2	7,263.4	27.6	27.4	-141.69	-390.8	-380.2	976.2	923.4	52.79	18.493	
7,400.0	7,362.8	7,404.6	7,362.8	28.0	27.7	-142.09	-390.8	-380.2	984.9	931.4	53.49	18.411	
7,500.0	7,462.2	7,504.0	7,462.2	28.4	28.0	-142.48	-390.8	-380.2	993.6	939.4	54.20	18.333	
7,600.0	7,561.5	7,603.3	7,561.5	28.8	28.3	-142.86	-390.8	-380.2	1,002.4	947.5	54.91	18.257	
7,700.0	7,660.9	7,702.7	7,660.9	29.2	28.7	-143.24	-390.8	-380.2	1,011.2	955.6	55.61	18.184	
7,800.0	7,760.3	7,802.1	7,760.3	29.6	29.0	-143.61	-390.8	-380.2	1,020.1	963.8	56.32	18.113	
7,900.0	7,859.7	7,901.5	7,859.7	30.0	29.3	-143.97	-390.8	-380.2	1,029.0	972.0	57.03	18.045	
8,000.0	7,959.1	8,000.9	7,959.1	30.4	29.6	-144.33	-390.8	-380.2	1,038.0	980.3	57.73	17.979	
8,100.0	8,058.5	8,100.3	8,058.5	30.8	29.9	-144.68	-390.8	-380.2	1,047.0	988.5	58.44	17.916	
8,200.0	8,157.9	8,200.3	8,157.9	31.2	30.3	-145.02	-390.8	-380.2	1,056.0	996.9	59.15	17.854	
8,300.0	8,257.3	8,300.9	8,257.3	31.6	30.6	-145.36	-390.8	-380.2	1,065.1	1,005.2	59.86	17.793	
8,373.0	8,329.8	8,371.6	8,329.8	31.9	30.8	-145.61	-390.8	-380.2	1,071.7	1,011.4	60.37	17.753	
8,400.0	8,356.7	8,401.5	8,356.7	32.0	30.9	-145.71	-390.8	-380.2	1,074.1	1,013.5	60.57	17.733	
8,500.0	8,456.3	8,501.9	8,456.3	32.4	31.2	-146.05	-390.8	-380.2	1,081.6	1,020.3	61.28	17.651	
8,600.0	8,556.1	8,602.1	8,556.1	32.7	31.6	-146.28	-390.8	-380.2	1,086.9	1,024.9	61.98	17.538	
8,700.0	8,656.0	8,697.8	8,656.0	33.1	31.9	-146.42	-390.8	-380.2	1,090.1	1,027.4	62.65	17.398	
8,795.0	8,751.0	8,793.4	8,751.4	33.4	32.2	179.74	-390.8	-375.3	1,091.0	1,027.8	63.29	17.239	
8,800.0	8,756.0	8,798.3	8,756.3	33.4	32.2	87.81	-390.8	-374.6	1,091.0	1,027.7	63.32	17.231	
8,850.0	8,805.9	8,847.8	8,804.9	33.6	32.3	87.48	-390.7	-365.6	1,090.9	1,027.3	63.61	17.150	
8,900.0	8,855.4	8,896.7	8,852.0	33.7	32.4	87.17	-390.6	-352.5	1,090.7	1,026.8	63.88	17.073	
8,950.0	8,904.1	8,945.1	8,897.4	33.8	32.6	86.89	-390.5	-335.7	1,090.4	1,026.2	64.13	17.001	
9,000.0	8,951.6	8,993.0	8,940.7	34.0	32.6	86.62	-390.4	-315.4	1,089.9	1,025.5	64.36	16.932	
9,050.0	8,997.6	9,040.4	8,981.8	34.1	32.7	86.38	-390.2	-291.8	1,089.2	1,024.6	64.58	16.866	
9,100.0	9,041.8	9,087.4	9,020.5	34.1	32.8	86.17	-390.0	-265.1	1,088.5	1,023.7	64.78	16.801	
9,150.0	9,083.7	9,134.0	9,056.5	34.2	32.9	85.99	-389.8	-235.6	1,087.6	1,022.6	64.98	16.736	
9,200.0	9,123.1	9,180.2	9,089.8	34.3	32.9	85.84	-389.6	-203.6	1,086.5	1,021.4	65.19	16.668	
9,250.0	9,159.6	9,226.0	9,120.2	34.3	33.0	85.72	-389.3	-169.2	1,085.4	1,020.0	65.40	16.597	
9,300.0	9,193.1	9,271.6	9,147.5	34.3	33.0	85.62	-389.1	-132.8	1,084.1	1,018.5	65.63	16.519	
9,350.0	9,223.2	9,316.8	9,171.7	34.4	33.0	85.56	-388.8	-94.6	1,082.8	1,016.9	65.89	16.434	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
9,400.0	9,249.7	9,361.9	9,192.7	34.4	33.1	85.53	-388.5	-54.8	1,081.3	1,015.1	66.18	16.338	
9,450.0	9,272.4	9,406.7	9,210.5	34.4	33.1	85.53	-388.2	-13.7	1,079.7	1,013.2	66.52	16.232	
9,500.0	9,291.1	9,451.3	9,224.9	34.4	33.2	85.57	-388.0	28.5	1,078.0	1,011.1	66.90	16.113	
9,550.0	9,305.7	9,495.7	9,236.0	34.4	33.3	85.63	-387.7	71.6	1,076.2	1,008.9	67.34	15.981	
9,600.0	9,316.1	9,540.1	9,243.7	34.5	33.5	85.72	-387.3	115.2	1,074.4	1,006.6	67.84	15.838	
9,650.0	9,322.2	9,584.3	9,248.0	34.8	33.8	85.84	-387.0	159.3	1,072.5	1,004.1	68.39	15.683	
9,676.9	9,323.7	9,609.6	9,248.9	35.0	34.0	85.92	-386.9	184.5	1,071.5	1,002.8	68.71	15.594	
9,700.0	9,324.4	9,632.7	9,249.5	35.1	34.1	85.91	-386.7	207.6	1,070.6	1,001.5	69.03	15.509	
9,800.0	9,327.6	9,732.6	9,252.0	35.9	34.9	85.86	-385.9	307.5	1,066.6	996.1	70.55	15.119	
9,900.0	9,330.7	9,832.5	9,254.5	36.8	35.8	85.81	-385.1	407.4	1,062.8	990.4	72.37	14.686	
10,000.0	9,333.9	9,932.4	9,257.0	37.9	36.9	85.76	-384.3	507.2	1,059.0	984.5	74.46	14.222	
10,100.0	9,337.0	10,032.4	9,259.5	39.1	38.1	85.72	-383.6	607.1	1,055.3	978.5	76.81	13.740	
10,200.0	9,340.1	10,132.3	9,262.0	40.3	39.5	85.67	-382.8	707.0	1,051.8	972.4	79.39	13.248	
10,300.0	9,343.3	10,232.2	9,264.4	41.7	40.9	85.62	-382.0	806.9	1,048.3	966.1	82.18	12.756	
10,400.0	9,346.4	10,332.2	9,266.9	43.2	42.4	85.57	-381.2	906.8	1,044.9	959.8	85.16	12.270	
10,500.0	9,349.5	10,432.1	9,269.4	44.8	44.0	85.53	-380.4	1,006.7	1,041.6	953.3	88.31	11.795	
10,600.0	9,352.7	10,532.1	9,271.9	46.4	45.7	85.48	-379.7	1,106.7	1,038.4	946.8	91.61	11.336	
10,700.0	9,355.8	10,632.0	9,274.4	48.1	47.4	85.43	-378.9	1,206.6	1,035.4	940.3	95.05	10.893	
10,800.0	9,358.9	10,732.0	9,276.9	49.9	49.2	85.39	-378.1	1,306.5	1,032.4	933.7	98.61	10.469	
10,900.0	9,362.0	10,831.9	9,279.4	51.7	51.1	85.34	-377.3	1,406.4	1,029.5	927.2	102.28	10.065	
11,000.0	9,365.1	10,931.9	9,281.9	53.6	53.0	85.30	-376.5	1,506.3	1,026.6	920.6	106.04	9.681	
11,100.0	9,368.2	11,031.8	9,284.4	55.6	54.9	85.25	-375.8	1,606.3	1,023.9	914.0	109.90	9.317	
11,200.0	9,371.3	11,131.8	9,286.9	57.5	56.9	85.21	-375.0	1,706.2	1,021.3	907.5	113.83	8.972	
11,300.0	9,374.4	11,231.8	9,289.3	59.5	58.9	85.16	-374.2	1,806.1	1,018.8	901.0	117.84	8.646	
11,400.0	9,377.5	11,331.7	9,291.8	61.5	61.0	85.12	-373.4	1,906.1	1,016.4	894.5	121.90	8.337	
11,500.0	9,380.6	11,431.7	9,294.3	63.6	63.1	85.08	-372.6	2,006.0	1,014.0	888.0	126.03	8.046	
11,600.0	9,383.6	11,531.7	9,296.8	65.7	65.2	85.03	-371.9	2,105.9	1,011.8	881.6	130.21	7.771	
11,700.0	9,386.7	11,631.6	9,299.3	67.8	67.3	84.99	-371.1	2,205.9	1,009.7	875.2	134.43	7.511	
11,800.0	9,389.8	11,731.6	9,301.8	69.9	69.4	84.95	-370.3	2,305.8	1,007.6	868.9	138.70	7.265	
11,900.0	9,392.9	11,831.6	9,304.3	72.1	71.6	84.91	-369.5	2,405.8	1,005.7	862.7	143.00	7.032	
12,000.0	9,395.9	11,931.6	9,306.8	74.3	73.8	84.87	-368.7	2,505.7	1,003.8	856.5	147.35	6.813	
12,100.0	9,399.0	12,031.6	9,309.3	76.5	76.0	84.83	-367.9	2,605.6	1,002.1	850.3	151.72	6.605	
12,200.0	9,402.0	12,131.5	9,311.8	78.7	78.2	84.79	-367.2	2,705.6	1,000.4	844.3	156.12	6.408	
12,300.0	9,405.1	12,231.5	9,314.3	80.9	80.5	84.75	-366.4	2,805.5	998.8	838.3	160.55	6.221	
12,400.0	9,408.1	12,331.5	9,316.7	83.1	82.7	84.71	-365.6	2,905.5	997.4	832.3	165.01	6.044	
12,500.0	9,411.2	12,431.5	9,319.2	85.4	85.0	84.68	-364.8	3,005.5	996.0	826.5	169.48	5.877	
12,600.0	9,414.2	12,531.5	9,321.7	87.6	87.2	84.64	-364.0	3,105.4	994.7	820.7	173.98	5.717	
12,700.0	9,417.3	12,631.5	9,324.2	89.9	89.5	84.60	-363.3	3,205.4	993.5	815.0	178.50	5.566	
12,800.0	9,420.3	12,731.5	9,326.7	92.2	91.8	84.57	-362.5	3,305.3	992.4	809.4	183.04	5.422	
12,900.0	9,423.3	12,831.5	9,329.2	94.5	94.1	84.53	-361.7	3,405.3	991.4	803.8	187.59	5.285	
13,000.0	9,426.3	12,931.5	9,331.7	96.8	96.4	84.50	-360.9	3,505.2	990.5	798.3	192.16	5.155	
13,100.0	9,429.4	13,031.5	9,334.2	99.1	98.7	84.47	-360.1	3,605.2	989.7	792.9	196.74	5.030	
13,200.0	9,432.4	13,131.5	9,336.7	101.4	101.0	84.43	-359.4	3,705.2	989.0	787.6	201.33	4.912	
13,300.0	9,435.4	13,231.5	9,339.2	103.7	103.3	84.40	-358.6	3,805.1	988.3	782.4	205.94	4.799	
13,400.0	9,438.4	13,331.5	9,341.7	106.0	105.7	84.37	-357.8	3,905.1	987.8	777.3	210.56	4.691	
13,500.0	9,441.4	13,431.4	9,344.1	108.3	108.0	84.34	-357.0	4,005.1	987.4	772.2	215.19	4.588	
13,600.0	9,444.4	13,531.4	9,346.6	110.7	110.3	84.31	-356.2	4,105.0	987.1	767.2	219.83	4.490	
13,700.0	9,447.4	13,631.4	9,349.1	113.0	112.7	84.28	-355.5	4,205.0	986.8	762.3	224.48	4.396	
13,800.0	9,450.4	13,731.4	9,351.6	115.3	115.0	84.25	-354.7	4,304.9	986.7	757.5	229.14	4.306	
13,858.5	9,452.1	13,790.0	9,353.1	116.7	116.4	84.24	-354.2	4,363.4	986.6	754.7	231.87	4.255	
13,900.0	9,453.3	13,831.4	9,354.1	117.7	117.4	84.22	-353.9	4,404.9	986.6	752.8	233.81	4.220	
14,000.0	9,456.3	13,931.4	9,356.6	120.0	119.7	84.20	-353.1	4,504.9	986.6	748.1	238.48	4.137	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
14,100.0	9,459.3	14,031.4	9,359.1	122.4	122.1	84.17	-352.3	4,604.8	986.5	743.3	243.16	4.057	
14,200.0	9,462.3	14,131.4	9,361.6	124.7	124.5	84.14	-351.6	4,704.8	986.5	738.6	247.85	3.980	
14,300.0	9,465.3	14,231.4	9,364.1	127.1	126.8	84.11	-350.8	4,804.8	986.4	733.9	252.55	3.906	
14,400.0	9,468.3	14,331.4	9,366.6	129.5	129.2	84.08	-350.0	4,904.7	986.4	729.1	257.25	3.834	
14,500.0	9,471.2	14,431.4	9,369.1	131.8	131.6	84.05	-349.2	5,004.7	986.3	724.4	261.95	3.765	
14,600.0	9,474.2	14,531.4	9,371.5	134.2	133.9	84.02	-348.4	5,104.7	986.3	719.6	266.67	3.699	
14,700.0	9,477.2	14,631.4	9,374.0	136.6	136.3	83.99	-347.6	5,204.6	986.2	714.9	271.38	3.634	
14,800.0	9,480.2	14,731.4	9,376.5	139.0	138.7	83.96	-346.9	5,304.6	986.2	710.1	276.10	3.572	
14,900.0	9,483.2	14,831.4	9,379.0	141.3	141.1	83.93	-346.1	5,404.6	986.2	705.3	280.83	3.512	
15,000.0	9,486.2	14,931.4	9,381.5	143.7	143.5	83.91	-345.3	5,504.5	986.1	700.6	285.56	3.453	
15,100.0	9,489.1	15,031.4	9,384.0	146.1	145.9	83.88	-344.5	5,604.5	986.1	695.8	290.29	3.397	
15,200.0	9,492.1	15,131.4	9,386.5	148.5	148.3	83.85	-343.7	5,704.5	986.0	691.0	295.03	3.342	
15,300.0	9,495.1	15,231.4	9,389.0	150.9	150.7	83.82	-343.0	5,804.4	986.0	686.2	299.77	3.289	
15,400.0	9,498.1	15,331.4	9,391.5	153.3	153.0	83.79	-342.2	5,904.4	985.9	681.4	304.52	3.238	
15,500.0	9,501.1	15,431.4	9,394.0	155.7	155.4	83.76	-341.4	6,004.3	985.9	676.6	309.26	3.188	
15,600.0	9,504.1	15,531.4	9,396.5	158.1	157.8	83.73	-340.6	6,104.3	985.9	671.8	314.02	3.140	
15,700.0	9,507.0	15,631.4	9,399.0	160.5	160.2	83.70	-339.8	6,204.3	985.8	667.1	318.77	3.093	
15,800.0	9,510.0	15,731.4	9,401.4	162.9	162.6	83.67	-339.1	6,304.2	985.8	662.3	323.52	3.047	
15,900.0	9,513.0	15,831.4	9,403.9	165.3	165.0	83.64	-338.3	6,404.2	985.7	657.5	328.28	3.003	
16,000.0	9,516.0	15,931.4	9,406.4	167.7	167.4	83.61	-337.5	6,504.2	985.7	652.7	333.04	2.960	
16,100.0	9,519.0	16,031.4	9,408.9	170.1	169.9	83.59	-336.7	6,604.1	985.7	647.9	337.81	2.918	
16,200.0	9,522.0	16,131.4	9,411.4	172.5	172.3	83.56	-335.9	6,704.1	985.6	643.0	342.57	2.877	
16,300.0	9,524.9	16,231.4	9,413.9	174.9	174.7	83.53	-335.2	6,804.1	985.6	638.2	347.34	2.838	
16,400.0	9,527.9	16,331.4	9,416.4	177.3	177.1	83.50	-334.4	6,904.0	985.5	633.4	352.11	2.799	
16,500.0	9,530.9	16,431.4	9,418.9	179.7	179.5	83.47	-333.6	7,004.0	985.5	628.6	356.88	2.761	
16,600.0	9,533.9	16,531.4	9,421.4	182.1	181.9	83.44	-332.8	7,104.0	985.5	623.8	361.65	2.725	
16,700.0	9,536.9	16,631.4	9,423.9	184.5	184.3	83.41	-332.0	7,203.9	985.4	619.0	366.43	2.689	
16,737.8	9,538.0	16,669.2	9,424.8	185.4	185.2	83.40	-331.7	7,241.7	985.4	617.2	368.23	2.676 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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		
0.0	0.0	0.0	0.0	0.0	0.0	15.28	110.0	30.0	114.0					
100.0	100.0	100.0	100.0	0.1	0.1	-29.94	110.0	30.0	113.2	113.0	0.27	418.553		
200.0	200.0	200.0	200.0	0.5	0.5	-30.63	110.0	30.0	111.0	110.0	0.98	113.262		
300.0	299.9	300.1	299.9	0.9	0.8	-31.84	110.0	30.0	107.3	105.6	1.70	63.077		
400.0	399.7	400.3	399.7	1.2	1.2	-33.37	110.0	30.0	102.8	100.4	2.42	42.484		
500.0	499.6	500.4	499.6	1.6	1.6	-35.05	110.0	30.0	98.5	95.4	3.14	31.364		
600.0	599.5	600.5	599.5	2.0	1.9	-36.87	110.0	30.0	94.3	90.4	3.86	24.409		
700.0	699.3	700.7	699.3	2.3	2.3	-38.87	110.0	30.0	90.1	85.6	4.58	19.662		
800.0	799.2	800.8	799.2	2.7	2.6	-41.05	110.0	30.0	86.1	80.8	5.31	16.227		
900.0	899.0	901.0	899.0	3.1	3.0	-43.45	110.0	30.0	82.2	76.2	6.03	13.637		
1,000.0	998.9	1,001.1	998.9	3.4	3.4	-46.07	110.0	30.0	78.5	71.8	6.76	11.624		
1,100.0	1,098.8	1,101.2	1,098.8	3.8	3.7	-48.95	110.0	30.0	75.0	67.5	7.48	10.024		
