

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 333425

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 30-015-53365
4. Property Code 333122	5. Property Name Barry Miller State Com	6. Well No. 202H

7. Surface Location

UL - Lot D	Section 16	Township 22S	Range 28E	Lot Idn	Feet From 935	N/S Line N	Feet From 460	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot F	Section 15	Township 22S	Range 28E	Lot Idn F	Feet From 1650	N/S Line N	Feet From 2326	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 16711	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	8667	1350	0
Prod	6.75	5.5	20	16711	825	8167

Casing/Cement Program: Additional Comments

Matador requests optionality to use a DV Packer Tool at 2500'

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: 2/3/2023	Expiration Date: 2/3/2025
Date: 1/31/2023	Phone: 972-629-2160	Conditions of Approval Attached

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Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 30-015-53365	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 202H
⁷ GRID No. 228937	⁸ Operator Name MATADOR PRODUCTION COMPANY	⁹ Elevation 3084'

¹⁰**Surface Location**

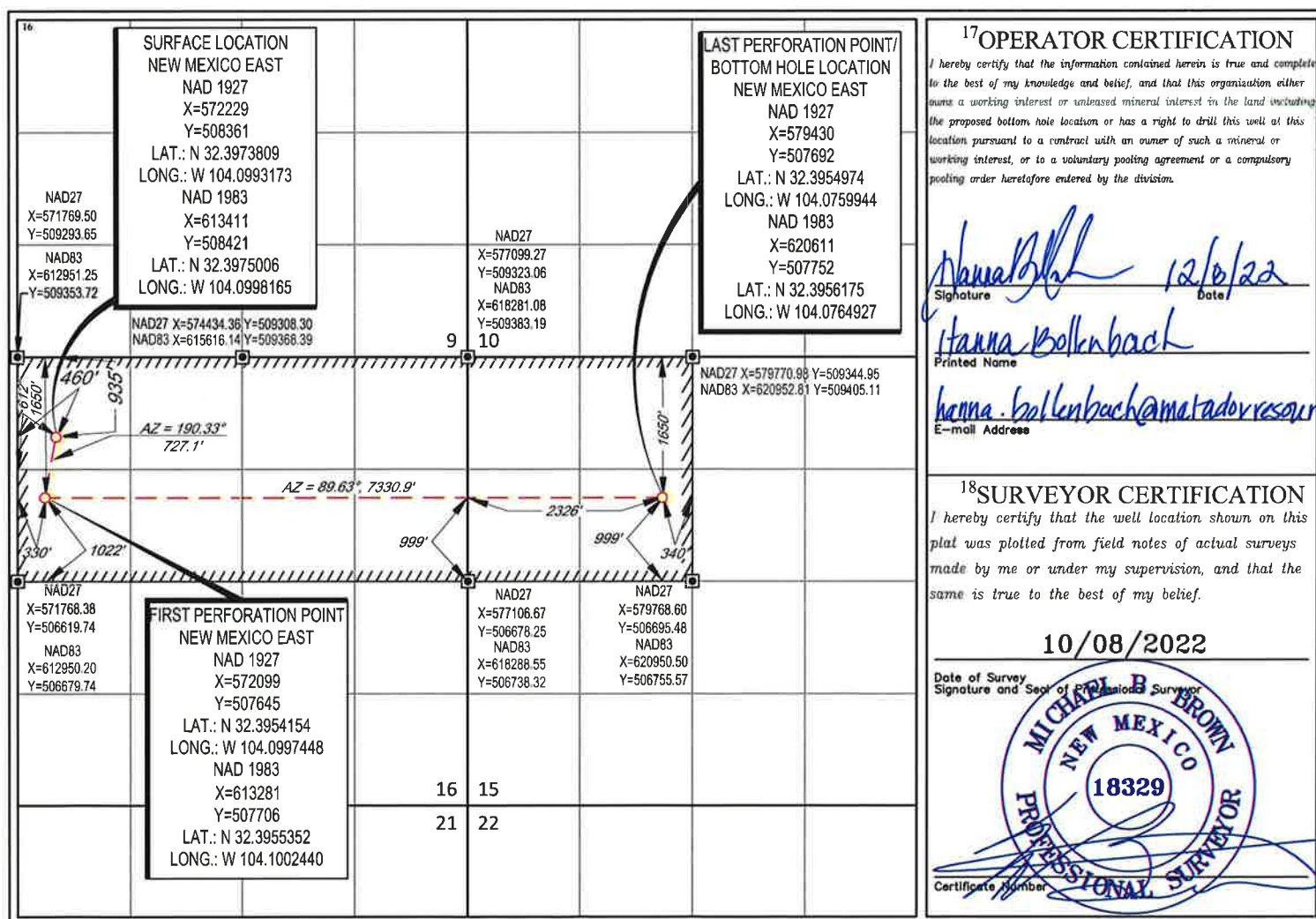
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	22-S	28-E	—	935'	NORTH	460'	WEST	EDDY

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
F	15	22-S	28-E	-	1650'	NORTH	2326'	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.



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

Form APD Conditions

Permit 333425

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-53365
	Well: Barry Miller State Com #202H

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	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 #202H

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 #202H
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 #202H	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	16,711.6	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	30.0			
Barry Miller Fed Com #221H - Wellbore #1 - BLM Plan #	16,711.6	17,212.9	1,107.0	771.3	3.297	SF
Barry Miller Fed Com #222H - Wellbore #1 - BLM Plan #	0.0	1.0	0.1			
Barry Miller Fed Com #222H - Wellbore #1 - BLM Plan #	4,900.0	4,910.5	37.9	2.3	1.064	Level 2, SF
Barry Miller State Com #121H - Wellbore #1 - Actual	0.0	0.0	42.4			
Barry Miller State Com #121H - Wellbore #1 - Actual	1,200.0	1,198.8	93.6	85.5	11.628	SF
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	0.0	0.0	42.4			
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	1,826.5	1,821.4	52.2	39.7	4.168	ES
Barry Miller State Com #121H - Wellbore #1 - Altitude PI	1,900.0	1,893.8	53.2	40.2	4.084	SF
Barry Miller State Com #122H - Wellbore #1 - Actual	273.2	273.5	29.9	28.5	21.409	CC
Barry Miller State Com #122H - Wellbore #1 - Actual	2,000.0	1,996.5	30.5	17.1	2.271	ES, SF
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	0.0	0.0	30.1			
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	200.0	200.0	30.3	29.3	30.988	ES
Barry Miller State Com #122H - Wellbore #1 - Altitude PI	1,800.0	1,792.6	49.7	37.6	4.096	SF
Barry Miller State Com #135H - Wellbore #1 - State Plan	0.0	0.0	114.0			
Barry Miller State Com #135H - Wellbore #1 - State Plan	16,711.6	16,658.7	368.3	27.9	1.082	Level 2, ES, SF
Barry Miller State Com #136H - Wellbore #1 - State Plan	4,499.7	4,554.4	59.2	26.1	1.786	CC
Barry Miller State Com #136H - Wellbore #1 - State Plan	4,500.0	4,554.7	59.2	26.1	1.786	ES, SF
Barry Miller State Com #201H - Wellbore #1 - State Plan	0.0	0.0	30.0			
Barry Miller State Com #201H - Wellbore #1 - State Plan	16,711.6	16,728.7	1,316.2	946.6	3.562	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										
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	-90.06	0.0	-30.0	30.0								
100.0	100.0	101.0	101.0	0.1	0.1	179.95	0.0	-30.0	30.8	30.6	0.28	110.799					
200.0	200.0	201.0	201.0	0.5	0.5	179.95	0.0	-30.0	33.5	32.5	0.98	33.995					
300.0	299.9	300.9	300.9	0.9	0.8	179.96	0.0	-30.0	37.8	36.1	1.70	22.210					
400.0	399.7	400.7	400.7	1.2	1.2	179.96	0.0	-30.0	43.1	40.6	2.42	17.794					
500.0	499.6	500.6	500.6	1.6	1.6	179.97	0.0	-30.0	48.3	45.2	3.14	15.401					
600.0	599.5	600.5	600.5	2.0	1.9	179.97	0.0	-30.0	53.5	49.7	3.85	13.894					
700.0	699.3	700.3	700.3	2.3	2.3	179.97	0.0	-30.0	58.8	54.2	4.57	12.860					

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

Anticollision Report

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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	
800.0	799.2	800.2	800.2	2.7	2.6	179.97	0.0	-30.0	64.0	58.7	5.29	12.105	
900.0	899.0	900.0	900.0	3.1	3.0	179.98	0.0	-30.0	69.2	63.2	6.00	11.530	
1,000.0	998.9	1,000.1	999.9	3.4	3.4	179.98	0.0	-30.0	74.5	67.7	6.72	11.077	
1,100.0	1,098.8	1,100.2	1,099.8	3.8	3.7	140.35	0.0	-30.0	78.3	70.9	7.44	10.527	
1,200.0	1,198.8	1,200.2	1,199.8	4.1	4.1	87.05	0.0	-30.0	79.4	71.2	8.14	9.750	
1,300.0	1,298.6	1,300.4	1,299.6	4.5	4.4	68.86	0.0	-30.0	78.0	69.1	8.84	8.824	
1,407.1	1,405.3	1,406.3	1,406.3	4.8	4.8	66.19	0.0	-30.0	74.3	64.7	9.58	7.757	
1,500.0	1,497.7	1,498.7	1,498.7	5.1	5.1	73.32	0.0	-30.0	70.9	60.7	10.22	6.938	
1,596.7	1,593.9	1,593.8	1,593.8	5.4	5.5	81.47	0.5	-30.5	69.4	58.5	10.89	6.375	
1,600.0	1,597.2	1,597.0	1,597.0	5.5	5.5	81.76	0.6	-30.5	69.4	58.5	10.91	6.362	
1,700.0	1,696.6	1,695.3	1,695.2	5.8	5.8	90.60	2.4	-32.2	71.2	59.6	11.60	6.138	
1,800.0	1,796.1	1,793.3	1,793.2	6.1	6.2	98.87	5.6	-35.0	76.4	64.1	12.29	6.212	
1,900.0	1,895.5	1,891.1	1,890.8	6.5	6.5	105.86	9.9	-38.9	84.6	71.6	12.98	6.519	
2,000.0	1,995.0	1,988.6	1,988.0	6.9	6.9	111.37	15.5	-43.9	95.6	81.9	13.66	6.996	
2,100.0	2,094.4	2,085.7	2,084.7	7.2	7.2	115.49	22.2	-49.9	108.9	94.5	14.34	7.591	
2,200.0	2,193.9	2,182.5	2,180.9	7.6	7.6	118.46	30.2	-57.1	124.2	109.2	15.02	8.269	
2,300.0	2,293.4	2,278.8	2,276.4	8.0	8.0	120.55	39.3	-65.2	141.4	125.7	15.70	9.007	
2,400.0	2,392.8	2,376.5	2,373.1	8.4	8.3	122.06	49.4	-74.3	159.8	143.4	16.40	9.739	
2,500.0	2,492.3	2,474.7	2,470.4	8.7	8.7	123.26	59.6	-83.4	178.3	161.2	17.12	10.411	
2,600.0	2,591.7	2,572.9	2,567.6	9.1	9.1	124.23	69.8	-92.5	196.8	179.0	17.84	11.031	
2,700.0	2,691.2	2,671.1	2,664.9	9.5	9.5	125.04	80.0	-101.7	215.5	196.9	18.57	11.603	
2,800.0	2,790.6	2,769.3	2,762.2	9.9	9.8	125.72	90.1	-110.8	234.1	214.8	19.30	12.133	
2,900.0	2,890.1	2,867.5	2,859.4	10.3	10.2	126.30	100.3	-119.9	252.8	232.8	20.02	12.624	
3,000.0	2,989.5	2,965.7	2,956.7	10.7	10.6	126.79	110.5	-129.0	271.5	250.7	20.75	13.081	
3,100.0	3,089.0	3,064.0	3,053.9	11.0	11.0	127.23	120.7	-138.1	290.2	268.7	21.49	13.506	
3,200.0	3,188.5	3,162.2	3,151.2	11.4	11.4	127.61	130.8	-147.3	308.9	286.7	22.22	13.903	
3,300.0	3,287.9	3,260.4	3,248.4	11.8	11.8	127.95	141.0	-156.4	327.7	304.7	22.96	14.274	
3,400.0	3,387.4	3,358.6	3,345.7	12.2	12.2	128.25	151.2	-165.5	346.4	322.7	23.69	14.621	
3,500.0	3,486.8	3,456.8	3,442.9	12.6	12.6	128.52	161.4	-174.6	365.2	340.7	24.43	14.948	
3,600.0	3,586.3	3,555.0	3,540.2	13.0	13.0	128.76	171.6	-183.8	383.9	358.8	25.17	15.254	
3,700.0	3,685.7	3,653.2	3,637.5	13.4	13.4	128.98	181.7	-192.9	402.7	376.8	25.91	15.543	
3,800.0	3,785.2	3,751.4	3,734.7	13.8	13.7	129.19	191.9	-202.0	421.5	394.8	26.65	15.816	
3,900.0	3,884.7	3,849.6	3,832.0	14.1	14.1	129.37	202.1	-211.1	440.3	412.9	27.39	16.073	
4,000.0	3,984.1	3,947.9	3,929.2	14.5	14.5	129.54	212.3	-220.3	459.1	430.9	28.13	16.316	
4,100.0	4,083.6	4,046.1	4,026.5	14.9	14.9	129.70	222.5	-229.4	477.8	449.0	28.88	16.547	
4,200.0	4,183.0	4,144.3	4,123.7	15.3	15.3	129.84	232.6	-238.5	496.6	467.0	29.62	16.766	
4,300.0	4,282.5	4,242.5	4,221.0	15.7	15.7	129.97	242.8	-247.6	515.4	485.1	30.37	16.974	
4,400.0	4,381.9	4,340.7	4,318.2	16.1	16.1	130.10	253.0	-256.7	534.2	503.1	31.11	17.171	
4,500.0	4,481.4	4,438.9	4,415.5	16.5	16.5	130.21	263.2	-265.9	553.0	521.2	31.86	17.359	
4,600.0	4,580.9	4,537.1	4,512.8	16.9	17.0	130.32	273.3	-275.0	571.8	539.2	32.60	17.539	
4,700.0	4,680.3	4,635.3	4,610.0	17.3	17.4	130.42	283.5	-284.1	590.6	557.3	33.35	17.710	
4,800.0	4,779.8	4,733.5	4,707.3	17.7	17.8	130.52	293.7	-293.2	609.4	575.3	34.10	17.873	
4,900.0	4,879.2	4,831.8	4,804.5	18.1	18.2	130.61	303.9	-302.4	628.2	593.4	34.85	18.029	
5,000.0	4,978.7	4,930.0	4,901.8	18.5	18.6	130.69	314.1	-311.5	647.1	611.5	35.59	18.179	
5,100.0	5,078.1	5,028.2	4,999.0	18.8	19.0	130.77	324.2	-320.6	665.9	629.5	36.34	18.322	
5,200.0	5,177.6	5,126.4	5,096.3	19.2	19.4	130.85	334.4	-329.7	684.7	647.6	37.09	18.459	
5,300.0	5,277.1	5,224.6	5,193.5	19.6	19.8	130.92	344.6	-338.8	703.5	665.6	37.84	18.591	
5,400.0	5,376.5	5,322.8	5,290.8	20.0	20.2	130.98	354.8	-348.0	722.3	683.7	38.59	18.717	
5,500.0	5,476.0	5,421.0	5,388.0	20.4	20.6	131.05	365.0	-357.1	741.1	701.8	39.34	18.839	
5,600.0	5,575.4	5,519.2	5,485.3	20.8	21.0	131.11	375.1	-366.2	759.9	719.8	40.09	18.956	
5,700.0	5,674.9	5,617.4	5,582.6	21.2	21.4	131.17	385.3	-375.3	778.7	737.9	40.84	19.068	
5,800.0	5,774.3	5,715.7	5,679.8	21.6	21.8	131.22	395.5	-384.5	797.6	756.0	41.59	19.176	

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Anticollision Report

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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	
5,900.0	5,873.8	5,833.6	5,796.8	22.0	22.3	131.34	406.6	-394.4	815.3	772.8	42.51	19.180	
6,000.0	5,973.2	5,954.9	5,917.5	22.4	22.8	131.59	415.2	-402.1	830.4	787.0	43.41	19.128	
6,100.0	6,072.7	6,076.9	6,039.3	22.8	23.2	131.97	421.0	-407.3	842.8	798.5	44.28	19.032	
6,200.0	6,172.2	6,199.4	6,161.8	23.2	23.6	132.47	423.9	-409.9	852.5	807.4	45.12	18.896	
6,300.0	6,271.6	6,310.3	6,272.6	23.6	24.0	133.02	424.3	-410.2	859.9	814.1	45.88	18.745	
6,400.0	6,371.1	6,409.7	6,372.1	24.0	24.3	133.53	424.3	-410.2	867.1	820.5	46.60	18.609	
6,500.0	6,470.5	6,509.2	6,471.5	24.4	24.7	134.02	424.3	-410.2	874.3	827.0	47.32	18.478	
6,600.0	6,570.0	6,608.7	6,571.0	24.8	25.0	134.50	424.3	-410.2	881.6	833.6	48.04	18.353	
6,700.0	6,669.4	6,708.1	6,670.4	25.2	25.3	134.98	424.3	-410.2	889.0	840.2	48.76	18.233	
6,800.0	6,768.9	6,807.6	6,769.9	25.6	25.6	135.45	424.3	-410.2	896.4	846.9	49.48	18.117	
6,900.0	6,868.4	6,907.0	6,869.4	26.0	26.0	135.91	424.3	-410.2	903.8	853.6	50.20	18.006	
7,000.0	6,967.8	7,006.5	6,968.8	26.3	26.3	136.37	424.3	-410.2	911.4	860.5	50.91	17.900	
7,100.0	7,067.3	7,105.9	7,068.3	26.7	26.6	136.81	424.3	-410.2	918.9	867.3	51.63	17.797	
7,200.0	7,166.7	7,205.4	7,167.7	27.1	27.0	137.25	424.3	-410.2	926.6	874.2	52.35	17.699	
7,300.0	7,266.2	7,304.9	7,267.2	27.5	27.3	137.69	424.3	-410.2	934.3	881.2	53.07	17.604	
7,400.0	7,365.6	7,404.3	7,366.6	27.9	27.6	138.11	424.3	-410.2	942.0	888.2	53.79	17.513	
7,500.0	7,465.1	7,503.8	7,466.1	28.3	28.0	138.53	424.3	-410.2	949.8	895.3	54.51	17.425	
7,600.0	7,564.6	7,603.2	7,565.6	28.7	28.3	138.94	424.3	-410.2	957.7	902.4	55.23	17.341	
7,700.0	7,664.0	7,702.7	7,665.0	29.1	28.6	139.35	424.3	-410.2	965.5	909.6	55.94	17.259	
7,800.0	7,763.5	7,802.1	7,764.5	29.5	29.0	139.74	424.3	-410.2	973.5	916.8	56.66	17.181	
7,900.0	7,862.9	7,901.6	7,863.9	29.9	29.3	140.14	424.3	-410.2	981.5	924.1	57.38	17.105	
8,000.0	7,962.4	8,001.1	7,963.4	30.3	29.7	140.52	424.3	-410.2	989.5	931.4	58.10	17.032	
8,100.0	8,061.8	8,100.5	8,062.8	30.7	30.0	140.90	424.3	-410.2	997.6	938.8	58.81	16.962	
8,200.0	8,161.3	8,200.0	8,162.3	31.1	30.3	141.27	424.3	-410.2	1,005.7	946.2	59.53	16.894	
8,300.0	8,260.8	8,300.6	8,261.8	31.5	30.7	141.64	424.3	-410.2	1,013.9	953.6	60.25	16.827	
8,400.0	8,360.2	8,401.1	8,361.2	31.9	31.0	142.00	424.3	-410.2	1,022.1	961.1	60.97	16.763	
8,468.4	8,428.3	8,466.9	8,429.3	32.2	31.2	142.25	424.3	-410.2	1,027.7	966.2	61.45	16.723	
8,500.0	8,459.7	8,501.6	8,460.7	32.3	31.4	142.38	424.3	-410.2	1,030.2	968.5	61.69	16.699	
8,600.0	8,559.4	8,601.9	8,560.4	32.7	31.7	142.71	424.3	-410.2	1,036.2	973.8	62.40	16.604	
8,700.0	8,659.3	8,702.0	8,660.3	33.0	32.1	142.89	424.3	-410.2	1,039.4	976.3	63.11	16.471	
8,767.2	8,726.5	8,765.2	8,727.5	33.2	32.3	0.00	424.3	-410.2	1,040.1	976.5	63.55	16.365	
8,800.0	8,759.3	8,802.1	8,760.3	33.3	32.4	-92.45	424.3	-410.2	1,040.1	976.3	63.78	16.307	
8,850.0	8,809.0	8,847.7	8,810.0	33.5	32.6	-92.70	424.3	-410.2	1,040.3	976.2	64.10	16.231	
8,900.0	8,858.1	8,903.2	8,859.1	33.6	32.7	-93.16	424.3	-410.2	1,040.8	976.4	64.43	16.154	
8,950.0	8,906.2	8,944.9	8,907.2	33.7	32.9	-93.79	424.3	-410.2	1,041.7	977.0	64.71	16.098	
9,000.0	8,952.9	9,008.4	8,953.9	33.8	33.1	-94.56	424.3	-410.2	1,043.1	978.0	65.06	16.033	
9,050.0	8,998.0	9,036.6	8,999.0	33.9	33.2	-95.42	424.3	-410.2	1,045.2	979.9	65.27	16.013	
9,100.0	9,040.9	9,079.6	9,041.9	34.0	33.3	-96.31	424.3	-410.2	1,048.2	982.7	65.53	15.996	
9,150.0	9,081.4	9,120.1	9,082.4	34.1	33.5	-97.18	424.3	-410.2	1,052.4	986.7	65.78	16.000	
9,200.0	9,119.3	9,158.0	9,120.3	34.1	33.6	-97.95	424.3	-410.2	1,058.1	992.1	66.02	16.028	
9,250.0	9,154.2	9,207.2	9,155.2	34.2	33.8	-98.57	424.3	-410.2	1,065.4	999.1	66.29	16.072	
9,300.0	9,185.8	9,224.4	9,186.8	34.2	33.8	-98.96	424.3	-410.2	1,074.7	1,008.2	66.46	16.170	
9,350.0	9,213.9	9,252.5	9,214.9	34.2	33.9	-99.06	424.3	-410.2	1,085.9	1,019.3	66.67	16.288	
9,400.0	9,238.3	9,276.9	9,239.3	34.2	34.0	-98.83	424.3	-410.2	1,099.4	1,032.5	66.88	16.439	
9,450.0	9,258.8	9,570.0	9,520.4	34.2	34.8	-109.57	411.5	-340.6	1,113.2	1,046.9	66.25	16.803	
9,500.0	9,275.2	10,151.9	9,816.9	34.2	36.4	-117.10	326.3	123.6	1,108.3	1,045.6	62.71	17.674	
9,550.0	9,287.5	10,190.2	9,819.9	34.2	36.6	-117.78	319.9	161.1	1,098.8	1,035.5	63.29	17.362	
9,600.0	9,295.5	10,228.9	9,822.8	34.3	36.9	-118.36	313.9	199.3	1,091.8	1,028.0	63.84	17.102	
9,631.7	9,298.4	10,253.6	9,824.6	34.4	37.0	-118.68	310.3	223.7	1,088.7	1,024.5	64.16	16.968	
9,700.0	9,302.6	10,306.9	9,828.3	34.9	37.4	-118.82	303.3	276.4	1,083.5	1,018.6	64.88	16.701	
9,800.0	9,308.6	10,385.3	9,833.3	35.7	38.1	-118.98	294.7	354.2	1,077.5	1,011.4	66.14	16.291	
9,900.0	9,314.6	10,464.0	9,837.8	36.7	38.9	-119.05	288.2	432.4	1,073.5	1,005.8	67.64	15.870	

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 #202H
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 #202H	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	
10,000.0	9,320.5	10,542.7	9,841.7	37.8	39.7	-119.06	283.7	510.9	1,071.3	1,001.9	69.34	15.449	
10,065.3	9,324.3	10,594.1	9,843.9	38.6	40.3	-119.02	281.9	562.3	1,070.9	1,000.3	70.56	15.176	
10,100.0	9,326.3	10,621.5	9,845.0	39.0	40.6	-118.98	281.3	589.6	1,071.0	999.7	71.24	15.034	
10,200.0	9,332.1	10,702.3	9,847.9	40.3	41.6	-118.83	281.0	670.4	1,072.6	999.2	73.35	14.622	
10,300.0	9,337.7	10,802.2	9,851.1	41.7	43.0	-118.61	281.7	770.2	1,074.9	999.0	75.92	14.159	
10,400.0	9,343.2	10,902.1	9,854.4	43.2	44.4	-118.40	282.4	870.1	1,077.2	998.5	78.66	13.694	
10,500.0	9,348.7	11,002.0	9,857.6	44.8	45.9	-118.20	283.1	969.9	1,079.4	997.8	81.55	13.235	
10,600.0	9,354.0	11,101.9	9,860.9	46.5	47.5	-118.01	283.8	1,069.8	1,081.5	996.9	84.58	12.786	
10,700.0	9,359.3	11,201.9	9,864.2	48.2	49.2	-117.83	284.5	1,169.6	1,083.5	995.8	87.73	12.350	
10,800.0	9,364.4	11,301.8	9,867.4	50.0	50.9	-117.65	285.2	1,269.5	1,085.4	994.4	91.00	11.928	
10,900.0	9,369.5	11,401.7	9,870.7	51.9	52.7	-117.49	285.8	1,369.4	1,087.3	992.9	94.36	11.523	
11,000.0	9,374.5	11,501.7	9,873.9	53.8	54.5	-117.33	286.5	1,469.3	1,089.1	991.3	97.82	11.134	
11,100.0	9,379.4	11,601.6	9,877.2	55.7	56.4	-117.19	287.2	1,569.2	1,090.8	989.4	101.36	10.762	
11,200.0	9,384.2	11,701.6	9,880.5	57.7	58.4	-117.05	287.9	1,669.1	1,092.4	987.4	104.97	10.407	
11,300.0	9,388.9	11,801.5	9,883.7	59.7	60.3	-116.91	288.6	1,769.0	1,093.9	985.3	108.65	10.069	
11,400.0	9,393.5	11,901.5	9,887.0	61.7	62.3	-116.79	289.3	1,868.9	1,095.4	983.0	112.38	9.747	
11,500.0	9,398.0	12,001.5	9,890.2	63.8	64.3	-116.68	290.0	1,968.8	1,096.7	980.6	116.18	9.440	
11,600.0	9,402.5	12,101.4	9,893.5	65.9	66.4	-116.57	290.7	2,068.7	1,098.0	978.0	120.01	9.149	
11,700.0	9,406.8	12,201.4	9,896.8	68.0	68.5	-116.47	291.4	2,168.6	1,099.2	975.3	123.90	8.872	
11,800.0	9,411.0	12,301.4	9,900.0	70.1	70.6	-116.38	292.0	2,268.6	1,100.3	972.4	127.82	8.608	
11,900.0	9,415.2	12,401.4	9,903.3	72.3	72.7	-116.30	292.7	2,368.5	1,101.3	969.5	131.77	8.357	
12,000.0	9,419.3	12,501.4	9,906.6	74.5	74.9	-116.23	293.4	2,468.4	1,102.2	966.4	135.76	8.119	
12,100.0	9,423.2	12,601.4	9,909.8	76.6	77.0	-116.16	294.1	2,568.4	1,103.0	963.2	139.77	7.891	
12,200.0	9,427.1	12,701.4	9,913.1	78.9	79.2	-116.10	294.8	2,668.3	1,103.7	959.9	143.81	7.675	
12,300.0	9,430.9	12,801.3	9,916.3	81.1	81.4	-116.05	295.5	2,768.2	1,104.3	956.5	147.86	7.469	
12,400.0	9,434.6	12,901.3	9,919.6	83.3	83.6	-116.01	296.2	2,868.2	1,104.9	952.9	151.94	7.272	
12,500.0	9,438.2	13,001.3	9,922.9	85.5	85.8	-115.98	296.9	2,968.1	1,105.3	949.3	156.03	7.084	
12,600.0	9,441.7	13,101.3	9,926.1	87.8	88.1	-115.95	297.6	3,068.1	1,105.6	945.5	160.14	6.904	
12,700.0	9,445.1	13,201.3	9,929.4	90.0	90.3	-115.93	298.2	3,168.0	1,105.9	941.6	164.25	6.733	
12,800.0	9,448.5	13,301.3	9,932.7	92.3	92.6	-115.92	298.9	3,267.9	1,106.1	937.7	168.38	6.569	
12,892.1	9,451.4	13,406.5	9,935.7	94.4	95.0	-115.92	299.6	3,360.0	1,106.1	933.7	172.45	6.414	
12,900.0	9,451.7	13,401.3	9,935.9	94.6	94.8	-115.92	299.6	3,367.9	1,106.1	933.6	172.51	6.412	
13,000.0	9,454.9	13,501.3	9,939.2	96.9	97.1	-115.92	300.3	3,467.8	1,106.1	929.5	176.65	6.262	
13,100.0	9,458.1	13,601.3	9,942.4	99.2	99.4	-115.93	301.0	3,567.8	1,106.2	925.4	180.81	6.118	
13,200.0	9,461.3	13,701.3	9,945.7	101.5	101.7	-115.93	301.7	3,667.7	1,106.2	921.2	184.98	5.980	
13,300.0	9,464.5	13,801.3	9,949.0	103.8	104.0	-115.93	302.4	3,767.7	1,106.2	917.0	189.16	5.848	
13,400.0	9,467.7	13,901.3	9,952.2	106.1	106.3	-115.93	303.1	3,867.6	1,106.2	912.9	193.36	5.721	
13,500.0	9,470.9	14,001.3	9,955.5	108.4	108.6	-115.94	303.8	3,967.6	1,106.3	908.7	197.56	5.600	
13,600.0	9,474.1	14,101.3	9,958.7	110.7	110.9	-115.94	304.5	4,067.5	1,106.3	904.5	201.78	5.483	
13,700.0	9,477.3	14,201.3	9,962.0	113.1	113.2	-115.94	305.1	4,167.4	1,106.3	900.3	206.00	5.370	
13,800.0	9,480.5	14,301.3	9,965.3	115.4	115.6	-115.95	305.8	4,267.4	1,106.3	896.1	210.24	5.262	
13,900.0	9,483.6	14,401.3	9,968.5	117.7	117.9	-115.95	306.5	4,367.3	1,106.4	891.9	214.48	5.158	
14,000.0	9,486.8	14,501.3	9,971.8	120.1	120.2	-115.95	307.2	4,467.3	1,106.4	887.7	218.73	5.058	
14,100.0	9,490.0	14,601.3	9,975.1	122.4	122.6	-115.96	307.9	4,567.2	1,106.4	883.4	222.98	4.962	
14,200.0	9,493.2	14,701.3	9,978.3	124.8	124.9	-115.96	308.6	4,667.2	1,106.4	879.2	227.25	4.869	
14,300.0	9,496.4	14,801.3	9,981.6	127.1	127.3	-115.96	309.3	4,767.1	1,106.5	874.9	231.52	4.779	
14,400.0	9,499.6	14,901.3	9,984.8	129.5	129.6	-115.97	310.0	4,867.1	1,106.5	870.7	235.79	4.693	
14,500.0	9,502.8	15,001.3	9,988.1	131.8	132.0	-115.97	310.7	4,967.0	1,106.5	866.4	240.08	4.609	
14,600.0	9,506.0	15,101.3	9,991.4	134.2	134.3	-115.97	311.3	5,066.9	1,106.5	862.2	244.36	4.528	
14,700.0	9,509.2	15,201.3	9,994.6	136.6	136.7	-115.98	312.0	5,166.9	1,106.6	857.9	248.66	4.450	
14,800.0	9,512.4	15,301.3	9,997.9	138.9	139.0	-115.98	312.7	5,266.8	1,106.6	853.6	252.95	4.375	
14,900.0	9,515.6	15,401.3	10,001.2	141.3	141.4	-115.98	313.4	5,366.8	1,106.6	849.3	257.26	4.302	

