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 346802

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

1. Operator Name and Address	2. OGRID Number
MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	228937
	3. API Number 30-015-54057

4. Property Code	5. Property Name	6. Well No.
333122	BARRY MILLER STATE COM	222H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
D	16	22S	28E	D	855	N	460	W	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
F	15	22S	28E	F	1980	N	2324	W	Eddy

9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	GAS		State	3085
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	17411	Wolfcamp		4/18/2025
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

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

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	380	0
Int1	9.875	7.625	29.7	9349	800	0
Prod	6.75	5.5	20	17411	955	9149

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig Option to run DV tool and Packer.

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.** Signature:		**OIL CONSERVATION DIVISION**	
Printed Name:	Electronically filed by Brett A Jennings	Approved By:	Ward Rikala
Title:	Regulatory Analyst	Title:	
Email Address:	brett.jennings@matadorresources.com	Approved Date:	8/15/2023 Expiration Date: 8/15/2025
Date:	8/7/2023 Phone: 972-629-2160	Conditions of Approval Attached	

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

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-015-54057	98220	Purple Sage; Wolfcamp (Gas)

[4]Property Code	[5]Property Name	[6]Well Number
333122	BARRY MILLER STATE COM	222H

[7]OGRID No.	[8]Operator Name	[9]Elevation
228937	MATADOR PRODUCTION COMPANY	3085'

[10]Surface Location

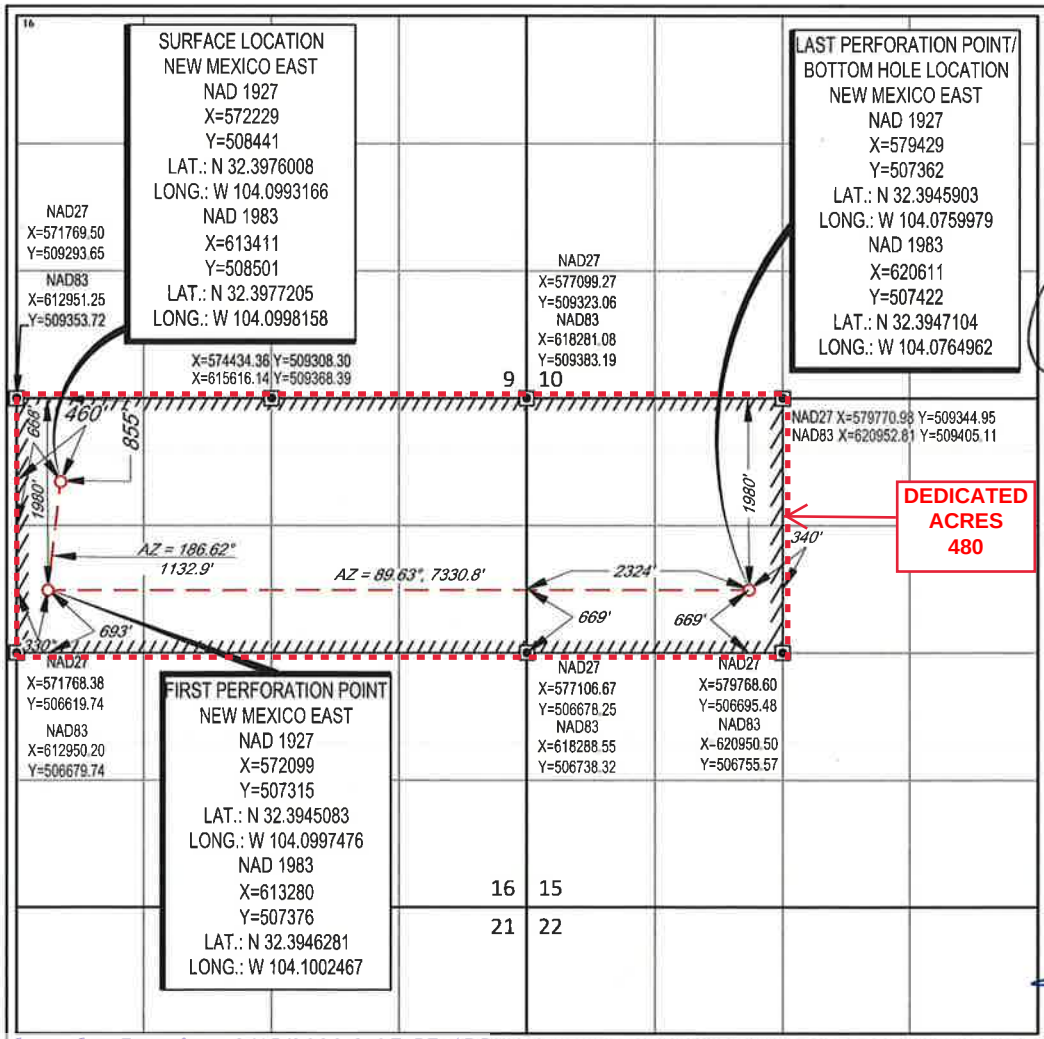
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	22-S	28-E	–	855'	NORTH	460'	WEST	EDDY

[11]Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	15	22-S	28-E	–	1980'	NORTH	2324'	WEST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
480		C	

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.