1,200.0	1,198.6	1,201.4	1,198.6	4.2	4.1	-52.11	110.0	30.0	71.7	63.5	8.21	8.731		
1,300.0	1,298.5	1,301.5	1,298.5	4.5	4.4	-55.56	110.0	30.0	68.6	59.6	8.94	7.674		
1,400.0	1,398.4	1,401.6	1,398.4	4.9	4.8	-29.38	110.0	30.0	64.8	55.2	9.66	6.714		
1,500.0	1,498.2	1,501.8	1,498.2	5.2	5.2	-7.15	110.0	30.0	59.5	49.1	10.37	5.731		
1,600.0	1,597.9	1,602.1	1,597.9	5.6	5.5	7.84	110.0	30.0	52.3	41.2	11.08	4.717		
1,700.0	1,697.5	1,702.5	1,697.5	5.9	5.9	19.60	110.0	30.0	43.3	31.5	11.78	3.676		
1,729.5	1,726.8	1,726.8	1,726.8	6.1	6.0	23.14	110.0	30.0	40.4	28.4	11.97	3.374		
1,800.0	1,796.9	1,803.1	1,796.9	6.3	6.2	28.39	110.0	30.0	33.4	20.9	12.48	2.674		
1,900.0	1,896.3	1,903.7	1,896.3	6.7	6.6	40.86	110.0	30.0	24.2	11.0	13.17	1.839		
2,000.0	1,995.7	2,004.3	1,995.7	7.0	7.0	65.21	110.0	30.0	17.4	3.5	13.89	1.253 Level 3		
2,066.5	2,061.8	2,061.8	2,061.8	7.3	7.2	90.00	110.0	30.0	15.8	1.4	14.38	1.098 Level 2, CC, ES, SF		
2,100.0	2,095.1	2,104.9	2,095.1	7.4	7.3	103.08	110.0	30.0	16.2	1.5	14.68	1.104 Level 2		
2,200.0	2,194.5	2,205.5	2,194.5	7.8	7.7	132.81	110.0	30.0	21.6	6.2	15.43	1.399 Level 3		
2,300.0	2,293.9	2,306.1	2,293.9	8.1	8.0	148.32	110.0	30.0	30.2	14.1	16.13	1.872		
2,400.0	2,393.3	2,406.7	2,393.3	8.5	8.4	156.63	110.0	30.0	40.0	23.2	16.84	2.377		
2,500.0	2,492.6	2,507.4	2,492.6	8.9	8.8	161.61	110.0	30.0	50.3	32.8	17.54	2.870		
2,600.0	2,592.0	2,608.0	2,592.0	9.3	9.1	164.89	110.0	30.0	60.9	42.7	18.25	3.337		
2,700.0	2,691.4	2,708.6	2,691.4	9.6	9.5	167.19	110.0	30.0	71.6	52.7	18.96	3.777		
2,800.0	2,790.8	2,809.2	2,790.8	10.0	9.8	168.89	110.0	30.0	82.4	62.7	19.67	4.188		
2,900.0	2,890.2	2,909.8	2,890.2	10.4	10.2	170.19	110.0	30.0	93.3	72.9	20.39	4.574		
3,000.0	2,989.6	2,989.6	2,989.6	10.8	10.5	171.23	110.0	30.0	104.1	83.1	21.03	4.952		
3,100.0	3,089.0	3,086.9	3,086.9	11.2	10.8	172.59	108.7	29.7	115.8	94.1	21.70	5.337		
3,200.0	3,188.4	3,183.4	3,183.3	11.6	11.1	174.85	104.3	28.7	129.6	107.3	22.34	5.802		
3,300.0	3,287.8	3,278.9	3,278.5	11.9	11.4	177.65	96.8	26.9	145.7	122.7	22.95	6.348		
3,400.0	3,387.2	3,373.4	3,372.3	12.3	11.8	-179.30	86.3	24.4	164.3	140.8	23.54	6.980		
3,500.0	3,486.5	3,466.5	3,464.5	12.7	12.1	-176.23	73.1	21.3	185.7	161.5	24.10	7.702		
3,600.0	3,585.9	3,558.2	3,554.7	13.1	12.4	-173.26	57.2	17.5	209.8	185.2	24.64	8.517		
3,700.0	3,685.3	3,648.4	3,642.8	13.5	12.7	-170.47	38.9	13.1	236.9	211.8	25.14	9.423		
3,800.0	3,784.7	3,736.7	3,728.6	13.9	13.0	-167.92	18.3	8.2	266.9	241.3	25.61	10.420		
3,900.0	3,884.1	3,823.3	3,812.0	14.3	13.3	-165.60	-4.3	2.8	299.8	273.7	26.05	11.506		
4,000.0	3,983.5	3,907.9	3,892.7	14.7	13.7	-163.51	-28.8	-3.0	335.5	309.0	26.46	12.677		
4,100.0	4,082.9	3,990.4	3,970.8	15.1	14.0	-161.64	-54.9	-9.2	373.9	347.1	26.84	13.929		
4,200.0	4,182.3	4,070.9	4,046.2	15.5	14.3	-159.97	-82.5	-15.8	415.1	387.9	27.20	15.260		
4,300.0	4,281.7	4,149.3	4,118.7	15.8	14.7	-158.47	-111.3	-22.6	458.8	431.2	27.53	16.666		
4,400.0	4,381.1	4,225.5	4,188.5	16.2	15.1	-157.13	-141.2	-29.7	504.9	477.1	27.83	18.143		
4,500.0	4,480.4	4,299.6	4,255.5	16.6	15.4	-155.93	-171.9	-37.1	553.5	525.4	28.11	19.690		
4,600.0	4,579.8	4,383.6	4,330.9	17.0	15.9	-154.72	-208.0	-45.6	603.5	574.9	28.68	21.047		
4,700.0	4,679.2	4,469.5	4,407.9	17.4	16.3	-153.66	-244.8	-54.4	653.8	624.5	29.30	22.313		
4,800.0	4,778.6	4,555.3	4,484.9	17.8	16.8	-152.75	-281.7	-63.2	704.2	674.3	29.94	23.523		
4,900.0	4,878.0	4,641.2	4,562.0	18.2	17.3	-151.96	-318.6	-72.0	754.7	724.2	30.58	24.680		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	4,977.4	4,727.0	4,639.0	18.6	17.8	-151.27	-355.5	-80.7	805.4	774.1	31.23	25.786	
5,100.0	5,076.8	4,812.9	4,716.1	19.0	18.3	-150.67	-392.3	-89.5	856.0	824.2	31.89	26.844	
5,200.0	5,176.2	4,898.8	4,793.1	19.4	18.9	-150.13	-429.2	-98.3	906.8	874.3	32.55	27.856	
5,300.0	5,275.6	4,984.6	4,870.1	19.8	19.4	-149.64	-466.1	-107.1	957.6	924.4	33.22	28.825	
5,400.0	5,375.0	5,070.5	4,947.2	20.2	19.9	-149.21	-502.9	-115.8	1,008.5	974.6	33.90	29.753	
5,500.0	5,474.3	5,156.3	5,024.2	20.6	20.5	-148.81	-539.8	-124.6	1,059.4	1,024.8	34.57	30.642	
5,600.0	5,573.7	5,242.2	5,101.3	20.9	21.1	-148.45	-576.7	-133.4	1,110.3	1,075.1	35.25	31.495	
5,700.0	5,673.1	5,328.0	5,178.3	21.3	21.6	-148.13	-613.5	-142.2	1,161.3	1,125.3	35.94	32.313	
5,800.0	5,772.5	5,413.9	5,255.3	21.7	22.2	-147.83	-650.4	-151.0	1,212.3	1,175.6	36.63	33.098	
5,900.0	5,871.9	5,500.2	5,332.4	22.1	22.8	-147.55	-687.3	-159.7	1,263.3	1,226.0	37.32	33.850	
6,000.0	5,971.3	5,585.6	5,409.4	22.5	23.4	-147.30	-724.2	-168.5	1,314.3	1,276.3	38.01	34.576	
6,100.0	6,070.7	5,671.5	5,486.5	22.9	24.0	-147.07	-761.0	-177.3	1,365.4	1,326.7	38.71	35.272	
6,200.0	6,170.1	5,757.3	5,563.5	23.3	24.6	-146.85	-797.9	-186.1	1,416.4	1,377.0	39.41	35.941	
6,300.0	6,269.5	5,843.2	5,640.5	23.7	25.2	-146.64	-834.8	-194.8	1,467.5	1,427.4	40.11	36.586	
6,400.0	6,368.9	5,929.1	5,717.6	24.1	25.8	-146.45	-871.6	-203.6	1,518.6	1,477.8	40.82	37.206	
6,500.0	6,468.2	6,014.9	5,794.6	24.5	26.4	-146.28	-908.5	-212.4	1,569.7	1,528.2	41.52	37.803	
6,600.0	6,567.6	6,100.8	5,871.7	24.9	27.0	-146.11	-945.4	-221.2	1,620.8	1,578.6	42.23	38.379	
6,700.0	6,667.0	6,186.6	5,948.7	25.3	27.6	-145.96	-982.3	-229.9	1,671.9	1,629.0	42.94	38.935	
6,800.0	6,766.4	6,272.5	6,025.7	25.7	28.3	-145.81	-1,019.1	-238.7	1,723.1	1,679.4	43.65	39.470	
6,900.0	6,865.8	6,358.3	6,102.8	26.1	28.9	-145.67	-1,056.0	-247.5	1,774.2	1,729.8	44.37	39.987	
7,000.0	6,965.2	6,444.2	6,179.8	26.5	29.5	-145.54	-1,092.9	-256.3	1,825.4	1,780.3	45.09	40.487	
7,100.0	7,064.6	6,530.1	6,256.9	26.9	30.1	-145.42	-1,129.7	-265.0	1,876.5	1,830.7	45.80	40.969	
7,200.0	7,164.0	6,615.9	6,333.9	27.3	30.8	-145.30	-1,166.6	-273.8	1,927.7	1,881.1	46.52	41.435	
7,300.0	7,263.4	6,701.8	6,410.9	27.6	31.4	-145.19	-1,203.5	-282.6	1,978.8	1,931.6	47.24	41.886	
7,400.0	7,362.8	6,798.0	6,497.3	28.0	32.1	-145.07	-1,244.8	-292.4	2,030.0	1,981.9	48.10	42.203	
7,500.0	7,462.2	6,881.9	6,664.6	28.4	33.4	-144.90	-1,319.0	-310.1	2,078.7	2,028.7	50.02	41.555	
7,600.0	7,561.5	7,175.4	6,844.4	28.8	34.7	-144.80	-1,388.5	-326.6	2,123.1	2,071.2	51.91	40.900	
7,700.0	7,660.9	7,378.3	7,036.6	29.2	36.0	-144.77	-1,451.9	-341.7	2,163.0	2,109.3	53.73	40.253	
7,800.0	7,760.3	7,590.1	7,240.5	29.6	37.2	-144.80	-1,507.3	-354.9	2,197.9	2,142.5	55.46	39.630	
7,900.0	7,859.7	7,810.0	7,455.3	30.0	38.2	-144.91	-1,553.1	-365.8	2,227.6	2,170.6	57.05	39.044	
8,000.0	7,959.1	8,036.9	7,679.3	30.4	39.2	-145.09	-1,587.6	-374.0	2,251.9	2,193.4	58.48	38.507	
8,100.0	8,058.5	8,269.4	7,910.7	30.8	40.1	-145.34	-1,609.6	-379.3	2,270.3	2,210.6	59.71	38.025	
8,200.0	8,157.9	8,506.1	8,147.2	31.2	40.7	-145.67	-1,617.8	-381.2	2,282.9	2,222.2	60.71	37.602	
8,300.0	8,257.3	8,616.1	8,257.3	31.6	41.0	-145.84	-1,617.9	-381.2	2,292.1	2,230.7	61.41	37.321	
8,373.0	8,329.8	8,688.7	8,329.8	31.9	41.2	-145.95	-1,617.9	-381.2	2,298.8	2,236.8	61.92	37.126	
8,400.0	8,356.7	8,715.5	8,356.7	32.0	41.2	-146.01	-1,617.9	-381.2	2,301.2	2,239.0	62.10	37.054	
8,500.0	8,456.3	8,815.1	8,456.3	32.4	41.5	-146.20	-1,617.9	-381.2	2,308.6	2,245.9	62.79	36.770	
8,600.0	8,556.1	8,914.9	8,556.1	32.7	41.7	-146.33	-1,617.9	-381.2	2,314.0	2,250.5	63.46	36.463	
8,700.0	8,656.0	9,014.8	8,656.0	33.1	42.0	-146.41	-1,617.9	-381.2	2,317.1	2,253.0	64.13	36.133	
8,795.0	8,751.0	9,080.6	8,721.6	33.4	42.1	179.96	-1,618.2	-378.5	2,318.7	2,254.0	64.71	35.834	
8,800.0	8,756.0	9,083.8	8,724.9	33.4	42.1	88.05	-1,618.3	-378.2	2,318.7	2,254.0	64.73	35.819	
8,850.0	8,805.9	9,116.5	8,757.2	33.6	42.2	87.91	-1,618.8	-373.9	2,319.5	2,254.5	65.01	35.682	
8,900.0	8,855.4	9,150.0	8,790.1	33.7	42.3	87.77	-1,619.6	-367.6	2,320.5	2,255.2	65.26	35.559	
8,950.0	8,904.1	9,181.5	8,820.7	33.8	42.3	87.64	-1,620.6	-360.0	2,321.7	2,256.2	65.48	35.455	
9,000.0	8,951.6	9,214.1	8,851.7	34.0	42.4	87.51	-1,621.8	-350.4	2,323.1	2,257.4	65.69	35.364	
9,050.0	8,997.6	9,250.0	8,885.3	34.1	42.5	87.40	-1,623.5	-337.7	2,324.7	2,258.8	65.89	35.281	
9,100.0	9,041.8	9,279.2	8,912.0	34.1	42.5	87.28	-1,625.0	-326.0	2,326.4	2,260.3	66.06	35.218	
9,150.0	9,083.7	9,311.8	8,941.0	34.2	42.6	87.17	-1,626.9	-311.2	2,328.3	2,262.1	66.22	35.159	
9,200.0	9,123.1	9,344.5	8,969.2	34.3	42.6	87.07	-1,629.0	-294.8	2,330.4	2,264.0	66.38	35.105	
9,250.0	9,159.6	9,377.3	8,996.6	34.3	42.7	86.98	-1,631.3	-276.8	2,332.6	2,266.1	66.55	35.053	
9,300.0	9,193.1	9,410.3	9,022.9	34.3	42.7	86.90	-1,633.9	-257.1	2,335.0	2,268.3	66.72	34.999	
9,350.0	9,223.2	9,443.5	9,048.2	34.4	42.8	86.84	-1,636.6	-235.8	2,337.6	2,270.7	66.90	34.940	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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-MWMD												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	
9,400.0	9,249.7	9,476.9	9,072.4	34.4	42.8	86.78	-1,639.6	-213.0	2,340.2	2,273.1	67.11	34.870	
9,450.0	9,272.4	9,510.5	9,095.4	34.4	42.9	86.73	-1,642.7	-188.7	2,343.0	2,275.7	67.35	34.789	
9,500.0	9,291.1	9,544.5	9,117.1	34.4	42.9	86.69	-1,646.0	-162.7	2,345.9	2,278.3	67.62	34.692	
9,550.0	9,305.7	9,578.8	9,137.3	34.4	42.9	86.67	-1,649.6	-135.3	2,349.0	2,281.1	67.94	34.577	
9,600.0	9,316.1	9,613.4	9,156.1	34.5	43.0	86.66	-1,653.3	-106.4	2,352.2	2,283.9	68.29	34.445	
9,650.0	9,322.2	9,650.0	9,174.0	34.8	43.0	86.67	-1,657.4	-74.8	2,355.4	2,286.8	68.68	34.294	
9,676.9	9,323.7	9,667.8	9,182.0	35.0	43.0	86.67	-1,659.4	-59.0	2,357.3	2,288.3	68.91	34.207	
9,700.0	9,324.4	9,684.5	9,189.0	35.1	43.0	86.83	-1,661.4	-44.0	2,358.9	2,289.7	69.12	34.128	
9,800.0	9,327.6	9,761.3	9,215.4	35.9	43.1	87.42	-1,670.6	27.4	2,366.7	2,296.5	70.18	33.721	
9,900.0	9,330.7	9,843.7	9,232.8	36.8	43.1	87.79	-1,680.9	107.3	2,375.5	2,304.0	71.51	33.218	
10,000.0	9,333.9	10,000.0	9,249.0	37.9	43.4	88.03	-1,703.3	329.1	2,382.6	2,309.0	73.60	32.370	
10,100.0	9,337.0	10,358.3	9,259.9	39.1	44.4	88.07	-1,709.9	619.7	2,380.2	2,301.9	78.26	30.413	
10,200.0	9,340.1	10,458.3	9,262.4	40.3	45.0	88.06	-1,709.1	719.6	2,376.5	2,295.7	80.81	29.409	
10,300.0	9,343.3	10,558.2	9,264.9	41.7	45.8	88.04	-1,708.2	819.5	2,372.9	2,289.3	83.56	28.396	
10,400.0	9,346.4	10,658.1	9,267.5	43.2	46.8	88.03	-1,707.3	919.4	2,369.4	2,282.9	86.51	27.388	
10,500.0	9,349.5	10,758.1	9,270.0	44.8	48.0	88.01	-1,706.5	1,019.3	2,366.0	2,276.3	89.63	26.397	
10,600.0	9,352.7	10,858.0	9,272.5	46.4	49.3	88.00	-1,705.6	1,119.2	2,362.6	2,269.7	92.90	25.431	
10,700.0	9,355.8	10,958.0	9,275.1	48.1	50.8	87.98	-1,704.7	1,219.1	2,359.4	2,263.1	96.31	24.497	
10,800.0	9,358.9	11,057.9	9,277.6	49.9	52.4	87.97	-1,703.8	1,319.0	2,356.3	2,256.4	99.85	23.598	
10,900.0	9,362.0	11,157.9	9,280.1	51.7	54.1	87.95	-1,703.0	1,418.9	2,353.3	2,249.8	103.50	22.738	
11,000.0	9,365.1	11,257.8	9,282.6	53.6	55.8	87.94	-1,702.1	1,518.9	2,350.3	2,243.1	107.24	21.916	
11,100.0	9,368.2	11,357.8	9,285.2	55.6	57.6	87.92	-1,701.2	1,618.8	2,347.5	2,236.4	111.08	21.133	
11,200.0	9,371.3	11,457.7	9,287.7	57.5	59.5	87.91	-1,700.3	1,718.7	2,344.7	2,229.7	115.00	20.389	
11,300.0	9,374.4	11,557.7	9,290.2	59.5	61.4	87.89	-1,699.5	1,818.6	2,342.1	2,223.1	118.99	19.683	
11,400.0	9,377.5	11,657.7	9,292.8	61.5	63.4	87.88	-1,698.6	1,918.6	2,339.5	2,216.5	123.05	19.013	
11,500.0	9,380.6	11,757.6	9,295.3	63.6	65.3	87.87	-1,697.7	2,018.5	2,337.1	2,209.9	127.16	18.379	
11,600.0	9,383.6	11,857.6	9,297.8	65.7	67.4	87.85	-1,696.9	2,118.4	2,334.7	2,203.4	131.33	17.777	