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 #202H
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 #202H	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	
15,000.0	9,518.8	15,501.3	10,004.4	143.7	143.8	-115.99	314.1	5,466.7	1,106.6	845.1	261.56	4.231	
15,100.0	9,522.0	15,601.3	10,007.7	146.1	146.2	-115.99	314.8	5,566.7	1,106.7	840.8	265.87	4.162	
15,200.0	9,525.2	15,701.3	10,010.9	148.4	148.5	-115.99	315.5	5,666.6	1,106.7	836.5	270.19	4.096	
15,300.0	9,528.4	15,801.3	10,014.2	150.8	150.9	-116.00	316.2	5,766.6	1,106.7	832.2	274.51	4.032	
15,400.0	9,531.6	15,901.3	10,017.5	153.2	153.3	-116.00	316.9	5,866.5	1,106.7	827.9	278.83	3.969	
15,500.0	9,534.8	16,001.3	10,020.7	155.6	155.7	-116.00	317.5	5,966.4	1,106.7	823.6	283.16	3.909	
15,600.0	9,538.0	16,101.3	10,024.0	158.0	158.0	-116.01	318.2	6,066.4	1,106.8	819.3	287.48	3.850	
15,700.0	9,541.2	16,201.3	10,027.3	160.4	160.4	-116.01	318.9	6,166.3	1,106.8	815.0	291.82	3.793	
15,800.0	9,544.4	16,301.3	10,030.5	162.8	162.8	-116.01	319.6	6,266.3	1,106.8	810.7	296.15	3.737	
15,900.0	9,547.6	16,401.3	10,033.8	165.1	165.2	-116.02	320.3	6,366.2	1,106.8	806.4	300.49	3.683	
16,000.0	9,550.8	16,501.3	10,037.0	167.5	167.6	-116.02	321.0	6,466.2	1,106.9	802.0	304.83	3.631	
16,100.0	9,554.0	16,601.3	10,040.3	169.9	170.0	-116.02	321.7	6,566.1	1,106.9	797.7	309.17	3.580	
16,200.0	9,557.2	16,701.3	10,043.6	172.3	172.4	-116.02	322.4	6,666.1	1,106.9	793.4	313.52	3.531	
16,300.0	9,560.3	16,801.3	10,046.8	174.7	174.8	-116.03	323.1	6,766.0	1,106.9	789.1	317.87	3.482	
16,400.0	9,563.5	16,901.3	10,050.1	177.1	177.2	-116.03	323.8	6,865.9	1,107.0	784.8	322.22	3.435	
16,500.0	9,566.7	17,001.3	10,053.4	179.5	179.6	-116.03	324.4	6,965.9	1,107.0	780.4	326.57	3.390	
16,600.0	9,569.9	17,101.3	10,056.6	181.9	182.0	-116.04	325.1	7,065.8	1,107.0	776.1	330.92	3.345	
16,700.0	9,573.1	17,201.3	10,059.9	184.3	184.4	-116.04	325.8	7,165.8	1,107.0	771.8	335.28	3.302	
16,711.6	9,573.5	17,212.9	10,060.3	184.6	184.6	-116.04	325.9	7,177.4	1,107.0	771.3	335.78	3.297 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	-23.11	0.1	0.0	0.1				
100.0	100.0	101.0	101.0	0.1	0.1	-175.40	0.1	0.0	0.9	0.6	0.28	3.258	
200.0	200.0	201.0	201.0	0.5	0.5	-178.82	0.1	0.0	3.5	2.5	0.98	3.578	
300.0	299.9	300.9	300.9	0.9	0.8	-179.47	0.1	0.0	7.9	6.2	1.70	4.629	
400.0	399.7	400.7	400.7	1.2	1.2	-179.68	0.1	0.0	13.1	10.7	2.42	5.421	
500.0	499.6	500.6	500.6	1.6	1.6	-179.77	0.1	0.0	18.4	15.2	3.14	5.852	
600.0	599.5	600.5	600.5	2.0	1.9	-179.82	0.1	0.0	23.6	19.7	3.85	6.122	
700.0	699.3	700.3	700.3	2.3	2.3	-179.86	0.1	0.0	28.8	24.2	4.57	6.307	
800.0	799.2	800.2	800.2	2.7	2.6	-179.88	0.1	0.0	34.1	28.8	5.29	6.441	
900.0	899.0	900.0	900.0	3.1	3.0	-179.89	0.1	0.0	39.3	33.3	6.00	6.543	
1,000.0	998.9	1,000.1	999.9	3.4	3.4	-179.91	0.1	0.0	44.5	37.8	6.72	6.623	
1,100.0	1,098.8	1,100.2	1,099.8	3.8	3.7	140.92	0.1	0.0	48.4	40.9	7.44	6.502	
1,200.0	1,198.8	1,200.2	1,199.8	4.1	4.1	88.94	0.1	0.0	49.5	41.4	8.14	6.081	
1,300.0	1,298.6	1,300.4	1,299.6	4.5	4.4	73.15	0.1	0.0	48.4	39.6	8.84	5.477	
1,407.1	1,405.3	1,406.3	1,406.3	4.8	4.8	74.86	0.1	0.0	45.7	36.1	9.57	4.771	
1,500.0	1,497.7	1,501.3	1,498.7	5.1	5.2	87.00	0.1	0.0	44.1	33.9	10.23	4.315	
1,522.3	1,519.9	1,520.9	1,520.9	5.2	5.2	90.00	0.1	0.0	44.1	33.7	10.38	4.248	
1,600.0	1,597.2	1,601.8	1,598.2	5.5	5.5	100.34	0.1	0.0	44.8	33.9	10.93	4.099	
1,700.0	1,696.6	1,702.4	1,697.6	5.8	5.9	112.66	0.1	0.0	47.8	36.2	11.64	4.106	
1,800.0	1,796.1	1,802.9	1,797.1	6.1	6.2	123.12	0.1	0.0	52.7	40.4	12.35	4.269	
1,900.0	1,895.5	1,903.5	1,896.5	6.5	6.6	131.58	0.1	0.0	59.1	46.0	13.06	4.524	
2,000.0	1,995.0	2,004.0	1,996.0	6.9	7.0	138.29	0.1	0.0	66.4	52.7	13.76	4.827	
2,100.0	2,094.4	2,104.6	2,095.4	7.2	7.3	143.61	0.1	0.0	74.6	60.1	14.47	5.151	
2,200.0	2,193.9	2,205.1	2,194.9	7.6	7.7	147.87	0.1	0.0	83.2	68.0	15.18	5.478	
2,300.0	2,293.4	2,305.6	2,294.4	8.0	8.0	151.31	0.1	0.0	92.2	76.3	15.90	5.799	
2,400.0	2,392.8	2,406.2	2,393.8	8.4	8.4	154.13	0.1	0.0	101.4	84.8	16.61	6.108	
2,500.0	2,492.3	2,493.3	2,493.3	8.7	8.7	156.47	0.1	0.0	110.9	93.6	17.27	6.421	
2,600.0	2,591.7	2,594.7	2,594.7	9.1	9.1	158.43	-0.6	-0.3	119.8	101.8	17.98	6.662	
2,700.0	2,691.2	2,696.5	2,696.5	9.5	9.4	160.02	-3.0	-1.4	127.0	108.3	18.67	6.804	
2,800.0	2,790.6	2,798.6	2,798.5	9.9	9.7	161.36	-7.0	-3.2	132.6	113.2	19.35	6.850	
2,900.0	2,890.1	2,900.9	2,900.6	10.3	10.1	162.54	-12.7	-5.7	136.4	116.4	20.03	6.808	
3,000.0	2,989.5	3,003.3	3,002.7	10.7	10.4	163.61	-20.1	-9.0	138.5	117.8	20.71	6.686	
3,100.0	3,089.0	3,105.8	3,104.6	11.0	10.7	164.61	-29.2	-13.0	138.9	117.5	21.39	6.491	
3,200.0	3,188.5	3,208.2	3,206.4	11.4	11.1	165.60	-39.9	-17.8	137.5	115.4	22.06	6.231	
3,300.0	3,287.9	3,310.6	3,307.9	11.8	11.5	166.59	-52.2	-23.3	134.3	111.6	22.73	5.910	
3,400.0	3,387.4	3,412.8	3,408.9	12.2	11.8	167.64	-66.2	-29.6	129.5	106.1	23.39	5.535	
3,500.0	3,486.8	3,514.8	3,509.5	12.6	12.2	168.80	-81.8	-36.5	122.9	98.8	24.04	5.110	
3,600.0	3,586.3	3,615.1	3,608.1	13.0	12.6	170.10	-98.3	-43.9	115.0	90.2	24.73	4.649	
3,700.0	3,685.7	3,714.7	3,706.1	13.4	12.9	171.58	-114.9	-51.2	107.1	81.6	25.44	4.210	
3,800.0	3,785.2	3,814.4	3,804.1	13.8	13.3	173.31	-131.4	-58.6	99.3	73.1	26.15	3.797	
3,900.0	3,884.7	3,914.0	3,902.1	14.1	13.7	175.32	-147.9	-65.9	91.6	64.7	26.86	3.409	
4,000.0	3,984.1	4,013.6	4,000.1	14.5	14.1	177.70	-164.4	-73.3	84.0	56.4	27.58	3.045	
4,100.0	4,083.6	4,113.3	4,098.1	14.9	14.5	-179.46	-180.9	-80.6	76.6	48.3	28.31	2.705	
4,200.0	4,183.0	4,212.9	4,196.1	15.3	14.9	-176.02	-197.4	-88.0	69.4	40.3	29.06	2.389	
4,300.0	4,282.5	4,312.6	4,294.1	15.7	15.3	-171.80	-213.9	-95.3	62.5	32.7	29.83	2.097	
4,400.0	4,381.9	4,412.2	4,392.1	16.1	15.7	-166.59	-230.4	-102.7	56.1	25.5	30.63	1.831	
4,500.0	4,481.4	4,511.9	4,490.1	16.5	16.1	-160.10	-246.9	-110.1	50.2	18.7	31.49	1.595	
4,600.0	4,580.9	4,611.5	4,588.1	16.9	16.5	-152.03	-263.4	-117.4	45.2	12.7	32.43	1.392 Level 3	
4,700.0	4,680.3	4,711.2	4,686.0	17.3	16.9	-142.19	-279.9	-124.8	41.2	7.7	33.46	1.231 Level 2	
4,800.0	4,779.8	4,810.8	4,784.0	17.7	17.3	-130.69	-296.4	-132.1	38.7	4.1	34.55	1.120 Level 2	
4,891.9	4,871.2	4,902.4	4,874.1	18.0	17.7	-119.22	-311.6	-138.9	37.9	2.4	35.55	1.066 Level 2	
4,900.0	4,879.2	4,910.5	4,882.0	18.1	17.8	-118.20	-313.0	-139.5	37.9	2.3	35.63	1.064 Level 2, SF	

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 #202H
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 #202H	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	4,978.7	5,010.1	4,980.0	18.5	18.2	-105.80	-329.5	-146.8	39.0	2.4	36.60	1.065	Level 2
5,100.0	5,078.1	5,109.8	5,078.0	18.8	18.6	-94.54	-346.0	-154.2	41.7	4.3	37.42	1.116	Level 2
5,200.0	5,177.6	5,209.4	5,176.0	19.2	19.0	-84.99	-362.5	-161.5	45.9	7.8	38.13	1.204	Level 2
5,300.0	5,277.1	5,309.0	5,274.0	19.6	19.4	-77.19	-379.0	-168.9	51.1	12.3	38.77	1.319	Level 3
5,400.0	5,376.5	5,408.7	5,372.0	20.0	19.9	-70.93	-395.5	-176.2	57.1	17.7	39.39	1.450	Level 3
5,500.0	5,476.0	5,508.3	5,470.0	20.4	20.3	-65.89	-412.0	-183.6	63.6	23.6	40.01	1.590	
5,600.0	5,575.4	5,608.0	5,568.0	20.8	20.7	-61.82	-428.5	-190.9	70.5	29.9	40.64	1.736	
5,700.0	5,674.9	5,707.6	5,666.0	21.2	21.2	-58.48	-445.0	-198.3	77.8	36.5	41.29	1.883	
5,800.0	5,774.3	5,807.3	5,764.0	21.6	21.6	-55.72	-461.5	-205.6	85.2	43.2	41.95	2.031	
5,900.0	5,873.8	5,906.9	5,862.0	22.0	22.0	-53.41	-478.0	-213.0	92.8	50.2	42.62	2.177	
6,000.0	5,973.2	6,006.6	5,960.0	22.4	22.5	-51.45	-494.6	-220.4	100.5	57.2	43.30	2.321	
6,100.0	6,072.7	6,106.2	6,058.0	22.8	22.9	-49.77	-511.1	-227.7	108.4	64.4	43.99	2.463	
6,200.0	6,172.2	6,205.9	6,156.0	23.2	23.4	-48.31	-527.6	-235.1	116.3	71.6	44.69	2.601	
6,300.0	6,271.6	6,305.5	6,253.9	23.6	23.8	-47.05	-544.1	-242.4	124.2	78.8	45.40	2.737	
6,400.0	6,371.1	6,405.2	6,351.9	24.0	24.2	-45.93	-560.6	-249.8	132.3	86.2	46.11	2.869	
6,500.0	6,470.5	6,504.8	6,449.9	24.4	24.7	-44.95	-577.1	-257.1	140.3	93.5	46.82	2.997	
6,600.0	6,570.0	6,604.5	6,547.9	24.8	25.1	-44.07	-593.6	-264.5	148.4	100.9	47.54	3.122	
6,700.0	6,669.4	6,704.1	6,645.9	25.2	25.6	-43.28	-610.1	-271.8	156.6	108.3	48.26	3.244	
6,800.0	6,768.9	6,803.7	6,743.9	25.6	26.0	-42.57	-626.6	-279.2	164.7	115.8	48.99	3.363	
6,900.0	6,868.4	6,903.4	6,841.9	26.0	26.4	-41.93	-643.1	-286.5	172.9	123.2	49.71	3.478	
7,000.0	6,967.8	7,003.0	6,939.9	26.3	26.9	-41.34	-659.6	-293.9	181.1	130.7	50.44	3.591	
7,100.0	7,067.3	7,102.7	7,037.9	26.7	27.3	-40.81	-676.1	-301.2	189.4	138.2	51.17	3.700	
7,200.0	7,166.7	7,202.3	7,135.9	27.1	27.8	-40.32	-692.7	-308.6	197.6	145.7	51.91	3.807	
7,300.0	7,266.2	7,302.0	7,233.9	27.5	28.2	-39.87	-709.2	-315.9	205.8	153.2	52.64	3.910	
7,400.0	7,365.6	7,401.6	7,331.9	27.9	28.7	-39.45	-725.7	-323.3	214.1	160.7	53.38	4.011	
7,500.0	7,465.1	7,501.3	7,429.9	28.3	29.1	-39.07	-742.2	-330.7	222.4	168.3	54.12	4.109	
7,600.0	7,564.6	7,600.9	7,527.9	28.7	29.6	-38.71	-758.7	-338.0	230.7	175.8	54.85	4.205	
7,700.0	7,664.0	7,700.6	7,625.9	29.1	30.0	-38.38	-775.2	-345.4	239.0	183.4	55.59	4.298	
7,800.0	7,763.5	7,800.2	7,723.9	29.5	30.5	-38.07	-791.7	-352.7	247.3	190.9	56.33	4.389	
7,900.0	7,862.9	7,900.1	7,821.8	29.9	30.9	-37.78	-808.2	-360.1	255.6	198.5	57.08	4.478	
8,000.0	7,962.4	8,000.5	7,919.8	30.3	31.4	-37.51	-824.7	-367.4	263.9	206.1	57.82	4.564	
8,100.0	8,061.8	8,099.1	8,017.8	30.7	31.8	-37.25	-841.2	-374.8	272.2	213.6	58.56	4.648	
8,200.0	8,161.3	8,201.2	8,115.8	31.1	32.3	-37.01	-857.7	-382.1	280.5	221.2	59.31	4.729	
8,300.0	8,260.8	8,303.5	8,218.9	31.5	32.7	-36.83	-874.5	-389.6	288.2	228.1	60.14	4.793	
8,400.0	8,360.2	8,410.8	8,325.1	31.9	33.2	-36.88	-889.0	-396.1	293.5	232.6	60.99	4.813	
8,468.4	8,428.3	8,484.4	8,398.1	32.2	33.5	-37.05	-897.4	-399.8	295.7	234.1	61.56	4.803	
8,500.0	8,459.7	8,518.4	8,431.8	32.3	33.6	-37.15	-900.9	-401.3	296.4	234.6	61.81	4.795	
8,600.0	8,559.4	8,626.0	8,539.0	32.7	34.0	-37.34	-910.0	-405.4	298.8	236.3	62.58	4.775	
8,700.0	8,659.3	8,733.7	8,646.4	33.0	34.4	-37.34	-916.4	-408.2	301.5	238.2	63.28	4.764	
8,767.2	8,726.5	8,806.1	8,718.7	33.2	34.7	179.85	-919.1	-409.4	303.4	239.7	63.70	4.762	
8,800.0	8,759.3	8,841.4	8,754.1	33.3	34.8	87.64	-919.9	-409.8	304.1	240.3	63.88	4.761	
8,850.0	8,809.0	8,895.0	8,807.7	33.5	35.0	88.66	-920.7	-410.2	304.7	240.6	64.08	4.755	
8,900.0	8,858.1	8,946.4	8,859.1	33.6	35.1	90.46	-920.8	-410.2	304.7	240.5	64.22	4.745	
8,950.0	8,906.2	9,005.5	8,907.2	33.7	35.3	92.88	-920.8	-410.2	305.2	240.8	64.36	4.742	
9,000.0	8,952.9	9,041.3	8,953.9	33.8	35.4	95.83	-920.8	-410.2	306.6	242.2	64.39	4.762	
9,050.0	8,998.0	9,086.3	8,999.0	33.9	35.6	99.13	-920.8	-410.2	309.8	245.3	64.45	4.806	
9,100.0	9,040.9	9,129.2	9,041.9	34.0	35.7	102.56	-920.8	-410.2	315.4	250.8	64.54	4.886	
9,150.0	9,081.4	9,169.8	9,082.4	34.1	35.8	105.88	-920.8	-410.2	324.1	259.4	64.70	5.010	
9,200.0	9,119.3	9,207.6	9,120.3	34.1	35.9	108.87	-920.8	-410.2	336.6	271.7	64.94	5.184	
9,250.0	9,154.2	9,242.5	9,155.2	34.2	36.0	111.34	-920.8	-410.2	353.3	288.1	65.27	5.413	
9,300.0	9,185.8	9,274.1	9,186.8	34.2	36.1	113.12	-920.8	-410.2	374.4	308.8	65.69	5.700	
9,350.0	9,213.9	9,302.2	9,214.9	34.2	36.2	114.07	-920.8	-410.2	399.9	333.7	66.15	6.045	

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 #202H
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 #202H	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	
9,400.0	9,238.3	9,326.6	9,239.3	34.2	36.3	114.06	-920.8	-410.2	429.4	362.8	66.64	6.444	
9,450.0	9,258.8	9,347.1	9,259.8	34.2	36.3	112.92	-920.8	-410.2	462.7	395.5	67.12	6.894	
9,500.0	9,275.2	9,363.6	9,276.2	34.2	36.4	110.47	-920.8	-410.2	499.1	431.6	67.56	7.388	
9,550.0	9,287.5	9,375.9	9,288.5	34.2	36.4	106.48	-920.8	-410.2	538.3	470.4	67.96	7.921	
9,600.0	9,295.5	9,383.9	9,296.5	34.3	36.4	100.72	-920.8	-410.2	579.7	511.4	68.31	8.486	
9,631.7	9,298.4	9,386.7	9,299.4	34.4	36.5	96.09	-920.8	-410.2	606.8	538.3	68.51	8.857	
9,700.0	9,302.6	9,390.9	9,303.6	34.9	36.5	96.82	-920.8	-410.2	666.6	597.7	68.88	9.677	
9,800.0	9,308.6	10,180.3	9,899.6	35.7	37.7	150.55	-975.9	12.0	733.0	689.6	43.37	16.900	
9,900.0	9,314.6	10,308.2	9,945.5	36.7	37.8	151.46	-989.2	130.7	762.9	720.3	42.59	17.910	
10,000.0	9,320.5	10,439.6	9,987.3	37.8	38.2	152.22	-1,001.3	254.7	788.7	746.6	42.11	18.731	
10,100.0	9,326.3	10,574.0	10,024.4	39.0	39.2	152.85	-1,011.8	383.5	810.3	768.4	41.93	19.326	
10,200.0	9,332.1	10,711.1	10,056.3	40.3	40.6	153.37	-1,020.7	516.5	827.5	785.4	42.09	19.661	
10,300.0	9,337.7	10,850.2	10,082.4	41.7	42.2	153.79	-1,027.7	652.9	840.2	797.6	42.61	19.718	
10,400.0	9,343.2	10,990.8	10,102.3	43.2	44.1	154.11	-1,032.8	792.0	848.2	804.7	43.48	19.508	
10,500.0	9,348.7	11,132.3	10,115.7	44.8	46.1	154.35	-1,035.9	932.7	851.6	806.9	44.70	19.050	
10,600.0	9,354.0	11,273.9	10,122.5	46.5	48.3	154.51	-1,037.0	1,074.2	850.2	803.9	46.23	18.390	
10,700.0	9,359.3	11,406.3	10,123.5	48.2	50.5	154.59	-1,036.4	1,193.9	844.7	796.6	48.07	17.571	
10,800.0	9,364.4	11,506.5	10,123.7	50.0	52.2	154.65	-1,035.7	1,293.8	838.8	788.9	49.86	16.823	
10,900.0	9,369.5	11,593.3	10,123.8	51.9	53.7	154.69	-1,035.0	1,393.6	833.1	781.5	51.58	16.150	
11,000.0	9,374.5	11,693.2	10,124.0	53.8	55.5	154.73	-1,034.3	1,493.4	827.5	774.0	53.48	15.472	
11,100.0	9,379.4	11,807.0	10,124.2	55.7	57.6	154.77	-1,033.6	1,593.3	822.0	766.5	55.57	14.794	
11,200.0	9,384.2	11,907.1	10,124.4	57.7	59.5	154.80	-1,032.9	1,693.1	816.7	759.2	57.57	14.187	
11,300.0	9,388.9	11,992.7	10,124.5	59.7	61.1	154.82	-1,032.2	1,793.0	811.6	752.1	59.46	13.649	
11,400.0	9,393.5	12,107.4	10,124.7	61.7	63.4	154.84	-1,031.5	1,892.9	806.6	744.9	61.70	13.073	
11,500.0	9,398.0	12,192.5	10,124.9	63.8	65.1	154.84	-1,030.8	1,992.7	801.7	738.0	63.66	12.594	
11,600.0	9,402.5	12,292.4	10,125.0	65.9	67.1	154.85	-1,030.1	2,092.6	797.0	731.2	65.81	12.110	
11,700.0	9,406.8	12,407.7	10,125.2	68.0	69.5	154.84	-1,029.4	2,192.5	792.4	724.3	68.17	11.624	
11,800.0	9,411.0	12,507.8	10,125.4	70.1	71.5	154.83	-1,028.7	2,292.4	788.0	717.6	70.40	11.193	
11,900.0	9,415.2	12,592.1	10,125.5	72.3	73.3	154.81	-1,028.0	2,392.3	783.7	711.3	72.49	10.812	
12,000.0	9,419.3	12,708.0	10,125.7	74.5	75.8	154.79	-1,027.3	2,492.2	779.6	704.7	74.96	10.401	
12,100.0	9,423.2	12,808.1	10,125.9	76.6	77.9	154.75	-1,026.6	2,592.2	775.6	698.4	77.28	10.036	
12,200.0	9,427.1	12,908.1	10,126.1	78.9	80.1	154.71	-1,025.9	2,692.1	771.8	692.2	79.64	9.691	
12,300.0	9,430.9	13,008.2	10,126.2	81.1	82.3	154.66	-1,025.2	2,792.0	768.1	686.1	82.03	9.364	
12,400.0	9,434.6	13,108.3	10,126.4	83.3	84.4	154.61	-1,024.5	2,891.9	764.6	680.1	84.46	9.053	
12,500.0	9,438.2	13,208.3	10,126.6	85.5	86.6	154.54	-1,023.8	2,991.9	761.2	674.3	86.91	8.758	
12,600.0	9,441.7	13,308.4	10,126.7	87.8	88.9	154.47	-1,023.1	3,091.8	758.0	668.6	89.40	8.478	
12,700.0	9,445.1	13,408.5	10,126.9	90.0	91.1	154.39	-1,022.4	3,191.8	754.9	662.9	91.93	8.212	
12,800.0	9,448.5	13,491.5	10,127.1	92.3	92.9	154.30	-1,021.7	3,291.7	751.9	657.7	94.28	7.975	
12,892.1	9,451.4	13,583.6	10,127.2	94.4	95.0	154.21	-1,021.0	3,383.8	749.4	652.7	96.67	7.752	
12,900.0	9,451.7	13,608.5	10,127.3	94.6	95.6	154.21	-1,021.0	3,391.7	749.1	652.1	97.08	7.717	
13,000.0	9,454.9	13,708.6	10,127.4	96.9	97.8	154.11	-1,020.2	3,491.6	746.4	646.7	99.70	7.487	
13,100.0	9,458.1	13,808.6	10,127.6	99.2	100.1	154.00	-1,019.5	3,591.6	743.7	641.4	102.34	7.267	
13,200.0	9,461.3	13,891.3	10,127.8	101.5	102.0	153.90	-1,018.8	3,691.5	741.0	636.2	104.79	7.071	
13,300.0	9,464.5	14,008.7	10,127.9	103.8	104.7	153.80	-1,018.1	3,791.5	738.3	630.6	107.69	6.856	
13,400.0	9,467.7	14,091.2	10,128.1	106.1	106.6	153.70	-1,017.4	3,891.4	735.5	625.4	110.17	6.676	
13,500.0	9,470.9	14,208.8	10,128.3	108.4	109.3	153.59	-1,016.7	3,991.4	732.8	619.7	113.11	6.479	
13,600.0	9,474.1	14,308.9	10,128.4	110.7	111.6	153.49	-1,016.0	4,091.3	730.1	614.3	115.85	6.302	
13,700.0	9,477.3	14,408.9	10,128.6	113.1	113.9	153.38	-1,015.3	4,191.3	727.4	608.8	118.61	6.133	
13,800.0	9,480.5	14,509.0	10,128.8	115.4	116.2	153.27	-1,014.6	4,291.2	724.7	603.3	121.38	5.970	
13,900.0	9,483.6	14,609.0	10,129.0	117.7	118.5	153.17	-1,013.9	4,391.2	722.0	597.8	124.18	5.814	
14,000.0	9,486.8	14,709.1	10,129.1	120.1	120.8	153.06	-1,013.2	4,491.1	719.3	592.3	127.00	5.664	
14,100.0	9,490.0	14,790.9	10,129.3	122.4	122.7	152.95	-1,012.5	4,591.1	716.6	587.0	129.60	5.529	

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 #202H
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 #202H	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						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	9,493.2	14,909.1	10,129.5	124.8	125.5	152.84	-1,011.8	4,691.0	713.9	581.2	132.68	5.380	
14,300.0	9,496.4	15,009.2	10,129.6	127.1	127.8	152.73	-1,011.1	4,791.0	711.2	575.6	135.55	5.247	
14,400.0	9,499.6	15,109.2	10,129.8	129.5	130.2	152.62	-1,010.4	4,890.9	708.5	570.1	138.44	5.118	
14,500.0	9,502.8	15,190.7	10,130.0	131.8	132.1	152.51	-1,009.7	4,990.9	705.8	564.7	141.11	5.002	
14,600.0	9,506.0	15,309.3	10,130.2	134.2	134.9	152.39	-1,009.0	5,090.8	703.1	558.9	144.28	4.873	
14,700.0	9,509.2	15,409.4	10,130.3	136.6	137.2	152.28	-1,008.3	5,190.8	700.5	553.2	147.22	4.758	
14,800.0	9,512.4	15,509.4	10,130.5	138.9	139.6	152.16	-1,007.6	5,290.7	697.8	547.6	150.19	4.646	
14,900.0	9,515.6	15,609.5	10,130.7	141.3	141.9	152.05	-1,006.9	5,390.7	695.1	541.9	153.17	4.538	
15,000.0	9,518.8	15,709.5	10,130.8	143.7	144.3	151.93	-1,006.2	5,490.6	692.4	536.2	156.17	4.434	
15,100.0	9,522.0	15,809.6	10,131.0	146.1	146.7	151.81	-1,005.5	5,590.6	689.8	530.6	159.19	4.333	
15,200.0	9,525.2	15,909.6	10,131.2	148.4	149.0	151.69	-1,004.8	5,690.5	687.1	524.8	162.23	4.235	
15,300.0	9,528.4	16,009.6	10,131.4	150.8	151.4	151.57	-1,004.1	5,790.5	684.4	519.1	165.29	4.141	
15,400.0	9,531.6	16,109.7	10,131.5	153.2	153.8	151.45	-1,003.4	5,890.5	681.8	513.4	168.37	4.049	
15,500.0	9,534.8	16,209.7	10,131.7	155.6	156.2	151.33	-1,002.7	5,990.4	679.1	507.6	171.47	3.960	
15,600.0	9,538.0	16,309.8	10,131.9	158.0	158.5	151.21	-1,002.0	6,090.4	676.4	501.9	174.58	3.875	
15,700.0	9,541.2	16,409.8	10,132.0	160.4	160.9	151.09	-1,001.3	6,190.3	673.8	496.1	177.72	3.791	
15,800.0	9,544.4	16,509.9	10,132.2	162.8	163.3	150.96	-1,000.6	6,290.3	671.1	490.3	180.88	3.710	
15,900.0	9,547.6	16,609.9	10,132.4	165.1	165.7	150.84	-999.9	6,390.2	668.5	484.4	184.05	3.632	
16,000.0	9,550.8	16,710.0	10,132.5	167.5	168.1	150.71	-999.2	6,490.2	665.8	478.6	187.25	3.556	
16,100.0	9,554.0	16,790.0	10,132.7	169.9	170.0	150.58	-998.5	6,590.1	663.2	473.0	190.19	3.487	
16,200.0	9,557.2	16,889.9	10,132.9	172.3	172.4	150.46	-997.8	6,690.1	660.6	467.1	193.42	3.415	
16,300.0	9,560.3	16,989.9	10,133.1	174.7	174.8	150.33	-997.1	6,790.0	657.9	461.3	196.68	3.345	
16,400.0	9,563.5	17,089.8	10,133.2	177.1	177.1	150.20	-996.4	6,890.0	655.3	455.4	199.95	3.277	
16,500.0	9,566.7	17,189.8	10,133.4	179.5	179.5	150.06	-995.7	6,989.9	652.7	449.4	203.25	3.211	
16,600.0	9,569.9	17,289.8	10,133.6	181.9	181.9	149.93	-995.0	7,089.9	650.1	443.5	206.56	3.147	
16,700.0	9,573.1	17,389.7	10,133.7	184.3	184.3	149.80	-994.3	7,189.8	647.4	437.5	209.90	3.085	
16,711.6	9,573.5	17,401.3	10,133.8	184.6	184.6	149.78	-994.2	7,201.4	647.1	436.8	210.29	3.077	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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							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	-135.04	-30.0	-30.0	42.4					
100.0	100.0	100.0	100.0	0.1	0.1	135.97	-29.9	-30.0	43.0	42.7	0.28	150.982		
200.0	200.0	200.0	200.0	0.5	0.4	138.77	-29.5	-30.2	44.7	43.9	0.87	51.688		
300.0	299.9	299.9	299.9	0.9	0.7	143.02	-28.8	-30.5	48.0	46.4	1.59	30.245		
400.0	399.7	399.8	399.8	1.2	1.1	148.59	-27.2	-31.6	52.3	50.0	2.31	22.678		
500.0	499.6	499.6	499.6	1.6	1.4	154.54	-24.4	-33.1	56.9	53.9	3.03	18.804		
600.0	599.5	599.2	599.0	2.0	1.8	159.98	-21.2	-34.8	62.1	58.4	3.74	16.599		
700.0	699.3	698.9	698.7	2.3	2.2	164.67	-17.9	-36.7	67.9	63.4	4.46	15.211		
800.0	799.2	798.7	798.4	2.7	2.5	168.81	-14.3	-38.5	74.0	68.8	5.18	14.277		
900.0	899.0	898.6	898.2	3.1	2.9	173.17	-9.5	-40.3	80.2	74.3	5.90	13.586		
1,000.0	998.9	998.7	998.1	3.4	3.3	177.46	-3.8	-41.9	86.5	79.8	6.62	13.054		
1,100.0	1,098.8	1,098.6	1,097.8	3.8	3.6	141.54	2.1	-42.9	91.2	83.9	7.34	12.427		
1,200.0	1,198.8	1,198.8	1,197.8	4.1	4.0	91.61	8.2	-43.5	93.6	85.5	8.05	11.628 SF		
1,300.0	1,298.6	1,220.0	1,219.0	4.5	4.1	70.53	9.5	-43.5	122.3	114.8	7.53	16.245		
1,407.1	1,405.3	1,220.0	1,219.0	4.8	4.1	59.44	9.5	-43.5	206.9	200.2	6.67	31.013		
1,500.0	1,497.7	1,220.0	1,219.0	5.1	4.1	59.44	9.5	-43.5	292.0	285.6	6.37	45.861		
1,600.0	1,597.2	1,220.0	1,219.0	5.5	4.1	59.44	9.5	-43.5	387.6	381.4	6.20	62.556		
1,700.0	1,696.6	1,220.0	1,219.0	5.8	4.1	59.44	9.5	-43.5	485.0	479.0	6.08	79.742		
1,800.0	1,796.1	1,220.0	1,219.0	6.1	4.1	59.44	9.5	-43.5	583.3	577.3	5.99	97.320		
1,900.0	1,895.5	1,220.0	1,219.0	6.5	4.1	59.44	9.5	-43.5	682.1	676.2	5.92	115.245		
2,000.0	1,995.0	1,220.0	1,219.0	6.9	4.1	59.44	9.5	-43.5	781.2	775.3	5.85	133.480		
2,100.0	2,094.4	1,220.0	1,219.0	7.2	4.1	59.44	9.5	-43.5	880.5	874.7	5.79	151.991		
2,200.0	2,193.9	1,220.0	1,219.0	7.6	4.1	59.44	9.5	-43.5	979.9	974.2	5.74	170.741		
2,300.0	2,293.4	1,220.0	1,219.0	8.0	4.1	59.44	9.5	-43.5	1,079.5	1,073.8	5.69	189.689		
2,400.0	2,392.8	1,220.0	1,219.0	8.4	4.1	59.44	9.5	-43.5	1,179.1	1,173.5	5.65	208.790		
2,500.0	2,492.3	1,220.0	1,219.0	8.7	4.1	59.44	9.5	-43.5	1,278.8	1,273.2	5.61	227.991		
2,600.0	2,591.7	1,220.0	1,219.0	9.1	4.1	59.44	9.5	-43.5	1,378.5	1,372.9	5.58	247.233		
2,700.0	2,691.2	1,220.0	1,219.0	9.5	4.1	59.44	9.5	-43.5	1,478.3	1,472.7	5.55	266.454		
2,800.0	2,790.6	1,220.0	1,219.0	9.9	4.1	59.44	9.5	-43.5	1,578.1	1,572.5	5.53	285.585		
2,900.0	2,890.1	1,220.0	1,219.0	10.3	4.1	59.44	9.5	-43.5	1,677.9	1,672.4	5.51	304.553		
3,000.0	2,989.5	1,220.0	1,219.0	10.7	4.1	59.44	9.5	-43.5	1,777.7	1,772.2	5.50	323.283		
3,100.0	3,089.0	1,220.0	1,219.0	11.0	4.1	59.44	9.5	-43.5	1,877.6	1,872.1	5.49	341.698		
3,200.0	3,188.5	1,220.0	1,219.0	11.4	4.1	59.44	9.5	-43.5	1,977.5	1,972.0	5.50	359.724		
3,300.0	3,287.9	1,220.0	1,219.0	11.8	4.1	59.44	9.5	-43.5	2,077.3	2,071.8	5.51	377.288		
3,400.0	3,387.4	1,220.0	1,219.0	12.2	4.1	59.44	9.5	-43.5	2,177.2	2,171.7	5.52	394.322		
3,500.0	3,486.8	1,220.0	1,219.0	12.6	4.1	59.44	9.5	-43.5	2,277.1	2,271.6	5.54	410.763		
3,600.0	3,586.3	1,220.0	1,219.0	13.0	4.1	59.44	9.5	-43.5	2,377.0	2,371.5	5.57	426.558		
3,700.0	3,685.7	1,220.0	1,219.0	13.4	4.1	59.44	9.5	-43.5	2,477.0	2,471.4	5.61	441.661		
3,800.0	3,785.2	1,220.0	1,219.0	13.8	4.1	59.44	9.5	-43.5	2,576.9	2,571.2	5.65	456.037		
3,900.0	3,884.7	1,220.0	1,219.0	14.1	4.1	59.44	9.5	-43.5	2,676.8	2,671.1	5.70	469.660		
4,000.0	3,984.1	1,220.0	1,219.0	14.5	4.1	59.44	9.5	-43.5	2,776.7	2,771.0	5.75	482.514		
4,100.0	4,083.6	1,220.0	1,219.0	14.9	4.1	59.44	9.5	-43.5	2,876.7	2,870.9	5.82	494.591		
4,200.0	4,183.0	1,220.0	1,219.0	15.3	4.1	59.44	9.5	-43.5	2,976.6	2,970.7	5.88	505.891		
4,300.0	4,282.5	1,220.0	1,219.0	15.7	4.1	59.44	9.5	-43.5	3,076.6	3,070.6	5.96	516.424		
4,400.0	4,381.9	1,220.0	1,219.0	16.1	4.1	59.44	9.5	-43.5	3,176.5	3,170.5	6.04	526.204		
4,500.0	4,481.4	1,220.0	1,219.0	16.5	4.1	59.44	9.5	-43.5	3,276.5	3,270.4	6.12	535.249		
4,600.0	4,580.9	1,220.0	1,219.0	16.9	4.1	59.44	9.5	-43.5	3,376.4	3,370.2	6.21	543.584		
4,700.0	4,680.3	1,220.0	1,219.0	17.3	4.1	59.44	9.5	-43.5	3,476.4	3,470.1	6.31	551.234		
4,800.0	4,779.8	1,220.0	1,219.0	17.7	4.1	59.44	9.5	-43.5	3,576.4	3,570.0	6.41	558.228		
4,900.0	4,879.2	1,220.0	1,219.0	18.1	4.1	59.44	9.5	-43.5	3,676.3	3,669.8	6.51	564.596		
5,000.0	4,978.7	1,220.0	1,219.0	18.5	4.1	59.44	9.5	-43.5	3,776.3	3,769.7	6.62	570.369		
5,100.0	5,078.1	1,220.0	1,219.0	18.8	4.1	59.44	9.5	-43.5	3,876.3	3,869.5	6.73	575.578		