[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature — Date: 7/10/2023

Hanna Bollenbach
Printed Name

hanna.bollenbach@matadorresources.com
E-mail Address

[18]SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

10/08/2022
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

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

Form APD Conditions

Permit 346802

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	30-015-54057
	Well: BARRY MILLER STATE COM #222H

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

Matador Production Company

Rustler Breaks
Barry Miller
Barry Miller State Com #222H

Wellbore #1
BLM Plan #1

Anticollision Report

19 July, 2023

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Reference	BLM 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 usft	**Error Surface:**	Pedal Curve
Warning Levels Evaluated at:	2.00 **Sigma**	**Casing Method:**	Not applied

Survey Tool Program **Date** 7/19/2023

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	17,411.2	BLM 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)	Distance Between Ellipses (usft)	Separation Factor	Warning
Barry Miller						
Barry Miller State Com #121H - Wellbore #1 - Actual	1,224.5	1,229.3	82.4	74.2	10.001	CC, ES, SF
Barry Miller State Com #121H - Wellbore #1 - Altitude Pl	2,273.1	2,265.2	19.5	3.8	1.243	Level 2, CC, ES, SF
Barry Miller State Com #122H - Wellbore #1 - Actual	1,067.1	1,066.6	88.0	80.9	12.425	CC, ES
Barry Miller State Com #122H - Wellbore #1 - Actual	7,603.5	7,608.7	157.2	100.3	2.762	SF
Barry Miller State Com #122H - Wellbore #1 - Altitude Pl	7,724.4	7,729.8	87.6	28.3	1.477	Level 3, CC, ES, SF
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,223.6	1,222.7	41.8	33.5	5.058	CC
Barry Miller State Com #135H - Wellbore #1 - State Plan	1,300.0	1,299.1	42.0	33.2	4.787	ES
Barry Miller State Com #135H - Wellbore #1 - State Plan	17,411.8	16,670.0	976.2	711.2	3.684	SF
Barry Miller State Com #136H - Wellbore #1 - State Plan	1,200.0	1,201.0	29.7	21.6	3.652	CC, ES
Barry Miller State Com #136H - Wellbore #1 - State Plan	5,000.0	5,069.4	63.3	23.4	1.589	SF
Barry Miller State Com #201H - Wellbore #1 - State Plan	1,663.8	1,665.3	17.6	6.2	1.545	CC, ES, SF
Barry Miller State Com #202H - Wellbore #1 - State Plan	3,081.4	3,072.4	23.7	1.6	1.074	Level 2, CC
Barry Miller State Com #202H - Wellbore #1 - State Plan	3,100.0	3,109.1	23.8	1.5	1.069	Level 2, ES, SF
Barry Miller State Com #221H - Wellbore #1 - BLM Plan	1,517.2	1,516.9	28.3	17.9	2.734	CC, ES
Barry Miller State Com #221H - Wellbore #1 - BLM Plan	1,600.0	1,599.2	29.3	18.4	2.686	SF