11,700.0	9,386.7	11,957.6	9,300.4	67.8	69.4	87.84	-1,696.0	2,218.4	2,332.5	2,196.9	135.55	17.207	
11,800.0	9,389.8	12,057.5	9,302.9	69.9	71.5	87.82	-1,695.1	2,318.3	2,330.3	2,190.5	139.82	16.667	
11,900.0	9,392.9	12,157.5	9,305.4	72.1	73.6	87.81	-1,694.2	2,418.2	2,328.2	2,184.1	144.12	16.154	
12,000.0	9,395.9	12,257.5	9,308.0	74.3	75.7	87.80	-1,693.4	2,518.2	2,326.2	2,177.8	148.46	15.669	
12,100.0	9,399.0	12,357.5	9,310.5	76.5	77.9	87.78	-1,692.5	2,618.1	2,324.3	2,171.5	152.84	15.208	
12,200.0	9,402.0	12,457.5	9,313.0	78.7	80.0	87.77	-1,691.6	2,718.1	2,322.5	2,165.3	157.24	14.770	
12,300.0	9,405.1	12,557.4	9,315.6	80.9	82.2	87.76	-1,690.8	2,818.0	2,320.8	2,159.2	161.68	14.355	
12,400.0	9,408.1	12,657.4	9,318.1	83.1	84.4	87.75	-1,689.9	2,918.0	2,319.2	2,153.1	166.14	13.960	
12,500.0	9,411.2	12,757.4	9,320.6	85.4	86.6	87.73	-1,689.0	3,017.9	2,317.7	2,147.1	170.62	13.584	
12,600.0	9,414.2	12,857.4	9,323.2	87.6	88.8	87.72	-1,688.1	3,117.9	2,316.3	2,141.2	175.13	13.226	
12,700.0	9,417.3	12,957.4	9,325.7	89.9	91.1	87.71	-1,687.3	3,217.8	2,315.0	2,135.3	179.66	12.886	
12,800.0	9,420.3	13,057.4	9,328.3	92.2	93.3	87.70	-1,686.4	3,317.8	2,313.8	2,129.6	184.20	12.561	
12,900.0	9,423.3	13,157.4	9,330.8	94.5	95.6	87.69	-1,685.5	3,417.7	2,312.7	2,123.9	188.77	12.251	
13,000.0	9,426.3	13,257.4	9,333.3	96.8	97.8	87.68	-1,684.6	3,517.7	2,311.6	2,118.3	193.35	11.956	
13,100.0	9,429.4	13,357.4	9,335.9	99.1	100.1	87.66	-1,683.8	3,617.7	2,310.7	2,112.7	197.94	11.674	
13,200.0	9,432.4	13,457.4	9,338.4	101.4	102.4	87.65	-1,682.9	3,717.6	2,309.8	2,107.3	202.55	11.404	
13,300.0	9,435.4	13,557.4	9,340.9	103.7	104.7	87.64	-1,682.0	3,817.6	2,309.1	2,101.9	207.17	11.146	
13,400.0	9,438.4	13,657.4	9,343.5	106.0	107.0	87.63	-1,681.2	3,917.5	2,308.4	2,096.6	211.81	10.899	
13,500.0	9,441.4	13,757.4	9,346.0	108.3	109.3	87.62	-1,680.3	4,017.5	2,307.9	2,091.4	216.46	10.662	
13,600.0	9,444.4	13,857.3	9,348.5	110.7	111.6	87.61	-1,679.4	4,117.5	2,307.4	2,086.3	221.11	10.436	
13,700.0	9,447.4	13,957.3	9,351.1	113.0	113.9	87.60	-1,678.5	4,217.4	2,307.1	2,081.3	225.78	10.218	
13,800.0	9,450.4	14,057.3	9,353.6	115.3	116.2	87.59	-1,677.7	4,317.4	2,306.8	2,076.3	230.46	10.010	
13,858.5	9,452.1	14,115.9	9,355.1	116.7	117.6	87.59	-1,677.2	4,375.9	2,306.7	2,073.5	233.20	9.892	
13,900.0	9,453.3	14,157.3	9,356.1	117.7	118.5	87.58	-1,676.8	4,417.3	2,306.6	2,071.5	235.14	9.809	
14,000.0	9,456.3	14,257.3	9,358.7	120.0	120.9	87.57	-1,675.9	4,517.3	2,306.4	2,066.6	239.84	9.617	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
14,100.0	9,459.3	14,357.3	9,361.2	122.4	123.2	87.56	-1,675.1	4,617.3	2,306.3	2,061.7	244.54	9.431	
14,200.0	9,462.3	14,457.3	9,363.7	124.7	125.6	87.55	-1,674.2	4,717.2	2,306.1	2,056.9	249.25	9.252	
14,300.0	9,465.3	14,557.3	9,366.3	127.1	127.9	87.54	-1,673.3	4,817.2	2,305.9	2,052.0	253.96	9.080	
14,400.0	9,468.3	14,657.3	9,368.8	129.5	130.2	87.52	-1,672.4	4,917.2	2,305.8	2,047.1	258.69	8.913	
14,500.0	9,471.2	14,757.3	9,371.3	131.8	132.6	87.51	-1,671.6	5,017.1	2,305.6	2,042.2	263.42	8.753	
14,600.0	9,474.2	14,857.3	9,373.9	134.2	135.0	87.50	-1,670.7	5,117.1	2,305.4	2,037.3	268.15	8.597	
14,700.0	9,477.2	14,957.3	9,376.4	136.6	137.3	87.49	-1,669.8	5,217.0	2,305.3	2,032.4	272.89	8.448	
14,800.0	9,480.2	15,057.3	9,378.9	139.0	139.7	87.48	-1,668.9	5,317.0	2,305.1	2,027.5	277.64	8.302	
14,900.0	9,483.2	15,157.3	9,381.5	141.3	142.0	87.47	-1,668.1	5,417.0	2,304.9	2,022.5	282.39	8.162	
15,000.0	9,486.2	15,257.3	9,384.0	143.7	144.4	87.46	-1,667.2	5,516.9	2,304.8	2,017.6	287.15	8.026	
15,100.0	9,489.1	15,357.3	9,386.5	146.1	146.8	87.44	-1,666.3	5,616.9	2,304.6	2,012.7	291.91	7.895	
15,200.0	9,492.1	15,457.3	9,389.1	148.5	149.2	87.43	-1,665.5	5,716.9	2,304.4	2,007.8	296.67	7.768	
15,300.0	9,495.1	15,557.3	9,391.6	150.9	151.5	87.42	-1,664.6	5,816.8	2,304.3	2,002.8	301.44	7.644	
15,400.0	9,498.1	15,657.3	9,394.1	153.3	153.9	87.41	-1,663.7	5,916.8	2,304.1	1,997.9	306.22	7.524	
15,500.0	9,501.1	15,757.3	9,396.7	155.7	156.3	87.40	-1,662.8	6,016.8	2,303.9	1,992.9	310.99	7.408	
15,600.0	9,504.1	15,857.3	9,399.2	158.1	158.7	87.39	-1,662.0	6,116.7	2,303.8	1,988.0	315.78	7.296	
15,700.0	9,507.0	15,957.3	9,401.7	160.5	161.1	87.38	-1,661.1	6,216.7	2,303.6	1,983.0	320.56	7.186	
15,800.0	9,510.0	16,057.3	9,404.3	162.9	163.4	87.36	-1,660.2	6,316.6	2,303.4	1,978.1	325.35	7.080	
15,900.0	9,513.0	16,157.3	9,406.8	165.3	165.8	87.35	-1,659.3	6,416.6	2,303.3	1,973.1	330.14	6.977	
16,000.0	9,516.0	16,257.3	9,409.3	167.7	168.2	87.34	-1,658.5	6,516.6	2,303.1	1,968.2	334.93	6.876	
16,100.0	9,519.0	16,357.3	9,411.9	170.1	170.6	87.33	-1,657.6	6,616.5	2,302.9	1,963.2	339.73	6.779	
16,200.0	9,522.0	16,457.3	9,414.4	172.5	173.0	87.32	-1,656.7	6,716.5	2,302.8	1,958.2	344.53	6.684	
16,300.0	9,524.9	16,557.3	9,416.9	174.9	175.4	87.31	-1,655.9	6,816.5	2,302.6	1,953.3	349.33	6.592	
16,400.0	9,527.9	16,657.3	9,419.5	177.3	177.8	87.30	-1,655.0	6,916.4	2,302.4	1,948.3	354.13	6.502	
16,500.0	9,530.9	16,757.3	9,422.0	179.7	180.2	87.28	-1,654.1	7,016.4	2,302.3	1,943.3	358.94	6.414	
16,600.0	9,533.9	16,857.3	9,424.5	182.1	182.6	87.27	-1,653.2	7,116.3	2,302.1	1,938.4	363.75	6.329	
16,700.0	9,536.9	16,957.3	9,427.1	184.5	185.0	87.26	-1,652.4	7,216.3	2,301.9	1,933.4	368.56	6.246	
16,737.8	9,538.0	17,004.9	9,428.0	185.4	186.1	87.26	-1,652.0	7,254.1	2,301.9	1,931.3	370.62	6.211	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	90.01	0.0	30.0	30.0				
100.0	100.0	99.5	99.5	0.1	0.1	46.17	0.0	30.9	30.3	30.0	0.26	117.467 ES	
200.0	200.0	198.9	198.9	0.5	0.5	49.53	0.0	33.5	31.1	30.1	0.98	31.647	
300.0	299.9	301.7	298.2	0.9	0.9	54.70	0.0	37.8	32.7	31.0	1.72	18.997	
400.0	399.7	401.8	398.0	1.2	1.2	60.25	0.0	43.0	35.0	32.6	2.44	14.353	
500.0	499.6	501.9	497.7	1.6	1.6	65.07	0.0	48.2	37.6	34.5	3.16	11.891	
600.0	599.5	601.9	597.5	2.0	2.0	69.25	0.0	53.5	40.4	36.6	3.89	10.397	
700.0	699.3	702.0	697.3	2.3	2.3	72.87	0.0	58.7	43.4	38.8	4.62	9.410	
800.0	799.2	802.1	797.1	2.7	2.7	76.01	0.0	63.9	46.6	41.3	5.35	8.718	
900.0	899.0	902.2	896.9	3.1	3.1	78.74	0.0	69.1	49.9	43.8	6.08	8.210	
1,000.0	998.9	997.7	996.7	3.4	3.4	81.13	0.0	74.4	53.3	46.5	6.79	7.844	
1,100.0	1,098.8	1,098.2	1,097.0	3.8	3.8	84.90	-1.0	78.3	56.3	48.8	7.52	7.487	
1,200.0	1,198.6	1,198.3	1,197.0	4.2	4.1	91.59	-4.0	79.3	59.0	50.7	8.24	7.161	
1,300.0	1,298.5	1,297.8	1,296.5	4.5	4.5	100.78	-9.1	77.5	62.4	53.5	8.94	6.983	
1,400.0	1,398.4	1,396.7	1,394.9	4.9	4.8	140.09	-16.1	73.0	69.0	59.4	9.62	7.170	
1,500.0	1,498.2	1,504.6	1,493.1	5.2	5.1	172.20	-24.3	66.8	79.9	69.6	10.32	7.743	
1,600.0	1,597.9	1,605.8	1,591.4	5.6	5.5	-167.89	-32.5	60.6	93.7	82.8	10.99	8.527	
1,700.0	1,697.5	1,707.2	1,689.4	5.9	5.8	-156.17	-40.7	54.4	109.7	98.0	11.67	9.394	
1,729.5	1,726.8	1,721.8	1,718.3	6.1	5.9	-153.75	-43.1	52.6	114.7	102.9	11.82	9.699	
1,800.0	1,796.9	1,808.7	1,787.4	6.3	6.2	-152.97	-48.8	48.3	126.9	114.5	12.36	10.265	
1,900.0	1,896.3	1,889.7	1,885.3	6.7	6.5	-152.09	-57.0	42.1	144.2	131.2	12.98	11.109	
2,000.0	1,995.7	1,988.2	1,983.2	7.0	6.8	-151.41	-65.2	35.9	161.5	147.8	13.66	11.820	
2,100.0	2,095.1	2,086.7	2,081.2	7.4	7.2	-150.85	-73.4	29.7	178.9	164.5	14.36	12.458	
2,200.0	2,194.5	2,185.1	2,179.1	7.8	7.6	-150.40	-81.6	23.5	196.2	181.2	15.05	13.035	
2,300.0	2,293.9	2,283.6	2,277.0	8.1	7.9	-150.01	-89.7	17.4	213.6	197.9	15.76	13.557	
2,400.0	2,393.3	2,382.1	2,375.0	8.5	8.3	-149.69	-97.9	11.2	231.0	214.5	16.46	14.032	
2,500.0	2,492.6	2,480.5	2,472.9	8.9	8.7	-149.41	-106.1	5.0	248.4	231.2	17.17	14.466	
2,600.0	2,592.0	2,579.0	2,570.9	9.3	9.0	-149.17	-114.3	-1.2	265.8	247.9	17.88	14.863	
2,700.0	2,691.4	2,677.5	2,668.8	9.6	9.4	-148.95	-122.4	-7.4	283.2	264.6	18.60	15.228	
2,800.0	2,790.8	2,776.0	2,766.7	10.0	9.8	-148.77	-130.6	-13.6	300.6	281.3	19.31	15.565	
2,900.0	2,890.2	2,874.4	2,864.7	10.4	10.2	-148.60	-138.8	-19.7	318.0	298.0	20.03	15.876	
3,000.0	2,989.6	2,972.9	2,962.6	10.8	10.5	-148.45	-147.0	-25.9	335.4	314.7	20.75	16.164	
3,100.0	3,089.0	3,071.4	3,060.5	11.2	10.9	-148.31	-155.2	-32.1	352.8	331.3	21.47	16.432	
3,200.0	3,188.4	3,169.8	3,158.5	11.6	11.3	-148.19	-163.3	-38.3	370.2	348.0	22.20	16.681	
3,300.0	3,287.8	3,268.3	3,256.4	11.9	11.7	-148.08	-171.5	-44.5	387.6	364.7	22.92	16.914	
3,400.0	3,387.2	3,366.8	3,354.3	12.3	12.1	-147.98	-179.7	-50.6	405.1	381.4	23.64	17.131	
3,500.0	3,486.5	3,465.2	3,452.3	12.7	12.4	-147.88	-187.9	-56.8	422.5	398.1	24.37	17.335	
3,600.0	3,585.9	3,563.7	3,550.2	13.1	12.8	-147.80	-196.1	-63.0	439.9	414.8	25.10	17.526	
3,700.0	3,685.3	3,662.2	3,648.1	13.5	13.2	-147.72	-204.2	-69.2	457.3	431.5	25.83	17.706	
3,800.0	3,784.7	3,760.6	3,746.1	13.9	13.6	-147.64	-212.4	-75.4	474.7	448.2	26.56	17.876	
3,900.0	3,884.1	3,859.1	3,844.0	14.3	14.0	-147.57	-220.6	-81.5	492.2	464.9	27.29	18.036	
4,000.0	3,983.5	3,957.6	3,941.9	14.7	14.4	-147.51	-228.8	-87.7	509.6	481.6	28.02	18.188	
4,100.0	4,082.9	4,056.1	4,039.9	15.1	14.8	-147.45	-236.9	-93.9	527.0	498.3	28.75	18.331	
4,200.0	4,182.3	4,154.5	4,137.8	15.5	15.1	-147.40	-245.1	-100.1	544.4	514.9	29.48	18.466	
4,300.0	4,281.7	4,253.0	4,235.7	15.8	15.5	-147.34	-253.3	-106.3	561.8	531.6	30.21	18.595	
4,400.0	4,381.1	4,351.5	4,333.7	16.2	15.9	-147.29	-261.5	-112.4	579.3	548.3	30.95	18.718	
4,500.0	4,480.4	4,449.9	4,431.6	16.6	16.3	-147.25	-269.7	-118.6	596.7	565.0	31.68	18.834	
4,600.0	4,579.8	4,548.4	4,529.5	17.0	16.7	-147.20	-277.8	-124.8	614.1	581.7	32.42	18.945	
4,700.0	4,679.2	4,646.9	4,627.5	17.4	17.1	-147.16	-286.0	-131.0	631.5	598.4	33.15	19.051	
4,800.0	4,778.6	4,745.3	4,725.4	17.8	17.5	-147.12	-294.2	-137.2	649.0	615.1	33.89	19.152	
4,900.0	4,878.0	4,843.8	4,823.3	18.2	17.8	-147.09	-302.4	-143.3	666.4	631.8	34.62	19.248	
5,000.0	4,977.4	4,942.3	4,921.3	18.6	18.2	-147.05	-310.5	-149.5	683.8	648.5	35.36	19.341	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	5,076.8	5,040.7	5,019.2	19.0	18.6	-147.02	-318.7	-155.7	701.2	665.2	36.09	19.429	
5,200.0	5,176.2	5,139.2	5,117.1	19.4	19.0	-146.99	-326.9	-161.9	718.7	681.8	36.83	19.514	
5,300.0	5,275.6	5,237.7	5,215.1	19.8	19.4	-146.96	-335.1	-168.1	736.1	698.5	37.57	19.595	
5,400.0	5,375.0	5,336.2	5,313.0	20.2	19.8	-146.93	-343.3	-174.2	753.5	715.2	38.30	19.673	
5,500.0	5,474.3	5,434.6	5,410.9	20.6	20.2	-146.90	-351.4	-180.4	770.9	731.9	39.04	19.748	
5,600.0	5,573.7	5,533.1	5,508.9	20.9	20.6	-146.87	-359.6	-186.6	788.4	748.6	39.78	19.820	
5,700.0	5,673.1	5,631.6	5,606.8	21.3	20.9	-146.85	-367.8	-192.8	805.8	765.3	40.52	19.889	
5,800.0	5,772.5	5,730.0	5,704.7	21.7	21.3	-146.82	-376.0	-199.0	823.2	782.0	41.25	19.955	
5,900.0	5,871.9	5,828.5	5,802.7	22.1	21.7	-146.80	-384.2	-205.1	840.7	798.7	41.99	20.020	
6,000.0	5,971.3	5,927.0	5,900.6	22.5	22.1	-146.78	-392.3	-211.3	858.1	815.4	42.73	20.082	
6,100.0	6,070.7	6,025.4	5,998.5	22.9	22.5	-146.76	-400.5	-217.5	875.5	832.0	43.47	20.141	
6,200.0	6,170.1	6,123.9	6,096.5	23.3	22.9	-146.74	-408.7	-223.7	892.9	848.7	44.21	20.199	
6,300.0	6,269.5	6,222.4	6,194.4	23.7	23.3	-146.72	-416.9	-229.9	910.4	865.4	44.95	20.254	
6,400.0	6,368.9	6,320.8	6,292.4	24.1	23.7	-146.70	-425.0	-236.1	927.8	882.1	45.69	20.308	
6,500.0	6,468.2	6,419.3	6,390.3	24.5	24.1	-146.68	-433.2	-242.2	945.2	898.8	46.42	20.360	
6,600.0	6,567.6	6,517.8	6,488.2	24.9	24.4	-146.66	-441.4	-248.4	962.6	915.5	47.16	20.410	