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 #202H
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 #202H	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		
5,200.0	5,177.6	1,220.0	1,219.0	19.2	4.1	59.44	9.5	-43.5	3,976.2	3,969.4	6.85	580.252		
5,300.0	5,277.1	1,220.0	1,219.0	19.6	4.1	59.44	9.5	-43.5	4,076.2	4,069.2	6.97	584.423		
5,400.0	5,376.5	1,220.0	1,219.0	20.0	4.1	59.44	9.5	-43.5	4,176.2	4,169.1	7.10	588.119		
5,500.0	5,476.0	1,220.0	1,219.0	20.4	4.1	59.44	9.5	-43.5	4,276.1	4,268.9	7.23	591.368		
5,600.0	5,575.4	1,220.0	1,219.0	20.8	4.1	59.44	9.5	-43.5	4,376.1	4,368.8	7.36	594.198		
5,700.0	5,674.9	1,220.0	1,219.0	21.2	4.1	59.44	9.5	-43.5	4,476.1	4,468.6	7.50	596.634		
5,800.0	5,774.3	1,220.0	1,219.0	21.6	4.1	59.44	9.5	-43.5	4,576.1	4,568.4	7.64	598.701		
5,900.0	5,873.8	1,220.0	1,219.0	22.0	4.1	59.44	9.5	-43.5	4,676.0	4,668.3	7.79	600.422		
6,000.0	5,973.2	1,220.0	1,219.0	22.4	4.1	59.44	9.5	-43.5	4,776.0	4,768.1	7.94	601.820		
6,100.0	6,072.7	1,220.0	1,219.0	22.8	4.1	59.44	9.5	-43.5	4,876.0	4,867.9	8.09	602.915		
6,200.0	6,172.2	1,220.0	1,219.0	23.2	4.1	59.44	9.5	-43.5	4,976.0	4,967.7	8.24	603.726		
6,300.0	6,271.6	1,220.0	1,219.0	23.6	4.1	59.44	9.5	-43.5	5,076.0	5,067.6	8.40	604.273		
6,400.0	6,371.1	1,220.0	1,219.0	24.0	4.1	59.44	9.5	-43.5	5,175.9	5,167.4	8.56	604.572		
6,500.0	6,470.5	1,220.0	1,219.0	24.4	4.1	59.44	9.5	-43.5	5,275.9	5,267.2	8.73	604.641		
6,600.0	6,570.0	1,220.0	1,219.0	24.8	4.1	59.44	9.5	-43.5	5,375.9	5,367.0	8.89	604.493		
6,700.0	6,669.4	1,220.0	1,219.0	25.2	4.1	59.44	9.5	-43.5	5,475.9	5,466.8	9.06	604.145		
6,800.0	6,768.9	1,220.0	1,219.0	25.6	4.1	59.44	9.5	-43.5	5,575.9	5,566.6	9.24	603.609		
6,900.0	6,868.4	1,220.0	1,219.0	26.0	4.1	59.44	9.5	-43.5	5,675.9	5,666.4	9.41	602.897		
7,000.0	6,967.8	1,220.0	1,219.0	26.3	4.1	59.44	9.5	-43.5	5,775.8	5,766.3	9.59	602.022		
7,100.0	7,067.3	1,220.0	1,219.0	26.7	4.1	59.44	9.5	-43.5	5,875.8	5,866.1	9.78	600.996		
7,200.0	7,166.7	1,220.0	1,219.0	27.1	4.1	59.44	9.5	-43.5	5,975.8	5,965.9	9.96	599.827		
7,300.0	7,266.2	1,220.0	1,219.0	27.5	4.1	59.44	9.5	-43.5	6,075.8	6,065.7	10.15	598.527		
7,400.0	7,365.6	1,220.0	1,219.0	27.9	4.1	59.44	9.5	-43.5	6,175.8	6,165.5	10.34	597.105		
7,500.0	7,465.1	1,220.0	1,219.0	28.3	4.1	59.44	9.5	-43.5	6,275.8	6,265.2	10.54	595.568		
7,600.0	7,564.6	1,220.0	1,219.0	28.7	4.1	59.44	9.5	-43.5	6,375.8	6,365.0	10.73	593.925		
7,700.0	7,664.0	1,220.0	1,219.0	29.1	4.1	59.44	9.5	-43.5	6,475.8	6,464.8	10.94	592.185		
7,800.0	7,763.5	1,220.0	1,219.0	29.5	4.1	59.44	9.5	-43.5	6,575.7	6,564.6	11.14	590.353		
7,900.0	7,862.9	1,220.0	1,219.0	29.9	4.1	59.44	9.5	-43.5	6,675.7	6,664.4	11.34	588.437		
8,000.0	7,962.4	1,220.0	1,219.0	30.3	4.1	59.44	9.5	-43.5	6,775.7	6,764.2	11.55	586.443		
8,100.0	8,061.8	1,220.0	1,219.0	30.7	4.1	59.44	9.5	-43.5	6,875.7	6,863.9	11.77	584.376		
8,200.0	8,161.3	1,220.0	1,219.0	31.1	4.1	59.44	9.5	-43.5	6,975.7	6,963.7	11.98	582.243		
8,300.0	8,260.8	1,220.0	1,219.0	31.5	4.1	59.44	9.5	-43.5	7,075.7	7,063.5	12.20	580.049		
8,400.0	8,360.2	1,220.0	1,219.0	31.9	4.1	59.44	9.5	-43.5	7,175.7	7,163.3	12.42	577.798		
8,468.4	8,428.3	1,220.0	1,219.0	32.2	4.1	59.44	9.5	-43.5	7,244.1	7,231.5	12.57	576.228		
8,500.0	8,459.7	1,220.0	1,219.0	32.3	4.1	109.63	9.5	-43.5	7,275.7	7,263.0	12.64	575.496		
8,600.0	8,559.4	1,220.0	1,219.0	32.7	4.1	163.53	9.5	-43.5	7,375.6	7,362.8	12.87	573.160		
8,700.0	8,659.3	1,220.0	1,219.0	33.0	4.1	171.18	9.5	-43.5	7,475.5	7,462.4	13.10	570.809		
8,767.2	8,726.5	1,220.0	1,219.0	33.2	4.1	30.39	9.5	-43.5	7,542.4	7,529.2	13.25	569.232		
8,800.0	8,759.3	1,220.0	1,219.0	33.3	4.1	-39.74	9.5	-43.5	7,575.0	7,561.7	13.32	568.505		
8,850.0	8,809.0	1,220.0	1,219.0	33.5	4.1	-24.21	9.5	-43.5	7,624.3	7,610.9	13.44	567.477		
8,900.0	8,858.1	1,220.0	1,219.0	33.6	4.1	-17.18	9.5	-43.5	7,672.8	7,659.2	13.54	566.617		
8,950.0	8,906.2	1,220.0	1,219.0	33.7	4.1	-13.31	9.5	-43.5	7,720.1	7,706.5	13.64	565.903		
9,000.0	8,952.9	1,220.0	1,219.0	33.8	4.1	-10.89	9.5	-43.5	7,766.0	7,752.2	13.74	565.313		
9,050.0	8,998.0	1,220.0	1,219.0	33.9	4.1	-9.26	9.5	-43.5	7,810.0	7,796.2	13.83	564.817		
9,100.0	9,040.9	1,220.0	1,219.0	34.0	4.1	-8.10	9.5	-43.5	7,851.9	7,838.0	13.91	564.366		
9,150.0	9,081.4	1,220.0	1,219.0	34.1	4.1	-7.24	9.5	-43.5	7,891.5	7,877.5	13.99	563.903		
9,200.0	9,119.3	1,220.0	1,219.0	34.1	4.1	-6.58	9.5	-43.5	7,928.3	7,914.3	14.07	563.351		
9,250.0	9,154.2	1,220.0	1,219.0	34.2	4.1	-6.07	9.5	-43.5	7,962.3	7,948.2	14.15	562.626		
9,300.0	9,185.8	1,220.0	1,219.0	34.2	4.1	-5.67	9.5	-43.5	7,993.2	7,979.0	14.23	561.630		
9,350.0	9,213.9	1,220.0	1,219.0	34.2	4.1	-5.35	9.5	-43.5	8,020.8	8,006.5	14.32	560.266		
9,400.0	9,238.3	1,220.0	1,219.0	34.2	4.1	-5.10	9.5	-43.5	8,044.8	8,030.4	14.41	558.436		
9,450.0	9,258.8	1,220.0	1,219.0	34.2	4.1	-4.90	9.5	-43.5	8,065.3	8,050.8	14.50	556.054		

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 #202H
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 #202H	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		
9,500.0	9,275.2	1,220.0	1,219.0	34.2	4.1	-4.76	9.5	-43.5	8,081.9	8,067.3	14.61	553.050		
9,550.0	9,287.5	1,220.0	1,219.0	34.2	4.1	-4.65	9.5	-43.5	8,094.7	8,080.0	14.73	549.380		
9,600.0	9,295.5	1,220.0	1,219.0	34.3	4.1	-4.57	9.5	-43.5	8,103.6	8,088.7	14.87	545.027		
9,631.7	9,298.4	1,220.0	1,219.0	34.4	4.1	-4.55	9.5	-43.5	8,107.1	8,092.1	14.96	541.946		
9,700.0	9,302.6	1,220.0	1,219.0	34.9	4.1	-4.55	9.5	-43.5	8,113.2	8,098.0	15.18	534.458		
9,800.0	9,308.6	1,220.0	1,219.0	35.7	4.1	-4.55	9.5	-43.5	8,123.2	8,107.6	15.55	522.267		
9,900.0	9,314.6	1,220.0	1,219.0	36.7	4.1	-4.55	9.5	-43.5	8,134.2	8,118.2	15.98	509.054		
10,000.0	9,320.5	1,220.0	1,219.0	37.8	4.1	-4.56	9.5	-43.5	8,146.3	8,129.9	16.45	495.194		
10,100.0	9,326.3	1,220.0	1,219.0	39.0	4.1	-4.56	9.5	-43.5	8,159.6	8,142.6	16.96	481.010		
10,200.0	9,332.1	1,220.0	1,219.0	40.3	4.1	-4.57	9.5	-43.5	8,173.9	8,156.4	17.51	466.768		
10,300.0	9,337.7	1,220.0	1,219.0	41.7	4.1	-4.58	9.5	-43.5	8,189.4	8,171.3	18.09	452.676		
10,400.0	9,343.2	1,220.0	1,219.0	43.2	4.1	-4.59	9.5	-43.5	8,205.9	8,187.2	18.70	438.891		
10,500.0	9,348.7	1,220.0	1,219.0	44.8	4.1	-4.60	9.5	-43.5	8,223.5	8,204.2	19.33	425.526		
10,600.0	9,354.0	1,220.0	1,219.0	46.5	4.1	-4.61	9.5	-43.5	8,242.2	8,222.3	19.97	412.659		
10,700.0	9,359.3	1,220.0	1,219.0	48.2	4.1	-4.62	9.5	-43.5	8,262.0	8,241.3	20.64	400.337		
10,800.0	9,364.4	1,220.0	1,219.0	50.0	4.1	-4.63	9.5	-43.5	8,282.8	8,261.5	21.32	388.587		
10,900.0	9,369.5	1,220.0	1,219.0	51.9	4.1	-4.65	9.5	-43.5	8,304.7	8,282.7	22.00	377.419		
11,000.0	9,374.5	1,220.0	1,219.0	53.8	4.1	-4.66	9.5	-43.5	8,327.6	8,304.9	22.70	366.829		
11,100.0	9,379.4	1,220.0	1,219.0	55.7	4.1	-4.68	9.5	-43.5	8,351.5	8,328.1	23.41	356.807		
11,200.0	9,384.2	1,220.0	1,219.0	57.7	4.1	-4.70	9.5	-43.5	8,376.5	8,352.4	24.12	347.334		
11,300.0	9,388.9	1,220.0	1,219.0	59.7	4.1	-4.71	9.5	-43.5	8,402.5	8,377.6	24.83	338.389		
11,400.0	9,393.5	1,220.0	1,219.0	61.7	4.1	-4.73	9.5	-43.5	8,429.5	8,403.9	25.55	329.949		
11,500.0	9,398.0	1,220.0	1,219.0	63.8	4.1	-4.75	9.5	-43.5	8,457.4	8,431.2	26.27	321.989		
11,600.0	9,402.5	1,220.0	1,219.0	65.9	4.1	-4.77	9.5	-43.5	8,486.4	8,459.4	26.99	314.482		
11,700.0	9,406.8	1,220.0	1,219.0	68.0	4.1	-4.79	9.5	-43.5	8,516.4	8,488.7	27.70	307.405		
11,800.0	9,411.0	1,220.0	1,219.0	70.1	4.1	-4.82	9.5	-43.5	8,547.3	8,518.9	28.42	300.732		
11,900.0	9,415.2	1,220.0	1,219.0	72.3	4.1	-4.84	9.5	-43.5	8,579.1	8,550.0	29.14	294.440		
12,000.0	9,419.3	1,220.0	1,219.0	74.5	4.1	-4.86	9.5	-43.5	8,612.0	8,582.1	29.85	288.506		
12,100.0	9,423.2	1,220.0	1,219.0	76.6	4.1	-4.89	9.5	-43.5	8,645.7	8,615.1	30.56	282.909		
12,200.0	9,427.1	1,220.0	1,219.0	78.9	4.1	-4.92	9.5	-43.5	8,680.4	8,649.1	31.27	277.628		
12,300.0	9,430.9	1,220.0	1,219.0	81.1	4.1	-4.94	9.5	-43.5	8,716.0	8,684.0	31.97	272.645		
12,400.0	9,434.6	1,220.0	1,219.0	83.3	4.1	-4.97	9.5	-43.5	8,752.5	8,719.8	32.67	267.940		
12,500.0	9,438.2	1,220.0	1,219.0	85.5	4.1	-5.00	9.5	-43.5	8,789.8	8,756.5	33.36	263.498		
12,600.0	9,441.7	1,220.0	1,219.0	87.8	4.1	-5.03	9.5	-43.5	8,828.1	8,794.0	34.05	259.303		
12,700.0	9,445.1	1,220.0	1,219.0	90.0	4.1	-5.06	9.5	-43.5	8,867.2	8,832.5	34.73	255.340		
12,800.0	9,448.5	1,220.0	1,219.0	92.3	4.1	-5.10	9.5	-43.5	8,907.2	8,871.8	35.40	251.595		
12,892.1	9,451.4	1,220.0	1,219.0	94.4	4.1	-5.13	9.5	-43.5	8,944.7	8,908.7	36.02	248.328		
12,900.0	9,451.7	1,220.0	1,219.0	94.6	4.1	-5.13	9.5	-43.5	8,948.0	8,911.9	36.07	248.056		
13,000.0	9,454.9	1,220.0	1,219.0	96.9	4.1	-5.13	9.5	-43.5	8,989.7	8,953.0	36.74	244.713		
13,100.0	9,458.1	1,220.0	1,219.0	99.2	4.1	-5.13	9.5	-43.5	9,032.3	8,994.9	37.39	241.557		
13,200.0	9,461.3	1,220.0	1,219.0	101.5	4.1	-5.13	9.5	-43.5	9,075.8	9,037.8	38.04	238.578		
13,300.0	9,464.5	1,220.0	1,219.0	103.8	4.1	-5.13	9.5	-43.5	9,120.2	9,081.6	38.68	235.767		
13,400.0	9,467.7	1,220.0	1,219.0	106.1	4.1	-5.13	9.5	-43.5	9,165.5	9,126.2	39.32	233.112		
13,500.0	9,470.9	1,220.0	1,219.0	108.4	4.1	-5.13	9.5	-43.5	9,211.7	9,171.7	39.95	230.607		
13,600.0	9,474.1	1,220.0	1,219.0	110.7	4.1	-5.13	9.5	-43.5	9,258.7	9,218.1	40.57	228.243		
13,700.0	9,477.3	1,220.0	1,219.0	113.1	4.1	-5.13	9.5	-43.5	9,306.5	9,265.3	41.18	226.012		
13,800.0	9,480.5	1,220.0	1,219.0	115.4	4.1	-5.13	9.5	-43.5	9,355.2	9,313.4	41.78	223.907		
13,900.0	9,483.6	1,220.0	1,219.0	117.7	4.1	-5.13	9.5	-43.5	9,404.6	9,362.3	42.38	221.922		
14,000.0	9,486.8	1,220.0	1,219.0	120.1	4.1	-5.13	9.5	-43.5	9,454.9	9,411.9	42.97	220.051		
14,100.0	9,490.0	1,220.0	1,219.0	122.4	4.1	-5.13	9.5	-43.5	9,506.0	9,462.4	43.55	218.287		
14,200.0	9,493.2	1,220.0	1,219.0	124.8	4.1	-5.13	9.5	-43.5	9,557.8	9,513.7	44.12	216.626		
14,300.0	9,496.4	1,220.0	1,219.0	127.1	4.1	-5.13	9.5	-43.5	9,610.4	9,565.7	44.69	215.061		

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 #202H
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 #202H	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
14,400.0	9,499.6	1,220.0	1,219.0	129.5	4.1	-5.13	9.5	-43.5	9,663.7	9,618.5	45.24	213.589	
14,500.0	9,502.8	1,220.0	1,219.0	131.8	4.1	-5.13	9.5	-43.5	9,717.8	9,672.0	45.79	212.206	
14,600.0	9,506.0	1,220.0	1,219.0	134.2	4.1	-5.13	9.5	-43.5	9,772.6	9,726.3	46.34	210.905	
14,700.0	9,509.2	1,220.0	1,219.0	136.6	4.1	-5.13	9.5	-43.5	9,828.1	9,781.2	46.87	209.685	
14,800.0	9,512.4	1,220.0	1,219.0	138.9	4.1	-5.13	9.5	-43.5	9,884.3	9,836.9	47.40	208.540	
14,900.0	9,515.6	1,220.0	1,219.0	141.3	4.1	-5.13	9.5	-43.5	9,941.2	9,893.3	47.92	207.468	
15,000.0	9,518.8	1,220.0	1,219.0	143.7	4.1	-5.13	9.5	-43.5	9,998.8	9,950.4	48.43	206.465	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	-135.04	-30.0	-30.0	42.4				
100.0	100.0	100.0	100.0	0.1	0.1	135.78	-30.0	-30.0	43.0	42.8	0.27	161.512	
200.0	200.0	200.0	200.0	0.5	0.5	138.10	-30.0	-30.0	44.9	44.0	0.98	45.889	
300.0	299.9	300.1	299.9	0.9	0.8	141.53	-30.0	-30.0	48.3	46.6	1.70	28.379	
400.0	399.7	400.3	399.7	1.2	1.2	145.09	-30.0	-30.0	52.5	50.1	2.42	21.664	
500.0	499.6	500.4	499.6	1.6	1.6	148.11	-30.0	-30.0	56.9	53.7	3.14	18.093	
600.0	599.5	600.5	599.5	2.0	1.9	150.69	-30.0	-30.0	61.4	57.5	3.86	15.888	
700.0	699.3	700.7	699.3	2.3	2.3	152.91	-30.0	-30.0	66.0	61.4	4.58	14.401	
800.0	799.2	800.8	799.2	2.7	2.6	154.85	-30.0	-30.0	70.7	65.4	5.30	13.333	
900.0	899.0	901.0	899.0	3.1	3.0	156.53	-30.0	-30.0	75.4	69.4	6.02	12.533	
1,000.0	998.9	1,001.1	998.9	3.4	3.4	158.02	-30.0	-30.0	80.3	73.5	6.74	11.912	
1,100.0	1,098.8	1,101.2	1,098.8	3.8	3.7	119.30	-30.0	-30.0	83.5	76.0	7.45	11.198	
1,200.0	1,198.8	1,201.2	1,198.8	4.1	4.1	66.02	-30.0	-30.0	83.4	75.2	8.16	10.221	
1,300.0	1,298.6	1,301.4	1,298.6	4.5	4.4	47.09	-30.0	-30.0	80.2	71.3	8.86	9.054	
1,407.1	1,405.3	1,405.3	1,405.3	4.8	4.8	42.83	-30.0	-30.0	73.5	63.9	9.59	7.666	
1,500.0	1,497.7	1,502.3	1,497.7	5.1	5.2	48.47	-30.0	-30.0	66.7	56.5	10.25	6.509	
1,600.0	1,597.2	1,602.8	1,597.2	5.5	5.5	55.87	-30.0	-30.0	60.3	49.3	10.95	5.505	
1,700.0	1,696.6	1,696.6	1,696.6	5.8	5.9	64.82	-30.0	-30.0	55.1	43.5	11.64	4.736	
1,800.0	1,796.1	1,795.2	1,795.2	6.1	6.2	75.34	-29.6	-30.6	52.3	40.0	12.34	4.241	
1,826.5	1,822.5	1,821.4	1,821.4	6.2	6.3	78.32	-29.3	-31.1	52.2	39.7	12.52	4.168 ES	
1,900.0	1,895.5	1,893.8	1,893.7	6.5	6.5	86.50	-28.3	-32.8	53.2	40.2	13.03	4.084 SF	
2,000.0	1,995.0	1,992.2	1,992.1	6.9	6.9	96.54	-26.2	-36.4	57.7	44.0	13.72	4.207	
2,100.0	2,094.4	2,090.6	2,090.3	7.2	7.2	104.39	-23.1	-41.4	65.4	51.0	14.41	4.537	
2,200.0	2,193.9	2,188.7	2,188.1	7.6	7.6	109.93	-19.3	-47.8	75.5	60.4	15.10	5.001	
2,300.0	2,293.4	2,286.6	2,285.6	8.0	7.9	113.58	-14.5	-55.7	87.7	71.9	15.79	5.553	
2,400.0	2,392.8	2,384.3	2,382.7	8.4	8.3	115.82	-8.9	-64.9	101.5	85.0	16.48	6.160	
2,500.0	2,492.3	2,483.2	2,480.9	8.7	8.7	117.35	-2.9	-74.9	116.1	98.9	17.20	6.749	
2,600.0	2,591.7	2,582.1	2,579.1	9.1	9.0	118.53	3.1	-84.9	130.7	112.8	17.93	7.293	
2,700.0	2,691.2	2,681.0	2,677.3	9.5	9.4	119.48	9.1	-94.9	145.4	126.8	18.66	7.795	
2,800.0	2,790.6	2,779.9	2,775.5	9.9	9.8	120.25	15.1	-104.9	160.1	140.7	19.39	8.260	
2,900.0	2,890.1	2,878.8	2,873.7	10.3	10.1	120.89	21.2	-114.9	174.9	154.8	20.12	8.692	
3,000.0	2,989.5	2,977.7	2,971.9	10.7	10.5	121.43	27.2	-124.9	189.6	168.8	20.85	9.093	
3,100.0	3,089.0	3,076.5	3,070.1	11.0	10.9	121.90	33.2	-134.9	204.4	182.8	21.59	9.466	
3,200.0	3,188.5	3,175.4	3,168.3	11.4	11.3	122.30	39.2	-144.9	219.2	196.8	22.33	9.815	
3,300.0	3,287.9	3,274.3	3,266.5	11.8	11.7	122.65	45.3	-154.9	234.0	210.9	23.07	10.141	
3,400.0	3,387.4	3,373.2	3,364.7	12.2	12.0	122.96	51.3	-164.8	248.8	225.0	23.81	10.446	
3,500.0	3,486.8	3,472.1	3,462.9	12.6	12.4	123.23	57.3	-174.8	263.6	239.0	24.56	10.733	
3,600.0	3,586.3	3,571.0	3,561.1	13.0	12.8	123.48	63.3	-184.8	278.4	253.1	25.30	11.002	
3,700.0	3,685.7	3,669.9	3,659.3	13.4	13.2	123.70	69.3	-194.8	293.2	267.1	26.05	11.256	
3,800.0	3,785.2	3,768.8	3,757.5	13.8	13.6	123.90	75.4	-204.8	308.0	281.2	26.79	11.495	
3,900.0	3,884.7	3,867.7	3,855.7	14.1	14.0	124.08	81.4	-214.8	322.8	295.3	27.54	11.721	
4,000.0	3,984.1	3,966.6	3,953.9	14.5	14.4	124.24	87.4	-224.8	337.7	309.4	28.29	11.935	
4,100.0	4,083.6	4,065.5	4,052.1	14.9	14.7	124.39	93.4	-234.8	352.5	323.4	29.04	12.138	
4,200.0	4,183.0	4,164.3	4,150.3	15.3	15.1	124.53	99.4	-244.8	367.3	337.5	29.79	12.330	
4,300.0	4,282.5	4,263.2	4,248.5	15.7	15.5	124.66	105.5	-254.8	382.1	351.6	30.54	12.512	
4,400.0	4,381.9	4,362.1	4,346.7	16.1	15.9	124.78	111.5	-264.8	397.0	365.7	31.29	12.686	
4,500.0	4,481.4	4,461.0	4,444.9	16.5	16.3	124.89	117.5	-274.8	411.8	379.8	32.05	12.851	
4,600.0	4,580.9	4,559.9	4,543.1	16.9	16.7	124.99	123.5	-284.8	426.6	393.8	32.80	13.008	
4,700.0	4,680.3	4,658.8	4,641.3	17.3	17.1	125.09	129.6	-294.7	441.5	407.9	33.55	13.158	
4,800.0	4,779.8	4,757.7	4,739.5	17.7	17.5	125.18	135.6	-304.7	456.3	422.0	34.31	13.301	
4,900.0	4,879.2	4,856.6	4,837.7	18.1	17.9	125.26	141.6	-314.7	471.2	436.1	35.06	13.439	
5,000.0	4,978.7	4,955.5	4,935.9	18.5	18.3	125.34	147.6	-324.7	486.0	450.2	35.82	13.570	

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 #202H
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 #202H	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	5,078.1	5,054.4	5,034.1	18.8	18.6	125.41	153.6	-334.7	500.8	464.3	36.57	13.695	
5,200.0	5,177.6	5,153.2	5,132.3	19.2	19.0	125.48	159.7	-344.7	515.7	478.4	37.33	13.816	
5,300.0	5,277.1	5,252.1	5,230.5	19.6	19.4	125.55	165.7	-354.7	530.5	492.4	38.08	13.931	
5,400.0	5,376.5	5,351.0	5,328.7	20.0	19.8	125.61	171.7	-364.7	545.4	506.5	38.84	14.042	
5,500.0	5,476.0	5,449.9	5,426.9	20.4	20.2	125.67	177.7	-374.7	560.2	520.6	39.59	14.149	
5,600.0	5,575.4	5,548.8	5,525.1	20.8	20.6	125.72	183.7	-384.7	575.1	534.7	40.35	14.251	
5,700.0	5,674.9	5,657.3	5,632.9	21.2	21.0	125.84	189.9	-394.8	589.3	548.1	41.19	14.306	
5,800.0	5,774.3	5,769.4	5,744.7	21.6	21.5	126.16	194.6	-402.7	601.5	559.4	42.04	14.307	
5,900.0	5,873.8	5,882.0	5,857.0	22.0	21.9	126.68	197.6	-407.7	611.5	568.6	42.86	14.268	
6,000.0	5,973.2	5,994.6	5,969.7	22.4	22.3	127.39	198.9	-409.9	619.4	575.8	43.65	14.191	
6,100.0	6,072.7	6,102.4	6,072.7	22.8	22.6	128.17	199.0	-410.0	625.9	581.5	44.40	14.098	
6,200.0	6,172.2	6,202.9	6,172.2	23.2	23.0	128.91	199.0	-410.0	632.4	587.3	45.12	14.016	
6,300.0	6,271.6	6,303.4	6,271.6	23.6	23.3	129.63	199.0	-410.0	639.0	593.2	45.84	13.940	
6,400.0	6,371.1	6,396.0	6,371.1	24.0	23.6	130.34	199.0	-410.0	645.7	599.2	46.54	13.876	
6,500.0	6,470.5	6,504.5	6,470.5	24.4	24.0	131.03	199.0	-410.0	652.5	605.3	47.28	13.801	
6,600.0	6,570.0	6,594.9	6,570.0	24.8	24.3	131.71	199.0	-410.0	659.4	611.5	47.97	13.747	
6,700.0	6,669.4	6,694.4	6,669.4	25.2	24.6	132.38	199.0	-410.0	666.4	617.8	48.69	13.689	
6,800.0	6,768.9	6,806.2	6,768.9	25.6	25.0	133.03	199.0	-410.0	673.5	624.1	49.44	13.622	
6,900.0	6,868.4	6,906.7	6,868.4	26.0	25.4	133.67	199.0	-410.0	680.7	630.5	50.16	13.570	
7,000.0	6,967.8	6,992.8	6,967.8	26.3	25.7	134.30	199.0	-410.0	687.9	637.1	50.83	13.534	
7,100.0	7,067.3	7,092.2	7,067.3	26.7	26.0	134.91	199.0	-410.0	695.3	643.7	51.55	13.488	
7,200.0	7,166.7	7,191.7	7,166.7	27.1	26.3	135.51	199.0	-410.0	702.7	650.4	52.26	13.446	
7,300.0	7,266.2	7,291.1	7,266.2	27.5	26.7	136.10	199.0	-410.0	710.2	657.2	52.97	13.406	
7,400.0	7,365.6	7,390.6	7,365.6	27.9	27.0	136.67	199.0	-410.0	717.7	664.0	53.69	13.368	
7,500.0	7,465.1	7,487.4	7,462.1	28.3	27.3	137.80	199.8	-402.6	725.5	671.2	54.34	13.351	
7,600.0	7,564.6	7,577.1	7,549.2	28.7	27.5	139.94	202.2	-381.5	734.5	679.6	54.90	13.379	
7,700.0	7,664.0	7,656.7	7,622.8	29.1	27.7	142.64	205.5	-351.7	746.3	691.0	55.31	13.492	
7,800.0	7,763.5	7,725.2	7,682.3	29.5	27.9	145.50	209.3	-318.1	762.6	707.1	55.51	13.740	
7,900.0	7,862.9	7,783.2	7,729.3	29.9	28.0	148.24	213.1	-284.3	785.0	729.6	55.40	14.170	
8,000.0	7,962.4	7,832.1	7,766.0	30.3	28.1	150.74	216.7	-252.3	814.3	759.3	54.94	14.821	
8,100.0	8,061.8	7,873.2	7,794.7	30.7	28.1	152.94	220.0	-223.0	850.8	796.6	54.13	15.716	
8,200.0	8,161.3	7,900.0	7,812.2	31.1	28.2	154.41	222.2	-202.9	894.4	841.6	52.89	16.912	
8,300.0	8,260.8	7,937.6	7,835.1	31.5	28.3	156.51	225.5	-173.3	944.7	893.0	51.71	18.269	
8,400.0	8,360.2	7,962.9	7,849.5	31.9	28.4	157.95	227.9	-152.6	1,001.0	950.7	50.25	19.919	
8,468.4	8,428.3	7,978.2	7,857.7	32.2	28.4	158.81	229.3	-139.7	1,042.7	993.5	49.22	21.184	
8,500.0	8,459.7	7,984.8	7,861.1	32.3	28.4	159.37	229.9	-134.1	1,062.6	1,013.8	48.74	21.802	
8,600.0	8,559.4	8,000.0	7,868.8	32.7	28.5	160.78	231.4	-121.1	1,127.0	1,079.9	47.10	23.928	
8,700.0	8,659.3	8,022.8	7,879.6	33.0	28.5	162.55	233.6	-101.2	1,193.2	1,147.6	45.63	26.151	
8,767.2	8,726.5	8,034.2	7,884.8	33.2	28.6	20.57	234.8	-91.0	1,238.5	1,194.0	44.58	27.785	
8,800.0	8,759.3	8,050.0	7,891.5	33.3	28.7	-68.23	236.4	-76.8	1,260.9	1,216.7	44.26	28.491	
8,850.0	8,809.0	8,050.0	7,891.5	33.5	28.7	-64.08	236.4	-76.8	1,294.5	1,251.2	43.33	29.876	
8,900.0	8,858.1	8,050.0	7,891.5	33.6	28.7	-60.15	236.4	-76.8	1,327.7	1,285.3	42.42	31.301	
8,950.0	8,906.2	8,070.4	7,899.6	33.7	28.7	-55.88	238.5	-58.3	1,360.0	1,318.1	41.90	32.460	
9,000.0	8,952.9	8,081.8	7,903.9	33.8	28.8	-52.33	239.6	-47.7	1,391.2	1,350.0	41.24	33.735	
9,050.0	8,998.0	8,100.0	7,910.2	33.9	28.9	-49.04	241.5	-30.8	1,421.3	1,380.5	40.73	34.898	
9,100.0	9,040.9	8,100.0	7,910.2	34.0	28.9	-46.47	241.5	-30.8	1,449.8	1,409.8	39.95	36.291	
9,150.0	9,081.4	8,119.3	7,916.3	34.1	29.0	-43.93	243.6	-12.6	1,476.6	1,437.0	39.54	37.348	
9,200.0	9,119.3	8,132.5	7,920.2	34.1	29.0	-41.81	245.0	0.0	1,501.6	1,462.6	39.07	38.435	
9,250.0	9,154.2	8,150.0	7,924.8	34.2	29.1	-39.96	246.9	16.7	1,524.7	1,486.0	38.72	39.383	
9,300.0	9,185.8	8,150.0	7,924.8	34.2	29.1	-38.49	246.9	16.7	1,545.8	1,507.6	38.20	40.463	
9,350.0	9,213.9	8,174.0	7,930.4	34.2	29.3	-37.14	249.5	40.0	1,564.6	1,526.5	38.09	41.080	
9,400.0	9,238.3	8,200.0	7,935.2	34.2	29.4	-36.04	252.3	65.3	1,581.3	1,543.2	38.05	41.557	

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 #202H
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 #202H	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	
9,450.0	9,258.8	8,200.0	7,935.2	34.2	29.4	-35.19	252.3	65.3	1,595.3	1,557.5	37.82	42.181	
9,500.0	9,275.2	8,217.2	7,937.8	34.2	29.6	-34.51	254.2	82.2	1,607.1	1,569.2	37.88	42.429	
9,550.0	9,287.5	8,231.8	7,939.6	34.2	29.7	-34.00	255.8	96.6	1,616.4	1,578.4	38.01	42.531	
9,600.0	9,295.5	8,250.0	7,941.3	34.3	29.8	-33.68	257.8	114.6	1,623.2	1,585.0	38.26	42.425	
9,631.7	9,298.4	8,250.0	7,941.3	34.4	29.8	-33.51	257.8	114.6	1,626.3	1,587.9	38.40	42.354	
9,700.0	9,302.6	8,276.1	7,942.8	34.9	30.0	-33.63	260.8	140.5	1,632.6	1,593.6	38.96	41.908	
9,800.0	9,308.6	8,419.4	7,947.5	35.7	31.2	-34.08	273.1	283.2	1,641.9	1,601.4	40.50	40.546	
9,900.0	9,314.6	8,566.3	7,952.4	36.7	32.9	-34.31	278.4	429.9	1,648.3	1,606.1	42.27	38.993	
10,000.0	9,320.5	8,669.8	7,955.8	37.8	34.2	-34.39	279.1	533.3	1,652.9	1,609.1	43.86	37.688	
10,100.0	9,326.3	8,769.7	7,959.1	39.0	35.6	-34.46	279.8	633.1	1,657.4	1,611.8	45.57	36.371	
10,200.0	9,332.1	8,869.6	7,962.5	40.3	37.1	-34.52	280.4	733.0	1,661.7	1,614.2	47.42	35.042	
10,300.0	9,337.7	8,969.5	7,965.8	41.7	38.7	-34.58	281.0	832.8	1,665.8	1,616.4	49.40	33.722	
10,400.0	9,343.2	9,069.4	7,969.1	43.2	40.4	-34.64	281.7	932.7	1,669.7	1,618.2	51.48	32.432	
10,500.0	9,348.7	9,169.3	7,972.4	44.8	42.1	-34.70	282.3	1,032.5	1,673.5	1,619.9	53.68	31.177	
10,600.0	9,354.0	9,269.2	7,975.7	46.5	43.9	-34.75	283.0	1,132.4	1,677.2	1,621.2	55.96	29.971	
10,700.0	9,359.3	9,369.1	7,979.0	48.2	45.8	-34.81	283.6	1,232.3	1,680.7	1,622.3	58.32	28.818	
10,800.0	9,364.4	9,469.1	7,982.3	50.0	47.8	-34.85	284.2	1,332.1	1,684.0	1,623.2	60.75	27.719	
10,900.0	9,369.5	9,569.0	7,985.6	51.9	49.7	-34.90	284.9	1,432.0	1,687.1	1,623.9	63.25	26.676	
11,000.0	9,374.5	9,668.9	7,988.9	53.8	51.8	-34.94	285.5	1,531.9	1,690.2	1,624.4	65.80	25.688	
11,100.0	9,379.4	9,768.9	7,992.2	55.7	53.8	-34.99	286.2	1,631.8	1,693.0	1,624.6	68.40	24.753	
11,200.0	9,384.2	9,868.8	7,995.5	57.7	55.9	-35.02	286.8	1,731.7	1,695.7	1,624.6	71.04	23.869	
11,300.0	9,388.9	9,968.8	7,998.8	59.7	58.0	-35.06	287.4	1,831.6	1,698.2	1,624.5	73.72	23.035	
11,400.0	9,393.5	10,068.8	8,002.1	61.7	60.2	-35.09	288.1	1,931.5	1,700.6	1,624.1	76.44	22.247	
11,500.0	9,398.0	10,168.7	8,005.4	63.8	62.3	-35.13	288.7	2,031.4	1,702.8	1,623.6	79.19	21.502	
11,600.0	9,402.5	10,268.7	8,008.7	65.9	64.5	-35.15	289.4	2,131.3	1,704.8	1,622.8	81.97	20.798	
11,700.0	9,406.8	10,368.7	8,012.1	68.0	66.7	-35.18	290.0	2,231.3	1,706.7	1,621.9	84.77	20.133	
11,800.0	9,411.0	10,468.7	8,015.4	70.1	69.0	-35.21	290.6	2,331.2	1,708.4	1,620.8	87.60	19.503	
11,900.0	9,415.2	10,568.7	8,018.7	72.3	71.2	-35.23	291.3	2,431.1	1,710.0	1,619.5	90.44	18.907	
12,000.0	9,419.3	10,668.7	8,022.0	74.5	73.4	-35.25	291.9	2,531.1	1,711.4	1,618.1	93.31	18.341	
12,100.0	9,423.2	10,768.6	8,025.3	76.6	75.7	-35.26	292.6	2,631.0	1,712.6	1,616.4	96.18	17.805	
12,200.0	9,427.1	10,868.6	8,028.6	78.9	78.0	-35.28	293.2	2,730.9	1,713.7	1,614.6	99.08	17.296	
12,300.0	9,430.9	10,968.6	8,031.9	81.1	80.3	-35.29	293.8	2,830.9	1,714.6	1,612.6	101.98	16.813	
12,400.0	9,434.6	11,068.6	8,035.2	83.3	82.6	-35.30	294.5	2,930.8	1,715.4	1,610.5	104.90	16.353	
12,500.0	9,438.2	11,168.6	8,038.5	85.5	84.9	-35.31	295.1	3,030.7	1,715.9	1,608.1	107.82	15.915	
12,600.0	9,441.7	11,268.6	8,041.8	87.8	87.2	-35.32	295.8	3,130.7	1,716.4	1,605.6	110.75	15.497	
12,700.0	9,445.1	11,368.6	8,045.1	90.0	89.5	-35.32	296.4	3,230.6	1,716.6	1,602.9	113.69	15.099	
12,800.0	9,448.5	11,468.6	8,048.4	92.3	91.8	-35.32	297.0	3,330.6	1,716.7	1,600.1	116.63	14.719	
12,892.1	9,451.4	11,560.7	8,051.5	94.4	94.0	-35.32	297.6	3,422.6	1,716.7	1,597.4	119.35	14.384	
12,900.0	9,451.7	11,568.6	8,051.8	94.6	94.1	-35.32	297.7	3,430.5	1,716.7	1,597.1	119.58	14.356	
13,000.0	9,454.9	11,688.4	8,056.6	96.9	96.9	-35.34	298.4	3,550.2	1,716.0	1,593.1	122.88	13.964	
13,100.0	9,458.1	11,788.4	8,061.3	99.2	99.3	-35.36	299.1	3,650.1	1,714.7	1,588.8	125.91	13.619	
13,200.0	9,461.3	11,888.4	8,066.0	101.5	101.6	-35.39	299.7	3,750.0	1,713.4	1,584.5	128.94	13.288	
13,300.0	9,464.5	11,988.4	8,070.8	103.8	104.0	-35.42	300.4	3,849.8	1,712.1	1,580.1	131.99	12.972	
13,400.0	9,467.7	12,088.4	8,075.5	106.1	106.4	-35.45	301.0	3,949.7	1,710.9	1,575.8	135.05	12.669	
13,500.0	9,470.9	12,188.4	8,080.2	108.4	108.7	-35.48	301.6	4,049.6	1,709.6	1,571.5	138.11	12.378	
13,600.0	9,474.1	12,288.3	8,084.9	110.7	111.1	-35.51	302.3	4,149.5	1,708.3	1,567.1	141.18	12.100	
13,700.0	9,477.3	12,388.3	8,089.6	113.1	113.5	-35.53	302.9	4,249.3	1,707.0	1,562.8	144.27	11.833	
13,800.0	9,480.5	12,488.3	8,094.4	115.4	115.8	-35.56	303.6	4,349.2	1,705.8	1,558.4	147.36	11.576	
13,900.0	9,483.6	12,588.3	8,099.1	117.7	118.2	-35.59	304.2	4,449.1	1,704.5	1,554.0	150.45	11.329	
14,000.0	9,486.8	12,688.3	8,103.8	120.1	120.6	-35.62	304.8	4,549.0	1,703.2	1,549.7	153.56	11.092	
14,100.0	9,490.0	12,788.3	8,108.5	122.4	123.0	-35.65	305.5	4,648.8	1,701.9	1,545.3	156.67	10.863	
14,200.0	9,493.2	12,888.3	8,113.2	124.8	125.4	-35.68	306.1	4,748.7	1,700.7	1,540.9	159.79	10.643	