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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-164.89	-110.2	-29.8	114.2				
100.0	100.0	99.3	99.3	0.1	0.1	-164.85	-110.1	-29.8	114.1	113.8	0.28	414.188	
200.0	200.0	199.4	199.4	0.5	0.4	-164.73	-109.7	-30.0	113.7	112.9	0.86	132.480	
300.0	300.0	299.9	299.9	0.8	0.7	-164.48	-109.1	-30.3	113.2	111.6	1.58	71.780	
400.0	400.0	401.0	401.0	1.2	1.1	-163.71	-107.4	-31.4	112.0	109.7	2.30	48.665	
500.0	500.0	501.9	501.8	1.6	1.5	-162.55	-104.6	-32.9	109.7	106.7	3.02	36.285	
600.0	600.0	601.8	601.6	1.9	1.8	-161.11	-101.4	-34.7	107.2	103.5	3.74	28.661	
700.0	700.0	701.9	701.7	2.3	2.2	-159.57	-98.0	-36.5	104.7	100.2	4.46	23.471	
800.0	800.0	802.5	802.2	2.6	2.5	-157.86	-94.4	-38.4	102.0	96.8	5.18	19.678	
900.0	900.0	903.6	903.1	3.0	2.9	-155.80	-89.5	-40.2	98.2	92.3	5.91	16.625	
1,000.0	1,000.0	1,004.0	1,003.4	3.4	3.3	-153.51	-83.7	-41.7	93.7	87.0	6.63	14.132	
1,100.0	1,100.0	1,104.0	1,103.2	3.7	3.6	-151.26	-77.9	-42.7	88.9	81.5	7.35	12.096	
1,200.0	1,200.0	1,204.6	1,203.6	4.1	4.0	-148.88	-71.7	-43.3	83.9	75.8	8.07	10.391	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
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Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
1,224.5	1,224.5	1,229.3	1,228.2	4.2	4.1	11.71	-70.1	-43.3	82.4	74.2	8.24	10.001	CC, ES, SF
1,300.0	1,300.0	1,220.0	1,219.0	4.4	4.1	11.41	-70.7	-43.3	114.6	107.2	7.44	15.402	
1,400.0	1,400.0	1,220.0	1,219.0	4.7	4.1	11.12	-70.7	-43.3	196.7	190.1	6.64	29.619	
1,500.0	1,499.9	1,220.0	1,219.0	5.1	4.1	10.63	-70.7	-43.3	289.8	283.5	6.33	45.791	
1,600.0	1,599.7	1,220.0	1,219.0	5.4	4.1	10.00	-70.7	-43.3	386.0	379.8	6.16	62.676	
1,700.0	1,699.4	1,220.0	1,219.0	5.8	4.1	9.28	-70.7	-43.3	483.3	477.3	6.04	80.035	
1,800.0	1,798.9	1,220.0	1,219.0	6.1	4.1	8.52	-70.7	-43.3	581.3	575.4	5.94	97.788	
1,900.0	1,898.3	1,220.0	1,219.0	6.5	4.1	7.77	-70.7	-43.3	679.6	673.7	5.86	115.888	
2,000.0	1,997.4	1,220.0	1,219.0	6.8	4.1	7.05	-70.7	-43.3	778.0	772.2	5.79	134.297	
2,100.0	2,096.3	1,220.0	1,219.0	7.2	4.1	6.38	-70.7	-43.3	876.5	870.8	5.73	152.973	
2,200.0	2,194.9	1,220.0	1,219.0	7.6	4.1	5.76	-70.7	-43.3	975.1	969.4	5.67	171.870	
2,269.4	2,263.2	1,220.0	1,219.0	7.9	4.1	5.37	-70.7	-43.3	1,043.5	1,037.9	5.64	185.120	
2,300.0	2,293.3	1,220.0	1,219.0	8.0	4.1	5.37	-70.7	-43.3	1,073.7	1,068.1	5.62	190.976	
2,400.0	2,391.5	1,220.0	1,219.0	8.4	4.1	5.37	-70.7	-43.3	1,172.4	1,166.9	5.58	209.993	
2,500.0	2,489.8	1,220.0	1,219.0	8.8	4.1	5.37	-70.7	-43.3	1,271.4	1,265.8	5.55	229.098	
2,600.0	2,588.1	1,220.0	1,219.0	9.2	4.1	5.37	-70.7	-43.3	1,370.5	1,365.0	5.52	248.233	
2,700.0	2,686.3	1,220.0	1,219.0	9.6	4.1	5.37	-70.7	-43.3	1,469.7	1,464.2	5.50	267.331	
2,800.0	2,784.6	1,220.0	1,219.0	10.1	4.1	5.37	-70.7	-43.3	1,569.0	1,563.6	5.48	286.324	
2,900.0	2,882.8	1,220.0	1,219.0	10.5	4.1	5.37	-70.7	-43.3	1,668.4	1,663.0	5.47	305.138	