6,700.0	6,667.0	6,616.3	6,586.2	25.3	24.8	-146.64	-449.6	-254.6	980.1	932.2	47.90	20.459	
6,800.0	6,766.4	6,714.7	6,684.1	25.7	25.2	-146.63	-457.8	-260.8	997.5	948.9	48.64	20.506	
6,900.0	6,865.8	6,813.2	6,782.0	26.1	25.6	-146.61	-465.9	-267.0	1,014.9	965.5	49.38	20.552	
7,000.0	6,965.2	6,911.7	6,880.0	26.5	26.0	-146.60	-474.1	-273.1	1,032.4	982.2	50.12	20.596	
7,100.0	7,064.6	7,010.1	6,977.9	26.9	26.4	-146.58	-482.3	-279.3	1,049.8	998.9	50.86	20.639	
7,200.0	7,164.0	7,108.6	7,075.8	27.3	26.8	-146.57	-490.5	-285.5	1,067.2	1,015.6	51.60	20.680	
7,300.0	7,263.4	7,207.1	7,173.8	27.6	27.2	-146.55	-498.6	-291.7	1,084.6	1,032.3	52.35	20.721	
7,400.0	7,362.8	7,305.5	7,271.7	28.0	27.6	-146.54	-506.8	-297.9	1,102.1	1,049.0	53.09	20.760	
7,500.0	7,462.2	7,404.0	7,369.6	28.4	27.9	-146.53	-515.0	-304.0	1,119.5	1,065.7	53.83	20.798	
7,600.0	7,561.5	7,502.5	7,467.6	28.8	28.3	-146.52	-523.2	-310.2	1,136.9	1,082.4	54.57	20.835	
7,700.0	7,660.9	7,600.9	7,565.5	29.2	28.7	-146.50	-531.4	-316.4	1,154.4	1,099.0	55.31	20.871	
7,800.0	7,760.3	7,700.6	7,663.4	29.6	29.1	-146.49	-539.5	-322.6	1,171.8	1,115.7	56.05	20.904	
7,900.0	7,859.7	7,802.1	7,761.4	30.0	29.5	-146.48	-547.7	-328.8	1,189.2	1,132.4	56.81	20.934	
8,000.0	7,959.1	7,903.6	7,859.3	30.4	29.9	-146.47	-555.9	-334.9	1,206.6	1,149.1	57.56	20.963	
8,100.0	8,058.5	8,005.2	7,957.2	30.8	30.3	-146.46	-564.1	-341.1	1,224.1	1,165.8	58.31	20.991	
8,200.0	8,157.9	8,093.3	8,055.2	31.2	30.7	-146.45	-572.2	-347.3	1,241.5	1,182.5	59.02	21.037	
8,300.0	8,257.3	8,208.2	8,153.1	31.6	31.1	-146.44	-580.4	-353.5	1,258.9	1,199.1	59.82	21.045	
8,373.0	8,329.8	8,263.6	8,224.6	31.9	31.3	-146.43	-586.4	-358.0	1,271.6	1,211.3	60.30	21.089	
8,400.0	8,356.7	8,309.8	8,251.1	32.0	31.5	-146.46	-588.6	-359.7	1,276.3	1,215.7	60.57	21.070	
8,500.0	8,456.3	8,389.0	8,349.3	32.4	31.8	-146.54	-596.8	-365.9	1,292.0	1,230.8	61.24	21.099	
8,600.0	8,556.1	8,499.2	8,458.9	32.7	32.3	-146.51	-605.8	-372.7	1,305.6	1,243.5	62.05	21.040	
8,700.0	8,656.0	8,606.0	8,615.3	33.1	32.9	-146.45	-614.1	-378.9	1,314.0	1,250.9	63.12	20.817	
8,795.0	8,751.0	8,789.5	8,748.8	33.4	33.3	179.98	-615.8	-379.8	1,316.1	1,252.2	63.94	20.583	
8,800.0	8,756.0	8,794.1	8,753.4	33.4	33.3	88.08	-615.8	-379.6	1,316.1	1,252.1	63.97	20.574	
8,850.0	8,805.9	8,839.5	8,798.6	33.6	33.5	88.01	-616.0	-375.7	1,316.2	1,252.0	64.26	20.482	
8,900.0	8,855.4	8,884.9	8,843.4	33.7	33.6	87.94	-616.3	-368.2	1,316.3	1,251.8	64.53	20.399	
8,950.0	8,904.1	8,930.2	8,887.3	33.8	33.7	87.89	-616.8	-357.2	1,316.5	1,251.7	64.78	20.322	
9,000.0	8,951.6	8,975.5	8,930.2	34.0	33.8	87.86	-617.4	-342.8	1,316.6	1,251.6	65.01	20.253	
9,050.0	8,997.6	9,020.7	8,971.8	34.1	33.9	87.84	-618.1	-325.1	1,316.8	1,251.6	65.22	20.189	
9,100.0	9,041.8	9,066.0	9,011.9	34.1	34.0	87.83	-619.0	-304.2	1,317.0	1,251.6	65.43	20.129	
9,150.0	9,083.7	9,111.2	9,050.2	34.2	34.0	87.84	-620.0	-280.1	1,317.2	1,251.6	65.62	20.073	
9,200.0	9,123.1	9,156.6	9,086.6	34.3	34.1	87.86	-621.2	-253.0	1,317.4	1,251.6	65.82	20.017	
9,250.0	9,159.6	9,202.0	9,120.8	34.3	34.1	87.90	-622.4	-223.1	1,317.7	1,251.7	66.01	19.960	
9,300.0	9,193.1	9,247.6	9,152.5	34.3	34.2	87.95	-623.8	-190.6	1,317.9	1,251.7	66.23	19.899	
9,350.0	9,223.2	9,293.2	9,181.7	34.4	34.2	88.02	-625.2	-155.4	1,318.2	1,251.7	66.47	19.831	
9,400.0	9,249.7	9,339.1	9,208.1	34.4	34.2	88.10	-626.8	-118.0	1,318.5	1,251.7	66.74	19.754	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
9,450.0	9,272.4	9,385.1	9,231.4	34.4	34.2	88.20	-628.5	-78.3	1,318.7	1,251.7	67.06	19.666	
9,500.0	9,291.1	9,431.4	9,251.6	34.4	34.2	88.30	-630.2	-36.8	1,319.0	1,251.6	67.42	19.564	
9,550.0	9,305.7	9,477.9	9,268.5	34.4	34.2	88.42	-632.0	6.5	1,319.3	1,251.5	67.84	19.449	
9,600.0	9,316.1	9,524.7	9,281.8	34.5	34.2	88.55	-633.9	51.3	1,319.7	1,251.4	68.31	19.319	
9,650.0	9,322.2	9,571.8	9,291.5	34.8	34.2	88.70	-635.8	97.3	1,320.0	1,251.2	68.84	19.176	
9,676.9	9,323.7	9,597.3	9,295.2	35.0	34.3	88.78	-636.9	122.5	1,320.2	1,251.0	69.14	19.094	
9,700.0	9,324.4	9,619.2	9,297.5	35.1	34.4	88.84	-637.8	144.4	1,320.4	1,250.9	69.42	19.021	
9,800.0	9,327.6	9,720.3	9,303.8	35.9	35.0	88.98	-642.0	245.2	1,321.2	1,250.4	70.84	18.649	
9,900.0	9,330.7	9,822.3	9,310.0	36.8	35.9	89.12	-646.0	346.8	1,322.0	1,249.4	72.58	18.214	
10,000.0	9,333.9	9,924.2	9,316.1	37.9	36.9	89.24	-649.9	448.5	1,322.7	1,248.1	74.60	17.730	
10,100.0	9,337.0	10,026.2	9,322.1	39.1	38.1	89.37	-653.7	550.3	1,323.4	1,246.5	76.89	17.212	
10,200.0	9,340.1	10,128.2	9,328.0	40.3	39.4	89.48	-657.2	652.0	1,324.1	1,244.7	79.42	16.671	
10,300.0	9,343.3	10,230.2	9,333.8	41.7	40.7	89.60	-660.7	753.8	1,324.7	1,242.5	82.18	16.120	
10,400.0	9,346.4	10,332.1	9,339.5	43.2	42.2	89.71	-663.9	855.5	1,325.2	1,240.1	85.13	15.568	
10,500.0	9,349.5	10,434.1	9,345.1	44.8	43.8	89.82	-667.1	957.3	1,325.7	1,237.5	88.26	15.021	
10,600.0	9,352.7	10,536.1	9,350.6	46.4	45.4	89.92	-670.0	1,059.1	1,326.1	1,234.6	91.55	14.486	
10,700.0	9,355.8	10,638.1	9,356.0	48.1	47.2	90.02	-672.8	1,160.9	1,326.5	1,231.5	94.98	13.966	
10,800.0	9,358.9	10,740.1	9,361.4	49.9	49.0	90.11	-675.5	1,262.8	1,326.9	1,228.3	98.55	13.464	
10,900.0	9,362.0	10,842.1	9,366.6	51.7	50.8	90.20	-678.0	1,364.6	1,327.1	1,224.9	102.22	12.983	
11,000.0	9,365.1	10,944.1	9,371.7	53.6	52.7	90.29	-680.3	1,466.5	1,327.4	1,221.3	106.01	12.521	
11,100.0	9,368.2	11,046.2	9,376.8	55.6	54.7	90.37	-682.5	1,568.3	1,327.5	1,217.6	109.88	12.081	
11,200.0	9,371.3	11,148.2	9,381.7	57.5	56.7	90.45	-684.5	1,670.2	1,327.6	1,213.8	113.84	11.662	
11,300.0	9,374.4	11,250.2	9,386.6	59.5	58.7	90.53	-686.4	1,772.1	1,327.7	1,209.8	117.87	11.264	
11,400.0	9,377.5	11,352.2	9,391.3	61.5	60.8	90.60	-688.1	1,874.0	1,327.7	1,205.7	121.97	10.885	
11,500.0	9,380.6	11,454.3	9,396.0	63.6	62.8	90.66	-689.7	1,975.9	1,327.6	1,201.5	126.13	10.526	
11,600.0	9,383.6	11,556.3	9,400.5	65.7	65.0	90.73	-691.1	2,077.8	1,327.5	1,197.2	130.34	10.185	
11,700.0	9,386.7	11,658.3	9,405.0	67.8	67.1	90.79	-692.3	2,179.8	1,327.3	1,192.7	134.61	9.861	
11,800.0	9,389.8	11,760.4	9,409.4	69.9	69.3	90.84	-693.4	2,281.7	1,327.1	1,188.2	138.92	9.553	
11,900.0	9,392.9	11,862.4	9,413.7	72.1	71.5	90.89	-694.4	2,383.6	1,326.8	1,183.5	143.26	9.261	
12,000.0	9,395.9	11,964.4	9,417.8	74.3	73.7	90.94	-695.2	2,485.6	1,326.5	1,178.8	147.65	8.984	
12,100.0	9,399.0	12,066.5	9,421.9	76.5	75.9	90.98	-695.8	2,587.5	1,326.1	1,174.0	152.07	8.720	
12,200.0	9,402.0	12,168.5	9,425.9	78.7	78.2	91.02	-696.3	2,689.5	1,325.6	1,169.1	156.52	8.469	
12,300.0	9,405.1	12,270.6	9,429.8	80.9	80.4	91.06	-696.6	2,791.5	1,325.1	1,164.1	161.00	8.230	
12,400.0	9,408.1	12,372.6	9,433.6	83.1	82.7	91.09	-696.7	2,893.4	1,324.5	1,159.0	165.51	8.003	
12,500.0	9,411.2	12,474.6	9,437.3	85.4	85.0	91.12	-696.8	2,995.4	1,323.9	1,153.8	170.03	7.786	
12,600.0	9,414.2	12,576.7	9,440.9	87.6	87.3	91.14	-696.6	3,097.4	1,323.2	1,148.6	174.59	7.579	
12,700.0	9,417.3	12,678.7	9,444.4	89.9	89.6	91.16	-696.3	3,199.4	1,322.4	1,143.2	179.16	7.381	
12,800.0	9,420.3	12,780.8	9,447.8	92.2	91.9	91.18	-695.8	3,301.3	1,321.6	1,137.8	183.75	7.192	
12,900.0	9,423.3	12,882.8	9,451.1	94.5	94.2	91.19	-695.2	3,403.3	1,320.7	1,132.4	188.35	7.012	
13,000.0	9,426.3	12,983.0	9,454.3	96.8	96.5	91.20	-694.5	3,503.5	1,319.8	1,126.9	192.94	6.841	
13,100.0	9,429.4	13,083.0	9,457.5	99.1	98.8	91.21	-693.8	3,603.4	1,319.1	1,121.5	197.53	6.678	
13,200.0	9,432.4	13,183.0	9,460.7	101.4	101.1	91.22	-693.1	3,703.3	1,318.4	1,116.2	202.15	6.522	
13,300.0	9,435.4	13,283.0	9,463.9	103.7	103.4	91.23	-692.4	3,803.3	1,317.8	1,111.0	206.77	6.373	
13,400.0	9,438.4	13,383.0	9,467.1	106.0	105.7	91.24	-691.7	3,903.2	1,317.3	1,105.9	211.41	6.231	
13,500.0	9,441.4	13,483.0	9,470.3	108.3	108.0	91.25	-691.1	4,003.2	1,316.9	1,100.9	216.05	6.095	
13,600.0	9,444.4	13,583.0	9,473.5	110.7	110.3	91.26	-690.4	4,103.1	1,316.6	1,095.9	220.71	5.965	
13,700.0	9,447.4	13,683.0	9,476.7	113.0	112.7	91.28	-689.7	4,203.1	1,316.4	1,091.0	225.38	5.841	
13,800.0	9,450.4	13,783.0	9,479.9	115.3	115.0	91.29	-689.0	4,303.0	1,316.3	1,086.3	230.06	5.722	
13,858.5	9,452.1	13,841.5	9,481.8	116.7	116.4	91.29	-688.6	4,361.5	1,316.3	1,083.5	232.80	5.654	
13,900.0	9,453.3	13,883.0	9,483.1	117.7	117.3	91.30	-688.3	4,403.0	1,316.3	1,081.5	234.74	5.607	
14,000.0	9,456.3	13,983.0	9,486.3	120.0	119.7	91.31	-687.6	4,502.9	1,316.3	1,076.8	239.44	5.497	
14,100.0	9,459.3	14,083.0	9,489.5	122.4	122.0	91.31	-686.9	4,602.9	1,316.3	1,072.1	244.14	5.392	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	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	
14,200.0	9,462.3	14,183.0	9,492.7	124.7	124.4	91.32	-686.2	4,702.8	1,316.3	1,067.4	248.85	5.289	
14,300.0	9,465.3	14,283.0	9,495.9	127.1	126.7	91.33	-685.5	4,802.7	1,316.3	1,062.7	253.57	5.191	
14,400.0	9,468.3	14,383.0	9,499.1	129.5	129.1	91.34	-684.8	4,902.7	1,316.3	1,058.0	258.29	5.096	
14,500.0	9,471.2	14,483.0	9,502.3	131.8	131.4	91.35	-684.1	5,002.6	1,316.3	1,053.2	263.02	5.004	
14,600.0	9,474.2	14,583.0	9,505.5	134.2	133.8	91.36	-683.4	5,102.6	1,316.3	1,048.5	267.75	4.916	
14,700.0	9,477.2	14,683.0	9,508.7	136.6	136.2	91.37	-682.7	5,202.5	1,316.3	1,043.8	272.50	4.830	
14,800.0	9,480.2	14,783.0	9,511.9	139.0	138.5	91.38	-682.0	5,302.5	1,316.3	1,039.0	277.24	4.748	
14,900.0	9,483.2	14,883.0	9,515.1	141.3	140.9	91.39	-681.3	5,402.4	1,316.2	1,034.3	281.99	4.668	
15,000.0	9,486.2	14,983.0	9,518.3	143.7	143.3	91.40	-680.6	5,502.4	1,316.2	1,029.5	286.75	4.590	
15,100.0	9,489.1	15,083.0	9,521.5	146.1	145.7	91.41	-679.9	5,602.3	1,316.2	1,024.7	291.51	4.515	
15,200.0	9,492.1	15,183.0	9,524.6	148.5	148.0	91.42	-679.2	5,702.3	1,316.2	1,020.0	296.28	4.443	
15,300.0	9,495.1	15,283.0	9,527.8	150.9	150.4	91.43	-678.6	5,802.2	1,316.2	1,015.2	301.05	4.372	
15,400.0	9,498.1	15,383.0	9,531.0	153.3	152.8	91.44	-677.9	5,902.2	1,316.2	1,010.4	305.82	4.304	
15,500.0	9,501.1	15,483.0	9,534.2	155.7	155.2	91.44	-677.2	6,002.1	1,316.2	1,005.6	310.60	4.238	
15,600.0	9,504.1	15,583.0	9,537.4	158.1	157.6	91.45	-676.5	6,102.1	1,316.2	1,000.8	315.38	4.173	
15,700.0	9,507.0	15,683.0	9,540.6	160.5	160.0	91.46	-675.8	6,202.0	1,316.2	996.1	320.16	4.111	
15,800.0	9,510.0	15,783.0	9,543.8	162.9	162.3	91.47	-675.1	6,301.9	1,316.2	991.3	324.95	4.050	
15,900.0	9,513.0	15,883.0	9,547.0	165.3	164.7	91.48	-674.4	6,401.9	1,316.2	986.5	329.74	3.992	
16,000.0	9,516.0	15,983.0	9,550.2	167.7	167.1	91.49	-673.7	6,501.8	1,316.2	981.7	334.54	3.934	
16,100.0	9,519.0	16,083.0	9,553.4	170.1	169.5	91.50	-673.0	6,601.8	1,316.2	976.9	339.33	3.879	
16,200.0	9,522.0	16,183.0	9,556.6	172.5	171.9	91.51	-672.3	6,701.7	1,316.2	972.1	344.13	3.825	
16,300.0	9,524.9	16,283.0	9,559.8	174.9	174.3	91.52	-671.6	6,801.7	1,316.2	967.3	348.94	3.772	
16,400.0	9,527.9	16,383.0	9,563.0	177.3	176.7	91.53	-670.9	6,901.6	1,316.2	962.4	353.74	3.721	
16,500.0	9,530.9	16,483.0	9,566.2	179.7	179.1	91.54	-670.2	7,001.6	1,316.2	957.6	358.55	3.671	
16,600.0	9,533.9	16,583.0	9,569.4	182.1	181.5	91.55	-669.5	7,101.5	1,316.2	952.8	363.36	3.622	
16,700.0	9,536.9	16,683.0	9,572.6	184.5	183.9	91.56	-668.8	7,201.5	1,316.2	948.0	368.17	3.575	
16,729.8	9,537.8	16,712.7	9,573.5	185.2	184.6	91.56	-668.6	7,231.2	1,316.2	946.6	369.60	3.561	
16,737.8	9,538.0	16,711.6	9,573.5	185.4	184.6	91.56	-668.6	7,230.1	1,316.2	946.4	369.79	3.559 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3112.5usft