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 #202H
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 #202H	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		
14,300.0	9,496.4	12,988.3	8,118.0	127.1	127.7	-35.70	306.8	4,848.6	1,699.4	1,536.5	162.92	10.431		
14,400.0	9,499.6	13,088.3	8,122.7	129.5	130.1	-35.73	307.4	4,948.5	1,698.1	1,532.1	166.05	10.227		
14,500.0	9,502.8	13,188.2	8,127.4	131.8	132.5	-35.76	308.0	5,048.3	1,696.9	1,527.7	169.19	10.029		
14,600.0	9,506.0	13,288.2	8,132.1	134.2	134.9	-35.79	308.7	5,148.2	1,695.6	1,523.3	172.33	9.839		
14,700.0	9,509.2	13,388.2	8,136.8	136.6	137.3	-35.82	309.3	5,248.1	1,694.3	1,518.8	175.48	9.655		
14,800.0	9,512.4	13,488.2	8,141.6	138.9	139.7	-35.85	310.0	5,347.9	1,693.1	1,514.4	178.64	9.477		
14,900.0	9,515.6	13,588.2	8,146.3	141.3	142.1	-35.88	310.6	5,447.8	1,691.8	1,510.0	181.81	9.305		
15,000.0	9,518.8	13,688.2	8,151.0	143.7	144.5	-35.91	311.2	5,547.7	1,690.5	1,505.5	184.98	9.139		
15,100.0	9,522.0	13,788.2	8,155.7	146.1	146.9	-35.93	311.9	5,647.6	1,689.2	1,501.1	188.15	8.978		
15,200.0	9,525.2	13,888.2	8,160.4	148.4	149.3	-35.96	312.5	5,747.4	1,688.0	1,496.6	191.33	8.822		
15,300.0	9,528.4	13,988.1	8,165.2	150.8	151.7	-35.99	313.2	5,847.3	1,686.7	1,492.2	194.52	8.671		
15,400.0	9,531.6	14,088.1	8,169.9	153.2	154.1	-36.02	313.8	5,947.2	1,685.4	1,487.7	197.71	8.525		
15,500.0	9,534.8	14,188.1	8,174.6	155.6	156.5	-36.05	314.4	6,047.1	1,684.2	1,483.3	200.91	8.383		
15,600.0	9,538.0	14,288.1	8,179.3	158.0	158.9	-36.08	315.1	6,146.9	1,682.9	1,478.8	204.11	8.245		
15,700.0	9,541.2	14,388.1	8,184.0	160.4	161.4	-36.11	315.7	6,246.8	1,681.6	1,474.3	207.32	8.112		
15,800.0	9,544.4	14,488.1	8,188.8	162.8	163.8	-36.14	316.4	6,346.7	1,680.4	1,469.9	210.53	7.982		
15,900.0	9,547.6	14,588.1	8,193.5	165.1	166.2	-36.17	317.0	6,446.6	1,679.1	1,465.4	213.74	7.856		
16,000.0	9,550.8	14,688.1	8,198.2	167.5	168.6	-36.20	317.6	6,546.4	1,677.9	1,460.9	216.97	7.733		
16,100.0	9,554.0	14,788.1	8,202.9	169.9	171.0	-36.23	318.3	6,646.3	1,676.6	1,456.4	220.19	7.614		
16,200.0	9,557.2	14,888.0	8,207.6	172.3	173.4	-36.25	318.9	6,746.2	1,675.3	1,451.9	223.43	7.498		
16,300.0	9,560.3	14,988.0	8,212.4	174.7	175.9	-36.28	319.6	6,846.1	1,674.1	1,447.4	226.66	7.386		
16,400.0	9,563.5	15,088.0	8,217.1	177.1	178.3	-36.31	320.2	6,945.9	1,672.8	1,442.9	229.90	7.276		
16,500.0	9,566.7	15,188.0	8,221.8	179.5	180.7	-36.34	320.8	7,045.8	1,671.5	1,438.4	233.15	7.169		
16,600.0	9,569.9	15,288.0	8,226.5	181.9	183.1	-36.37	321.5	7,145.7	1,670.3	1,433.9	236.40	7.065		
16,700.0	9,573.1	15,388.0	8,231.3	184.3	185.5	-36.40	322.1	7,245.6	1,669.0	1,429.4	239.66	6.964		
16,711.6	9,573.5	15,400.4	8,231.8	184.6	185.8	-36.41	322.2	7,257.1	1,668.9	1,428.8	240.05	6.952		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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		
0.0	0.0	0.0	0.0	0.0	0.0	-179.95	-30.1	0.0	30.1					
100.0	100.0	100.0	100.0	0.1	0.1	92.15	-30.0	-0.3	30.0	29.7	0.28	108.435		
200.0	200.0	200.2	200.2	0.5	0.4	98.49	-29.7	-0.9	30.0	29.1	0.86	34.685		
273.2	273.1	273.5	273.5	0.8	0.6	105.94	-28.7	-1.7	29.9	28.5	1.39	21.409 CC		
300.0	299.9	300.3	300.3	0.9	0.7	109.13	-28.2	-1.9	29.9	28.3	1.59	18.821		
400.0	399.7	400.2	400.1	1.2	1.1	121.74	-26.1	-3.0	30.6	28.3	2.31	13.260		
500.0	499.6	499.9	499.8	1.6	1.4	134.56	-23.4	-4.7	32.8	29.8	3.03	10.829		
600.0	599.5	599.8	599.6	2.0	1.8	146.15	-20.2	-6.5	36.2	32.5	3.75	9.651		
700.0	699.3	699.3	699.0	2.3	2.2	155.87	-16.7	-8.5	40.9	36.4	4.47	9.152		
800.0	799.2	798.8	798.5	2.7	2.5	163.83	-13.1	-11.1	47.0	41.8	5.18	9.064		
900.0	899.0	898.8	898.3	3.1	2.9	170.32	-9.0	-13.6	53.6	47.7	5.90	9.090		
1,000.0	998.9	999.0	998.5	3.4	3.3	173.04	-7.2	-14.9	59.8	53.2	6.62	9.039		
1,100.0	1,098.8	1,099.4	1,098.9	3.8	3.6	134.55	-6.7	-15.3	63.9	56.6	7.32	8.726		
1,200.0	1,198.8	1,199.5	1,199.0	4.1	3.9	78.99	-9.8	-14.7	64.3	56.3	8.00	8.035		
1,300.0	1,298.6	1,300.0	1,299.4	4.5	4.3	57.59	-14.1	-13.7	61.3	52.6	8.67	7.074		
1,407.1	1,405.3	1,407.0	1,406.2	4.8	4.6	49.90	-20.0	-11.7	54.2	44.8	9.39	5.771		
1,500.0	1,497.7	1,499.4	1,498.3	5.1	4.9	49.81	-27.3	-10.0	46.7	36.6	10.02	4.658		
1,600.0	1,597.2	1,597.6	1,596.0	5.5	5.3	47.03	-37.1	-10.1	40.6	29.9	10.70	3.799		
1,700.0	1,696.6	1,697.5	1,695.3	5.8	5.6	42.17	-48.1	-11.8	36.4	25.0	11.40	3.194		
1,800.0	1,796.1	1,796.7	1,793.7	6.1	6.0	34.38	-60.2	-14.3	33.8	21.7	12.09	2.798		
1,900.0	1,895.5	1,897.0	1,893.0	6.5	6.3	22.38	-74.2	-16.3	32.2	19.4	12.80	2.519		
1,992.4	1,987.5	1,989.2	1,984.3	6.8	6.7	8.34	-86.8	-16.0	30.5	17.1	13.41	2.275		
2,000.0	1,995.0	1,996.5	1,991.6	6.9	6.7	7.10	-87.9	-16.0	30.5	17.1	13.45	2.271 ES, SF		
2,100.0	2,094.4	2,093.5	2,086.7	7.2	7.1	-7.08	-105.8	-19.1	37.0	23.0	13.96	2.649		
2,200.0	2,193.9	2,191.5	2,182.1	7.6	7.5	-14.84	-127.6	-25.5	49.7	35.2	14.58	3.411		
2,300.0	2,293.4	2,290.4	2,278.2	8.0	7.9	-19.52	-150.0	-31.9	63.5	48.2	15.28	4.153		
2,400.0	2,392.8	2,388.5	2,373.2	8.4	8.4	-21.32	-172.7	-40.0	78.5	62.6	15.96	4.921		
2,500.0	2,492.3	2,487.9	2,469.5	8.7	8.8	-21.67	-195.6	-49.7	93.8	77.1	16.69	5.619		
2,600.0	2,591.7	2,587.9	2,566.6	9.1	9.3	-21.84	-217.5	-59.4	107.9	90.5	17.45	6.186		
2,700.0	2,691.2	2,687.0	2,663.0	9.5	9.7	-21.82	-238.6	-69.1	121.6	103.4	18.17	6.688		
2,800.0	2,790.6	2,786.0	2,759.2	9.9	10.2	-21.90	-259.9	-78.6	135.3	116.4	18.90	7.160		
2,900.0	2,890.1	2,886.3	2,856.7	10.3	10.7	-21.99	-281.2	-88.1	148.8	129.1	19.66	7.569		
3,000.0	2,989.5	2,987.4	2,955.3	10.7	11.2	-22.21	-301.6	-97.0	161.1	140.7	20.43	7.885		
3,100.0	3,089.0	3,087.4	3,053.1	11.0	11.6	-22.62	-321.2	-105.0	172.5	151.3	21.18	8.145		
3,200.0	3,188.5	3,187.7	3,151.2	11.4	12.1	-23.17	-340.6	-112.3	183.6	161.7	21.93	8.371		
3,300.0	3,287.9	3,283.9	3,245.2	11.8	12.6	-23.57	-359.6	-119.6	195.1	172.5	22.62	8.626		
3,400.0	3,387.4	3,383.7	3,342.6	12.2	13.0	-23.67	-380.0	-128.3	207.6	184.2	23.37	8.884		
3,500.0	3,486.8	3,483.8	3,440.2	12.6	13.5	-23.99	-400.1	-136.1	219.6	195.5	24.12	9.103		
3,600.0	3,586.3	3,574.2	3,528.2	13.0	14.0	-24.12	-419.6	-144.0	233.2	208.5	24.71	9.439		
3,700.0	3,685.7	3,669.3	3,619.9	13.4	14.4	-23.86	-442.3	-154.4	249.7	224.3	25.38	9.839		
3,800.0	3,785.2	3,768.3	3,715.3	13.8	15.0	-23.59	-466.5	-165.5	266.7	240.6	26.13	10.208		
3,900.0	3,884.7	3,869.5	3,813.0	14.1	15.5	-23.41	-490.7	-176.5	283.1	256.2	26.92	10.517		
4,000.0	3,984.1	3,971.9	3,912.1	14.5	16.0	-23.33	-514.2	-186.9	298.5	270.8	27.73	10.764		
4,100.0	4,083.6	4,075.4	4,012.6	14.9	16.5	-23.21	-536.6	-197.3	312.5	283.9	28.55	10.946		
4,200.0	4,183.0	4,176.5	4,111.0	15.3	17.1	-23.10	-557.3	-207.3	325.4	296.0	29.32	11.096		
4,300.0	4,282.5	4,274.2	4,206.2	15.7	17.5	-23.08	-577.5	-216.6	338.3	308.2	30.05	11.256		
4,400.0	4,381.9	4,371.7	4,301.0	16.1	18.0	-22.98	-598.1	-226.3	351.7	320.9	30.78	11.426		
4,500.0	4,481.4	4,470.8	4,397.3	16.5	18.5	-22.87	-619.1	-236.4	365.3	333.8	31.53	11.588		
4,600.0	4,580.9	4,571.1	4,494.9	16.9	19.0	-22.84	-640.3	-246.1	378.8	346.5	32.29	11.728		
4,700.0	4,680.3	4,672.9	4,594.0	17.3	19.6	-22.91	-661.6	-255.2	391.8	358.7	33.08	11.842		
4,800.0	4,779.8	4,776.0	4,694.6	17.7	20.1	-23.06	-682.4	-263.6	403.9	370.0	33.88	11.920		
4,900.0	4,879.2	4,880.2	4,796.5	18.1	20.6	-23.24	-702.5	-271.7	415.0	380.3	34.69	11.962		

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 #202H
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 #202H	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	
5,000.0	4,978.7	4,986.8	4,901.1	18.5	21.1	-23.48	-721.7	-279.0	424.6	389.1	35.51	11.957	
5,100.0	5,078.1	5,092.4	5,005.1	18.8	21.6	-23.74	-739.2	-285.7	432.7	396.4	36.32	11.915	
5,200.0	5,177.6	5,182.1	5,093.2	19.2	22.0	-23.95	-754.5	-291.5	441.4	404.4	36.98	11.936	
5,300.0	5,277.1	5,281.3	5,190.6	19.6	22.4	-24.18	-772.5	-298.1	451.1	413.4	37.73	11.957	
5,400.0	5,376.5	5,384.0	5,291.4	20.0	22.9	-24.39	-790.7	-305.0	460.6	422.0	38.52	11.958	
5,500.0	5,476.0	5,481.2	5,386.9	20.4	23.4	-24.48	-807.8	-312.4	470.0	430.7	39.25	11.975	
5,600.0	5,575.4	5,581.2	5,484.8	20.8	23.9	-24.40	-825.3	-321.3	479.6	439.6	40.00	11.991	
5,700.0	5,674.9	5,685.9	5,587.6	21.2	24.4	-24.36	-842.9	-330.2	488.5	447.7	40.80	11.975	
5,800.0	5,774.3	5,789.3	5,689.4	21.6	24.8	-24.37	-859.7	-338.4	496.7	455.1	41.58	11.946	
5,900.0	5,873.8	5,896.3	5,794.9	22.0	25.3	-24.43	-876.0	-346.2	503.7	461.3	42.38	11.885	
6,000.0	5,973.2	5,987.8	5,885.2	22.4	25.7	-24.49	-889.3	-352.7	510.0	467.0	43.07	11.843	
6,100.0	6,072.7	6,076.6	5,972.3	22.8	26.1	-24.47	-904.9	-360.2	519.6	475.8	43.72	11.884	
6,200.0	6,172.2	6,170.9	6,064.7	23.2	26.6	-24.51	-921.8	-367.8	529.4	485.0	44.42	11.919	
6,300.0	6,271.6	6,259.9	6,151.5	23.6	27.0	-24.55	-939.9	-375.4	541.8	496.8	45.06	12.025	
6,400.0	6,371.1	6,367.0	6,256.1	24.0	27.6	-24.66	-961.7	-383.7	554.0	508.1	45.91	12.068	
6,500.0	6,470.5	6,483.2	6,370.0	24.4	28.1	-24.87	-983.2	-391.6	564.2	517.4	46.83	12.049	
6,600.0	6,570.0	6,598.9	6,484.1	24.8	28.7	-25.13	-1,001.2	-398.0	571.2	523.5	47.70	11.974	
6,700.0	6,669.4	6,712.5	6,596.6	25.2	29.1	-25.40	-1,016.1	-403.4	575.6	527.1	48.53	11.862	
6,800.0	6,768.9	6,821.6	6,704.9	25.6	29.6	-25.79	-1,028.5	-407.0	578.1	528.8	49.31	11.723	
6,900.0	6,868.4	6,927.3	6,809.9	26.0	30.0	-26.21	-1,039.4	-409.6	579.3	529.2	50.08	11.568	
7,000.0	6,967.8	7,034.6	6,916.8	26.3	30.4	-26.66	-1,049.4	-411.9	579.5	528.7	50.84	11.399	
7,100.0	7,067.3	7,142.8	7,024.6	26.7	30.8	-27.17	-1,057.9	-413.5	578.3	526.7	51.59	11.208	
7,200.0	7,166.7	7,247.9	7,129.5	27.1	31.2	-27.66	-1,065.0	-414.7	575.8	523.5	52.34	11.003	
7,300.0	7,266.2	7,351.1	7,232.5	27.5	31.5	-28.14	-1,071.4	-416.1	573.0	519.9	53.08	10.795	
7,400.0	7,365.6	7,459.3	7,340.1	27.9	31.8	-29.60	-1,076.1	-407.5	566.8	513.0	53.83	10.529	
7,448.3	7,413.7	7,482.6	7,362.8	28.1	31.9	-30.22	-1,078.2	-402.8	565.7	511.5	54.22	10.432	
7,500.0	7,465.1	7,506.7	7,385.9	28.3	32.0	-30.99	-1,081.5	-396.7	567.0	512.5	54.53	10.398	
7,600.0	7,564.6	7,686.2	7,540.8	28.7	32.3	-40.61	-1,100.2	-311.2	570.5	514.7	55.88	10.210	
7,685.0	7,649.1	7,769.6	7,608.1	29.1	32.4	-46.04	-1,098.0	-261.8	568.3	511.4	56.90	9.989	
7,700.0	7,664.0	7,782.3	7,618.4	29.1	32.4	-46.84	-1,097.6	-254.7	568.4	511.3	57.06	9.962	
7,800.0	7,763.5	7,864.8	7,686.9	29.5	32.4	-51.95	-1,094.8	-208.8	572.3	514.2	58.03	9.862	
7,900.0	7,862.9	7,926.0	7,736.6	29.9	32.5	-55.85	-1,092.1	-173.0	583.2	524.7	58.49	9.971	
8,000.0	7,962.4	7,964.0	7,764.3	30.3	32.5	-58.55	-1,090.3	-147.2	605.0	547.0	57.97	10.435	
8,100.0	8,061.8	7,996.0	7,785.1	30.7	32.5	-60.98	-1,088.7	-122.9	638.5	581.8	56.66	11.269	
8,200.0	8,161.3	8,018.5	7,798.5	31.1	32.5	-62.72	-1,087.7	-104.9	682.8	628.2	54.60	12.506	
8,300.0	8,260.8	8,040.6	7,810.9	31.5	32.5	-64.42	-1,087.1	-86.6	736.4	684.1	52.31	14.078	
8,400.0	8,360.2	8,060.0	7,821.2	31.9	32.5	-65.89	-1,086.9	-70.2	797.7	747.8	49.94	15.973	
8,468.4	8,428.3	8,091.0	7,836.4	32.2	32.5	-68.19	-1,087.1	-43.2	843.9	795.0	48.98	17.230	
8,500.0	8,459.7	8,091.0	7,836.4	32.3	32.5	-68.74	-1,087.1	-43.2	865.7	817.6	48.10	17.997	
8,600.0	8,559.4	8,096.9	7,839.2	32.7	32.5	-71.17	-1,087.2	-37.9	938.7	893.0	45.65	20.560	
8,700.0	8,659.3	8,142.2	7,859.7	33.0	32.5	-76.56	-1,086.9	2.4	1,015.7	971.0	44.69	22.728	
8,767.2	8,726.5	8,171.4	7,872.5	33.2	32.5	136.95	-1,085.6	28.7	1,068.9	1,024.9	44.08	24.251	
8,800.0	8,759.3	8,186.1	7,878.8	33.3	32.5	40.84	-1,084.6	41.9	1,094.8	1,051.0	43.79	25.002	
8,850.0	8,809.0	8,200.8	7,884.9	33.5	32.5	36.43	-1,083.5	55.2	1,132.9	1,089.9	43.09	26.292	
8,900.0	8,858.1	8,216.9	7,891.4	33.6	32.5	32.75	-1,082.1	69.9	1,169.4	1,127.0	42.39	27.585	
8,950.0	8,906.2	8,234.1	7,898.1	33.7	32.4	29.69	-1,080.5	85.7	1,203.8	1,162.1	41.69	28.875	
9,000.0	8,952.9	8,252.4	7,904.8	33.8	32.4	27.14	-1,078.5	102.5	1,236.2	1,195.2	40.99	30.156	
9,050.0	8,998.0	8,281.0	7,914.8	33.9	32.4	24.79	-1,075.0	129.1	1,266.2	1,225.7	40.52	31.252	
9,100.0	9,040.9	8,281.0	7,914.8	34.0	32.4	23.44	-1,075.0	129.1	1,293.8	1,254.4	39.37	32.863	
9,150.0	9,081.4	8,281.0	7,914.8	34.1	32.4	22.29	-1,075.0	129.1	1,319.3	1,281.0	38.26	34.484	
9,200.0	9,119.3	8,281.0	7,914.8	34.1	32.4	21.30	-1,075.0	129.1	1,342.7	1,305.5	37.20	36.097	
9,250.0	9,154.2	8,321.3	7,926.5	34.2	32.4	19.89	-1,069.4	167.2	1,361.8	1,324.9	36.95	36.852	

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 #202H
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 #202H	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		
9,300.0	9,185.8	8,333.2	7,929.3	34.2	32.4	19.10	-1,067.6	178.7	1,379.4	1,343.2	36.19	38.113		
9,350.0	9,213.9	8,377.0	7,937.0	34.2	32.3	18.03	-1,060.8	221.2	1,395.7	1,359.7	35.99	38.776		
9,400.0	9,238.3	8,377.0	7,937.0	34.2	32.3	17.67	-1,060.8	221.2	1,407.1	1,372.0	35.14	40.045		
9,450.0	9,258.8	8,377.0	7,937.0	34.2	32.3	17.39	-1,060.8	221.2	1,416.1	1,381.7	34.40	41.166		
9,500.0	9,275.2	8,391.9	7,938.8	34.2	32.3	17.05	-1,058.3	235.8	1,422.6	1,388.6	33.96	41.890		
9,550.0	9,287.5	8,426.6	7,942.8	34.2	32.3	16.63	-1,052.5	269.8	1,425.7	1,391.9	33.81	42.163		
9,600.0	9,295.5	8,461.5	7,946.4	34.3	32.3	16.33	-1,046.3	303.9	1,425.2	1,391.5	33.70	42.293		
9,631.7	9,298.4	8,471.0	7,947.3	34.4	32.3	16.30	-1,044.6	313.3	1,423.0	1,389.5	33.55	42.419		
9,700.0	9,302.6	8,514.9	7,950.9	34.9	32.3	15.96	-1,037.0	356.4	1,417.6	1,384.1	33.51	42.304		
9,800.0	9,308.6	8,566.0	7,953.7	35.7	32.6	15.58	-1,029.1	406.7	1,412.7	1,379.2	33.53	42.137		
9,892.4	9,314.2	8,613.4	7,955.1	36.6	33.1	15.26	-1,022.9	453.7	1,411.2	1,377.5	33.76	41.800		
9,900.0	9,314.6	8,617.3	7,955.2	36.7	33.2	15.23	-1,022.4	457.5	1,411.2	1,377.4	33.79	41.768		
10,000.0	9,320.5	8,660.0	7,955.3	37.8	33.6	14.98	-1,018.0	500.1	1,413.3	1,379.0	34.27	41.243		
10,100.0	9,326.3	8,723.8	7,954.2	39.0	34.5	14.70	-1,014.6	563.8	1,418.5	1,383.4	35.03	40.496		
10,200.0	9,332.1	8,961.8	7,964.2	40.3	38.0	14.77	-1,025.3	800.9	1,420.0	1,382.8	37.16	38.212		
10,291.0	9,337.2	9,010.5	7,968.0	41.6	38.8	14.84	-1,028.3	849.5	1,418.6	1,380.6	38.02	37.315		
10,300.0	9,337.7	9,015.4	7,968.3	41.7	38.8	14.85	-1,028.6	854.2	1,418.6	1,380.5	38.11	37.227		
10,400.0	9,343.2	9,136.2	7,975.4	43.2	40.9	14.97	-1,035.1	974.7	1,419.1	1,379.5	39.68	35.766		
10,500.0	9,348.7	9,220.9	7,980.5	44.8	42.4	15.01	-1,038.4	1,059.2	1,418.7	1,377.7	40.97	34.625		
10,600.0	9,354.0	9,354.3	7,988.8	46.5	44.8	14.97	-1,040.7	1,192.3	1,417.7	1,375.1	42.60	33.283		
10,700.0	9,359.3	9,443.5	7,994.7	48.2	46.5	14.89	-1,040.7	1,281.3	1,415.6	1,371.7	43.90	32.245		
10,800.0	9,364.4	9,533.7	8,000.0	50.0	48.2	14.78	-1,039.7	1,371.3	1,414.0	1,368.8	45.21	31.274		
10,900.0	9,369.5	9,622.5	8,004.2	51.9	50.0	14.61	-1,037.5	1,460.0	1,413.2	1,366.7	46.49	30.396		
11,000.0	9,374.5	9,727.0	8,008.8	53.8	52.1	14.42	-1,034.9	1,564.4	1,412.5	1,364.6	47.86	29.512		
11,100.0	9,379.4	9,821.6	8,013.1	55.7	54.0	14.25	-1,032.6	1,658.8	1,411.8	1,362.6	49.22	28.682		
11,130.5	9,380.9	9,844.5	8,013.9	56.3	54.5	14.21	-1,031.9	1,681.7	1,411.7	1,362.1	49.61	28.455		
11,200.0	9,384.2	9,896.7	8,015.5	57.7	55.5	14.10	-1,030.3	1,733.9	1,412.1	1,361.6	50.50	27.960		
11,300.0	9,388.9	10,062.7	8,024.1	59.7	59.0	13.70	-1,022.7	1,899.5	1,409.5	1,357.5	52.02	27.093		
11,400.0	9,393.5	10,150.8	8,029.2	61.7	60.8	13.43	-1,017.0	1,987.2	1,406.4	1,353.2	53.25	26.411		
11,500.0	9,398.0	10,235.6	8,033.2	63.8	62.6	13.12	-1,010.2	2,071.6	1,404.2	1,349.7	54.42	25.805		
11,600.0	9,402.5	10,336.4	8,036.6	65.9	64.8	12.73	-1,001.7	2,172.0	1,402.9	1,347.4	55.56	25.249		
11,700.0	9,406.8	10,448.4	8,042.2	68.0	67.2	12.38	-993.9	2,283.6	1,400.4	1,343.6	56.82	24.647		
11,800.0	9,411.0	10,537.2	8,046.4	70.1	69.2	12.07	-986.9	2,372.1	1,398.1	1,340.1	58.00	24.103		
11,900.0	9,415.2	10,659.6	8,052.1	72.3	71.9	11.67	-977.7	2,494.0	1,395.9	1,336.7	59.23	23.568		
12,000.0	9,419.3	10,784.5	8,061.7	74.5	74.6	11.43	-971.4	2,618.3	1,391.1	1,330.5	60.66	22.933		
12,100.0	9,423.2	10,872.3	8,068.7	76.6	76.6	11.29	-967.7	2,705.7	1,386.2	1,324.2	62.05	22.341		
12,200.0	9,427.1	10,961.0	8,075.2	78.9	78.6	11.14	-963.6	2,794.1	1,382.0	1,318.5	63.43	21.788		
12,300.0	9,430.9	11,031.5	8,079.4	81.1	80.2	11.09	-962.0	2,864.4	1,379.2	1,314.4	64.86	21.265		
12,400.0	9,434.6	11,111.1	8,083.2	83.3	82.0	11.11	-962.5	2,944.0	1,378.3	1,311.8	66.46	20.738		
12,422.8	9,435.4	11,129.8	8,084.0	83.8	82.5	11.13	-962.8	2,962.7	1,378.3	1,311.4	66.84	20.619		
12,500.0	9,438.2	11,190.6	8,086.1	85.5	83.9	11.18	-964.1	3,023.4	1,378.7	1,310.6	68.14	20.234		
12,600.0	9,441.7	11,271.8	8,087.7	87.8	85.7	11.24	-965.6	3,104.5	1,380.6	1,310.7	69.82	19.772		
12,700.0	9,445.1	11,361.6	8,088.4	90.0	87.8	11.29	-967.0	3,194.3	1,383.5	1,311.9	71.54	19.339		
12,800.0	9,448.5	11,459.2	8,089.1	92.3	90.1	11.38	-969.1	3,291.9	1,386.6	1,313.3	73.35	18.905		
12,892.1	9,451.4	11,560.5	8,089.7	94.4	92.4	11.48	-971.4	3,393.2	1,389.6	1,314.5	75.10	18.504		
12,900.0	9,451.7	11,571.8	8,089.8	94.6	92.7	11.49	-971.7	3,404.5	1,389.8	1,314.5	75.26	18.465		
13,000.0	9,454.9	11,674.6	8,091.9	96.9	95.1	11.61	-974.4	3,507.2	1,391.5	1,314.3	77.19	18.028		
13,100.0	9,458.1	11,766.0	8,093.2	99.2	97.2	11.72	-976.7	3,598.6	1,393.9	1,314.9	79.05	17.634		
13,200.0	9,461.3	11,869.3	8,094.3	101.5	99.6	11.83	-979.2	3,701.8	1,396.6	1,315.7	80.98	17.248		
13,300.0	9,464.5	11,965.3	8,095.6	103.8	101.9	11.93	-981.4	3,797.9	1,399.1	1,316.2	82.87	16.882		
13,400.0	9,467.7	12,055.7	8,096.0	106.1	104.0	11.97	-982.4	3,888.3	1,402.2	1,317.5	84.66	16.563		
13,500.0	9,470.9	12,164.9	8,096.4	108.4	106.6	12.05	-984.3	3,997.4	1,405.5	1,318.9	86.58	16.233		