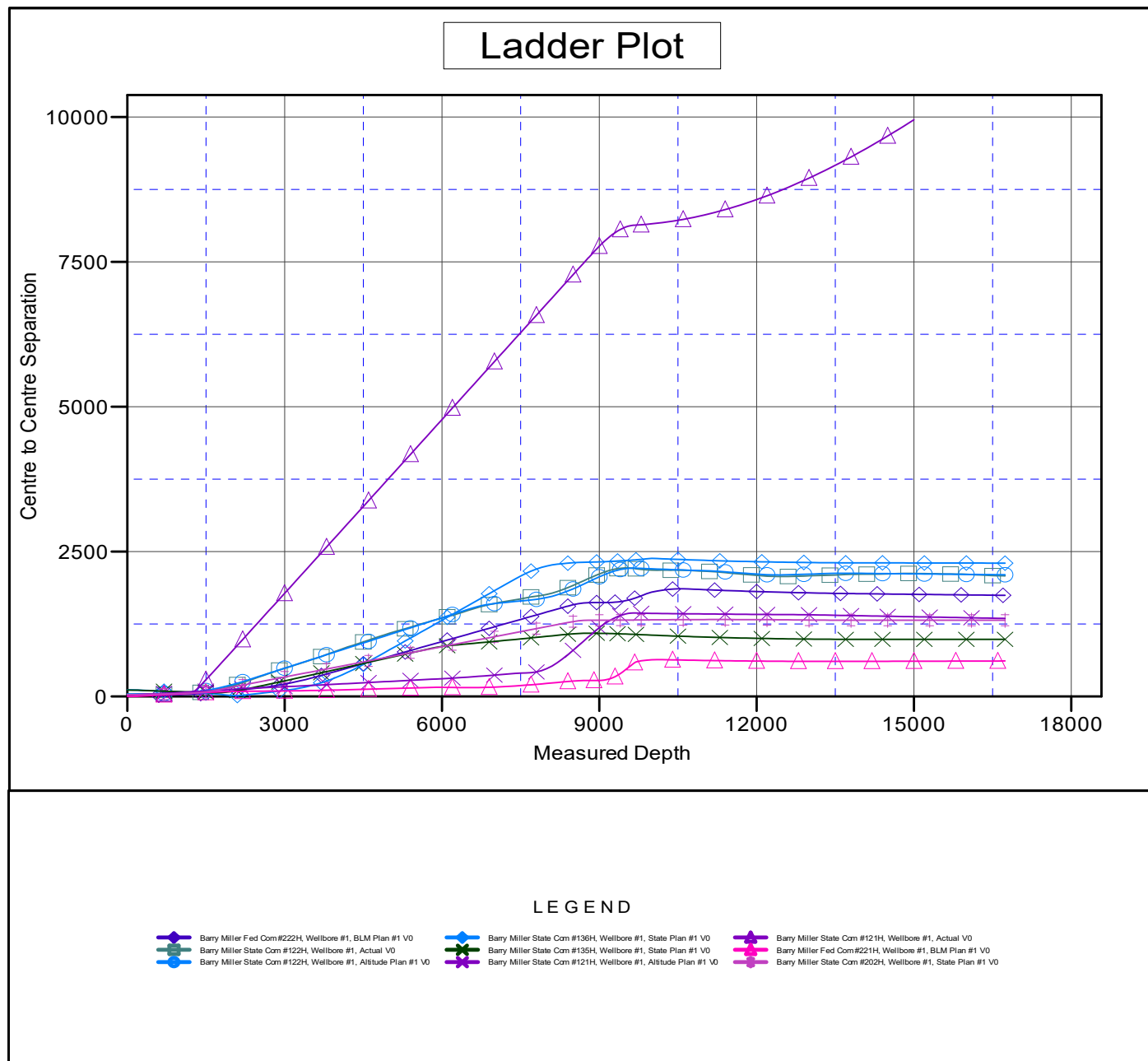
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Barry Miller State Com #201H

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

Grid Convergence at Surface is: 0.13°



Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Project:	Rustler Breaks	TVD Reference:	KB @ 3112.5usft
Reference Site:	Barry Miller	MD Reference:	KB @ 3112.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3112.5usft

Offset Depths are relative to Offset Datum

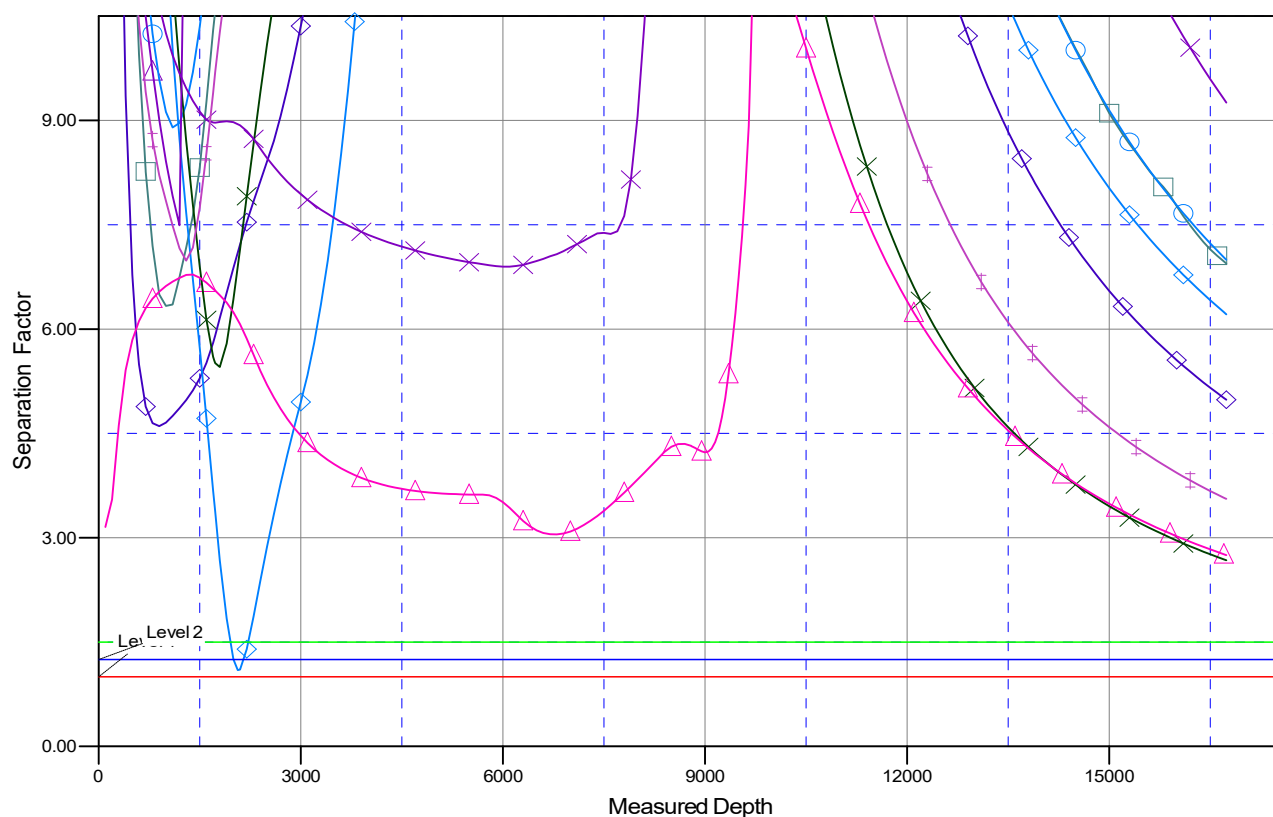
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Barry Miller State Com #201H