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 #202H
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 #202H	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		
13,600.0	9,474.1	12,274.8	8,098.3	110.7	109.2	12.25	-988.7	4,107.2	1,407.8	1,319.1	88.74	15.865		
13,700.0	9,477.3	12,362.0	8,099.6	113.1	111.3	12.37	-991.4	4,194.3	1,410.3	1,319.6	90.69	15.551		
13,800.0	9,480.5	12,508.4	8,103.1	115.4	114.7	12.48	-993.5	4,340.7	1,411.5	1,318.7	92.83	15.205		
13,900.0	9,483.6	12,610.0	8,107.5	117.7	117.1	12.58	-995.0	4,442.1	1,410.9	1,316.1	94.81	14.880		
14,000.0	9,486.8	12,724.4	8,112.4	120.1	119.9	12.69	-996.8	4,556.4	1,410.4	1,313.6	96.87	14.560		
14,100.0	9,490.0	12,860.7	8,122.1	122.4	123.1	12.96	-1,001.5	4,692.3	1,407.4	1,308.1	99.30	14.173		
14,200.0	9,493.2	12,950.5	8,129.5	124.8	125.2	13.21	-1,006.0	4,781.7	1,403.8	1,302.1	101.65	13.810		
14,300.0	9,496.4	13,041.0	8,136.4	127.1	127.4	13.47	-1,010.9	4,871.8	1,400.8	1,296.8	104.05	13.463		
14,400.0	9,499.6	13,130.6	8,142.6	129.5	129.6	13.71	-1,015.6	4,961.1	1,398.6	1,292.2	106.45	13.138		
14,500.0	9,502.8	13,220.0	8,148.1	131.8	131.7	13.94	-1,020.2	5,050.2	1,397.2	1,288.3	108.85	12.835		
14,600.0	9,506.0	13,317.9	8,153.5	134.2	134.0	14.18	-1,025.0	5,147.8	1,396.2	1,284.9	111.31	12.543		
14,700.0	9,509.2	13,424.0	8,159.4	136.6	136.6	14.41	-1,029.4	5,253.7	1,395.1	1,281.3	113.78	12.261		
14,800.0	9,512.4	13,527.1	8,165.3	138.9	139.1	14.58	-1,032.3	5,356.6	1,393.6	1,277.5	116.12	12.001		
14,900.0	9,515.6	13,622.5	8,170.1	141.3	141.3	14.67	-1,033.4	5,451.8	1,392.2	1,274.0	118.25	11.773		
15,000.0	9,518.8	13,717.8	8,174.2	143.7	143.6	14.68	-1,032.5	5,547.0	1,391.1	1,271.0	120.14	11.579		
15,100.0	9,522.0	13,811.5	8,177.4	146.1	145.9	14.63	-1,030.7	5,640.6	1,390.5	1,268.6	121.91	11.406		
15,200.0	9,525.2	13,908.4	8,180.2	148.4	148.2	14.53	-1,027.6	5,737.5	1,390.2	1,266.7	123.52	11.255		
15,285.6	9,527.9	13,991.3	8,182.4	150.5	150.2	14.44	-1,024.9	5,820.3	1,390.1	1,265.2	124.88	11.132		
15,300.0	9,528.4	14,004.2	8,182.8	150.8	150.5	14.43	-1,024.5	5,833.1	1,390.1	1,265.0	125.11	11.111		
15,400.0	9,531.6	14,095.3	8,184.8	153.2	152.7	14.35	-1,022.1	5,924.2	1,390.6	1,263.8	126.76	10.970		
15,500.0	9,534.8	14,193.9	8,186.5	155.6	155.0	14.26	-1,019.5	6,022.8	1,391.5	1,263.1	128.38	10.839		
15,600.0	9,538.0	14,294.0	8,188.2	158.0	157.4	14.11	-1,015.5	6,122.8	1,392.2	1,262.3	129.83	10.723		
15,700.0	9,541.2	14,384.8	8,189.0	160.4	159.6	13.93	-1,010.9	6,213.4	1,393.4	1,262.2	131.15	10.624		
15,800.0	9,544.4	14,486.3	8,189.3	162.8	162.0	13.72	-1,005.7	6,314.8	1,395.1	1,262.7	132.41	10.536		
15,900.0	9,547.6	14,631.4	8,193.5	165.1	165.5	13.65	-1,003.1	6,459.8	1,395.3	1,261.1	134.14	10.402		
16,000.0	9,550.8	14,786.8	8,205.8	167.5	169.3	13.76	-1,002.9	6,614.7	1,390.4	1,254.1	136.27	10.203		
16,100.0	9,554.0	14,893.8	8,215.8	169.9	171.8	13.82	-1,002.0	6,721.2	1,384.4	1,246.1	138.31	10.009		
16,200.0	9,557.2	14,984.0	8,224.2	172.3	174.0	13.84	-1,000.6	6,811.0	1,378.3	1,238.0	140.28	9.825		
16,300.0	9,560.3	15,074.7	8,231.5	174.7	176.2	13.83	-998.5	6,901.4	1,373.1	1,231.0	142.12	9.661		
16,400.0	9,563.5	15,159.5	8,237.7	177.1	178.2	13.78	-995.9	6,986.0	1,368.6	1,224.7	143.88	9.512		
16,500.0	9,566.7	15,233.9	8,241.9	179.5	180.0	13.71	-993.2	7,060.2	1,365.6	1,220.0	145.53	9.383		
16,585.0	9,569.5	15,292.0	8,243.8	181.6	181.4	13.63	-990.7	7,118.2	1,364.7	1,217.9	146.83	9.295		
16,600.0	9,569.9	15,303.3	8,244.1	181.9	181.7	13.61	-990.2	7,129.5	1,364.7	1,217.7	147.04	9.281		
16,700.0	9,573.1	15,381.2	8,245.0	184.3	183.6	13.47	-986.6	7,207.3	1,365.8	1,217.4	148.38	9.205		
16,711.6	9,573.5	15,387.0	8,245.0	184.6	183.7	13.46	-986.3	7,213.1	1,366.1	1,217.5	148.53	9.197		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	-179.95	-30.1	0.0	30.1				
100.0	100.0	100.0	100.0	0.1	0.1	91.71	-30.1	0.0	30.1	29.8	0.26	117.095	
200.0	200.0	200.0	200.0	0.5	0.5	96.67	-30.1	0.0	30.3	29.3	0.98	30.988 ES	
300.0	299.9	300.1	299.9	0.9	0.8	104.67	-30.1	0.0	31.1	29.4	1.70	18.274	
400.0	399.7	400.3	399.7	1.2	1.2	113.55	-30.1	0.0	32.8	30.4	2.43	13.517	
500.0	499.6	500.4	499.6	1.6	1.6	121.37	-30.1	0.0	35.2	32.1	3.15	11.178	
600.0	599.5	600.5	599.5	2.0	1.9	128.08	-30.1	0.0	38.2	34.3	3.87	9.865	
700.0	699.3	700.7	699.3	2.3	2.3	133.76	-30.1	0.0	41.6	37.0	4.59	9.064	
800.0	799.2	800.8	799.2	2.7	2.6	138.53	-30.1	0.0	45.4	40.1	5.31	8.548	
900.0	899.0	901.0	899.0	3.1	3.0	142.54	-30.1	0.0	49.5	43.4	6.03	8.199	
1,000.0	998.9	998.9	998.9	3.4	3.4	145.94	-30.1	0.0	53.7	47.0	6.74	7.965	
1,100.0	1,098.8	1,098.0	1,098.0	3.8	3.7	108.11	-30.8	-0.3	57.1	49.6	7.44	7.673	
1,200.0	1,198.8	1,197.2	1,197.2	4.1	4.0	54.17	-33.2	-1.3	58.4	50.3	8.11	7.204	
1,300.0	1,298.6	1,296.4	1,296.3	4.5	4.3	33.00	-37.2	-2.9	57.6	48.9	8.77	6.573	
1,407.1	1,405.3	1,402.7	1,402.4	4.8	4.7	24.09	-43.2	-5.3	54.5	45.0	9.48	5.747	
1,500.0	1,497.7	1,494.8	1,494.2	5.1	5.0	23.37	-49.9	-8.0	51.3	41.2	10.11	5.076	
1,600.0	1,597.2	1,594.1	1,593.1	5.5	5.4	21.32	-58.6	-11.5	49.2	38.4	10.78	4.563	
1,686.4	1,683.1	1,679.9	1,678.3	5.8	5.7	18.49	-67.4	-15.1	48.6	37.2	11.37	4.274	
1,700.0	1,696.6	1,693.4	1,691.7	5.8	5.7	17.96	-68.9	-15.7	48.6	37.2	11.46	4.241	
1,800.0	1,796.1	1,792.6	1,790.0	6.1	6.1	13.55	-80.8	-20.5	49.7	37.6	12.14	4.096 SF	
1,900.0	1,895.5	1,891.6	1,888.0	6.5	6.5	8.60	-94.3	-25.9	52.7	39.9	12.81	4.113	
2,000.0	1,995.0	1,990.5	1,985.6	6.9	6.9	3.65	-109.2	-32.0	57.6	44.2	13.47	4.278	
2,100.0	2,094.4	2,089.1	2,082.6	7.2	7.3	-0.87	-125.8	-38.7	64.6	50.5	14.14	4.573	
2,200.0	2,193.9	2,187.5	2,179.0	7.6	7.7	-4.72	-143.8	-45.9	73.6	58.8	14.79	4.977	
2,300.0	2,293.4	2,286.0	2,275.2	8.0	8.1	-7.87	-163.2	-53.8	84.5	69.0	15.47	5.460	
2,400.0	2,392.8	2,385.3	2,372.2	8.4	8.5	-10.34	-183.1	-61.8	95.8	79.6	16.18	5.923	
2,500.0	2,492.3	2,484.5	2,469.1	8.7	9.0	-12.28	-203.0	-69.8	107.3	90.4	16.89	6.353	
2,600.0	2,591.7	2,583.8	2,566.0	9.1	9.4	-13.85	-222.9	-77.9	118.9	101.3	17.61	6.752	
2,700.0	2,691.2	2,683.1	2,663.0	9.5	9.9	-15.13	-242.8	-85.9	130.6	112.2	18.33	7.122	
2,800.0	2,790.6	2,782.4	2,759.9	9.9	10.3	-16.21	-262.7	-93.9	142.3	123.2	19.06	7.465	
2,900.0	2,890.1	2,881.6	2,856.8	10.3	10.8	-17.12	-282.6	-101.9	154.0	134.3	19.79	7.784	
3,000.0	2,989.5	2,980.9	2,953.8	10.7	11.2	-17.90	-302.5	-110.0	165.8	145.3	20.52	8.081	
3,100.0	3,089.0	3,080.2	3,050.7	11.0	11.7	-18.58	-322.3	-118.0	177.6	156.4	21.25	8.358	
3,200.0	3,188.5	3,179.5	3,147.6	11.4	12.2	-19.17	-342.2	-126.0	189.5	167.5	21.99	8.617	
3,300.0	3,287.9	3,278.8	3,244.6	11.8	12.6	-19.70	-362.1	-134.1	201.3	178.6	22.73	8.859	
3,400.0	3,387.4	3,378.0	3,341.5	12.2	13.1	-20.16	-382.0	-142.1	213.2	189.7	23.47	9.086	
3,500.0	3,486.8	3,477.3	3,438.4	12.6	13.6	-20.58	-401.9	-150.1	225.1	200.9	24.21	9.298	
3,600.0	3,586.3	3,576.6	3,535.4	13.0	14.1	-20.95	-421.8	-158.1	237.0	212.0	24.95	9.499	
3,700.0	3,685.7	3,675.9	3,632.3	13.4	14.6	-21.29	-441.7	-166.2	248.9	223.2	25.69	9.687	
3,800.0	3,785.2	3,775.2	3,729.2	13.8	15.0	-21.60	-461.6	-174.2	260.8	234.4	26.44	9.865	
3,900.0	3,884.7	3,874.4	3,826.2	14.1	15.5	-21.88	-481.5	-182.2	272.7	245.5	27.18	10.032	
4,000.0	3,984.1	3,973.7	3,923.1	14.5	16.0	-22.14	-501.4	-190.3	284.6	256.7	27.93	10.191	
4,100.0	4,083.6	4,073.0	4,020.0	14.9	16.5	-22.37	-521.3	-198.3	296.6	267.9	28.68	10.341	
4,200.0	4,183.0	4,172.3	4,117.0	15.3	17.0	-22.59	-541.2	-206.3	308.5	279.1	29.43	10.484	
4,300.0	4,282.5	4,271.6	4,213.9	15.7	17.4	-22.79	-561.1	-214.4	320.4	290.3	30.18	10.619	
4,400.0	4,381.9	4,370.8	4,310.8	16.1	17.9	-22.98	-581.0	-222.4	332.4	301.5	30.93	10.748	
4,500.0	4,481.4	4,470.1	4,407.8	16.5	18.4	-23.16	-600.8	-230.4	344.3	312.7	31.68	10.870	
4,600.0	4,580.9	4,569.4	4,504.7	16.9	18.9	-23.32	-620.7	-238.4	356.3	323.8	32.43	10.987	
4,700.0	4,680.3	4,668.7	4,601.6	17.3	19.4	-23.47	-640.6	-246.5	368.2	335.0	33.18	11.098	
4,800.0	4,779.8	4,767.9	4,698.6	17.7	19.9	-23.61	-660.5	-254.5	380.2	346.2	33.93	11.204	
4,900.0	4,879.2	4,867.2	4,795.5	18.1	20.4	-23.75	-680.4	-262.5	392.1	357.4	34.68	11.306	
5,000.0	4,978.7	4,966.5	4,892.4	18.5	20.9	-23.88	-700.3	-270.6	404.1	368.7	35.44	11.403	

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 #202H
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 #202H	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	5,078.1	5,065.8	4,989.4	18.8	21.3	-23.99	-720.2	-278.6	416.0	379.9	36.19	11.496	
5,200.0	5,177.6	5,165.1	5,086.3	19.2	21.8	-24.11	-740.1	-286.6	428.0	391.1	36.94	11.585	
5,300.0	5,277.1	5,264.3	5,183.2	19.6	22.3	-24.21	-760.0	-294.6	440.0	402.3	37.70	11.671	
5,400.0	5,376.5	5,363.6	5,280.2	20.0	22.8	-24.31	-779.9	-302.7	451.9	413.5	38.45	11.753	
5,500.0	5,476.0	5,462.9	5,377.1	20.4	23.3	-24.41	-799.8	-310.7	463.9	424.7	39.21	11.831	
5,600.0	5,575.4	5,562.2	5,474.0	20.8	23.8	-24.50	-819.7	-318.7	475.9	435.9	39.96	11.907	
5,700.0	5,674.9	5,661.5	5,571.0	21.2	24.3	-24.58	-839.6	-326.8	487.8	447.1	40.72	11.980	
5,800.0	5,774.3	5,760.7	5,667.9	21.6	24.8	-24.67	-859.5	-334.8	499.8	458.3	41.48	12.050	
5,900.0	5,873.8	5,860.0	5,764.8	22.0	25.3	-24.74	-879.4	-342.8	511.8	469.5	42.23	12.118	
6,000.0	5,973.2	5,959.3	5,861.8	22.4	25.8	-24.82	-899.2	-350.9	523.7	480.7	42.99	12.183	
6,100.0	6,072.7	6,058.6	5,958.7	22.8	26.3	-24.89	-919.1	-358.9	535.7	492.0	43.75	12.246	
6,200.0	6,172.2	6,157.8	6,055.6	23.2	26.7	-24.96	-939.0	-366.9	547.7	503.2	44.50	12.306	
6,300.0	6,271.6	6,257.1	6,152.6	23.6	27.2	-25.02	-958.9	-374.9	559.6	514.4	45.26	12.365	
6,400.0	6,371.1	6,356.6	6,252.6	24.0	27.8	-25.11	-980.5	-383.7	570.7	524.6	46.15	12.367	
6,500.0	6,470.5	6,456.6	6,377.7	24.4	28.3	-25.26	-999.8	-391.4	578.9	531.9	47.05	12.305	
6,600.0	6,570.0	6,554.1	6,483.9	24.8	28.8	-25.47	-1,015.9	-397.9	584.1	536.2	47.90	12.193	
6,700.0	6,669.4	6,652.7	6,561.0	25.2	29.3	-25.74	-1,028.7	-403.1	586.2	537.5	48.71	12.036	
6,800.0	6,768.9	6,751.4	6,667.9	25.6	29.7	-26.08	-1,038.1	-406.9	585.3	535.9	49.47	11.834	
6,900.0	6,868.4	6,850.9	6,764.3	26.0	30.1	-26.49	-1,044.2	-409.4	581.5	531.3	50.18	11.589	
7,000.0	6,967.8	6,949.3	6,862.3	26.3	30.5	-26.98	-1,047.0	-410.5	574.6	523.8	50.84	11.303	
7,100.0	7,067.3	7,048.8	6,963.3	26.7	30.8	-27.48	-1,047.1	-410.5	565.5	514.0	51.52	10.977	
7,200.0	7,166.7	7,147.8	7,067.7	27.1	31.1	-27.97	-1,047.1	-410.5	556.3	504.1	52.23	10.651	
7,300.0	7,266.2	7,246.3	7,166.2	27.5	31.3	-28.48	-1,047.1	-410.5	547.1	494.2	52.94	10.335	
7,400.0	7,365.6	7,345.2	7,265.5	27.9	31.6	-29.02	-1,047.1	-410.5	538.0	484.3	53.65	10.028	
7,500.0	7,465.1	7,444.5	7,365.0	28.3	31.9	-30.95	-1,047.1	-398.3	527.5	473.1	54.32	9.710	
7,600.0	7,564.6	7,543.0	7,464.5	28.7	32.1	-34.80	-1,046.9	-368.8	516.2	460.9	55.24	9.344	
7,700.0	7,664.0	7,642.4	7,562.7	29.1	32.2	-39.67	-1,046.6	-330.3	507.7	451.3	56.40	9.000	
7,771.7	7,735.3	7,713.8	7,635.0	29.4	32.2	-43.30	-1,046.4	-301.2	505.5	448.2	57.22	8.834	
7,800.0	7,763.5	7,741.0	7,661.2	29.5	32.3	-44.70	-1,046.4	-289.7	505.9	448.4	57.49	8.799	
7,900.0	7,862.9	7,840.4	7,762.7	29.9	32.3	-49.37	-1,046.1	-251.2	514.1	456.1	58.02	8.860	
8,000.0	7,962.4	7,939.9	7,860.1	30.3	32.3	-53.44	-1,045.9	-216.5	534.3	476.6	57.64	9.269	
8,100.0	8,061.8	8,039.3	7,959.7	30.7	32.3	-57.10	-1,045.7	-183.9	566.8	510.4	56.37	10.054	
8,200.0	8,161.3	8,138.8	8,058.4	31.1	32.3	-59.76	-1,045.5	-159.2	610.8	556.5	54.24	11.260	
8,300.0	8,260.8	8,238.3	8,159.1	31.5	32.3	-61.48	-1,045.4	-142.8	664.8	613.2	51.51	12.905	
8,400.0	8,360.2	8,337.7	8,257.0	31.9	32.3	-64.18	-1,045.2	-116.0	726.8	677.5	49.22	14.766	
8,468.4	8,428.3	8,405.8	8,325.1	32.2	32.3	-65.79	-1,045.1	-99.4	773.2	725.5	47.67	16.220	
8,500.0	8,459.7	8,437.2	8,357.0	32.3	32.3	-66.37	-1,045.1	-99.4	795.5	748.8	46.69	17.037	
8,600.0	8,559.4	8,536.9	8,456.2	32.7	32.3	-70.02	-1,045.0	-82.5	870.1	825.6	44.46	19.571	
8,700.0	8,659.3	8,636.8	8,556.5	33.0	32.3	-73.79	-1,044.9	-67.6	949.3	906.9	42.46	22.360	
8,767.2	8,726.5	8,703.0	8,620.8	33.2	32.3	-140.29	-1,044.8	-54.0	1,004.7	963.3	41.40	24.269	
8,800.0	8,759.3	8,736.8	8,654.0	33.3	32.3	-44.43	-1,044.8	-54.0	1,031.8	991.1	40.69	25.359	
8,850.0	8,809.0	8,786.5	8,701.0	33.5	32.3	-39.81	-1,044.8	-54.0	1,072.2	1,032.6	39.60	27.080	
8,900.0	8,858.1	8,835.6	8,750.1	33.6	32.3	-35.14	-1,044.7	-36.5	1,111.1	1,072.1	39.02	28.476	
8,950.0	8,906.2	8,883.7	8,798.1	33.7	32.3	-31.67	-1,044.7	-26.8	1,148.4	1,110.2	38.19	30.072	
9,000.0	8,952.9	8,930.4	8,845.6	33.8	32.3	-28.53	-1,044.5	-6.9	1,184.1	1,146.5	37.63	31.468	
9,050.0	8,998.0	8,975.5	8,890.1	33.9	32.3	-26.45	-1,044.5	-6.9	1,217.5	1,181.0	36.55	33.312	
9,100.0	9,040.9	9,018.4	8,933.3	34.0	32.3	-24.68	-1,044.5	-6.9	1,249.2	1,213.7	35.52	35.169	
9,150.0	9,081.4	9,058.9	8,973.8	34.1	32.2	-22.79	-1,044.4	18.4	1,278.1	1,243.0	35.11	36.406	
9,200.0	9,119.3	9,096.8	9,011.7	34.1	32.2	-21.29	-1,044.2	41.4	1,305.1	1,270.4	34.64	37.672	
9,250.0	9,154.2	9,131.7	9,046.6	34.2	32.2	-20.31	-1,044.2	41.4	1,329.2	1,295.5	33.76	39.369	
9,300.0	9,185.8	9,163.3	9,078.1	34.2	32.2	-19.33	-1,044.1	57.6	1,350.9	1,317.6	33.26	40.616	
9,350.0	9,213.9	9,191.4	9,103.3	34.2	32.2	-18.55	-1,044.0	71.3	1,369.9	1,337.1	32.78	41.787	

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 #202H
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 #202H	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	
9,400.0	9,238.3	8,300.0	7,928.7	34.2	32.2	17.88	-1,043.9	90.7	1,386.2	1,353.8	32.46	42.703	
9,450.0	9,258.8	8,300.0	7,928.7	34.2	32.2	17.45	-1,043.9	90.7	1,399.8	1,367.8	32.00	43.749	
9,500.0	9,275.2	8,323.5	7,931.2	34.2	32.2	17.01	-1,043.7	114.0	1,410.3	1,378.4	31.90	44.207	
9,550.0	9,287.5	8,347.1	7,932.7	34.2	32.2	16.69	-1,043.6	137.6	1,418.1	1,386.2	31.89	44.475	
9,600.0	9,295.5	8,366.4	7,933.5	34.3	32.2	16.51	-1,043.5	156.9	1,422.7	1,390.8	31.93	44.561	
9,631.7	9,298.4	8,398.0	7,934.9	34.4	32.2	16.40	-1,043.3	188.5	1,423.7	1,391.6	32.12	44.329	
9,700.0	9,302.6	8,466.2	7,937.8	34.9	32.2	16.27	-1,042.8	256.6	1,424.0	1,391.4	32.58	43.707	
9,800.0	9,308.6	8,566.1	7,942.2	35.7	32.7	16.07	-1,042.2	356.4	1,424.3	1,391.0	33.33	42.730	
9,900.0	9,314.6	8,666.0	7,946.5	36.7	33.7	15.88	-1,041.5	456.2	1,424.7	1,390.5	34.18	41.678	
10,000.0	9,320.5	8,765.9	7,950.8	37.8	34.9	15.70	-1,040.9	556.0	1,425.0	1,389.9	35.12	40.578	
10,100.0	9,326.3	8,865.8	7,955.1	39.0	36.3	15.53	-1,040.2	655.8	1,425.3	1,389.2	36.13	39.451	
10,200.0	9,332.1	8,965.7	7,959.5	40.3	37.8	15.36	-1,039.6	755.6	1,425.6	1,388.4	37.21	38.313	
10,300.0	9,337.7	9,065.6	7,963.8	41.7	39.4	15.20	-1,039.0	855.4	1,425.8	1,387.4	38.35	37.179	
10,400.0	9,343.2	9,165.5	7,968.1	43.2	41.0	15.05	-1,038.3	955.3	1,426.0	1,386.4	39.54	36.061	
10,500.0	9,348.7	9,265.5	7,972.4	44.8	42.8	14.90	-1,037.7	1,055.1	1,426.1	1,385.3	40.79	34.962	
10,600.0	9,354.0	9,365.4	7,976.8	46.5	44.6	14.76	-1,037.0	1,154.9	1,426.2	1,384.1	42.08	33.893	
10,700.0	9,359.3	9,465.3	7,981.1	48.2	46.5	14.63	-1,036.4	1,254.8	1,426.3	1,382.8	43.41	32.857	
10,800.0	9,364.4	9,565.3	7,985.4	50.0	48.4	14.50	-1,035.7	1,354.6	1,426.3	1,381.5	44.77	31.855	
10,900.0	9,369.5	9,665.2	7,989.8	51.9	50.4	14.38	-1,035.1	1,454.5	1,426.2	1,380.1	46.17	30.890	
11,000.0	9,374.5	9,765.2	7,994.1	53.8	52.4	14.27	-1,034.4	1,554.3	1,426.2	1,378.6	47.60	29.963	
11,100.0	9,379.4	9,865.2	7,998.4	55.7	54.4	14.16	-1,033.8	1,654.2	1,426.0	1,377.0	49.05	29.072	
11,200.0	9,384.2	9,974.1	8,003.1	57.7	56.7	14.02	-1,032.1	1,763.1	1,425.7	1,375.1	50.52	28.219	
11,300.0	9,388.9	10,083.1	8,007.8	59.7	59.0	13.73	-1,026.7	1,871.7	1,424.4	1,372.6	51.84	27.475	
11,400.0	9,393.5	10,182.8	8,012.2	61.7	61.1	13.44	-1,020.9	1,971.2	1,422.9	1,369.8	53.12	26.787	
11,500.0	9,398.0	10,282.5	8,016.5	63.8	63.2	13.16	-1,015.0	2,070.7	1,421.4	1,367.0	54.40	26.128	
11,600.0	9,402.5	10,382.2	8,020.8	65.9	65.4	12.88	-1,009.2	2,170.1	1,419.9	1,364.2	55.69	25.495	
11,700.0	9,406.8	10,482.0	8,025.1	68.0	67.5	12.61	-1,003.3	2,269.6	1,418.3	1,361.3	56.99	24.888	
11,800.0	9,411.0	10,581.8	8,029.4	70.1	69.7	12.35	-997.5	2,369.1	1,416.7	1,358.4	58.29	24.306	
11,900.0	9,415.2	10,681.5	8,033.7	72.3	71.9	12.09	-991.6	2,468.6	1,415.1	1,355.5	59.59	23.746	
12,000.0	9,419.3	10,781.3	8,038.1	74.5	74.1	11.83	-985.7	2,568.1	1,413.5	1,352.6	60.90	23.208	
12,100.0	9,423.2	10,881.1	8,042.4	76.6	76.4	11.59	-979.9	2,667.7	1,411.8	1,349.6	62.22	22.691	
12,200.0	9,427.1	10,975.5	8,046.5	78.9	78.5	11.38	-974.9	2,761.9	1,410.2	1,346.7	63.56	22.186	
12,300.0	9,430.9	11,066.7	8,050.4	81.1	80.6	11.29	-972.7	2,852.9	1,409.2	1,344.1	65.06	21.658	
12,400.0	9,434.6	11,157.9	8,054.4	83.3	82.7	11.33	-973.5	2,944.0	1,408.7	1,342.0	66.74	21.107	
12,435.8	9,435.9	11,190.5	8,055.8	84.1	83.4	11.37	-974.4	2,976.6	1,408.7	1,341.3	67.38	20.905	
12,500.0	9,438.2	11,245.6	8,057.9	85.5	84.7	11.46	-976.6	3,026.6	1,408.9	1,340.3	68.59	20.541	
12,600.0	9,441.7	11,340.5	8,061.4	87.8	86.9	11.65	-981.2	3,126.4	1,409.8	1,339.3	70.51	19.993	
12,700.0	9,445.1	11,440.4	8,064.9	90.0	89.2	11.85	-985.7	3,226.1	1,410.7	1,338.2	72.52	19.454	
12,800.0	9,448.5	11,540.3	8,068.4	92.3	91.5	12.05	-990.3	3,325.8	1,411.5	1,337.0	74.55	18.934	
12,892.1	9,451.4	11,632.3	8,071.7	94.4	93.7	12.25	-994.5	3,417.6	1,412.3	1,335.8	76.46	18.472	
12,900.0	9,451.7	11,640.1	8,072.0	94.6	93.8	12.27	-994.9	3,425.5	1,412.4	1,335.7	76.62	18.433	
13,000.0	9,454.9	11,740.0	8,075.5	96.9	96.2	12.48	-999.5	3,525.2	1,413.2	1,334.4	78.72	17.952	
13,100.0	9,458.1	11,839.9	8,079.0	99.2	98.5	12.69	-1,004.0	3,624.9	1,414.0	1,333.1	80.84	17.491	
13,200.0	9,461.3	11,939.7	8,082.5	101.5	100.9	12.90	-1,008.6	3,724.5	1,414.8	1,331.8	82.99	17.048	
13,300.0	9,464.5	12,039.6	8,086.0	103.8	103.2	13.11	-1,013.2	3,824.2	1,415.7	1,330.5	85.16	16.624	
13,400.0	9,467.7	12,145.3	8,089.8	106.1	105.7	13.32	-1,017.6	3,929.8	1,416.5	1,329.1	87.36	16.215	
13,500.0	9,470.9	12,256.3	8,093.7	108.4	108.3	13.39	-1,018.5	4,040.7	1,416.5	1,327.2	89.32	15.860	
13,600.0	9,474.1	12,356.3	8,097.2	110.7	110.7	13.39	-1,017.9	4,140.6	1,416.2	1,325.1	91.13	15.541	
13,700.0	9,477.3	12,456.3	8,100.7	113.1	113.1	13.40	-1,017.2	4,240.6	1,415.9	1,323.0	92.95	15.234	
13,800.0	9,480.5	12,556.3	8,104.2	115.4	115.4	13.40	-1,016.6	4,340.5	1,415.6	1,320.9	94.77	14.938	
13,900.0	9,483.6	12,656.3	8,107.7	117.7	117.8	13.40	-1,015.9	4,440.4	1,415.4	1,318.8	96.60	14.652	
14,000.0	9,486.8	12,769.1	8,112.0	120.1	120.5	13.41	-1,015.2	4,553.2	1,414.8	1,316.4	98.45	14.371	

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 #202H
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 #202H	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	9,490.0	12,869.1	8,116.4	122.4	122.9	13.43	-1,014.5	4,653.1	1,413.6	1,313.3	100.31	14.093		
14,200.0	9,493.2	12,969.1	8,120.9	124.8	125.2	13.44	-1,013.9	4,753.0	1,412.4	1,310.2	102.16	13.825		
14,300.0	9,496.4	13,069.1	8,125.3	127.1	127.6	13.45	-1,013.3	4,852.9	1,411.2	1,307.2	104.02	13.566		
14,400.0	9,499.6	13,169.1	8,129.7	129.5	130.0	13.47	-1,012.6	4,952.8	1,410.0	1,304.1	105.89	13.316		
14,500.0	9,502.8	13,269.1	8,134.2	131.8	132.4	13.48	-1,012.0	5,052.7	1,408.8	1,301.0	107.76	13.074		
14,600.0	9,506.0	13,369.1	8,138.6	134.2	134.8	13.50	-1,011.4	5,152.6	1,407.6	1,298.0	109.63	12.839		
14,700.0	9,509.2	13,469.1	8,143.1	136.6	137.2	13.51	-1,010.7	5,252.5	1,406.4	1,294.9	111.51	12.613		
14,800.0	9,512.4	13,569.1	8,147.5	138.9	139.6	13.52	-1,010.1	5,352.3	1,405.2	1,291.8	113.39	12.393		
14,900.0	9,515.6	13,669.1	8,152.0	141.3	142.0	13.54	-1,009.4	5,452.2	1,404.0	1,288.7	115.27	12.180		
15,000.0	9,518.8	13,769.1	8,156.4	143.7	144.4	13.55	-1,008.8	5,552.1	1,402.8	1,285.6	117.15	11.974		
15,100.0	9,522.0	13,869.0	8,160.9	146.1	146.8	13.57	-1,008.2	5,652.0	1,401.6	1,282.5	119.04	11.774		
15,200.0	9,525.2	13,969.0	8,165.3	148.4	149.2	13.58	-1,007.5	5,751.9	1,400.4	1,279.4	120.93	11.580		
15,300.0	9,528.4	14,069.0	8,169.8	150.8	151.6	13.60	-1,006.9	5,851.8	1,399.2	1,276.3	122.83	11.391		
15,400.0	9,531.6	14,169.0	8,174.2	153.2	154.0	13.61	-1,006.2	5,951.7	1,398.0	1,273.2	124.72	11.208		
15,500.0	9,534.8	14,269.0	8,178.6	155.6	156.4	13.62	-1,005.6	6,051.6	1,396.8	1,270.1	126.62	11.031		
15,600.0	9,538.0	14,369.0	8,183.1	158.0	158.8	13.64	-1,005.0	6,151.5	1,395.6	1,267.0	128.53	10.858		
15,700.0	9,541.2	14,469.0	8,187.5	160.4	161.2	13.65	-1,004.3	6,251.4	1,394.4	1,263.9	130.43	10.690		
15,800.0	9,544.4	14,569.0	8,192.0	162.8	163.6	13.67	-1,003.7	6,351.3	1,393.2	1,260.8	132.34	10.527		
15,900.0	9,547.6	14,669.0	8,196.4	165.1	166.0	13.68	-1,003.1	6,451.1	1,392.0	1,257.7	134.25	10.368		
16,000.0	9,550.8	14,769.0	8,200.9	167.5	168.4	13.70	-1,002.4	6,551.0	1,390.8	1,254.6	136.16	10.214		
16,100.0	9,554.0	14,869.0	8,205.3	169.9	170.8	13.71	-1,001.8	6,650.9	1,389.6	1,251.5	138.08	10.064		
16,200.0	9,557.2	14,969.0	8,209.8	172.3	173.2	13.73	-1,001.1	6,750.8	1,388.4	1,248.4	140.00	9.917		
16,300.0	9,560.3	15,069.0	8,214.2	174.7	175.7	13.74	-1,000.5	6,850.7	1,387.2	1,245.2	141.92	9.774		
16,400.0	9,563.5	15,168.9	8,218.7	177.1	178.1	13.75	-999.9	6,950.6	1,386.0	1,242.1	143.84	9.635		
16,500.0	9,566.7	15,268.9	8,223.1	179.5	180.5	13.77	-999.2	7,050.5	1,384.7	1,239.0	145.76	9.500		
16,600.0	9,569.9	15,368.9	8,227.5	181.9	182.9	13.78	-998.6	7,150.4	1,383.5	1,235.9	147.69	9.368		
16,700.0	9,573.1	15,468.9	8,232.0	184.3	185.3	13.80	-998.0	7,250.3	1,382.3	1,232.7	149.62	9.239		
16,711.6	9,573.5	15,480.5	8,232.5	184.6	185.6	13.80	-997.9	7,261.9	1,382.2	1,232.4	149.84	9.224		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	
0.0	0.0	0.0	0.0	0.0	0.0	-15.24	110.0	-30.0	114.0				
100.0	100.0	100.0	100.0	0.1	0.1	-105.66	110.0	-30.0	114.3	114.0	0.26	442.743	
200.0	200.0	200.0	200.0	0.5	0.5	-106.90	110.0	-30.0	115.0	114.0	0.98	117.788	
300.0	299.9	300.1	299.9	0.9	0.8	-108.95	110.0	-30.0	116.3	114.6	1.70	68.488	
400.0	399.7	400.3	399.7	1.2	1.2	-111.34	110.0	-30.0	118.1	115.7	2.42	48.761	
500.0	499.6	500.4	499.6	1.6	1.6	-113.67	110.0	-30.0	120.2	117.0	3.15	38.182	
600.0	599.5	600.5	599.5	2.0	1.9	-115.91	110.0	-30.0	122.4	118.5	3.87	31.612	
700.0	699.3	700.7	699.3	2.3	2.3	-118.07	110.0	-30.0	124.7	120.1	4.59	27.154	
800.0	799.2	800.8	799.2	2.7	2.6	-120.15	110.0	-30.0	127.3	122.0	5.32	23.943	
900.0	899.0	901.0	899.0	3.1	3.0	-122.14	110.0	-30.0	130.0	123.9	6.04	21.528	
1,000.0	998.9	998.9	998.9	3.4	3.4	-124.05	110.0	-30.0	132.8	126.1	6.75	19.676	
1,100.0	1,098.8	1,099.5	1,099.5	3.8	3.7	-165.89	109.3	-30.5	135.6	128.2	7.45	18.195	
1,200.0	1,198.8	1,200.2	1,200.1	4.1	4.0	137.94	107.2	-32.1	137.9	129.8	8.13	16.970	
1,300.0	1,298.6	1,300.9	1,300.7	4.5	4.4	116.01	103.7	-34.7	139.7	130.9	8.79	15.886	
1,407.1	1,405.3	1,408.7	1,408.4	4.8	4.7	107.83	98.4	-38.8	141.1	131.6	9.51	14.829	
1,500.0	1,497.7	1,502.3	1,501.7	5.1	5.1	108.72	92.5	-43.3	141.8	131.7	10.15	13.977	
1,600.0	1,597.2	1,603.1	1,602.0	5.5	5.4	109.02	84.8	-49.1	142.1	131.2	10.84	13.106	
1,700.0	1,696.6	1,703.9	1,702.1	5.8	5.8	108.64	75.6	-56.1	141.8	130.2	11.55	12.276	
1,800.0	1,796.1	1,804.6	1,802.0	6.1	6.2	107.57	65.1	-64.1	141.0	128.7	12.27	11.484	
1,900.0	1,895.5	1,904.5	1,900.9	6.5	6.5	106.19	54.0	-72.5	140.0	127.0	13.01	10.758	
2,000.0	1,995.0	2,004.5	1,999.9	6.9	6.9	104.79	43.0	-80.9	139.1	125.3	13.76	10.108	
2,100.0	2,094.4	2,104.4	2,098.8	7.2	7.3	103.37	31.9	-89.3	138.2	123.7	14.51	9.524	
2,200.0	2,193.9	2,204.3	2,197.8	7.6	7.7	101.94	20.8	-97.7	137.5	122.2	15.28	8.999	
2,300.0	2,293.4	2,304.3	2,296.8	8.0	8.1	100.49	9.7	-106.1	136.8	120.8	16.05	8.526	
2,400.0	2,392.8	2,404.2	2,395.7	8.4	8.5	99.03	-1.4	-114.5	136.3	119.4	16.82	8.099	
2,500.0	2,492.3	2,504.2	2,494.7	8.7	8.9	97.55	-12.4	-122.9	135.8	118.2	17.61	7.712	
2,600.0	2,591.7	2,604.1	2,593.7	9.1	9.3	96.07	-23.5	-131.4	135.4	117.0	18.39	7.361	
2,700.0	2,691.2	2,704.0	2,692.6	9.5	9.7	94.58	-34.6	-139.8	135.1	115.9	19.18	7.042	
2,800.0	2,790.6	2,804.0	2,791.6	9.9	10.1	93.08	-45.7	-148.2	134.9	114.9	19.98	6.753	
2,900.0	2,890.1	2,903.9	2,890.6	10.3	10.5	91.59	-56.7	-156.6	134.8	114.0	20.77	6.489	
2,971.7	2,961.4	2,975.5	2,961.5	10.5	10.8	90.51	-64.7	-162.6	134.7	113.4	21.34	6.314	
3,000.0	2,989.5	3,003.8	2,989.5	10.7	10.9	90.08	-67.8	-165.0	134.8	113.2	21.57	6.248	
3,100.0	3,089.0	3,103.8	3,088.5	11.0	11.3	88.58	-78.9	-173.4	134.8	112.5	22.37	6.028	
3,200.0	3,188.5	3,203.7	3,187.5	11.4	11.8	87.09	-90.0	-181.8	135.0	111.8	23.16	5.828	
3,300.0	3,287.9	3,303.7	3,286.4	11.8	12.2	85.59	-101.1	-190.2	135.2	111.3	23.96	5.644	
3,400.0	3,387.4	3,403.6	3,385.4	12.2	12.6	84.11	-112.1	-198.6	135.6	110.8	24.76	5.476	
3,500.0	3,486.8	3,503.5	3,484.4	12.6	13.0	82.63	-123.2	-207.1	136.0	110.5	25.56	5.322	
3,600.0	3,586.3	3,603.5	3,583.3	13.0	13.4	81.16	-134.3	-215.5	136.6	110.2	26.36	5.181	
3,700.0	3,685.7	3,703.4	3,682.3	13.4	13.8	79.71	-145.4	-223.9	137.2	110.0	27.15	5.052	
3,800.0	3,785.2	3,803.3	3,781.3	13.8	14.2	78.26	-156.4	-232.3	137.9	109.9	27.95	4.934	
3,900.0	3,884.7	3,903.3	3,880.2	14.1	14.7	76.84	-167.5	-240.7	138.7	109.9	28.74	4.826	
4,000.0	3,984.1	4,003.2	3,979.2	14.5	15.1	75.43	-178.6	-249.1	139.6	110.0	29.53	4.726	
4,100.0	4,083.6	4,103.2	4,078.1	14.9	15.5	74.04	-189.7	-257.5	140.5	110.2	30.32	4.635	
4,200.0	4,183.0	4,203.1	4,177.1	15.3	15.9	72.67	-200.7	-265.9	141.6	110.5	31.10	4.552	
4,300.0	4,282.5	4,303.0	4,276.1	15.7	16.3	71.32	-211.8	-274.3	142.7	110.8	31.88	4.475	
4,400.0	4,381.9	4,403.0	4,375.0	16.1	16.7	69.99	-222.9	-282.8	143.9	111.2	32.66	4.405	
4,500.0	4,481.4	4,502.9	4,474.0	16.5	17.2	68.69	-234.0	-291.2	145.2	111.7	33.44	4.341	
4,600.0	4,580.9	4,602.8	4,573.0	16.9	17.6	67.40	-245.1	-299.6	146.5	112.3	34.21	4.282	
4,700.0	4,680.3	4,702.8	4,671.9	17.3	18.0	66.15	-256.1	-308.0	147.9	113.0	34.98	4.229	
4,800.0	4,779.8	4,802.7	4,770.9	17.7	18.4	64.91	-267.2	-316.4	149.4	113.7	35.75	4.180	
4,900.0	4,879.2	4,902.7	4,869.9	18.1	18.8	63.70	-278.3	-324.8	151.0	114.5	36.52	4.135	
5,000.0	4,978.7	5,002.6	4,968.8	18.5	19.3	62.52	-289.4	-333.2	152.6	115.3	37.28	4.094	