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 Fed Com #222H, Wellbore #1, BLM Plan #1 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, Actual V0	Barry Miller State Com #135H, Wellbore #1, State Plan #1 V0	Barry Miller Fed Com #221H, Wellbore #1, BLM Plan #1 V0
Barry Miller State Com #122H, Wellbore #1, Altitude Plan #1 V0	Barry Miller State Com #121H, Wellbore #1, Altitude 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 #201H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

09 January, 2023

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Company:	Matador Production Company	TVD Reference:	KB @ 3112.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3112.5usft
Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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 #201H					
Well Position	+N/-S	-80.0 usft	Northing:	508,360.78 usft	Latitude:	32° 23' 50.572 N
	+E/-W	0.0 usft	Easting:	572,199.21 usft	Longitude:	104° 5' 57.892 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,084.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/6/2022	6.66	60.07	47,468.54642991

Design	State 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	1/9/2023			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	16,737.8	State 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	
300.0	3.00	45.00	299.9	5.6	5.6	1.00	1.00	0.00	45.00	
1,300.0	3.00	45.00	1,298.5	42.6	42.6	0.00	0.00	0.00	0.00	
1,729.5	6.33	326.46	1,726.8	70.3	37.4	1.50	0.78	-18.29	-105.58	
8,373.0	6.33	326.46	8,329.8	680.8	-367.4	0.00	0.00	0.00	0.00	
8,795.0	0.00	0.00	8,751.0	700.3	-380.2	1.50	-1.50	0.00	180.00	VP - Barry Miller St
9,676.9	88.19	91.89	9,323.7	682.0	174.3	10.00	10.00	0.00	91.89	
13,858.5	88.29	89.61	9,452.1	627.4	4,353.3	0.05	0.00	-0.05	-87.51	
16,737.8	88.29	89.61	9,538.0	647.1	7,231.3	0.00	0.00	0.00	0.00	BHL - Barry Miller S

Planning Report

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Company:	Matador Production Company	TVD Reference:	KB @ 3112.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3112.5usft
Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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	1.00	45.00	100.0	0.6	0.6	0.6	1.00	1.00	0.00
200.0	2.00	45.00	200.0	2.5	2.5	2.5	1.00	1.00	0.00
300.0	3.00	45.00	299.9	5.6	5.6	5.6	1.00	1.00	0.00
400.0	3.00	45.00	399.7	9.3	9.3	9.3	0.00	0.00	0.00
500.0	3.00	45.00	499.6	13.0	13.0	13.0	0.00	0.00	0.00
600.0	3.00	45.00	599.5	16.7	16.7	16.8	0.00	0.00	0.00
700.0	3.00	45.00	699.3	20.4	20.4	20.5	0.00	0.00	0.00
800.0	3.00	45.00	799.2	24.1	24.1	24.2	0.00	0.00	0.00
900.0	3.00	45.00	899.0	27.8	27.8	27.9	0.00	0.00	0.00
1,000.0	3.00	45.00	998.9	31.5	31.5	31.7	0.00	0.00	0.00
1,100.0	3.00	45.00	1,098.8	35.2	35.2	35.4	0.00	0.00	0.00
1,200.0	3.00	45.00	1,198.6	38.9	38.9	39.1	0.00	0.00	0.00
1,300.0	3.00	45.00	1,298.5	42.6	42.6	42.9	0.00	0.00	0.00
1,400.0	2.97	15.90	1,398.4	46.9	45.1	45.4	1.50	-0.03	-29.10
1,500.0	3.63	352.17	1,498.2	52.5	45.4	45.8	1.50	0.66	-23.73
1,600.0	4.69	337.38	1,597.9	59.4	43.4	43.8	1.50	1.06	-14.79
1,700.0	5.94	328.41	1,697.5	67.6	39.1	39.6	1.50	1.25	-8.97
1,729.5	6.33	326.46	1,726.8	70.3	37.4	37.9	1.50	1.32	-6.63
1,800.0	6.33	326.46	1,796.9	76.8	33.1	33.7	0.00	0.00	0.00
1,900.0	6.33	326.46	1,896.3	85.9	27.0	27.6	0.00	0.00	0.00
2,000.0	6.33	326.46	1,995.7	95.1	20.9	21.6	0.00	0.00	0.00
2,100.0	6.33	326.46	2,095.1	104.3	14.8	15.6	0.00	0.00	0.00
2,200.0	6.33	326.46	2,194.5	113.5	8.7	9.5	0.00	0.00	0.00
2,300.0	6.33	326.46	2,293.9	122.7	2.7	3.5	0.00	0.00	0.00
2,400.0	6.33	326.46	2,393.3	131.9	-3.4	-2.5	0.00	0.00	0.00
2,500.0	6.33	326.46	2,492.6	141.1	-9.5	-8.5	0.00	0.00	0.00
2,600.0	6.33	326.46	2,592.0	150.3	-15.6	-14.6	0.00	0.00	0.00
2,700.0	6.33	326.46	2,691.4	159.5	-21.7	-20.6	0.00	0.00	0.00
2,800.0	6.33	326.46	2,790.8	168.7	-27.8	-26.6	0.00	0.00	0.00
2,900.0	6.33	326.46	2,890.2	177.8	-33.9	-32.7	0.00	0.00	0.00
3,000.0	6.33	326.46	2,989.6	187.0	-40.0	-38.7	0.00	0.00	0.00
3,100.0	6.33	326.46	3,089.0	196.2	-46.1	-44.7	0.00	0.00	0.00
3,200.0	6.33	326.46	3,188.4	205.4	-52.2	-50.7	0.00	0.00	0.00
3,300.0	6.33	326.46	3,287.8	214.6	-58.3	-56.8	0.00	0.00	0.00
3,400.0	6.33	326.46	3,387.2	223.8	-64.4	-62.8	0.00	0.00	0.00
3,500.0	6.33	326.46	3,486.5	233.0	-70.5	-68.8	0.00	0.00	0.00
3,600.0	6.33	326.46	3,585.9	242.2	-76.6	-74.9	0.00	0.00	0.00
3,700.0	6.33	326.46	3,685.3	251.4	-82.6	-80.9	0.00	0.00	0.00
3,800.0	6.33	326.46	3,784.7	260.6	-88.7	-86.9	0.00	0.00	0.00
3,900.0	6.33	326.46	3,884.1	269.8	-94.8	-92.9	0.00	0.00	0.00
4,000.0	6.33	326.46	3,983.5	278.9	-100.9	-99.0	0.00	0.00	0.00
4,100.0	6.33	326.46	4,082.9	288.1	-107.0	-105.0	0.00	0.00	0.00
4,200.0	6.33	326.46	4,182.3	297.3	-113.1	-111.0	0.00	0.00	0.00
4,300.0	6.33	326.46	4,281.7	306.5	-119.2	-117.1	0.00	0.00	0.00
4,400.0	6.33	326.46	4,381.1	315.7	-125.3	-123.1	0.00	0.00	0.00
4,500.0	6.33	326.46	4,480.4	324.9	-131.4	-129.1	0.00	0.00	0.00
4,600.0	6.33	326.46	4,579.8	334.1	-137.5	-135.1	0.00	0.00	0.00
4,700.0	6.33	326.46	4,679.2	343.3	-143.6	-141.2	0.00	0.00	0.00
4,800.0	6.33	326.46	4,778.6	352.5	-149.7	-147.2	0.00	0.00	0.00
4,900.0	6.33	326.46	4,878.0	361.7	-155.8	-153.2	0.00	0.00	0.00
5,000.0	6.33	326.46	4,977.4	370.9	-161.9	-159.3	0.00	0.00	0.00
5,100.0	6.33	326.46	5,076.8	380.0	-167.9	-165.3	0.00	0.00	0.00
5,200.0	6.33	326.46	5,176.2	389.2	-174.0	-171.3	0.00	0.00	0.00

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Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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)
5,300.0	6.33	326.46	5,275.6	398.4	-180.1	-177.3	0.00	0.00	0.00
5,400.0	6.33	326.46	5,375.0	407.6	-186.2	-183.4	0.00	0.00	0.00
5,500.0	6.33	326.46	5,474.3	416.8	-192.3	-189.4	0.00	0.00	0.00
5,600.0	6.33	326.46	5,573.7	426.0	-198.4	-195.4	0.00	0.00	0.00
5,700.0	6.33	326.46	5,673.1	435.2	-204.5	-201.5	0.00	0.00	0.00
5,800.0	6.33	326.46	5,772.5	444.4	-210.6	-207.5	0.00	0.00	0.00
5,900.0	6.33	326.46	5,871.9	453.6	-216.7	-213.5	0.00	0.00	0.00
6,000.0	6.33	326.46	5,971.3	462.8	-222.8	-219.5	0.00	0.00	0.00
6,100.0	6.33	326.46	6,070.7	471.9	-228.9	-225.6	0.00	0.00	0.00
6,200.0	6.33	326.46	6,170.1	481.1	-235.0	-231.6	0.00	0.00	0.00
6,300.0	6.33	326.46	6,269.5	490.3	-241.1	-237.6	0.00	0.00	0.00
6,400.0	6.33	326.46	6,368.9	499.5	-247.2	-243.7	0.00	0.00	0.00
6,500.0	6.33	326.46	6,468.2	508.7	-253.2	-249.7	0.00	0.00	0.00
6,600.0	6.33	326.46	6,567.6	517.9	-259.3	-255.7	0.00	0.00	0.00
6,700.0	6.33	326.46	6,667.0	527.1	-265.4	-261.7	0.00	0.00	0.00
6,800.0	6.33	326.46	6,766.4	536.3	-271.5	-267.8	0.00	0.00	0.00
6,900.0	6.33	326.46	6,865.8	545.5	-277.6	-273.8	0.00	0.00	0.00
7,000.0	6.33	326.46	6,965.2	554.7	-283.7	-279.8	0.00	0.00	0.00
7,100.0	6.33	326.46	7,064.6	563.9	-289.8	-285.9	0.00	0.00	0.00
7,200.0	6.33	326.46	7,164.0	573.0	-295.9	-291.9	0.00	0.00	0.00
7,300.0	6.33	326.46	7,263.4	582.2	-302.0	-297.9	0.00	0.00	0.00
7,400.0	6.33	326.46	7,362.8	591.4	-308.1	-303.9	0.00	0.00	0.00
7,500.0	6.33	326.46	7,462.2	600.6	-314.2	-310.0	0.00	0.00	0.00
7,600.0	6.33	326.46	7,561.5	609.8	-320.3	-316.0	0.00	0.00	0.00
7,700.0	6.33	326.46	7,660.9	619.0	-326.4	-322.0	0.00	0.00	0.00
7,800.0	6.33	326.46	7,760.3	628.2	-332.5	-328.1	0.00	0.00	0.00
7,900.0	6.33	326.46	7,859.7	637.4	-338.5	-334.1	0.00	0.00	0.00
8,000.0	6.33	326.46	7,959.1	646.6	-344.6	-340.1	0.00	0.00	0.00
8,100.0	6.33	326.46	8,058.5	655.8	-350.7	-346.1	0.00	0.00	0.00
8,200.0	6.33	326.46	8,157.9	665.0	-356.8	-352.2	0.00	0.00	0.00
8,300.0	6.33	326.46	8,257.3	674.1	-362.9	-358.2	0.00	0.00	0.00
8,373.0	6.33	326.46	8,329.8	680.8	-367.4	-362.6	0.00	0.00	0.00
8,400.0	5.93	326.46	8,356.7	683.3	-369.0	-364.2	1.50	-1.50	0.00
8,500.0	4.43	326.46	8,456.3	690.8	-373.9	-369.1	1.50	-1.50	0.00
8,600.0	2.93	326.46	8,556.1	696.1	-377.5	-372.6	1.50	-1.50	0.00
8,700.0	1.43	326.46	8,656.0	699.3	-379.6	-374.7	1.50	-1.50	0.00
8,795.0	0.00	0.00	8,751.0	700.3	-380.2	-375.3	1.50	-1.50	0.00
8,800.0	0.50	91.89	8,756.0	700.3	-380.2	-375.3	10.00	10.00	0.00
8,900.0	10.50	91.89	8,855.4	699.9	-370.6	-365.8	10.00	10.00	0.00
9,000.0	20.50	91.89	8,951.6	699.1	-344.0	-339.1	10.00	10.00	0.00
9,100.0	30.50	91.89	9,041.8	697.6	-301.0	-296.1	10.00	10.00	0.00
9,200.0	40.50	91.89	9,123.1	695.7	-243.0	-238.2	10.00	10.00	0.00
9,300.0	50.50	91.89	9,193.1	693.4	-171.9	-167.0	10.00	10.00	0.00
9,400.0	60.50	91.89	9,249.7	690.7	-89.6	-84.8	10.00	10.00	0.00
9,500.0	70.50	91.89	9,291.1	687.7	1.2	6.0	10.00	10.00	0.00
9,600.0	80.50	91.89	9,316.1	684.5	97.9	102.6	10.00	10.00	0.00
9,676.9	88.19	91.89	9,323.7	682.0	174.3	179.1	10.00	10.00	0.00
9,700.0	88.19	91.88	9,324.4	681.2	197.4	202.1	0.05	0.00	-0.05
9,800.0	88.19	91.82	9,327.6	678.0	297.3	302.0	0.05	0.00	-0.05
9,900.0	88.20	91.77	9,330.7	674.8	397.2	401.9	0.05	0.00	-0.05
10,000.0	88.20	91.71	9,333.9	671.8	497.1	501.8	0.05	0.00	-0.05
10,100.0	88.20	91.66	9,337.0	668.9	597.0	601.6	0.05	0.00	-0.05
10,200.0	88.20	91.60	9,340.1	666.0	696.9	701.5	0.05	0.00	-0.05
10,300.0	88.20	91.55	9,343.3	663.3	796.8	801.4	0.05	0.00	-0.05

Planning Report

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Project:	Rustler Breaks	MD Reference:	KB @ 3112.5usft
Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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)
10,400.0	88.21	91.50	9,346.4	660.6	896.7	901.3	0.05	0.00	-0.05
10,500.0	88.21	91.44	9,349.5	658.1	996.6	1,001.2	0.05	0.00	-0.05
10,600.0	88.21	91.39	9,352.7	655.6	1,096.6	1,101.1	0.05	0.00	-0.05
10,700.0	88.21	91.33	9,355.8	653.2	1,196.5	1,201.0	0.05	0.00	-0.05
10,800.0	88.22	91.28	9,358.9	650.9	1,296.4	1,300.9	0.05	0.00	-0.05
10,900.0	88.22	91.22	9,362.0	648.8	1,396.3	1,400.8	0.05	0.00	-0.05
11,000.0	88.22	91.17	9,365.1	646.7	1,496.3	1,500.7	0.05	0.00	-0.05
11,100.0	88.22	91.11	9,368.2	644.7	1,596.2	1,600.7	0.05	0.00	-0.05
11,200.0	88.23	91.06	9,371.3	642.8	1,696.1	1,700.6	0.05	0.00	-0.05
11,300.0	88.23	91.00	9,374.4	641.0	1,796.1	1,800.5	0.05	0.00	-0.05
11,400.0	88.23	90.95	9,377.5	639.3	1,896.0	1,900.4	0.05	0.00	-0.05
11,500.0	88.23	90.89	9,380.6	637.7	1,995.9	2,000.4	0.05	0.00	-0.05
11,600.0	88.24	90.84	9,383.6	636.2	2,095.9	2,100.3	0.05	0.00	-0.05
11,700.0	88.24	90.79	9,386.7	634.8	2,195.8	2,200.2	0.05	0.00	-0.05
11,800.0	88.24	90.73	9,389.8	633.4	2,295.8	2,300.1	0.05	0.00	-0.05
11,900.0	88.24	90.68	9,392.9	632.2	2,395.7	2,400.1	0.05	0.00	-0.05
12,000.0	88.25	90.62	9,395.9	631.1	2,495.7	2,500.0	0.05	0.00	-0.05
12,100.0	88.25	90.57	9,399.0	630.0	2,595.6	2,600.0	0.05	0.00	-0.05
12,200.0	88.25	90.51	9,402.0	629.1	2,695.6	2,699.9	0.05	0.00	-0.05
12,300.0	88.25	90.46	9,405.1	628.3	2,795.5	2,799.8	0.05	0.00	-0.05
12,400.0	88.26	90.40	9,408.1	627.5	2,895.5	2,899.8	0.05	0.00	-0.05
12,500.0	88.26	90.35	9,411.2	626.8	2,995.4	2,999.7	0.05	0.00	-0.05
12,600.0	88.26	90.29	9,414.2	626.3	3,095.4	3,099.7	0.05	0.00	-0.05
12,700.0	88.26	90.24	9,417.3	625.8	3,195.3	3,199.6	0.05	0.00	-0.05
12,800.0	88.26	90.18	9,420.3	625.4	3,295.3	3,299.6	0.05	0.00	-0.05
12,900.0	88.27	90.13	9,423.3	625.2	3,395.2	3,399.5	0.05	0.00	-0.05
13,000.0	88.27	90.08	9,426.3	625.0	3,495.2	3,499.5	0.05	0.00	-0.05
13,100.0	88.27	90.02	9,429.4	624.9	3,595.1	3,599.4	0.05	0.00	-0.05
13,200.0	88.27	89.97	9,432.4	624.9	3,695.1	3,699.4	0.05	0.00	-0.05
13,300.0	88.28	89.91	9,435.4	625.0	3,795.0	3,799.3	0.05	0.00	-0.05
13,400.0	88.28	89.86	9,438.4	625.2	3,895.0	3,899.3	0.05	0.00	-0.05
13,500.0	88.28	89.80	9,441.4	625.5	3,995.0	3,999.2	0.05	0.00	-0.05
13,600.0	88.28	89.75	9,444.4	625.9	4,094.9	4,099.2	0.05	0.00	-0.05
13,700.0	88.29	89.69	9,447.4	626.4	4,194.9	4,199.1	0.05	0.00	-0.05
13,800.0	88.29	89.64	9,450.4	627.0	4,294.8	4,299.1	0.05	0.00	-0.05
13,858.5	88.29	89.61	9,452.1	627.4	4,353.3	4,357.6	0.05	0.00	-0.05
13,900.0	88.29	89.61	9,453.3	627.7	4,394.8	4,399.0	0.00	0.00	0.00
14,000.0	88.29	89.61	9,456.3	628.3	4,494.7	4,499.0	0.00	0.00	0.00
14,100.0	88.29	89.61	9,459.3	629.0	4,594.7	4,599.0	0.00	0.00	0.00
14,200.0	88.29	89.61	9,462.3	629.7	4,694.6	4,698.9	0.00	0.00	0.00
14,300.0	88.29	89.61	9,465.3	630.4	4,794.6	4,798.9	0.00	0.00	0.00
14,400.0	88.29	89.61	9,468.3	631.1	4,894.5	4,898.8	0.00	0.00	0.00
14,500.0	88.29	89.61	9,471.2	631.8	4,994.5	4,998.8	0.00	0.00	0.00
14,600.0	88.29	89.61	9,474.2	632.4	5,094.4	5,098.7	0.00	0.00	0.00
14,700.0	88.29	89.61	9,477.2	633.1	5,194.4	5,198.7	0.00	0.00	0.00
14,800.0	88.29	89.61	9,480.2	633.8	5,294.3	5,298.6	0.00	0.00	0.00
14,900.0	88.29	89.61	9,483.2	634.5	5,394.3	5,398.6	0.00	0.00	0.00
15,000.0	88.29	89.61	9,486.2	635.2	5,494.3	5,498.6	0.00	0.00	0.00
15,100.0	88.29	89.61	9,489.1	635.9	5,594.2	5,598.5	0.00	0.00	0.00
15,200.0	88.29	89.61	9,492.1	636.6	5,694.2	5,698.5	0.00	0.00	0.00
15,300.0	88.29	89.61	9,495.1	637.2	5,794.1	5,798.4	0.00	0.00	0.00
15,400.0	88.29	89.61	9,498.1	637.9	5,894.1	5,898.4	0.00	0.00	0.00
15,500.0	88.29	89.61	9,501.1	638.6	5,994.0	5,998.3	0.00	0.00	0.00
15,600.0	88.29	89.61	9,504.1	639.3	6,094.0	6,098.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Company:	Matador Production Company	TVD Reference:	KB @ 3112.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3112.5usft
Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State 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)	
15,700.0	88.29	89.61	9,507.0	640.0	6,193.9	6,198.2	0.00	0.00	0.00	
15,800.0	88.29	89.61	9,510.0	640.7	6,293.9	6,298.2	0.00	0.00	0.00	
15,900.0	88.29	89.61	9,513.0	641.4	6,393.8	6,398.2	0.00	0.00	0.00	
16,000.0	88.29	89.61	9,516.0	642.0	6,493.8	6,498.1	0.00	0.00	0.00	
16,100.0	88.29	89.61	9,519.0	642.7	6,593.7	6,598.1	0.00	0.00	0.00	
16,200.0	88.29	89.61	9,522.0	643.4	6,693.7	6,698.0	0.00	0.00	0.00	
16,300.0	88.29	89.61	9,524.9	644.1	6,793.6	6,798.0	0.00	0.00	0.00	
16,400.0	88.29	89.61	9,527.9	644.8	6,893.6	6,897.9	0.00	0.00	0.00	
16,500.0	88.29	89.61	9,530.9	645.5	6,993.6	6,997.9	0.00	0.00	0.00	
16,600.0	88.29	89.61	9,533.9	646.2	7,093.5	7,097.8	0.00	0.00	0.00	
16,700.0	88.29	89.61	9,536.9	646.8	7,193.5	7,197.8	0.00	0.00	0.00	
16,737.8	88.29	89.61	9,538.0	647.1	7,231.3	7,235.6	0.00	0.00	0.00	

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Barry Miller State - plan hits target center - Point	0.00	0.00	8,751.0	700.3	-380.2	509,061.00	571,819.00	32° 23' 57.510 N	104° 6' 2.309 W
FTP - Barry Miller Sta - plan misses target center by 110.2usft at 9420.8usft MD (9259.6 TVD, 690.1 N, -71.3 E) - Point	0.00	0.00	9,316.5	600.3	-100.2	508,961.00	572,099.00	32° 23' 56.514 N	104° 5' 59.046 W
LTP - Barry Miller Stat - plan misses target center by 2.7usft at 16737.8usft MD (9538.0 TVD, 647.1 N, 7231.3 E) - Point	0.00	0.00	9,535.3	647.2	7,231.6	509,008.00	579,431.00	32° 23' 56.812 N	104° 4' 33.525 W
BHL - Barry Miller Sta - plan hits target center - Point	0.00	0.00	9,538.0	647.1	7,231.3	509,007.90	579,430.69	32° 23' 56.811 N	104° 4' 33.529 W

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
16,725.6	9,537.6	5 1/2" Production Shoe (Wet Shoe)	5-1/2	6-3/4	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #201H
Company:	Matador Production Company	TVD Reference:	KB @ 3112.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3112.5usft
Site:	Barry Miller	North Reference:	Grid
Well:	Barry Miller State Com #201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
140.1	140.0	Z (Rustler)		1.71	89.60	
429.6	429.3	Z (Salado)		1.71	89.60	
745.4	744.7	Z (Castile (T))		1.71	89.60	
2,502.1	2,494.7	Z (G30:CS14-CSB)		1.71	89.60	
2,573.4	2,565.6	Z (G26: Bell Cyn.)		1.71	89.60	
3,412.0	3,399.1	Z (G13: Cherry Cyn.)		1.71	89.60	
4,606.2	4,586.0	Z (G7: Brushy Cyn.)		1.71	89.60	
5,990.1	5,961.5	Z (G4: BSG (CS9))		1.71	89.60	
6,455.1	6,423.6	Z (L8.2: U. Avalon Shale)		1.71	89.60	
6,573.6	6,541.4	Z (L6.3: Avalon Carb)		1.71	89.60	
6,617.8	6,585.3	Z (L6.2: L. Avalon Shale)		1.71	89.60	
6,708.2	6,675.2	Z (L5.3: FBSC)		1.71	89.60	
7,015.5	6,980.6	Z (L5.1: FBSG)		1.71	89.60	
7,075.8	7,040.5	Z (M. FBSG)		1.71	89.60	
7,225.4	7,189.2	Z (L. FBSG)		1.71	89.60	
7,284.7	7,248.1	Z (L4.3: SBSC)		1.71	89.60	
7,711.5	7,672.4	Z (L4.1: SBSC)		1.71	89.60	
7,883.2	7,843.1	Z (L4.1: SBSC B Carb)		1.71	89.60	
7,968.6	7,927.9	Z (SBSC B Target)		1.71	89.60	
8,024.9	7,983.8	Z (L4.1: SBSC C)		1.71	89.60	
8,046.9	8,005.8	Z (L3.3: TBSC)		1.71	89.60	
8,456.6	8,413.0	Z (L3.3.2: Break Sand (T))		1.71	89.60	
8,991.7	8,943.8	Z (L3.1: TBSC)		1.71	89.60	
9,382.9	9,241.0	Z (L. TBSC)		1.71	89.60	
9,451.1	9,272.8	Z (L2: WFMP A)		1.71	89.60	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.0	299.9	5.6	5.6	Start 1000.0 hold at 300.0 MD	
1,300.0	1,298.5	42.6	42.6	Start DLS 1.50 TFO -105.58	
1,729.5	1,726.8	70.3	37.4	Start 6643.5 hold at 1729.5 MD	
8,373.0	8,329.8	680.8	-367.4	Start Drop -1.50	
8,795.0	8,751.0	700.3	-380.2	Start Build 10.00	
9,676.9	9,323.7	682.0	174.3	Start DLS 0.05 TFO -87.51	
13,858.5	9,452.1	627.4	4,353.3	Start 2879.3 hold at 13858.5 MD	
16,737.8	9,538.0	647.1	7,231.3	TD at 16737.8	

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:** 12/29/2022

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 202H	TBD	D 16-22S-28E	935' FNL 460' FWL	1,000	2,500	4,000
Michael Ryan Fed Com 203H	TBD	M 16-22S-28E	629' FSL 320' FWL	1,150	2,875	4,600
Barry Miller State Com 201H	TBD	D 16-22S-28E	935' FNL 430' FWL	1,000	2,500	4,000

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 202H	TBD	05/14/2023	05/31/2023	07/21/2023	08/21/2023	08/21/2023
Michael Ryan Fed Com 203H	TBD	06/19/2023	07/06/2023	07/21/2023	08/21/2023	08/21/2023
Barry Miller State Com 201H	TBD	04/26/2023	05/14/2023	07/21/2023	08/21/2023	08/21/2023

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: Omar Enriquez Digitally signed by Omar Enriquez DN: cn=Omar Enriquez, o=Matador Resources email=oenriquez@matadorresources.com, c=US
Printed Name: Omar Enriquez
Title: Sr. Production Engineer
E-mail Address: oenriquez@matadorresources.com
Date: 12/29/2022
Phone: (972) 587-4638
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Addendum to Natural Gas Management Plan for Matador's
Barry Miller 201H, Barry Miller 202H and Michael Ryan 203H

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 202H	1,000	2,500	4,000
Michael Ryan Fed Com 203H	1,150	2,875	4,600
Barry Miller State Com 201H	1,000	2,500	4,000

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. 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