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 #202H
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 #202H	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	
5,100.0	5,078.1	5,102.5	5,067.8	18.8	19.7	61.36	-300.4	-341.6	154.3	116.3	38.04	4.056	
5,200.0	5,177.6	5,202.5	5,166.8	19.2	20.1	60.23	-311.5	-350.0	156.1	117.3	38.80	4.022	
5,300.0	5,277.1	5,302.4	5,265.7	19.6	20.5	59.12	-322.6	-358.5	157.9	118.3	39.55	3.991	
5,400.0	5,376.5	5,402.3	5,364.7	20.0	20.9	58.04	-333.7	-366.9	159.7	119.4	40.31	3.963	
5,500.0	5,476.0	5,502.3	5,463.7	20.4	21.4	56.99	-344.8	-375.3	161.7	120.6	41.06	3.938	
5,600.0	5,575.4	5,602.2	5,562.6	20.8	21.8	55.96	-355.8	-383.7	163.6	121.8	41.80	3.915	
5,700.0	5,674.9	5,703.5	5,662.9	21.2	22.2	55.04	-366.8	-392.0	165.5	122.9	42.57	3.887	
5,800.0	5,774.3	5,806.0	5,764.9	21.6	22.6	54.81	-375.9	-398.9	166.0	122.6	43.35	3.828	
5,900.0	5,873.8	5,908.6	5,867.0	22.0	23.0	55.36	-382.9	-404.2	164.9	120.7	44.15	3.735	
6,000.0	5,973.2	6,010.9	5,969.2	22.4	23.4	56.72	-387.7	-407.9	162.4	117.4	44.96	3.611	
6,100.0	6,072.7	6,113.0	6,071.2	22.8	23.7	58.95	-390.3	-409.8	158.5	112.7	45.79	3.462	
6,200.0	6,172.2	6,214.0	6,172.2	23.2	24.0	62.11	-390.8	-410.2	153.7	107.1	46.63	3.296	
6,300.0	6,271.6	6,313.4	6,271.6	23.6	24.3	65.63	-390.8	-410.2	149.1	101.6	47.47	3.141	
6,400.0	6,371.1	6,412.9	6,371.1	24.0	24.6	69.36	-390.8	-410.2	145.1	96.8	48.30	3.004	
6,500.0	6,470.5	6,512.3	6,470.5	24.4	24.9	73.28	-390.8	-410.2	141.7	92.6	49.11	2.886	
6,600.0	6,570.0	6,611.8	6,570.0	24.8	25.3	77.37	-390.8	-410.2	139.1	89.2	49.91	2.786	
6,700.0	6,669.4	6,711.2	6,669.4	25.2	25.6	81.60	-390.8	-410.2	137.2	86.5	50.68	2.706	
6,800.0	6,768.9	6,810.7	6,768.9	25.6	25.9	85.92	-390.8	-410.2	136.0	84.6	51.41	2.646	
6,893.5	6,861.9	6,903.7	6,861.9	25.9	26.2	90.00	-390.8	-410.2	135.7	83.6	52.07	2.606	
6,900.0	6,868.4	6,910.2	6,868.4	26.0	26.2	90.28	-390.8	-410.2	135.7	83.6	52.11	2.603	
7,000.0	6,967.8	7,009.6	6,967.8	26.3	26.5	94.64	-390.8	-410.2	136.1	83.3	52.78	2.579	
7,100.0	7,067.3	7,109.1	7,067.3	26.7	26.8	98.95	-390.8	-410.2	137.4	84.0	53.41	2.572	
7,200.0	7,166.7	7,208.5	7,166.7	27.1	27.1	103.16	-390.8	-410.2	139.4	85.4	54.00	2.581	
7,300.0	7,266.2	7,308.0	7,266.2	27.5	27.4	107.23	-390.8	-410.2	142.1	87.5	54.58	2.604	
7,400.0	7,365.6	7,407.4	7,365.6	27.9	27.7	111.13	-390.8	-410.2	145.6	90.4	55.13	2.640	
7,500.0	7,465.1	7,506.9	7,465.1	28.3	28.0	114.84	-390.8	-410.2	149.6	94.0	55.67	2.688	
7,600.0	7,564.6	7,606.4	7,564.6	28.7	28.4	118.33	-390.8	-410.2	154.3	98.1	56.20	2.746	
7,700.0	7,664.0	7,705.8	7,664.0	29.1	28.7	121.61	-390.8	-410.2	159.5	102.8	56.74	2.812	
7,800.0	7,763.5	7,805.3	7,763.5	29.5	29.0	124.67	-390.8	-410.2	165.3	108.0	57.27	2.885	
7,900.0	7,862.9	7,904.7	7,862.9	29.9	29.3	127.53	-390.8	-410.2	171.4	113.6	57.82	2.965	
8,000.0	7,962.4	8,004.2	7,962.4	30.3	29.6	130.18	-390.8	-410.2	178.0	119.6	58.37	3.049	
8,100.0	8,061.8	8,103.6	8,061.8	30.7	29.9	132.64	-390.8	-410.2	184.9	126.0	58.93	3.137	
8,200.0	8,161.3	8,203.1	8,161.3	31.1	30.3	134.91	-390.8	-410.2	192.1	132.6	59.50	3.229	
8,300.0	8,260.8	8,302.6	8,260.8	31.5	30.6	137.03	-390.8	-410.2	199.6	139.5	60.08	3.323	
8,400.0	8,360.2	8,402.0	8,360.2	31.9	30.9	138.98	-390.8	-410.2	207.4	146.7	60.67	3.418	
8,468.4	8,428.3	8,470.1	8,428.3	32.2	31.1	140.24	-390.8	-410.2	212.8	151.7	61.08	3.484	
8,500.0	8,459.7	8,501.5	8,459.7	32.3	31.2	140.80	-390.8	-410.2	215.2	153.9	61.27	3.513	
8,600.0	8,559.4	8,601.2	8,559.4	32.7	31.6	142.11	-390.8	-410.2	221.1	159.2	61.90	3.573	
8,700.0	8,659.3	8,701.1	8,659.3	33.0	31.9	142.79	-390.8	-410.2	224.4	161.8	62.55	3.587	
8,767.2	8,726.5	8,768.0	8,726.2	33.2	32.1	0.56	-390.8	-408.0	225.0	162.1	62.95	3.575	
8,800.0	8,759.3	8,800.4	8,758.3	33.3	32.2	-91.11	-390.8	-404.3	225.2	162.1	63.10	3.568	
8,850.0	8,809.0	8,849.5	8,806.5	33.5	32.3	-90.00	-390.7	-395.2	225.6	162.3	63.30	3.564	
8,900.0	8,858.1	8,898.2	8,853.4	33.6	32.4	-88.89	-390.6	-382.1	226.3	162.8	63.47	3.565	
8,950.0	8,906.2	8,946.6	8,898.7	33.7	32.6	-87.81	-390.5	-365.2	227.2	163.6	63.61	3.573	
9,000.0	8,952.9	8,994.6	8,942.2	33.8	32.7	-86.76	-390.3	-344.7	228.5	164.8	63.71	3.586	
9,050.0	8,998.0	9,042.4	8,983.5	33.9	32.7	-85.74	-390.2	-320.7	229.9	166.1	63.79	3.604	
9,100.0	9,040.9	9,089.8	9,022.4	34.0	32.8	-84.78	-390.0	-293.6	231.6	167.8	63.85	3.627	
9,150.0	9,081.4	9,137.0	9,058.8	34.1	32.9	-83.87	-389.8	-263.6	233.5	169.6	63.90	3.654	
9,200.0	9,119.3	9,184.0	9,092.4	34.1	32.9	-83.02	-389.5	-230.8	235.5	171.6	63.94	3.683	
9,250.0	9,154.2	9,230.8	9,123.1	34.2	33.0	-82.24	-389.3	-195.5	237.7	173.7	64.00	3.714	
9,300.0	9,185.8	9,277.3	9,150.8	34.2	33.0	-81.54	-389.0	-158.1	240.0	175.9	64.08	3.746	
9,350.0	9,213.9	9,323.7	9,175.1	34.2	33.0	-80.90	-388.8	-118.6	242.4	178.2	64.19	3.776	

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 #202H
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 #202H	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	
9,400.0	9,238.3	9,370.0	9,196.2	34.2	33.1	-80.34	-388.5	-77.4	244.8	180.5	64.37	3.804	
9,450.0	9,258.8	9,416.1	9,213.8	34.2	33.1	-79.86	-388.2	-34.8	247.3	182.7	64.61	3.828	
9,500.0	9,275.2	9,462.2	9,227.9	34.2	33.2	-79.46	-387.9	9.0	249.8	184.9	64.93	3.848	
9,550.0	9,287.5	9,508.1	9,238.5	34.2	33.4	-79.14	-387.6	53.7	252.3	187.0	65.33	3.862	
9,600.0	9,295.5	9,554.0	9,245.4	34.3	33.6	-78.90	-387.2	99.1	254.8	188.9	65.82	3.871	
9,631.7	9,298.4	9,583.1	9,247.9	34.4	33.8	-78.79	-387.0	128.1	256.3	190.1	66.17	3.873	
9,700.0	9,302.6	9,649.3	9,249.9	34.9	34.2	-78.47	-386.5	194.2	260.0	193.0	66.96	3.883	
9,800.0	9,308.6	9,749.1	9,252.4	35.7	35.1	-77.92	-385.8	294.0	265.4	197.1	68.33	3.884	
9,900.0	9,314.6	9,849.0	9,254.9	36.7	36.0	-77.39	-385.0	393.8	270.7	200.7	70.00	3.867	
10,000.0	9,320.5	9,948.8	9,257.4	37.8	37.1	-76.90	-384.2	493.6	275.8	203.9	71.93	3.834	
10,100.0	9,326.3	10,048.7	9,259.9	39.0	38.3	-76.43	-383.4	593.4	280.8	206.7	74.12	3.789	
10,200.0	9,332.1	10,148.5	9,262.4	40.3	39.7	-76.00	-382.6	693.2	285.7	209.1	76.52	3.733	
10,300.0	9,337.7	10,248.4	9,264.8	41.7	41.1	-75.58	-381.9	793.1	290.3	211.2	79.13	3.669	
10,400.0	9,343.2	10,348.3	9,267.3	43.2	42.6	-75.19	-381.1	892.9	294.9	213.0	81.92	3.600	
10,500.0	9,348.7	10,448.1	9,269.8	44.8	44.3	-74.82	-380.3	992.8	299.3	214.4	84.87	3.526	
10,600.0	9,354.0	10,548.0	9,272.3	46.5	45.9	-74.48	-379.5	1,092.6	303.5	215.5	87.96	3.450	
10,700.0	9,359.3	10,647.9	9,274.8	48.2	47.7	-74.15	-378.7	1,192.5	307.5	216.4	91.18	3.373	
10,800.0	9,364.4	10,747.9	9,277.3	50.0	49.5	-73.83	-378.0	1,292.4	311.4	216.9	94.51	3.295	
10,900.0	9,369.5	10,847.8	9,279.8	51.9	51.4	-73.54	-377.2	1,392.3	315.2	217.2	97.94	3.218	
11,000.0	9,374.5	10,947.7	9,282.3	53.8	53.3	-73.25	-376.4	1,492.1	318.8	217.3	101.46	3.142	
11,100.0	9,379.4	11,047.6	9,284.8	55.7	55.2	-72.99	-375.6	1,592.0	322.2	217.1	105.07	3.066	
11,200.0	9,384.2	11,147.6	9,287.2	57.7	57.2	-72.73	-374.8	1,691.9	325.4	216.7	108.74	2.993	
11,300.0	9,388.9	11,247.5	9,289.7	59.7	59.2	-72.49	-374.1	1,791.9	328.5	216.0	112.48	2.921	
11,400.0	9,393.5	11,347.5	9,292.2	61.7	61.3	-72.26	-373.3	1,891.8	331.4	215.2	116.28	2.850	
11,500.0	9,398.0	11,447.4	9,294.7	63.8	63.4	-72.04	-372.5	1,991.7	334.2	214.1	120.12	2.782	
11,600.0	9,402.5	11,547.4	9,297.2	65.9	65.5	-71.83	-371.7	2,091.6	336.8	212.8	124.02	2.716	
11,700.0	9,406.8	11,647.3	9,299.7	68.0	67.6	-71.63	-370.9	2,191.5	339.2	211.3	127.95	2.651	
11,800.0	9,411.0	11,747.3	9,302.2	70.1	69.8	-71.44	-370.2	2,291.5	341.5	209.5	131.93	2.588	
11,900.0	9,415.2	11,847.3	9,304.7	72.3	72.0	-71.26	-369.4	2,391.4	343.6	207.6	135.93	2.527	
12,000.0	9,419.3	11,947.3	9,307.2	74.5	74.2	-71.09	-368.6	2,491.4	345.5	205.5	139.97	2.468	
12,100.0	9,423.2	12,047.2	9,309.7	76.6	76.4	-70.93	-367.8	2,591.3	347.2	203.2	144.04	2.411	
12,200.0	9,427.1	12,147.2	9,312.1	78.9	78.6	-70.77	-367.0	2,691.3	348.8	200.7	148.14	2.355	
12,300.0	9,430.9	12,247.2	9,314.6	81.1	80.8	-70.63	-366.3	2,791.2	350.2	198.0	152.26	2.300	
12,400.0	9,434.6	12,347.2	9,317.1	83.3	83.1	-70.49	-365.5	2,891.2	351.5	195.1	156.40	2.247	
12,500.0	9,438.2	12,447.2	9,319.6	85.5	85.3	-70.35	-364.7	2,991.1	352.6	192.0	160.56	2.196	
12,600.0	9,441.7	12,547.2	9,322.1	87.8	87.6	-70.23	-363.9	3,091.1	353.5	188.7	164.74	2.146	
12,700.0	9,445.1	12,647.2	9,324.6	90.0	89.9	-70.11	-363.1	3,191.0	354.2	185.3	168.94	2.097	
12,800.0	9,448.5	12,747.2	9,327.1	92.3	92.2	-69.99	-362.4	3,291.0	354.8	181.6	173.16	2.049	
12,892.1	9,451.4	12,839.3	9,329.4	94.4	94.3	-69.90	-361.6	3,383.1	355.1	178.1	177.06	2.006	
12,900.0	9,451.7	12,847.2	9,329.6	94.6	94.4	-69.89	-361.6	3,391.0	355.2	177.8	177.39	2.002	
13,000.0	9,454.9	12,947.2	9,332.1	96.9	96.8	-69.79	-360.8	3,490.9	355.5	173.9	181.64	1.957	
13,100.0	9,458.1	13,047.2	9,334.6	99.2	99.1	-69.68	-360.0	3,590.9	355.8	169.9	185.89	1.914	
13,200.0	9,461.3	13,147.2	9,337.1	101.5	101.4	-69.58	-359.2	3,690.9	356.1	166.0	190.15	1.873	
13,300.0	9,464.5	13,247.2	9,339.6	103.8	103.7	-69.48	-358.4	3,790.8	356.5	162.1	194.42	1.834	
13,400.0	9,467.7	13,347.1	9,342.0	106.1	106.0	-69.38	-357.7	3,890.8	356.8	158.1	198.69	1.796	
13,500.0	9,470.9	13,447.1	9,344.5	108.4	108.4	-69.28	-356.9	3,990.7	357.1	154.2	202.97	1.760	
13,600.0	9,474.1	13,547.1	9,347.0	110.7	110.7	-69.18	-356.1	4,090.7	357.5	150.2	207.25	1.725	
13,700.0	9,477.3	13,647.1	9,349.5	113.1	113.1	-69.08	-355.3	4,190.7	357.8	146.3	211.53	1.691	
13,800.0	9,480.5	13,747.1	9,352.0	115.4	115.4	-68.98	-354.5	4,290.6	358.1	142.3	215.82	1.659	
13,900.0	9,483.6	13,847.1	9,354.5	117.7	117.8	-68.88	-353.8	4,390.6	358.5	138.4	220.11	1.629	
14,000.0	9,486.8	13,947.1	9,357.0	120.1	120.1	-68.78	-353.0	4,490.6	358.8	134.4	224.40	1.599	
14,100.0	9,490.0	14,047.1	9,359.5	122.4	122.5	-68.68	-352.2	4,590.5	359.1	130.4	228.69	1.570	

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 #202H
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 #202H	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
14,200.0	9,493.2	14,147.1	9,362.0	124.8	124.8	-68.58	-351.4	4,690.5	359.5	126.5	232.99	1.543	
14,300.0	9,496.4	14,247.1	9,364.5	127.1	127.2	-68.48	-350.6	4,790.5	359.8	122.5	237.28	1.516	
14,400.0	9,499.6	14,347.1	9,367.0	129.5	129.6	-68.38	-349.9	4,890.4	360.1	118.6	241.58	1.491 Level 3	
14,500.0	9,502.8	14,447.1	9,369.4	131.8	131.9	-68.28	-349.1	4,990.4	360.5	114.6	245.87	1.466 Level 3	
14,600.0	9,506.0	14,547.1	9,371.9	134.2	134.3	-68.18	-348.3	5,090.3	360.8	110.7	250.17	1.442 Level 3	
14,700.0	9,509.2	14,647.1	9,374.4	136.6	136.7	-68.08	-347.5	5,190.3	361.2	106.7	254.46	1.419 Level 3	
14,800.0	9,512.4	14,747.1	9,376.9	138.9	139.1	-67.98	-346.7	5,290.3	361.5	102.8	258.76	1.397 Level 3	
14,900.0	9,515.6	14,847.1	9,379.4	141.3	141.5	-67.89	-346.0	5,390.2	361.9	98.8	263.05	1.376 Level 3	
15,000.0	9,518.8	14,947.1	9,381.9	143.7	143.9	-67.79	-345.2	5,490.2	362.2	94.9	267.34	1.355 Level 3	
15,100.0	9,522.0	15,047.1	9,384.4	146.1	146.2	-67.69	-344.4	5,590.2	362.6	90.9	271.63	1.335 Level 3	
15,200.0	9,525.2	15,147.1	9,386.9	148.4	148.6	-67.59	-343.6	5,690.1	362.9	87.0	275.91	1.315 Level 3	
15,300.0	9,528.4	15,247.1	9,389.4	150.8	151.0	-67.49	-342.8	5,790.1	363.2	83.1	280.20	1.296 Level 3	
15,400.0	9,531.6	15,347.1	9,391.9	153.2	153.4	-67.40	-342.1	5,890.0	363.6	79.1	284.48	1.278 Level 3	
15,500.0	9,534.8	15,447.1	9,394.4	155.6	155.8	-67.30	-341.3	5,990.0	363.9	75.2	288.76	1.260 Level 3	
15,600.0	9,538.0	15,547.1	9,396.8	158.0	158.2	-67.20	-340.5	6,090.0	364.3	71.3	293.04	1.243 Level 2	
15,700.0	9,541.2	15,647.1	9,399.3	160.4	160.6	-67.11	-339.7	6,189.9	364.7	67.3	297.31	1.227 Level 2	
15,800.0	9,544.4	15,747.1	9,401.8	162.8	163.0	-67.01	-338.9	6,289.9	365.0	63.4	301.58	1.210 Level 2	
15,900.0	9,547.6	15,847.1	9,404.3	165.1	165.4	-66.91	-338.1	6,389.9	365.4	59.5	305.85	1.195 Level 2	
16,000.0	9,550.8	15,947.1	9,406.8	167.5	167.8	-66.82	-337.4	6,489.8	365.7	55.6	310.11	1.179 Level 2	
16,100.0	9,554.0	16,047.1	9,409.3	169.9	170.2	-66.72	-336.6	6,589.8	366.1	51.7	314.37	1.164 Level 2	
16,200.0	9,557.2	16,147.1	9,411.8	172.3	172.6	-66.62	-335.8	6,689.8	366.4	47.8	318.63	1.150 Level 2	
16,300.0	9,560.3	16,247.1	9,414.3	174.7	175.0	-66.53	-335.0	6,789.7	366.8	43.9	322.88	1.136 Level 2	
16,400.0	9,563.5	16,347.1	9,416.8	177.1	177.5	-66.43	-334.2	6,889.7	367.2	40.0	327.13	1.122 Level 2	
16,500.0	9,566.7	16,447.1	9,419.3	179.5	179.9	-66.34	-333.5	6,989.6	367.5	36.1	331.38	1.109 Level 2	
16,600.0	9,569.9	16,547.1	9,421.8	181.9	182.3	-66.24	-332.7	7,089.6	367.9	32.3	335.62	1.096 Level 2	
16,700.0	9,573.1	16,647.1	9,424.3	184.3	184.7	-66.15	-331.9	7,189.6	368.2	28.4	339.86	1.084 Level 2	
16,711.6	9,573.5	16,658.7	9,424.5	184.6	185.0	-66.14	-331.8	7,201.2	368.3	27.9	340.35	1.082 Level 2, ES, SF	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	-90.44	110.0	0.0	110.0	109.7	0.26	428.403	
200.0	200.0	200.0	200.0	0.5	0.5	-91.80	110.0	0.0	110.0	109.1	0.98	112.722	
300.0	299.9	300.1	299.9	0.9	0.8	-94.06	110.0	0.0	110.3	108.6	1.70	64.888	
400.0	399.7	400.3	399.7	1.2	1.2	-96.76	110.0	0.0	110.8	108.3	2.42	45.676	
500.0	499.6	500.4	499.6	1.6	1.6	-99.43	110.0	0.0	111.5	108.3	3.15	35.391	
600.0	599.5	600.5	599.5	2.0	1.9	-102.05	110.0	0.0	112.5	108.6	3.88	29.020	
700.0	699.3	700.7	699.3	2.3	2.3	-104.63	110.0	0.0	113.7	109.1	4.60	24.711	
800.0	799.2	800.8	799.2	2.7	2.6	-107.15	110.0	0.0	115.1	109.8	5.32	21.619	
900.0	899.0	901.0	899.0	3.1	3.0	-109.60	110.0	0.0	116.8	110.7	6.05	19.305	
1,000.0	998.9	1,001.1	998.9	3.4	3.4	-111.98	110.0	0.0	118.6	111.9	6.77	17.518	
1,100.0	1,098.8	1,101.2	1,098.8	3.8	3.7	-153.86	110.0	0.0	121.0	113.6	7.49	16.166	
1,200.0	1,198.8	1,201.2	1,198.8	4.1	4.1	150.73	110.0	0.0	124.3	116.1	8.19	15.176	
1,300.0	1,298.6	1,301.4	1,298.6	4.5	4.4	130.29	110.0	0.0	128.3	119.4	8.88	14.452	
1,407.1	1,405.3	1,405.3	1,405.3	4.8	4.8	124.33	110.0	0.0	133.8	124.2	9.60	13.940	
1,500.0	1,497.7	1,502.3	1,497.7	5.1	5.2	127.60	110.0	0.0	139.5	129.2	10.25	13.607	
1,600.0	1,597.2	1,602.8	1,597.2	5.5	5.5	130.83	110.0	0.0	146.1	135.1	10.95	13.345	
1,700.0	1,696.6	1,703.4	1,696.6	5.8	5.9	133.77	110.0	0.0	153.1	141.5	11.65	13.146	
1,800.0	1,796.1	1,803.9	1,796.1	6.1	6.2	136.45	110.0	0.0	160.5	148.2	12.35	12.996	
1,900.0	1,895.5	1,904.5	1,895.5	6.5	6.6	138.88	110.0	0.0	168.2	155.2	13.06	12.883	
2,000.0	1,995.0	2,005.0	1,995.0	6.9	7.0	141.11	110.0	0.0	176.2	162.5	13.77	12.800	
2,100.0	2,094.4	2,105.6	2,094.4	7.2	7.3	143.13	110.0	0.0	184.5	170.0	14.48	12.741	
2,200.0	2,193.9	2,206.1	2,193.9	7.6	7.7	144.98	110.0	0.0	192.9	177.7	15.19	12.699	
2,300.0	2,293.4	2,306.6	2,293.4	8.0	8.0	146.68	110.0	0.0	201.5	185.6	15.90	12.672	
2,400.0	2,392.8	2,407.2	2,392.8	8.4	8.4	148.24	110.0	0.0	210.3	193.7	16.62	12.657	
2,500.0	2,492.3	2,507.7	2,492.3	8.7	8.8	149.67	110.0	0.0	219.3	201.9	17.33	12.650	
2,600.0	2,591.7	2,608.3	2,591.7	9.1	9.1	150.98	110.0	0.0	228.3	210.3	18.05	12.650	
2,700.0	2,691.2	2,708.8	2,691.2	9.5	9.5	152.20	110.0	0.0	237.5	218.7	18.77	12.656	
2,800.0	2,790.6	2,809.4	2,790.6	9.9	9.8	153.33	110.0	0.0	246.8	227.3	19.48	12.666	
2,900.0	2,890.1	2,909.9	2,890.1	10.3	10.2	154.37	110.0	0.0	256.1	235.9	20.20	12.679	
3,000.0	2,989.5	2,989.5	2,989.5	10.7	10.5	155.34	110.0	0.0	265.5	244.7	20.84	12.740	
3,100.0	3,089.0	3,098.4	3,098.4	11.0	10.9	156.33	108.3	-0.4	273.5	251.9	21.58	12.675	
3,200.0	3,188.5	3,208.9	3,208.7	11.4	11.2	157.28	102.6	-1.7	277.7	255.5	22.28	12.468	
3,300.0	3,287.9	3,319.5	3,318.9	11.8	11.6	158.24	92.7	-4.1	278.2	255.2	22.94	12.124	
3,400.0	3,387.4	3,430.0	3,428.4	12.2	11.9	159.23	78.6	-7.4	274.8	251.2	23.58	11.655	
3,500.0	3,486.8	3,540.1	3,536.9	12.6	12.3	160.30	60.6	-11.7	267.7	243.5	24.18	11.071	
3,600.0	3,586.3	3,649.4	3,643.8	13.0	12.7	161.50	38.7	-16.9	256.9	232.1	24.74	10.380	
3,700.0	3,685.7	3,757.5	3,748.7	13.4	13.1	162.91	13.1	-23.0	242.4	217.1	25.28	9.590	
3,800.0	3,785.2	3,864.3	3,851.3	13.8	13.5	164.63	-15.9	-29.9	224.4	198.6	25.77	8.706	
3,900.0	3,884.7	3,969.5	3,951.1	14.1	13.9	166.83	-48.1	-37.6	203.0	176.7	26.24	7.735	
4,000.0	3,984.1	4,072.8	4,047.9	14.5	14.4	169.80	-83.2	-45.9	178.5	151.8	26.70	6.684	
4,100.0	4,083.6	4,174.0	4,141.4	14.9	14.8	174.07	-120.8	-54.9	151.2	124.0	27.18	5.562	
4,200.0	4,183.0	4,272.9	4,231.5	15.3	15.3	-179.27	-160.6	-64.4	121.8	94.0	27.77	4.386	
4,300.0	4,282.5	4,367.8	4,316.7	15.7	15.8	-168.17	-201.2	-74.0	92.5	63.6	28.89	3.202	
4,400.0	4,381.9	4,461.3	4,400.6	16.1	16.3	-149.14	-241.3	-83.6	69.0	38.2	30.86	2.237	
4,499.7	4,481.1	4,554.4	4,484.2	16.5	16.8	-119.89	-281.3	-93.1	59.2	26.1	33.15	1.786 CC	
4,500.0	4,481.4	4,554.7	4,484.4	16.5	16.8	-119.78	-281.5	-93.1	59.2	26.1	33.15	1.786 ES, SF	
4,600.0	4,580.9	4,648.2	4,568.3	16.9	17.3	-90.48	-321.6	-102.7	69.1	35.5	33.60	2.058	
4,700.0	4,680.3	4,741.6	4,652.1	17.3	17.9	-71.51	-361.7	-112.2	92.7	59.4	33.25	2.788	
4,800.0	4,779.8	4,835.1	4,736.0	17.7	18.5	-60.54	-401.8	-121.8	122.2	89.0	33.23	3.677	
4,900.0	4,879.2	4,928.5	4,819.8	18.1	19.0	-53.86	-442.0	-131.3	154.3	120.8	33.52	4.604	
5,000.0	4,978.7	5,022.0	4,903.7	18.5	19.6	-49.47	-482.1	-140.9	187.7	153.7	33.97	5.524	

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 #202H
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 #202H	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	5,078.1	5,115.4	4,987.5	18.8	20.2	-46.40	-522.2	-150.4	221.7	187.2	34.53	6.422	
5,200.0	5,177.6	5,208.9	5,071.4	19.2	20.8	-44.15	-562.4	-160.0	256.2	221.1	35.14	7.292	
5,300.0	5,277.1	5,302.3	5,155.2	19.6	21.5	-42.42	-602.5	-169.5	291.0	255.2	35.79	8.131	
5,400.0	5,376.5	5,404.2	5,239.1	20.0	22.1	-41.07	-642.6	-179.1	325.9	289.4	36.49	8.930	
5,500.0	5,476.0	5,489.2	5,322.9	20.4	22.7	-39.98	-682.8	-188.7	361.0	323.8	37.15	9.717	
5,600.0	5,575.4	5,582.7	5,406.8	20.8	23.4	-39.07	-722.9	-198.2	396.1	358.3	37.85	10.466	
5,700.0	5,674.9	5,676.1	5,490.6	21.2	24.0	-38.32	-763.0	-207.8	431.4	392.8	38.56	11.186	
5,800.0	5,774.3	5,769.6	5,574.5	21.6	24.7	-37.68	-803.2	-217.3	466.6	427.4	39.28	11.879	
5,900.0	5,873.8	5,863.0	5,658.3	22.0	25.3	-37.13	-843.3	-226.9	502.0	462.0	40.01	12.546	
6,000.0	5,973.2	5,956.5	5,742.2	22.4	26.0	-36.65	-883.4	-236.4	537.3	496.6	40.75	13.188	
6,100.0	6,072.7	6,049.9	5,826.0	22.8	26.6	-36.23	-923.5	-246.0	572.7	531.2	41.48	13.806	
6,200.0	6,172.2	6,143.4	5,909.9	23.2	27.3	-35.86	-963.7	-255.5	608.1	565.9	42.23	14.402	
6,300.0	6,271.6	6,236.8	5,993.8	23.6	28.0	-35.53	-1,003.8	-265.1	643.6	600.6	42.97	14.976	
6,400.0	6,371.1	6,330.3	6,077.6	24.0	28.7	-35.24	-1,043.9	-274.6	679.0	635.3	43.72	15.531	
6,500.0	6,470.5	6,423.7	6,161.5	24.4	29.4	-34.97	-1,084.1	-284.2	714.5	670.0	44.47	16.065	
6,600.0	6,570.0	6,517.2	6,245.3	24.8	30.0	-34.73	-1,124.2	-293.7	750.0	704.8	45.23	16.581	
6,700.0	6,669.4	6,610.6	6,329.2	25.2	30.7	-34.51	-1,164.3	-303.3	785.5	739.5	45.99	17.080	
6,800.0	6,768.9	6,704.1	6,413.0	25.6	31.4	-34.31	-1,204.5	-312.8	821.0	774.2	46.75	17.562	
6,900.0	6,868.4	6,803.1	6,501.9	26.0	32.2	-34.12	-1,246.9	-322.9	856.4	808.8	47.62	17.985	
7,000.0	6,967.8	6,924.6	6,612.1	26.3	33.0	-33.94	-1,296.7	-334.8	889.9	841.0	48.90	18.199	
7,100.0	7,067.3	7,048.7	6,726.3	26.7	33.9	-33.81	-1,344.0	-346.0	920.3	870.2	50.15	18.351	
7,200.0	7,166.7	7,175.4	6,844.4	27.1	34.7	-33.75	-1,388.5	-356.6	947.7	896.3	51.37	18.447	
7,300.0	7,266.2	7,304.3	6,966.0	27.5	35.5	-33.73	-1,429.9	-366.5	971.9	919.3	52.56	18.491	
7,400.0	7,365.6	7,435.2	7,091.0	27.9	36.3	-33.76	-1,467.8	-375.5	992.8	939.1	53.70	18.489	
7,500.0	7,465.1	7,567.8	7,218.9	28.3	37.0	-33.84	-1,501.9	-383.6	1,010.4	955.6	54.78	18.445	
7,600.0	7,564.6	7,701.9	7,349.4	28.7	37.7	-33.96	-1,532.0	-390.8	1,024.6	968.8	55.81	18.361	
7,700.0	7,664.0	7,837.1	7,482.0	29.1	38.4	-34.13	-1,557.9	-397.0	1,035.4	978.6	56.76	18.240	
7,800.0	7,763.5	7,973.2	7,616.2	29.5	39.0	-34.35	-1,579.2	-402.0	1,042.7	985.1	57.65	18.085	
7,900.0	7,862.9	8,109.7	7,751.6	29.9	39.5	-34.61	-1,596.0	-406.0	1,046.5	988.1	58.47	17.898	
8,000.0	7,962.4	8,246.4	7,887.7	30.3	40.0	-34.93	-1,608.0	-408.9	1,046.9	987.6	59.21	17.679	
8,100.0	8,061.8	8,382.8	8,023.9	30.7	40.4	-35.29	-1,615.3	-410.6	1,043.7	983.8	59.88	17.430	
8,200.0	8,161.3	8,518.6	8,159.8	31.1	40.8	-35.72	-1,617.9	-411.2	1,037.1	976.6	60.47	17.151	
8,300.0	8,260.8	8,619.6	8,260.8	31.5	41.0	-36.06	-1,617.9	-411.2	1,028.7	967.5	61.18	16.814	
8,400.0	8,360.2	8,719.1	8,360.2	31.9	41.2	-36.40	-1,617.9	-411.2	1,020.2	958.4	61.90	16.482	
8,468.4	8,428.3	8,787.1	8,428.3	32.2	41.4	-36.64	-1,617.9	-411.2	1,014.5	952.1	62.39	16.260	
8,500.0	8,459.7	8,818.5	8,459.7	32.3	41.5	-36.72	-1,617.9	-411.2	1,012.0	949.4	62.62	16.161	
8,600.0	8,559.4	8,918.3	8,559.4	32.7	41.7	-36.90	-1,617.9	-411.2	1,005.9	942.6	63.33	15.885	
8,700.0	8,659.3	9,018.2	8,659.3	33.0	42.0	-37.00	-1,617.9	-411.2	1,002.7	938.7	64.01	15.664	
8,743.1	8,702.4	9,054.5	8,695.6	33.2	42.1	-37.06	-1,618.0	-410.4	1,002.2	937.9	64.33	15.581	
8,767.2	8,726.5	9,074.2	8,715.2	33.2	42.1	179.93	-1,618.1	-409.1	1,002.4	937.9	64.51	15.539	
8,800.0	8,759.3	9,100.8	8,741.7	33.3	42.2	87.37	-1,618.5	-406.2	1,002.8	938.1	64.75	15.488	
8,850.0	8,809.0	9,141.2	8,781.5	33.5	42.3	87.13	-1,619.4	-399.5	1,003.7	938.6	65.08	15.423	
8,900.0	8,858.1	9,181.4	8,820.6	33.6	42.3	86.90	-1,620.6	-390.0	1,004.8	939.5	65.38	15.370	
8,950.0	8,906.2	9,221.6	8,858.9	33.7	42.4	86.69	-1,622.2	-377.9	1,006.3	940.6	65.64	15.330	
9,000.0	8,952.9	9,261.7	8,896.1	33.8	42.5	86.49	-1,624.1	-363.2	1,007.9	942.0	65.87	15.301	
9,050.0	8,998.0	9,301.8	8,932.2	33.9	42.6	86.32	-1,626.3	-345.9	1,009.8	943.7	66.08	15.282	
9,100.0	9,040.9	9,341.9	8,967.0	34.0	42.6	86.16	-1,628.8	-326.2	1,011.8	945.6	66.26	15.271	
9,150.0	9,081.4	9,382.0	9,000.4	34.1	42.7	86.03	-1,631.7	-304.1	1,014.1	947.7	66.42	15.267	
9,200.0	9,119.3	9,422.2	9,032.2	34.1	42.8	85.91	-1,634.8	-279.6	1,016.5	950.0	66.59	15.266	
9,250.0	9,154.2	9,462.6	9,062.2	34.2	42.8	85.82	-1,638.3	-253.0	1,019.2	952.4	66.76	15.266	
9,300.0	9,185.8	9,503.0	9,090.4	34.2	42.9	85.75	-1,642.0	-224.2	1,021.9	955.0	66.95	15.264	
9,350.0	9,213.9	9,543.7	9,116.6	34.2	42.9	85.71	-1,646.0	-193.4	1,024.9	957.7	67.17	15.258	

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 #202H
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 #202H	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	
9,400.0	9,238.3	9,584.6	9,140.6	34.2	42.9	85.69	-1,650.2	-160.6	1,027.9	960.5	67.43	15.245	
9,450.0	9,258.8	9,625.8	9,162.4	34.2	43.0	85.70	-1,654.7	-125.9	1,031.1	963.4	67.73	15.224	
9,500.0	9,275.2	9,667.3	9,181.7	34.2	43.0	85.73	-1,659.4	-89.5	1,034.4	966.3	68.08	15.193	
9,550.0	9,287.5	9,709.1	9,198.5	34.2	43.0	85.78	-1,664.3	-51.5	1,037.8	969.3	68.49	15.151	
9,600.0	9,295.5	9,751.4	9,212.6	34.3	43.1	85.86	-1,669.4	-11.9	1,041.2	972.3	68.96	15.100	
9,631.7	9,298.4	9,778.5	9,220.0	34.4	43.1	85.93	-1,672.7	13.9	1,043.5	974.2	69.28	15.060	
9,700.0	9,302.6	9,838.0	9,232.0	34.9	43.1	86.41	-1,680.1	71.7	1,048.7	978.6	70.09	14.963	
9,800.0	9,308.6	9,959.0	9,242.5	35.7	43.3	86.61	-1,694.6	191.3	1,056.5	984.9	71.69	14.737	
9,900.0	9,314.6	10,109.6	9,251.3	36.7	43.6	86.62	-1,706.2	341.2	1,060.5	986.7	73.78	14.374	
10,000.0	9,320.5	10,260.4	9,257.3	37.8	44.0	86.47	-1,710.5	491.8	1,059.7	983.5	76.21	13.906	
10,100.0	9,326.3	10,373.4	9,260.2	39.0	44.5	86.26	-1,709.8	604.8	1,055.7	977.0	78.65	13.422	
10,200.0	9,332.1	10,473.3	9,262.8	40.3	45.1	86.08	-1,708.9	704.6	1,051.6	970.4	81.25	12.943	
10,300.0	9,337.7	10,573.1	9,265.3	41.7	45.9	85.91	-1,708.1	804.4	1,047.7	963.7	84.05	12.466	
10,400.0	9,343.2	10,673.0	9,267.8	43.2	46.9	85.73	-1,707.2	904.2	1,043.9	956.9	87.03	11.995	
10,500.0	9,348.7	10,772.9	9,270.4	44.8	48.2	85.56	-1,706.3	1,004.1	1,040.3	950.2	90.17	11.537	
10,600.0	9,354.0	10,872.8	9,272.9	46.5	49.5	85.40	-1,705.4	1,104.0	1,036.9	943.4	93.47	11.094	
10,700.0	9,359.3	10,972.7	9,275.4	48.2	51.0	85.24	-1,704.6	1,203.8	1,033.6	936.7	96.89	10.667	
10,800.0	9,364.4	11,072.6	9,278.0	50.0	52.6	85.09	-1,703.7	1,303.7	1,030.4	930.0	100.44	10.260	
10,900.0	9,369.5	11,172.5	9,280.5	51.9	54.3	84.94	-1,702.8	1,403.6	1,027.4	923.4	104.08	9.871	
11,000.0	9,374.5	11,272.4	9,283.0	53.8	56.1	84.79	-1,702.0	1,503.5	1,024.6	916.8	107.83	9.502	
11,100.0	9,379.4	11,372.4	9,285.6	55.7	57.9	84.65	-1,701.1	1,603.3	1,021.9	910.2	111.66	9.152	
11,200.0	9,384.2	11,472.3	9,288.1	57.7	59.8	84.51	-1,700.2	1,703.2	1,019.3	903.8	115.56	8.821	
11,300.0	9,388.9	11,572.2	9,290.6	59.7	61.7	84.38	-1,699.3	1,803.2	1,016.9	897.4	119.54	8.507	
11,400.0	9,393.5	11,672.2	9,293.1	61.7	63.6	84.26	-1,698.5	1,903.1	1,014.6	891.1	123.57	8.211	
11,500.0	9,398.0	11,772.1	9,295.7	63.8	65.6	84.14	-1,697.6	2,003.0	1,012.5	884.9	127.66	7.931	
11,600.0	9,402.5	11,872.1	9,298.2	65.9	67.7	84.02	-1,696.7	2,102.9	1,010.5	878.7	131.81	7.667	
11,700.0	9,406.8	11,972.0	9,300.7	68.0	69.7	83.91	-1,695.9	2,202.8	1,008.7	872.7	136.00	7.417	
11,800.0	9,411.0	12,072.0	9,303.3	70.1	71.8	83.81	-1,695.0	2,302.8	1,007.0	866.8	140.23	7.181	
11,900.0	9,415.2	12,172.0	9,305.8	72.3	73.9	83.71	-1,694.1	2,402.7	1,005.5	861.0	144.49	6.958	
12,000.0	9,419.3	12,272.0	9,308.3	74.5	76.0	83.62	-1,693.2	2,502.6	1,004.1	855.3	148.80	6.748	
12,100.0	9,423.2	12,371.9	9,310.9	76.6	78.2	83.53	-1,692.4	2,602.6	1,002.8	849.7	153.13	6.548	
12,200.0	9,427.1	12,471.9	9,313.4	78.9	80.3	83.45	-1,691.5	2,702.5	1,001.7	844.2	157.50	6.360	
12,300.0	9,430.9	12,571.9	9,315.9	81.1	82.5	83.38	-1,690.6	2,802.5	1,000.7	838.8	161.89	6.181	
12,400.0	9,434.6	12,671.9	9,318.5	83.3	84.7	83.31	-1,689.7	2,902.4	999.8	833.5	166.31	6.012	
12,500.0	9,438.2	12,771.9	9,321.0	85.5	86.9	83.25	-1,688.9	3,002.4	999.1	828.4	170.75	5.851	
12,600.0	9,441.7	12,871.9	9,323.5	87.8	89.2	83.19	-1,688.0	3,102.3	998.5	823.3	175.21	5.699	
12,700.0	9,445.1	12,971.9	9,326.1	90.0	91.4	83.14	-1,687.1	3,202.3	998.1	818.4	179.69	5.555	
12,800.0	9,448.5	13,071.9	9,328.6	92.3	93.6	83.09	-1,686.3	3,302.3	997.8	813.6	184.19	5.417	
12,892.1	9,451.4	13,164.0	9,331.0	94.4	95.7	83.06	-1,685.5	3,394.3	997.7	809.3	188.35	5.297	
12,900.0	9,451.7	13,171.9	9,331.2	94.6	95.9	83.06	-1,685.4	3,402.2	997.7	809.0	188.71	5.287	
13,000.0	9,454.9	13,271.9	9,333.7	96.9	98.2	83.02	-1,684.5	3,502.2	997.6	804.3	193.24	5.162	
13,100.0	9,458.1	13,371.9	9,336.2	99.2	100.4	82.98	-1,683.6	3,602.1	997.5	799.7	197.79	5.043	
13,200.0	9,461.3	13,471.9	9,338.8	101.5	102.7	82.94	-1,682.8	3,702.1	997.4	795.0	202.36	4.929	
13,300.0	9,464.5	13,571.9	9,341.3	103.8	105.0	82.90	-1,681.9	3,802.1	997.3	790.4	206.93	4.819	
13,400.0	9,467.7	13,671.9	9,343.8	106.1	107.3	82.86	-1,681.0	3,902.0	997.2	785.7	211.52	4.714	
13,500.0	9,470.9	13,771.9	9,346.4	108.4	109.6	82.82	-1,680.2	4,002.0	997.1	781.0	216.11	4.614	
13,600.0	9,474.1	13,871.9	9,348.9	110.7	111.9	82.78	-1,679.3	4,102.0	997.0	776.3	220.72	4.517	
13,700.0	9,477.3	13,971.9	9,351.4	113.1	114.2	82.74	-1,678.4	4,201.9	996.9	771.6	225.34	4.424	
13,800.0	9,480.5	14,071.9	9,354.0	115.4	116.6	82.70	-1,677.5	4,301.9	996.8	766.9	229.96	4.335	
13,900.0	9,483.6	14,171.8	9,356.5	117.7	118.9	82.67	-1,676.7	4,401.8	996.7	762.1	234.60	4.249	
14,000.0	9,486.8	14,271.8	9,359.0	120.1	121.2	82.63	-1,675.8	4,501.8	996.6	757.4	239.24	4.166	
14,100.0	9,490.0	14,371.8	9,361.6	122.4	123.6	82.59	-1,674.9	4,601.8	996.5	752.7	243.89	4.086	

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 #202H
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 #202H	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	
14,200.0	9,493.2	14,471.8	9,364.1	124.8	125.9	82.55	-1,674.0	4,701.7	996.5	747.9	248.54	4.009	
14,300.0	9,496.4	14,571.8	9,366.6	127.1	128.2	82.51	-1,673.2	4,801.7	996.4	743.2	253.20	3.935	
14,400.0	9,499.6	14,671.8	9,369.2	129.5	130.6	82.47	-1,672.3	4,901.7	996.3	738.4	257.87	3.863	
14,500.0	9,502.8	14,771.8	9,371.7	131.8	132.9	82.43	-1,671.4	5,001.6	996.2	733.6	262.54	3.794	
14,600.0	9,506.0	14,871.8	9,374.2	134.2	135.3	82.39	-1,670.6	5,101.6	996.1	728.9	267.22	3.728	
14,700.0	9,509.2	14,971.8	9,376.8	136.6	137.7	82.35	-1,669.7	5,201.5	996.0	724.1	271.90	3.663	
14,800.0	9,512.4	15,071.8	9,379.3	138.9	140.0	82.31	-1,668.8	5,301.5	995.9	719.3	276.59	3.601	
14,900.0	9,515.6	15,171.8	9,381.8	141.3	142.4	82.27	-1,667.9	5,401.5	995.8	714.6	281.28	3.540	
15,000.0	9,518.8	15,271.8	9,384.4	143.7	144.8	82.24	-1,667.1	5,501.4	995.7	709.8	285.98	3.482	
15,100.0	9,522.0	15,371.8	9,386.9	146.1	147.1	82.20	-1,666.2	5,601.4	995.7	705.0	290.68	3.425	
15,200.0	9,525.2	15,471.8	9,389.4	148.4	149.5	82.16	-1,665.3	5,701.3	995.6	700.2	295.38	3.371	
15,300.0	9,528.4	15,571.8	9,392.0	150.8	151.9	82.12	-1,664.5	5,801.3	995.5	695.4	300.08	3.317	
15,400.0	9,531.6	15,671.8	9,394.5	153.2	154.3	82.08	-1,663.6	5,901.3	995.4	690.6	304.79	3.266	
15,500.0	9,534.8	15,771.8	9,397.0	155.6	156.6	82.04	-1,662.7	6,001.2	995.3	685.8	309.50	3.216	
15,600.0	9,538.0	15,871.8	9,399.6	158.0	159.0	82.00	-1,661.8	6,101.2	995.2	681.0	314.22	3.167	
15,700.0	9,541.2	15,971.8	9,402.1	160.4	161.4	81.96	-1,661.0	6,201.2	995.2	676.2	318.94	3.120	
15,800.0	9,544.4	16,071.8	9,404.6	162.8	163.8	81.92	-1,660.1	6,301.1	995.1	671.4	323.66	3.074	
15,900.0	9,547.6	16,171.8	9,407.2	165.1	166.2	81.88	-1,659.2	6,401.1	995.0	666.6	328.38	3.030	
16,000.0	9,550.8	16,271.8	9,409.7	167.5	168.6	81.84	-1,658.3	6,501.0	994.9	661.8	333.10	2.987	
16,100.0	9,554.0	16,371.8	9,412.2	169.9	171.0	81.80	-1,657.5	6,601.0	994.8	657.0	337.83	2.945	
16,200.0	9,557.2	16,471.8	9,414.8	172.3	173.4	81.77	-1,656.6	6,701.0	994.7	652.2	342.55	2.904	
16,300.0	9,560.3	16,571.8	9,417.3	174.7	175.8	81.73	-1,655.7	6,800.9	994.7	647.4	347.28	2.864	
16,400.0	9,563.5	16,671.8	9,419.8	177.1	178.2	81.69	-1,654.9	6,900.9	994.6	642.6	352.01	2.825	
16,500.0	9,566.7	16,771.8	9,422.4	179.5	180.5	81.65	-1,654.0	7,000.8	994.5	637.8	356.75	2.788	
16,600.0	9,569.9	16,871.8	9,424.9	181.9	182.9	81.61	-1,653.1	7,100.8	994.4	632.9	361.48	2.751	
16,700.0	9,573.1	16,971.8	9,427.4	184.3	185.4	81.57	-1,652.2	7,200.8	994.3	628.1	366.21	2.715	
16,711.6	9,573.5	16,983.4	9,427.7	184.6	185.6	81.56	-1,652.1	7,212.4	994.3	627.6	366.76	2.711	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	-89.99	0.0	-30.0	30.0				
100.0	100.0	100.4	100.4	0.1	0.1	-178.81	0.6	-29.4	30.3	30.0	0.26	116.529	
200.0	200.0	200.7	200.7	0.5	0.5	-175.41	2.5	-27.5	31.1	30.1	0.98	31.752	
300.0	299.9	301.0	300.9	0.9	0.9	-170.16	5.6	-24.4	32.8	31.1	1.71	19.210	
400.0	399.7	400.9	400.6	1.2	1.2	-164.63	9.3	-20.7	35.1	32.6	2.43	14.441	
500.0	499.6	500.8	500.4	1.6	1.6	-159.81	13.0	-17.0	37.7	34.5	3.15	11.943	
600.0	599.5	600.7	600.2	2.0	2.0	-155.64	16.7	-13.3	40.5	36.6	3.88	10.433	
700.0	699.3	700.7	700.0	2.3	2.3	-152.03	20.4	-9.6	43.5	38.9	4.61	9.437	
800.0	799.2	800.6	799.8	2.7	2.7	-148.90	24.1	-5.9	46.6	41.3	5.34	8.740	
900.0	899.0	900.5	899.5	3.1	3.1	-146.17	27.8	-2.2	49.9	43.9	6.07	8.229	
1,000.0	998.9	1,000.4	999.3	3.4	3.4	-143.78	31.5	1.5	53.3	46.5	6.80	7.842	
1,100.0	1,098.8	1,100.3	1,099.1	3.8	3.8	179.63	35.2	5.2	56.3	48.8	7.53	7.484	
1,200.0	1,198.8	1,200.0	1,198.7	4.1	4.2	130.81	38.9	8.9	59.0	50.8	8.24	7.160	
1,300.0	1,298.6	1,299.5	1,298.0	4.5	4.5	117.95	42.5	12.5	62.4	53.5	8.94	6.983	
1,407.1	1,405.3	1,404.1	1,402.5	4.8	4.9	119.57	47.1	15.2	69.6	60.0	9.67	7.202	
1,500.0	1,497.7	1,494.6	1,492.8	5.1	5.2	127.13	52.2	15.4	79.8	69.6	10.29	7.761	
1,600.0	1,597.2	1,591.8	1,589.8	5.5	5.6	132.16	58.8	13.6	93.6	82.6	10.95	8.547	
1,700.0	1,696.6	1,688.9	1,686.5	5.8	5.9	134.83	66.7	9.7	109.3	97.7	11.60	9.422	
1,800.0	1,796.1	1,786.7	1,783.7	6.1	6.3	136.07	75.5	3.9	126.5	114.2	12.27	10.306	
1,900.0	1,895.5	1,885.1	1,881.5	6.5	6.6	136.95	84.6	-2.1	143.8	130.8	12.95	11.099	
2,000.0	1,995.0	1,983.6	1,979.4	6.9	7.0	137.64	93.6	-8.1	161.1	147.5	13.64	11.810	
2,100.0	2,094.4	2,082.1	2,077.3	7.2	7.3	138.20	102.7	-14.1	178.5	164.1	14.34	12.449	
2,200.0	2,193.9	2,180.5	2,175.1	7.6	7.7	138.66	111.7	-20.1	195.8	180.8	15.03	13.026	
2,300.0	2,293.4	2,279.0	2,273.0	8.0	8.1	139.04	120.8	-26.1	213.2	197.5	15.74	13.548	
2,400.0	2,392.8	2,377.5	2,370.9	8.4	8.4	139.37	129.8	-32.1	230.6	214.2	16.44	14.024	
2,500.0	2,492.3	2,475.9	2,468.7	8.7	8.8	139.65	139.9	-38.1	248.0	230.8	17.15	14.458	
2,600.0	2,591.7	2,574.4	2,566.6	9.1	9.2	139.89	147.9	-44.1	265.4	247.5	17.86	14.855	
2,700.0	2,691.2	2,672.9	2,664.5	9.5	9.5	140.11	157.0	-50.1	282.8	264.2	18.58	15.220	
2,800.0	2,790.6	2,771.4	2,762.3	9.9	9.9	140.30	166.0	-56.1	300.2	280.9	19.30	15.557	
2,900.0	2,890.1	2,869.8	2,860.2	10.3	10.3	140.46	175.1	-62.1	317.6	297.6	20.01	15.868	
3,000.0	2,989.5	2,968.3	2,958.1	10.7	10.7	140.61	184.1	-68.1	335.0	314.3	20.74	16.156	
3,100.0	3,089.0	3,066.8	3,056.0	11.0	11.0	140.75	193.2	-74.1	352.4	331.0	21.46	16.424	
3,200.0	3,188.5	3,165.2	3,153.8	11.4	11.4	140.87	202.2	-80.1	369.8	347.7	22.18	16.674	
3,300.0	3,287.9	3,263.7	3,251.7	11.8	11.8	140.98	211.3	-86.1	387.2	364.3	22.91	16.906	
3,400.0	3,387.4	3,362.2	3,349.6	12.2	12.2	141.09	220.3	-92.1	404.7	381.0	23.63	17.124	
3,500.0	3,486.8	3,460.6	3,447.4	12.6	12.6	141.18	229.4	-98.1	422.1	397.7	24.36	17.328	
3,600.0	3,586.3	3,559.1	3,545.3	13.0	13.0	141.27	238.4	-104.1	439.5	414.4	25.09	17.520	
3,700.0	3,685.7	3,657.6	3,643.2	13.4	13.3	141.35	247.5	-110.1	456.9	431.1	25.81	17.700	
3,800.0	3,785.2	3,756.1	3,741.0	13.8	13.7	141.42	256.5	-116.1	474.3	447.8	26.54	17.870	
3,900.0	3,884.7	3,854.5	3,838.9	14.1	14.1	141.49	265.6	-122.1	491.8	464.5	27.27	18.030	
4,000.0	3,984.1	3,953.0	3,936.8	14.5	14.5	141.55	274.6	-128.1	509.2	481.2	28.01	18.181	
4,100.0	4,083.6	4,051.5	4,034.6	14.9	14.9	141.61	283.7	-134.1	526.6	497.9	28.74	18.325	
4,200.0	4,183.0	4,149.9	4,132.5	15.3	15.3	141.67	292.7	-140.1	544.0	514.6	29.47	18.460	
4,300.0	4,282.5	4,248.4	4,230.4	15.7	15.6	141.72	301.8	-146.1	561.4	531.2	30.20	18.589	
4,400.0	4,381.9	4,346.9	4,328.2	16.1	16.0	141.77	310.8	-152.1	578.9	547.9	30.94	18.712	
4,500.0	4,481.4	4,445.3	4,426.1	16.5	16.4	141.82	319.9	-158.1	596.3	564.6	31.67	18.828	
4,600.0	4,580.9	4,543.8	4,524.0	16.9	16.8	141.86	328.9	-164.1	613.7	581.3	32.40	18.939	
4,700.0	4,680.3	4,642.3	4,621.9	17.3	17.2	141.90	338.0	-170.1	631.1	598.0	33.14	19.045	
4,800.0	4,779.8	4,740.7	4,719.7	17.7	17.6	141.94	347.0	-176.1	648.6	614.7	33.87	19.146	
4,900.0	4,879.2	4,839.2	4,817.6	18.1	18.0	141.98	356.1	-182.1	666.0	631.4	34.61	19.243	
5,000.0	4,978.7	4,937.7	4,915.5	18.5	18.3	142.01	365.1	-188.1	683.4	648.1	35.35	19.335	
5,100.0	5,078.1	5,036.2	5,013.3	18.8	18.7	142.05	374.2	-194.1	700.8	664.8	36.08	19.424	

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 #202H
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 #202H	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 #201H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,200.0	5,177.6	5,134.6	5,111.2	19.2	19.1	142.08	383.2	-200.1	718.3	681.4	36.82	19.508		
5,300.0	5,277.1	5,233.1	5,209.1	19.6	19.5	142.11	392.3	-206.1	735.7	698.1	37.55	19.590		
5,400.0	5,376.5	5,331.6	5,306.9	20.0	19.9	142.14	401.3	-212.1	753.1	714.8	38.29	19.668		
5,500.0	5,476.0	5,430.0	5,404.8	20.4	20.3	142.17	410.4	-218.1	770.5	731.5	39.03	19.743		
5,600.0	5,575.4	5,528.5	5,502.7	20.8	20.7	142.19	419.4	-224.1	788.0	748.2	39.77	19.815		
5,700.0	5,674.9	5,627.0	5,600.5	21.2	21.1	142.22	428.5	-230.1	805.4	764.9	40.50	19.884		
5,800.0	5,774.3	5,725.4	5,698.4	21.6	21.4	142.24	437.5	-236.1	822.8	781.6	41.24	19.951		
5,900.0	5,873.8	5,823.9	5,796.3	22.0	21.8	142.27	446.6	-242.1	840.2	798.3	41.98	20.015		
6,000.0	5,973.2	5,922.4	5,894.1	22.4	22.2	142.29	455.6	-248.1	857.7	815.0	42.72	20.077		
6,100.0	6,072.7	6,020.8	5,992.0	22.8	22.6	142.31	464.7	-254.1	875.1	831.6	43.46	20.137		
6,200.0	6,172.2	6,119.3	6,089.9	23.2	23.0	142.33	473.7	-260.1	892.5	848.3	44.20	20.194		
6,300.0	6,271.6	6,217.8	6,187.8	23.6	23.4	142.35	482.8	-266.1	910.0	865.0	44.94	20.250		
6,400.0	6,371.1	6,316.3	6,285.6	24.0	23.8	142.37	491.8	-272.1	927.4	881.7	45.68	20.304		
6,500.0	6,470.5	6,414.7	6,383.5	24.4	24.2	142.39	500.9	-278.1	944.8	898.4	46.42	20.356		
6,600.0	6,570.0	6,513.2	6,481.4	24.8	24.5	142.40	509.9	-284.1	962.2	915.1	47.15	20.406		
6,700.0	6,669.4	6,611.7	6,579.2	25.2	24.9	142.42	519.0	-290.1	979.7	931.8	47.89	20.455		
6,800.0	6,768.9	6,710.1	6,677.1	25.6	25.3	142.44	528.0	-296.0	997.1	948.5	48.63	20.502		
6,900.0	6,868.4	6,808.6	6,775.0	26.0	25.7	142.45	537.1	-302.0	1,014.5	965.1	49.37	20.548		
7,000.0	6,967.8	6,907.1	6,872.8	26.3	26.1	142.47	546.1	-308.0	1,032.0	981.8	50.11	20.592		
7,100.0	7,067.3	7,005.5	6,970.7	26.7	26.5	142.48	555.2	-314.0	1,049.4	998.5	50.86	20.635		
7,200.0	7,166.7	7,104.0	7,068.6	27.1	26.9	142.50	564.2	-320.0	1,066.8	1,015.2	51.60	20.676		
7,300.0	7,266.2	7,202.5	7,166.4	27.5	27.3	142.51	573.3	-326.0	1,084.2	1,031.9	52.34	20.717		
7,400.0	7,365.6	7,300.9	7,264.3	27.9	27.7	142.52	582.3	-332.0	1,101.7	1,048.6	53.08	20.756		
7,500.0	7,465.1	7,400.6	7,362.2	28.3	28.0	142.54	591.4	-338.0	1,119.1	1,065.3	53.82	20.792		
7,600.0	7,564.6	7,497.9	7,460.0	28.7	28.4	142.55	600.4	-344.0	1,136.5	1,082.0	54.56	20.831		
7,700.0	7,664.0	7,603.6	7,557.9	29.1	28.8	142.56	609.5	-350.0	1,153.9	1,098.6	55.33	20.857		
7,800.0	7,763.5	7,705.2	7,655.8	29.5	29.3	142.57	618.5	-356.0	1,171.4	1,115.3	56.08	20.888		
7,900.0	7,862.9	7,806.7	7,753.7	29.9	29.7	142.59	627.6	-362.0	1,188.8	1,132.0	56.83	20.918		
8,000.0	7,962.4	7,908.2	7,851.5	30.3	30.1	142.60	636.6	-368.0	1,206.2	1,148.6	57.59	20.947		
8,100.0	8,061.8	8,009.8	7,949.4	30.7	30.5	142.61	645.7	-374.0	1,223.7	1,165.3	58.34	20.975		
8,200.0	8,161.3	8,088.7	8,047.3	31.1	30.8	142.62	654.7	-380.0	1,241.1	1,182.1	59.01	21.033		
8,300.0	8,260.8	8,187.2	8,145.1	31.5	31.2	142.63	663.8	-386.0	1,258.5	1,198.8	59.75	21.064		
8,400.0	8,360.2	8,285.6	8,243.0	31.9	31.5	142.64	672.8	-392.0	1,275.9	1,215.5	60.49	21.093		
8,468.4	8,428.3	8,353.0	8,310.0	32.2	31.8	142.65	679.0	-396.1	1,287.9	1,226.9	61.00	21.113		
8,500.0	8,459.7	8,388.5	8,345.2	32.3	32.0	142.71	682.3	-398.3	1,293.2	1,232.0	61.26	21.109		
8,600.0	8,559.4	8,526.8	8,483.0	32.7	32.5	142.85	692.4	-405.0	1,306.6	1,244.3	62.26	20.987		
8,700.0	8,659.3	8,666.4	8,622.4	33.0	33.0	142.92	698.5	-409.0	1,314.2	1,251.0	63.18	20.800		
8,767.2	8,726.5	8,760.7	8,716.6	33.2	33.3	0.00	700.1	-410.1	1,316.0	1,252.2	63.75	20.642		
8,800.0	8,759.3	8,804.0	8,760.0	33.3	33.4	-92.44	700.3	-410.2	1,316.1	1,252.1	64.00	20.563		
8,850.0	8,809.0	8,858.2	8,814.1	33.5	33.6	-92.51	700.2	-406.8	1,316.2	1,251.9	64.32	20.465		
8,900.0	8,858.1	8,912.7	8,867.8	33.6	33.8	-92.57	699.9	-398.2	1,316.4	1,251.8	64.61	20.375		
8,950.0	8,906.2	8,967.3	8,920.7	33.7	33.9	-92.61	699.4	-384.6	1,316.5	1,251.7	64.87	20.293		
9,000.0	8,952.9	9,022.0	8,972.0	33.8	34.0	-92.62	698.8	-365.9	1,316.7	1,251.6	65.12	20.220		
9,050.0	8,998.0	9,076.7	9,021.5	33.9	34.1	-92.62	698.0	-342.4	1,316.9	1,251.6	65.35	20.152		
9,100.0	9,040.9	9,131.5	9,068.4	34.0	34.2	-92.59	697.1	-314.3	1,317.1	1,251.6	65.57	20.089		
9,150.0	9,081.4	9,186.2	9,112.5	34.1	34.2	-92.54	696.0	-281.9	1,317.4	1,251.6	65.78	20.027		
9,200.0	9,119.3	9,240.8	9,153.2	34.1	34.3	-92.47	694.8	-245.5	1,317.6	1,251.6	66.00	19.965		
9,250.0	9,154.2	9,295.4	9,190.1	34.2	34.3	-92.38	693.5	-205.4	1,317.9	1,251.7	66.23	19.899		
9,300.0	9,185.8	9,349.7	9,223.0	34.2	34.4	-92.27	692.1	-162.2	1,318.2	1,251.7	66.49	19.825		
9,350.0	9,213.9	9,403.8	9,251.5	34.2	34.4	-92.14	690.6	-116.3	1,318.5	1,251.7	66.79	19.740		
9,400.0	9,238.3	9,457.7	9,275.5	34.2	34.4	-91.99	689.0	-68.1	1,318.8	1,251.7	67.14	19.642		
9,450.0	9,258.8	9,511.3	9,294.8	34.2	34.4	-91.83	687.3	-18.1	1,319.1	1,251.6	67.55	19.529		

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 #202H
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 #202H	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 #201H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,500.0	9,275.2	9,564.6	9,309.2	34.2	34.4	-91.66	685.6	33.2	1,319.5	1,251.5	68.01	19.401		
9,550.0	9,287.5	9,617.5	9,318.7	34.2	34.6	-91.47	683.9	85.2	1,319.8	1,251.3	68.53	19.258		
9,600.0	9,295.5	9,670.1	9,323.4	34.3	34.9	-91.27	682.2	137.5	1,320.2	1,251.1	69.12	19.100		
9,631.7	9,298.4	9,701.8	9,324.5	34.4	35.1	-91.17	681.2	169.2	1,320.4	1,250.9	69.51	18.997		
9,700.0	9,302.6	9,769.2	9,326.6	34.9	35.7	-91.07	679.0	236.5	1,321.0	1,250.5	70.46	18.748		
9,800.0	9,308.6	9,867.9	9,329.7	35.7	36.5	-90.94	675.8	335.1	1,321.8	1,249.7	72.09	18.336		
9,900.0	9,314.6	9,966.6	9,332.8	36.7	37.5	-90.81	672.8	433.8	1,322.5	1,248.5	74.00	17.872		
10,000.0	9,320.5	10,065.4	9,335.9	37.8	38.7	-90.69	669.9	532.4	1,323.2	1,247.1	76.18	17.370		
10,100.0	9,326.3	10,164.1	9,339.0	39.0	39.9	-90.57	667.0	631.0	1,323.9	1,245.3	78.60	16.844		
10,200.0	9,332.1	10,262.8	9,342.1	40.3	41.2	-90.45	664.3	729.6	1,324.5	1,243.2	81.24	16.304		
10,300.0	9,337.7	10,361.5	9,345.2	41.7	42.7	-90.34	661.6	828.3	1,325.0	1,241.0	84.07	15.760		
10,400.0	9,343.2	10,460.3	9,348.3	43.2	44.2	-90.23	659.1	926.9	1,325.5	1,238.4	87.09	15.220		
10,500.0	9,348.7	10,559.0	9,351.4	44.8	45.8	-90.13	656.6	1,025.6	1,326.0	1,235.7	90.27	14.689		
10,600.0	9,354.0	10,657.7	9,354.5	46.5	47.4	-90.03	654.2	1,124.2	1,326.4	1,232.8	93.60	14.171		
10,700.0	9,359.3	10,756.4	9,357.5	48.2	49.1	-89.93	651.9	1,222.9	1,326.7	1,229.7	97.05	13.670		
10,800.0	9,364.4	10,855.2	9,360.6	50.0	50.9	-89.84	649.7	1,321.5	1,327.0	1,226.4	100.63	13.188		
10,900.0	9,369.5	10,953.9	9,363.7	51.9	52.8	-89.75	647.6	1,420.2	1,327.3	1,223.0	104.30	12.725		
11,000.0	9,374.5	11,052.6	9,366.7	53.8	54.6	-89.67	645.6	1,518.9	1,327.4	1,219.4	108.08	12.283		
11,100.0	9,379.4	11,151.4	9,369.8	55.7	56.6	-89.59	643.7	1,617.5	1,327.6	1,215.6	111.93	11.861		
11,200.0	9,384.2	11,250.1	9,372.8	57.7	58.5	-89.51	641.9	1,716.2	1,327.7	1,211.8	115.86	11.459		
11,300.0	9,388.9	11,348.8	9,375.9	59.7	60.5	-89.44	640.2	1,814.9	1,327.7	1,207.8	119.86	11.077		
11,400.0	9,393.5	11,447.6	9,378.9	61.7	62.5	-89.37	638.5	1,913.6	1,327.7	1,203.7	123.93	10.713		
11,500.0	9,398.0	11,546.3	9,382.0	63.8	64.6	-89.30	637.0	2,012.2	1,327.6	1,199.5	128.04	10.368		
11,600.0	9,402.5	11,645.1	9,385.0	65.9	66.7	-89.24	635.5	2,110.9	1,327.4	1,195.2	132.21	10.040		
11,700.0	9,406.8	11,743.8	9,388.1	68.0	68.7	-89.19	634.2	2,209.6	1,327.2	1,190.8	136.43	9.729		
11,800.0	9,411.0	11,842.5	9,391.1	70.1	70.9	-89.13	632.9	2,308.3	1,327.0	1,186.3	140.68	9.422		
11,900.0	9,415.2	11,941.3	9,394.1	72.3	73.0	-89.08	631.7	2,407.0	1,326.7	1,181.7	144.98	9.151		
12,000.0	9,419.3	12,040.0	9,397.2	74.5	75.2	-89.03	630.7	2,505.7	1,326.3	1,177.0	149.31	8.883		
12,100.0	9,423.2	12,138.8	9,400.2	76.6	77.3	-88.99	629.7	2,604.4	1,325.9	1,172.2	153.67	8.628		
12,200.0	9,427.1	12,237.5	9,403.2	78.9	79.5	-88.95	628.8	2,703.1	1,325.4	1,167.4	158.06	8.386		
12,300.0	9,430.9	12,336.3	9,406.2	81.1	81.7	-88.92	628.0	2,801.8	1,324.9	1,162.4	162.47	8.154		
12,400.0	9,434.6	12,435.0	9,409.2	83.3	83.9	-88.89	627.3	2,900.5	1,324.3	1,157.4	166.92	7.934		
12,500.0	9,438.2	12,533.8	9,412.2	85.5	86.1	-88.86	626.6	2,999.2	1,323.7	1,152.3	171.38	7.723		
12,600.0	9,441.7	12,632.5	9,415.2	87.8	88.4	-88.84	626.1	3,097.9	1,323.0	1,147.1	175.87	7.523		
12,700.0	9,445.1	12,731.3	9,418.2	90.0	90.6	-88.82	625.7	3,196.6	1,322.2	1,141.8	180.37	7.330		
12,800.0	9,448.5	12,830.0	9,421.2	92.3	92.9	-88.80	625.4	3,295.3	1,321.4	1,136.5	184.89	7.147		
12,892.1	9,451.4	12,921.0	9,423.9	94.4	94.9	-88.79	625.1	3,386.2	1,320.6	1,131.5	189.07	6.984		
12,900.0	9,451.7	12,928.8	9,424.2	94.6	95.1	-88.79	625.1	3,394.0	1,320.5	1,131.1	189.43	6.971		
13,000.0	9,454.9	13,027.5	9,427.2	96.9	97.4	-88.78	625.0	3,492.7	1,319.7	1,125.7	193.99	6.803		
13,100.0	9,458.1	13,126.3	9,430.1	99.2	99.7	-88.77	624.9	3,591.4	1,318.9	1,120.4	198.56	6.643		
13,200.0	9,461.3	13,225.1	9,433.1	101.5	101.9	-88.76	624.9	3,690.1	1,318.3	1,115.1	203.14	6.489		
13,300.0	9,464.5	13,323.8	9,436.1	103.8	104.2	-88.76	625.1	3,788.8	1,317.7	1,110.0	207.73	6.343		
13,400.0	9,467.7	13,422.6	9,439.1	106.1	106.5	-88.75	625.3	3,887.6	1,317.2	1,104.9	212.34	6.203		
13,500.0	9,470.9	13,521.3	9,442.0	108.4	108.8	-88.74	625.6	3,986.3	1,316.9	1,099.9	216.96	6.070		
13,600.0	9,474.1	13,620.1	9,445.0	110.7	111.1	-88.73	626.0	4,085.0	1,316.6	1,095.0	221.59	5.942		
13,700.0	9,477.3	13,718.9	9,447.9	113.1	113.4	-88.72	626.5	4,183.7	1,316.4	1,090.2	226.22	5.819		
13,800.0	9,480.5	13,817.6	9,450.9	115.4	115.8	-88.71	627.1	4,282.4	1,316.3	1,085.4	230.87	5.701		
13,900.0	9,483.6	13,917.1	9,453.8	117.7	118.1	-88.70	627.8	4,381.9	1,316.3	1,080.7	235.54	5.588		
14,000.0	9,486.8	14,017.1	9,456.8	120.1	120.4	-88.69	628.5	4,481.8	1,316.3	1,076.0	240.24	5.479		
14,100.0	9,490.0	14,117.1	9,459.8	122.4	122.8	-88.68	629.1	4,581.8	1,316.3	1,071.3	244.94	5.374		
14,200.0	9,493.2	14,217.1	9,462.8	124.8	125.2	-88.67	629.8	4,681.7	1,316.3	1,066.6	249.65	5.272		
14,300.0	9,496.4	14,317.1	9,465.8	127.1	127.5	-88.66	630.5	4,781.7	1,316.3	1,061.9	254.37	5.175		

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 #202H
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 #202H	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 #201H - Wellbore #1 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,400.0	9,499.6	14,417.1	9,468.8	129.5	129.9	-88.66	631.2	4,881.6	1,316.3	1,057.2	259.10	5.080		
14,500.0	9,502.8	14,517.1	9,471.7	131.8	132.3	-88.65	631.9	4,981.6	1,316.3	1,052.4	263.83	4.989		
14,600.0	9,506.0	14,617.1	9,474.7	134.2	134.6	-88.64	632.6	5,081.5	1,316.3	1,047.7	268.56	4.901		
14,700.0	9,509.2	14,717.1	9,477.7	136.6	137.0	-88.63	633.3	5,181.5	1,316.3	1,042.9	273.31	4.816		
14,800.0	9,512.4	14,817.1	9,480.7	138.9	139.4	-88.62	633.9	5,281.4	1,316.2	1,038.2	278.05	4.734		
14,900.0	9,515.6	14,917.1	9,483.7	141.3	141.8	-88.61	634.6	5,381.4	1,316.2	1,033.4	282.81	4.654		
15,000.0	9,518.8	15,017.1	9,486.7	143.7	144.1	-88.60	635.3	5,481.3	1,316.2	1,028.7	287.56	4.577		
15,100.0	9,522.0	15,117.1	9,489.6	146.1	146.5	-88.59	636.0	5,581.3	1,316.2	1,023.9	292.33	4.503		
15,200.0	9,525.2	15,217.1	9,492.6	148.4	148.9	-88.58	636.7	5,681.2	1,316.2	1,019.1	297.09	4.430		
15,300.0	9,528.4	15,317.1	9,495.6	150.8	151.3	-88.57	637.4	5,781.2	1,316.2	1,014.4	301.86	4.360		
15,400.0	9,531.6	15,417.1	9,498.6	153.2	153.7	-88.56	638.1	5,881.2	1,316.2	1,009.6	306.64	4.292		
15,500.0	9,534.8	15,517.1	9,501.6	155.6	156.1	-88.55	638.7	5,981.1	1,316.2	1,004.8	311.42	4.227		
15,600.0	9,538.0	15,617.1	9,504.6	158.0	158.5	-88.54	639.4	6,081.1	1,316.2	1,000.0	316.20	4.163		
15,700.0	9,541.2	15,717.1	9,507.5	160.4	160.9	-88.54	640.1	6,181.0	1,316.2	995.2	320.98	4.101		
15,800.0	9,544.4	15,817.1	9,510.5	162.8	163.3	-88.53	640.8	6,281.0	1,316.2	990.4	325.77	4.040		
15,900.0	9,547.6	15,917.1	9,513.5	165.1	165.7	-88.52	641.5	6,380.9	1,316.2	985.6	330.56	3.982		
16,000.0	9,550.8	16,017.1	9,516.5	167.5	168.1	-88.51	642.2	6,480.9	1,316.2	980.8	335.36	3.925		
16,100.0	9,554.0	16,117.1	9,519.5	169.9	170.5	-88.50	642.9	6,580.8	1,316.2	976.0	340.15	3.869		
16,200.0	9,557.2	16,217.1	9,522.5	172.3	172.9	-88.49	643.5	6,680.8	1,316.2	971.2	344.95	3.816		
16,300.0	9,560.3	16,317.1	9,525.4	174.7	175.3	-88.48	644.2	6,780.7	1,316.2	966.4	349.76	3.763		
16,400.0	9,563.5	16,417.1	9,528.4	177.1	177.7	-88.47	644.9	6,880.7	1,316.2	961.6	354.56	3.712		
16,500.0	9,566.7	16,517.1	9,531.4	179.5	180.1	-88.46	645.6	6,980.6	1,316.2	956.8	359.37	3.663		
16,600.0	9,569.9	16,617.1	9,534.4	181.9	182.5	-88.45	646.3	7,080.6	1,316.2	952.0	364.18	3.614		
16,700.0	9,573.1	16,717.1	9,537.4	184.3	184.9	-88.44	647.0	7,180.5	1,316.2	947.2	368.99	3.567		
16,711.6	9,573.5	16,728.7	9,537.7	184.6	185.2	-88.44	647.0	7,192.1	1,316.2	946.6	369.55	3.562 SF		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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

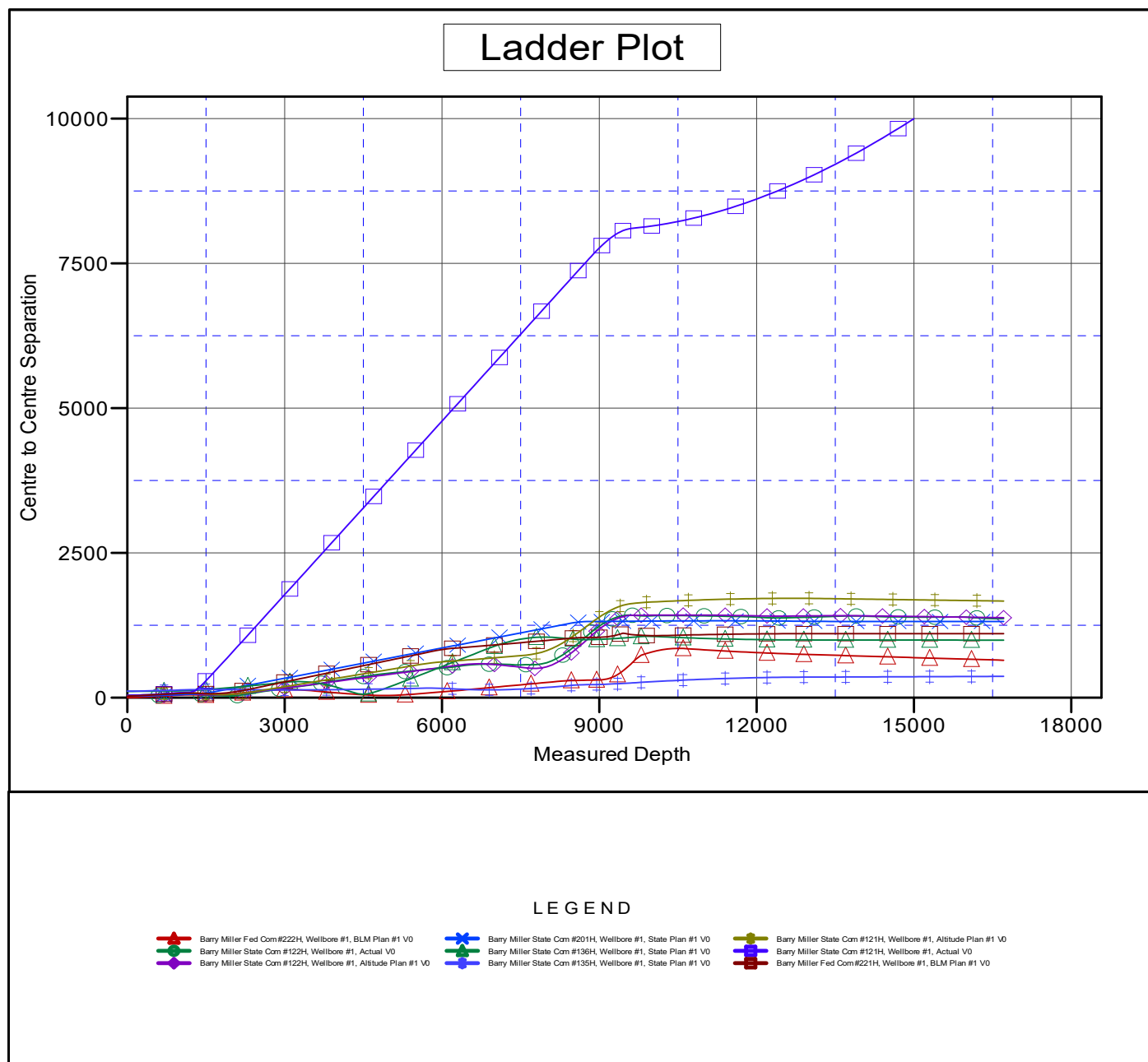
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Barry Miller State Com #202H

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 #202H
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 #202H	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

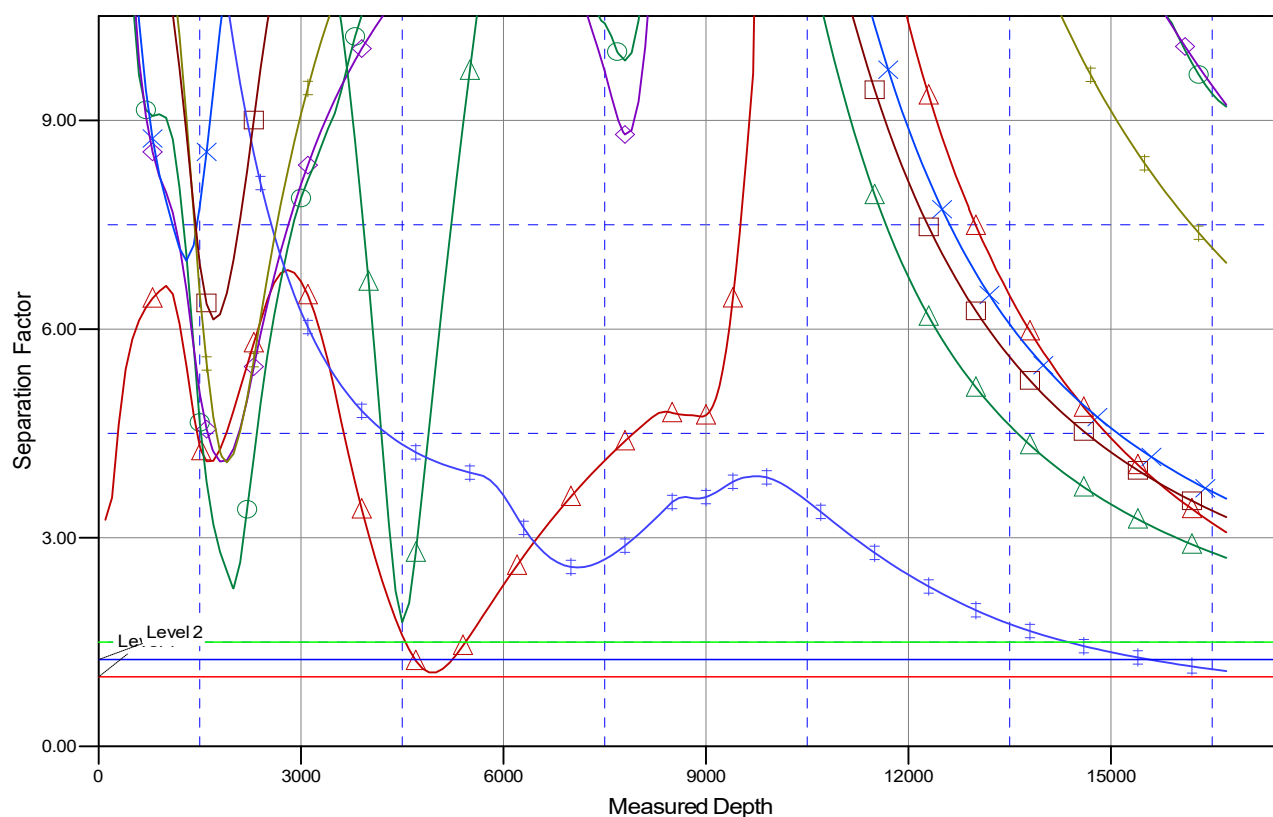
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Barry Miller State Com #202H

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 #201H, Wellbore #1, State Plan #1 V0	Barry Miller State Com #121H, Wellbore #1, Altitude Plan #1 V0
Barry Miller State Com #122H, Wellbore #1, Actual V0	Barry Miller State Com #136H, Wellbore #1, State Plan #1 V0	Barry Miller State Com #121H, Wellbore #1, Actual V0
Barry Miller State Com #122H, Wellbore #1, Altitude Plan #1 V0	Barry Miller State Com #135H, Wellbore #1, State Plan #1 V0	Barry Miller Fed Com #221H, Wellbore #1, BLM 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 #202H

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 #202H
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 #202H	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: From:		Northing:	508,440.78 usft	Latitude:	32° 23' 51.364 N
	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:

Well	Barry Miller State Com #202H					
Well Position	+N/-S	-80.0 usft	Northing:	508,360.78 usft	Latitude:	32° 23' 50.571 N
	+E/-W	30.0 usft	Easting:	572,229.21 usft	Longitude:	104° 5' 57.542 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	8/24/2020	6.87	60.10	47,659.74692713

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	16,711.6	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	90.00	299.9	0.0	7.9	1.00	1.00	0.00	90.00	
1,000.0	3.00	90.00	998.9	0.0	44.5	0.00	0.00	0.00	0.00	
1,407.1	5.98	217.08	1,405.3	-16.9	42.4	2.00	0.73	31.21	144.10	
8,468.4	5.98	217.08	8,428.3	-603.4	-400.9	0.00	0.00	0.00	0.00	
8,767.2	0.00	0.00	8,726.5	-615.8	-410.2	2.00	-2.00	0.00	180.00	VP - Barry Miller St
9,631.7	86.45	92.40	9,298.4	-638.3	126.8	10.00	10.00	0.00	92.40	
12,892.1	88.17	89.60	9,451.4	-695.2	3,382.6	0.10	0.05	-0.09	-58.48	
16,711.6	88.17	89.60	9,573.5	-668.6	7,200.1	0.00	0.00	0.00	0.00	BHL - Barry Miller S

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	90.00	100.0	0.0	0.9	0.9	1.00	1.00	0.00
200.0	2.00	90.00	200.0	0.0	3.5	3.5	1.00	1.00	0.00
300.0	3.00	90.00	299.9	0.0	7.9	7.9	1.00	1.00	0.00
400.0	3.00	90.00	399.7	0.0	13.1	13.1	0.00	0.00	0.00
500.0	3.00	90.00	499.6	0.0	18.3	18.3	0.00	0.00	0.00
600.0	3.00	90.00	599.5	0.0	23.6	23.6	0.00	0.00	0.00
700.0	3.00	90.00	699.3	0.0	28.8	28.8	0.00	0.00	0.00
800.0	3.00	90.00	799.2	0.0	34.0	34.0	0.00	0.00	0.00
900.0	3.00	90.00	899.0	0.0	39.3	39.3	0.00	0.00	0.00
1,000.0	3.00	90.00	998.9	0.0	44.5	44.5	0.00	0.00	0.00
1,100.0	1.81	130.37	1,098.8	-1.0	48.3	48.3	2.00	-1.19	40.37
1,200.0	2.36	185.89	1,198.8	-4.1	49.3	49.3	2.00	0.55	55.52
1,300.0	3.98	207.94	1,298.6	-9.2	47.5	47.4	2.00	1.62	22.05
1,400.0	5.84	216.67	1,398.2	-16.3	42.8	42.7	2.00	1.86	8.73
1,407.1	5.98	217.08	1,405.3	-16.9	42.4	42.2	2.00	1.91	5.80
1,500.0	5.98	217.08	1,497.7	-24.6	36.5	36.4	0.00	0.00	0.00
1,600.0	5.98	217.08	1,597.2	-33.0	30.3	30.0	0.00	0.00	0.00
1,700.0	5.98	217.08	1,696.6	-41.3	24.0	23.7	0.00	0.00	0.00
1,800.0	5.98	217.08	1,796.1	-49.6	17.7	17.4	0.00	0.00	0.00
1,900.0	5.98	217.08	1,895.5	-57.9	11.4	11.0	0.00	0.00	0.00
2,000.0	5.98	217.08	1,995.0	-66.2	5.1	4.7	0.00	0.00	0.00
2,100.0	5.98	217.08	2,094.4	-74.5	-1.1	-1.6	0.00	0.00	0.00
2,200.0	5.98	217.08	2,193.9	-82.8	-7.4	-8.0	0.00	0.00	0.00
2,300.0	5.98	217.08	2,293.4	-91.1	-13.7	-14.3	0.00	0.00	0.00
2,400.0	5.98	217.08	2,392.8	-99.4	-20.0	-20.7	0.00	0.00	0.00
2,500.0	5.98	217.08	2,492.3	-107.7	-26.2	-27.0	0.00	0.00	0.00
2,600.0	5.98	217.08	2,591.7	-116.0	-32.5	-33.3	0.00	0.00	0.00
2,700.0	5.98	217.08	2,691.2	-124.3	-38.8	-39.7	0.00	0.00	0.00
2,800.0	5.98	217.08	2,790.6	-132.6	-45.1	-46.0	0.00	0.00	0.00
2,900.0	5.98	217.08	2,890.1	-140.9	-51.3	-52.3	0.00	0.00	0.00
3,000.0	5.98	217.08	2,989.5	-149.2	-57.6	-58.7	0.00	0.00	0.00
3,100.0	5.98	217.08	3,089.0	-157.5	-63.9	-65.0	0.00	0.00	0.00
3,200.0	5.98	217.08	3,188.5	-165.8	-70.2	-71.3	0.00	0.00	0.00
3,300.0	5.98	217.08	3,287.9	-174.1	-76.4	-77.7	0.00	0.00	0.00
3,400.0	5.98	217.08	3,387.4	-182.4	-82.7	-84.0	0.00	0.00	0.00
3,500.0	5.98	217.08	3,486.8	-190.8	-89.0	-90.3	0.00	0.00	0.00
3,600.0	5.98	217.08	3,586.3	-199.1	-95.3	-96.7	0.00	0.00	0.00
3,700.0	5.98	217.08	3,685.7	-207.4	-101.6	-103.0	0.00	0.00	0.00
3,800.0	5.98	217.08	3,785.2	-215.7	-107.8	-109.3	0.00	0.00	0.00
3,900.0	5.98	217.08	3,884.7	-224.0	-114.1	-115.7	0.00	0.00	0.00
4,000.0	5.98	217.08	3,984.1	-232.3	-120.4	-122.0	0.00	0.00	0.00
4,100.0	5.98	217.08	4,083.6	-240.6	-126.7	-128.3	0.00	0.00	0.00
4,200.0	5.98	217.08	4,183.0	-248.9	-132.9	-134.7	0.00	0.00	0.00
4,300.0	5.98	217.08	4,282.5	-257.2	-139.2	-141.0	0.00	0.00	0.00
4,400.0	5.98	217.08	4,381.9	-265.5	-145.5	-147.3	0.00	0.00	0.00
4,500.0	5.98	217.08	4,481.4	-273.8	-151.8	-153.7	0.00	0.00	0.00
4,600.0	5.98	217.08	4,580.9	-282.1	-158.0	-160.0	0.00	0.00	0.00
4,700.0	5.98	217.08	4,680.3	-290.4	-164.3	-166.3	0.00	0.00	0.00
4,800.0	5.98	217.08	4,779.8	-298.7	-170.6	-172.7	0.00	0.00	0.00
4,900.0	5.98	217.08	4,879.2	-307.0	-176.9	-179.0	0.00	0.00	0.00
5,000.0	5.98	217.08	4,978.7	-315.3	-183.1	-185.3	0.00	0.00	0.00
5,100.0	5.98	217.08	5,078.1	-323.6	-189.4	-191.7	0.00	0.00	0.00
5,200.0	5.98	217.08	5,177.6	-331.9	-195.7	-198.0	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	5.98	217.08	5,277.1	-340.2	-202.0	-204.4	0.00	0.00	0.00
5,400.0	5.98	217.08	5,376.5	-348.6	-208.3	-210.7	0.00	0.00	0.00
5,500.0	5.98	217.08	5,476.0	-356.9	-214.5	-217.0	0.00	0.00	0.00
5,600.0	5.98	217.08	5,575.4	-365.2	-220.8	-223.4	0.00	0.00	0.00
5,700.0	5.98	217.08	5,674.9	-373.5	-227.1	-229.7	0.00	0.00	0.00
5,800.0	5.98	217.08	5,774.3	-381.8	-233.4	-236.0	0.00	0.00	0.00
5,900.0	5.98	217.08	5,873.8	-390.1	-239.6	-242.4	0.00	0.00	0.00
6,000.0	5.98	217.08	5,973.2	-398.4	-245.9	-248.7	0.00	0.00	0.00
6,100.0	5.98	217.08	6,072.7	-406.7	-252.2	-255.0	0.00	0.00	0.00
6,200.0	5.98	217.08	6,172.2	-415.0	-258.5	-261.4	0.00	0.00	0.00
6,300.0	5.98	217.08	6,271.6	-423.3	-264.7	-267.7	0.00	0.00	0.00
6,400.0	5.98	217.08	6,371.1	-431.6	-271.0	-274.0	0.00	0.00	0.00
6,500.0	5.98	217.08	6,470.5	-439.9	-277.3	-280.4	0.00	0.00	0.00
6,600.0	5.98	217.08	6,570.0	-448.2	-283.6	-286.7	0.00	0.00	0.00
6,700.0	5.98	217.08	6,669.4	-456.5	-289.9	-293.0	0.00	0.00	0.00
6,800.0	5.98	217.08	6,768.9	-464.8	-296.1	-299.4	0.00	0.00	0.00
6,900.0	5.98	217.08	6,868.4	-473.1	-302.4	-305.7	0.00	0.00	0.00
7,000.0	5.98	217.08	6,967.8	-481.4	-308.7	-312.0	0.00	0.00	0.00
7,100.0	5.98	217.08	7,067.3	-489.7	-315.0	-318.4	0.00	0.00	0.00
7,200.0	5.98	217.08	7,166.7	-498.1	-321.2	-324.7	0.00	0.00	0.00
7,300.0	5.98	217.08	7,266.2	-506.4	-327.5	-331.0	0.00	0.00	0.00
7,400.0	5.98	217.08	7,365.6	-514.7	-333.8	-337.4	0.00	0.00	0.00
7,500.0	5.98	217.08	7,465.1	-523.0	-340.1	-343.7	0.00	0.00	0.00
7,600.0	5.98	217.08	7,564.6	-531.3	-346.3	-350.0	0.00	0.00	0.00
7,700.0	5.98	217.08	7,664.0	-539.6	-352.6	-356.4	0.00	0.00	0.00
7,800.0	5.98	217.08	7,763.5	-547.9	-358.9	-362.7	0.00	0.00	0.00
7,900.0	5.98	217.08	7,862.9	-556.2	-365.2	-369.0	0.00	0.00	0.00
8,000.0	5.98	217.08	7,962.4	-564.5	-371.4	-375.4	0.00	0.00	0.00
8,100.0	5.98	217.08	8,061.8	-572.8	-377.7	-381.7	0.00	0.00	0.00
8,200.0	5.98	217.08	8,161.3	-581.1	-384.0	-388.0	0.00	0.00	0.00
8,300.0	5.98	217.08	8,260.8	-589.4	-390.3	-394.4	0.00	0.00	0.00
8,400.0	5.98	217.08	8,360.2	-597.7	-396.6	-400.7	0.00	0.00	0.00
8,468.4	5.98	217.08	8,428.3	-603.4	-400.9	-405.1	0.00	0.00	0.00
8,500.0	5.34	217.08	8,459.7	-605.9	-402.7	-406.9	2.00	-2.00	0.00
8,600.0	3.34	217.08	8,559.4	-611.9	-407.3	-411.6	2.00	-2.00	0.00
8,700.0	1.34	217.08	8,659.3	-615.2	-409.8	-414.0	2.00	-2.00	0.00
8,767.2	0.00	0.00	8,726.5	-615.8	-410.2	-414.5	2.00	-2.00	0.00
8,800.0	3.28	92.40	8,759.3	-615.9	-409.3	-413.6	10.00	10.00	0.00
8,900.0	13.28	92.40	8,858.1	-616.5	-394.9	-399.2	10.00	10.00	0.00
9,000.0	23.28	92.40	8,952.9	-617.8	-363.6	-367.9	10.00	10.00	0.00
9,100.0	33.28	92.40	9,040.9	-619.8	-316.4	-320.7	10.00	10.00	0.00
9,200.0	43.28	92.40	9,119.3	-622.3	-254.5	-258.9	10.00	10.00	0.00
9,300.0	53.28	92.40	9,185.8	-625.5	-180.1	-184.4	10.00	10.00	0.00
9,400.0	63.28	92.40	9,238.3	-629.0	-95.2	-99.6	10.00	10.00	0.00
9,500.0	73.28	92.40	9,275.2	-632.9	-2.5	-6.9	10.00	10.00	0.00
9,600.0	83.28	92.40	9,295.5	-637.0	95.2	90.8	10.00	10.00	0.00
9,631.7	86.45	92.40	9,298.4	-638.3	126.8	122.3	10.00	10.00	0.00
9,700.0	86.49	92.34	9,302.6	-641.1	194.9	190.4	0.10	0.05	-0.09
9,800.0	86.54	92.26	9,308.6	-645.1	294.6	290.1	0.10	0.05	-0.09
9,900.0	86.59	92.17	9,314.6	-649.0	394.4	389.8	0.10	0.05	-0.09
10,000.0	86.64	92.08	9,320.5	-652.7	494.1	489.5	0.10	0.05	-0.09
10,100.0	86.70	92.00	9,326.3	-656.3	593.9	589.3	0.10	0.05	-0.09
10,200.0	86.75	91.91	9,332.1	-659.7	693.7	689.0	0.10	0.05	-0.09
10,300.0	86.80	91.83	9,337.7	-662.9	793.5	788.8	0.10	0.05	-0.09

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	86.85	91.74	9,343.2	-666.0	893.3	888.6	0.10	0.05	-0.09
10,500.0	86.91	91.65	9,348.7	-669.0	993.1	988.4	0.10	0.05	-0.09
10,600.0	86.96	91.57	9,354.0	-671.8	1,092.9	1,088.2	0.10	0.05	-0.09
10,700.0	87.01	91.48	9,359.3	-674.4	1,192.7	1,188.0	0.10	0.05	-0.09
10,800.0	87.07	91.40	9,364.4	-677.0	1,292.5	1,287.8	0.10	0.05	-0.09
10,900.0	87.12	91.31	9,369.5	-679.3	1,392.4	1,387.6	0.10	0.05	-0.09
11,000.0	87.17	91.22	9,374.5	-681.5	1,492.2	1,487.4	0.10	0.05	-0.09
11,100.0	87.22	91.14	9,379.4	-683.6	1,592.1	1,587.3	0.10	0.05	-0.09
11,200.0	87.28	91.05	9,384.2	-685.5	1,692.0	1,687.1	0.10	0.05	-0.09
11,300.0	87.33	90.97	9,388.9	-687.3	1,791.8	1,787.0	0.10	0.05	-0.09
11,400.0	87.38	90.88	9,393.5	-688.9	1,891.7	1,886.9	0.10	0.05	-0.09
11,500.0	87.43	90.80	9,398.0	-690.3	1,991.6	1,986.7	0.10	0.05	-0.09
11,600.0	87.49	90.71	9,402.5	-691.6	2,091.5	2,086.6	0.10	0.05	-0.09
11,700.0	87.54	90.62	9,406.8	-692.8	2,191.4	2,186.5	0.10	0.05	-0.09
11,800.0	87.59	90.54	9,411.0	-693.8	2,291.3	2,286.4	0.10	0.05	-0.09
11,900.0	87.65	90.45	9,415.2	-694.7	2,391.2	2,386.3	0.10	0.05	-0.09
12,000.0	87.70	90.37	9,419.3	-695.4	2,491.1	2,486.2	0.10	0.05	-0.09
12,100.0	87.75	90.28	9,423.2	-696.0	2,591.0	2,586.1	0.10	0.05	-0.09
12,200.0	87.80	90.20	9,427.1	-696.4	2,691.0	2,686.0	0.10	0.05	-0.09
12,300.0	87.86	90.11	9,430.9	-696.6	2,790.9	2,786.0	0.10	0.05	-0.09
12,400.0	87.91	90.02	9,434.6	-696.8	2,890.8	2,885.9	0.10	0.05	-0.09
12,500.0	87.96	89.94	9,438.2	-696.7	2,990.8	2,985.8	0.10	0.05	-0.09
12,600.0	88.01	89.85	9,441.7	-696.5	3,090.7	3,085.8	0.10	0.05	-0.09
12,700.0	88.07	89.77	9,445.1	-696.2	3,190.6	3,185.7	0.10	0.05	-0.09
12,800.0	88.12	89.68	9,448.5	-695.7	3,290.6	3,285.6	0.10	0.05	-0.09
12,892.1	88.17	89.60	9,451.4	-695.2	3,382.6	3,377.7	0.10	0.05	-0.09
12,900.0	88.17	89.60	9,451.7	-695.1	3,390.5	3,385.6	0.00	0.00	0.00
13,000.0	88.17	89.60	9,454.9	-694.4	3,490.5	3,485.5	0.00	0.00	0.00
13,100.0	88.17	89.60	9,458.1	-693.7	3,590.4	3,585.5	0.00	0.00	0.00
13,200.0	88.17	89.60	9,461.3	-693.0	3,690.4	3,685.4	0.00	0.00	0.00
13,300.0	88.17	89.60	9,464.5	-692.3	3,790.3	3,785.4	0.00	0.00	0.00
13,400.0	88.17	89.60	9,467.7	-691.6	3,890.3	3,885.3	0.00	0.00	0.00
13,500.0	88.17	89.60	9,470.9	-690.9	3,990.2	3,985.3	0.00	0.00	0.00
13,600.0	88.17	89.60	9,474.1	-690.2	4,090.2	4,085.2	0.00	0.00	0.00
13,700.0	88.17	89.60	9,477.3	-689.5	4,190.1	4,185.2	0.00	0.00	0.00
13,800.0	88.17	89.60	9,480.5	-688.8	4,290.0	4,285.1	0.00	0.00	0.00
13,900.0	88.17	89.60	9,483.6	-688.2	4,390.0	4,385.1	0.00	0.00	0.00
14,000.0	88.17	89.60	9,486.8	-687.5	4,489.9	4,485.0	0.00	0.00	0.00
14,100.0	88.17	89.60	9,490.0	-686.8	4,589.9	4,585.0	0.00	0.00	0.00
14,200.0	88.17	89.60	9,493.2	-686.1	4,689.8	4,684.9	0.00	0.00	0.00
14,300.0	88.17	89.60	9,496.4	-685.4	4,789.8	4,784.9	0.00	0.00	0.00
14,400.0	88.17	89.60	9,499.6	-684.7	4,889.7	4,884.8	0.00	0.00	0.00
14,500.0	88.17	89.60	9,502.8	-684.0	4,989.7	4,984.8	0.00	0.00	0.00
14,600.0	88.17	89.60	9,506.0	-683.3	5,089.6	5,084.7	0.00	0.00	0.00
14,700.0	88.17	89.60	9,509.2	-682.6	5,189.6	5,184.7	0.00	0.00	0.00
14,800.0	88.17	89.60	9,512.4	-681.9	5,289.5	5,284.6	0.00	0.00	0.00
14,900.0	88.17	89.60	9,515.6	-681.2	5,389.5	5,384.6	0.00	0.00	0.00
15,000.0	88.17	89.60	9,518.8	-680.5	5,489.4	5,484.5	0.00	0.00	0.00
15,100.0	88.17	89.60	9,522.0	-679.8	5,589.3	5,584.5	0.00	0.00	0.00
15,200.0	88.17	89.60	9,525.2	-679.1	5,689.3	5,684.4	0.00	0.00	0.00
15,300.0	88.17	89.60	9,528.4	-678.4	5,789.2	5,784.4	0.00	0.00	0.00
15,400.0	88.17	89.60	9,531.6	-677.7	5,889.2	5,884.3	0.00	0.00	0.00
15,500.0	88.17	89.60	9,534.8	-677.0	5,989.1	5,984.3	0.00	0.00	0.00
15,600.0	88.17	89.60	9,538.0	-676.3	6,089.1	6,084.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	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	88.17	89.60	9,541.2	-675.6	6,189.0	6,184.2	0.00	0.00	0.00	
15,800.0	88.17	89.60	9,544.4	-675.0	6,289.0	6,284.1	0.00	0.00	0.00	
15,900.0	88.17	89.60	9,547.6	-674.3	6,388.9	6,384.1	0.00	0.00	0.00	
16,000.0	88.17	89.60	9,550.8	-673.6	6,488.9	6,484.0	0.00	0.00	0.00	
16,100.0	88.17	89.60	9,554.0	-672.9	6,588.8	6,584.0	0.00	0.00	0.00	
16,200.0	88.17	89.60	9,557.2	-672.2	6,688.8	6,683.9	0.00	0.00	0.00	
16,300.0	88.17	89.60	9,560.3	-671.5	6,788.7	6,783.9	0.00	0.00	0.00	
16,400.0	88.17	89.60	9,563.5	-670.8	6,888.7	6,883.8	0.00	0.00	0.00	
16,500.0	88.17	89.60	9,566.7	-670.1	6,988.6	6,983.8	0.00	0.00	0.00	
16,600.0	88.17	89.60	9,569.9	-669.4	7,088.5	7,083.7	0.00	0.00	0.00	
16,700.0	88.17	89.60	9,573.1	-668.7	7,188.5	7,183.7	0.00	0.00	0.00	
16,711.6	88.17	89.60	9,573.5	-668.6	7,200.1	7,195.2	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 - hit/miss target - Shape - Point	0.00	0.00	8,726.5	-615.8	-410.2	507,745.00	571,819.00	32° 23' 44.486 N	104° 6' 2.342 W	
FTP - Barry Miller Sta - plan misses target center by 111.8usft at 9400.0usft MD (9238.3 TVD, -629.0 N, -95.2 E) - Point	0.00	0.00	9,299.5	-715.8	-130.2	507,645.00	572,099.00	32° 23' 43.491 N	104° 5' 59.079 W	
BHL - Barry Miller Sta - plan hits target center - Point	0.00	0.00	9,573.5	-668.6	7,200.1	507,692.13	579,429.51	32° 23' 43.791 N	104° 4' 33.580 W	

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Barry Miller State Com #202H
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 #202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
140.5	140.5	Z (Rustler)		1.55	89.60	
429.9	429.6	Z (Salado)		1.55	89.60	
744.5	743.7	Z (Castile (T))		1.55	89.60	
2,502.7	2,494.9	Z (G30:CS14-CSB)		1.55	89.60	
2,573.8	2,565.7	Z (G26: Bell Cyn.)		1.55	89.60	
3,411.7	3,399.1	Z (G13: Cherry Cyn.)		1.55	89.60	
4,604.3	4,585.1	Z (G7: Brushy Cyn.)		1.55	89.60	
5,987.8	5,961.1	Z (G4: BSG (CS9))		1.55	89.60	
6,453.7	6,424.4	Z (L8.2: U. Avalon Shale)		1.55	89.60	
6,571.6	6,541.7	Z (L6.3: Avalon Carb)		1.55	89.60	
6,614.9	6,584.8	Z (L6.2: L. Avalon Shale)		1.55	89.60	
6,704.9	6,674.3	Z (L5.3: FBSC)		1.55	89.60	
7,012.7	6,980.4	Z (L5.1: FBSG)		1.55	89.60	
7,073.5	7,040.9	Z (M. FBSG)		1.55	89.60	
7,223.6	7,190.2	Z (L. FBSG)		1.55	89.60	
7,282.8	7,249.1	Z (L4.3: SBSC)		1.55	89.60	
7,708.3	7,672.3	Z (L4.1: SBSC)		1.55	89.60	
7,879.4	7,842.5	Z (L4.1: SBSC B Carb)		1.55	89.60	
7,965.5	7,928.1	Z (SBSC B Target)		1.55	89.60	
8,021.6	7,983.8	Z (L4.1: SBSC C)		1.55	89.60	
8,043.4	8,005.6	Z (L3.3: TBSC)		1.55	89.60	
8,454.0	8,413.9	Z (L3.3.2: Break Sand (T))		1.55	89.60	
8,990.9	8,944.5	Z (L3.1: TBSG)		1.55	89.60	
9,405.5	9,240.7	Z (L. TBSG)		1.55	89.60	
9,491.7	9,272.8	Z (L2: WFMP A)		1.55	89.60	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
300.0	299.9	0.0	7.9	Start 700.0 hold at 300.0 MD	
1,000.0	998.9	0.0	44.5	Start DLS 2.00 TFO 144.10	
1,407.1	1,405.3	-16.9	42.4	Start 7061.3 hold at 1407.1 MD	
8,468.4	8,428.3	-603.4	-400.9	Start Drop -2.00	
8,767.2	8,726.5	-615.8	-410.2	Start Build 10.00	
9,631.7	9,298.4	-638.3	126.8	Start DLS 0.10 TFO -58.48	
12,892.1	9,451.4	-695.2	3,382.6	Start 3819.5 hold at 12892.1 MD	
16,711.6	9,573.5	-668.6	7,200.1	TD at 16711.6	

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
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