3,000.0	2,981.1	1,220.0	1,219.0	10.9	4.1	5.37	-70.7	-43.3	1,767.9	1,762.5	5.46	323.698	
3,100.0	3,079.4	1,220.0	1,219.0	11.4	4.1	5.37	-70.7	-43.3	1,867.4	1,862.0	5.46	341.929	
3,200.0	3,177.6	1,220.0	1,219.0	11.8	4.1	5.37	-70.7	-43.3	1,967.0	1,961.5	5.47	359.756	
3,300.0	3,275.9	1,220.0	1,219.0	12.2	4.1	5.37	-70.7	-43.3	2,066.6	2,061.2	5.48	377.108	
3,400.0	3,374.2	1,220.0	1,219.0	12.7	4.1	5.37	-70.7	-43.3	2,166.3	2,160.8	5.50	393.921	
3,500.0	3,472.4	1,220.0	1,219.0	13.1	4.1	5.37	-70.7	-43.3	2,266.0	2,260.4	5.52	410.135	
3,600.0	3,570.7	1,220.0	1,219.0	13.6	4.1	5.37	-70.7	-43.3	2,365.7	2,360.1	5.56	425.700	
3,700.0	3,669.0	1,220.0	1,219.0	14.0	4.1	5.37	-70.7	-43.3	2,465.4	2,459.8	5.60	440.573	
3,800.0	3,767.2	1,220.0	1,219.0	14.5	4.1	5.37	-70.7	-43.3	2,565.2	2,559.5	5.64	454.722	
3,900.0	3,865.5	1,220.0	1,219.0	14.9	4.1	5.37	-70.7	-43.3	2,664.9	2,659.2	5.69	468.124	
4,000.0	3,963.7	1,220.0	1,219.0	15.4	4.1	5.37	-70.7	-43.3	2,764.7	2,759.0	5.75	480.766	
4,100.0	4,062.0	1,220.0	1,219.0	15.8	4.1	5.37	-70.7	-43.3	2,864.5	2,858.7	5.81	492.643	
4,200.0	4,160.3	1,220.0	1,219.0	16.3	4.1	5.37	-70.7	-43.3	2,964.3	2,958.5	5.88	503.758	
4,300.0	4,258.5	1,220.0	1,219.0	16.7	4.1	5.37	-70.7	-43.3	3,064.2	3,058.2	5.96	514.121	
4,400.0	4,356.8	1,220.0	1,219.0	17.2	4.1	5.37	-70.7	-43.3	3,164.0	3,158.0	6.04	523.746	
4,500.0	4,455.1	1,220.0	1,219.0	17.6	4.1	5.37	-70.7	-43.3	3,263.9	3,257.7	6.13	532.655	
4,600.0	4,553.3	1,220.0	1,219.0	18.1	4.1	5.37	-70.7	-43.3	3,363.7	3,357.5	6.22	540.871	
4,700.0	4,651.6	1,220.0	1,219.0	18.5	4.1	5.37	-70.7	-43.3	3,463.6	3,457.3	6.32	548.419	
4,800.0	4,749.8	1,220.0	1,219.0	19.0	4.1	5.37	-70.7	-43.3	3,563.5	3,557.0	6.42	555.330	
4,900.0	4,848.1	1,220.0	1,219.0	19.5	4.1	5.37	-70.7	-43.3	3,663.3	3,656.8	6.52	561.631	
5,000.0	4,946.4	1,220.0	1,219.0	19.9	4.1	5.37	-70.7	-43.3	3,763.2	3,756.6	6.63	567.353	
5,100.0	5,044.6	1,220.0	1,219.0	20.4	4.1	5.37	-70.7	-43.3	3,863.1	3,856.4	6.75	572.525	
5,200.0	5,142.9	1,220.0	1,219.0	20.8	4.1	5.37	-70.7	-43.3	3,963.0	3,956.2	6.87	577.179	
5,300.0	5,241.2	1,220.0	1,219.0	21.3	4.1	5.37	-70.7	-43.3	4,062.9	4,055.9	6.99	581.341	
5,400.0	5,339.4	1,220.0	1,219.0	21.8	4.1	5.37	-70.7	-43.3	4,162.8	4,155.7	7.12	585.041	
5,500.0	5,437.7	1,220.0	1,219.0	22.2	4.1	5.37	-70.7	-43.3	4,262.7	4,255.5	7.25	588.307	
5,600.0	5,536.0	1,220.0	1,219.0	22.7	4.1	5.37	-70.7	-43.3	4,362.7	4,355.3	7.38	591.163	
5,700.0	5,634.2	1,220.0	1,219.0	23.1	4.1	5.37	-70.7	-43.3	4,462.6	4,455.1	7.52	593.634	
5,800.0	5,732.5	1,220.0	1,219.0	23.6	4.1	5.37	-70.7	-43.3	4,562.5	4,554.8	7.66	595.746	
5,900.0	5,830.7	1,220.0	1,219.0	24.1	4.1	5.37	-70.7	-43.3	4,662.4	4,654.6	7.80	597.519	
6,000.0	5,929.0	1,220.0	1,219.0	24.5	4.1	5.37	-70.7	-43.3	4,762.4	4,754.4	7.95	598.975	
6,100.0	6,027.3	1,220.0	1,219.0	25.0	4.1	5.37	-70.7	-43.3	4,862.3	4,854.2	8.10	600.135	
6,200.0	6,125.5	1,220.0	1,219.0	25.4	4.1	5.37	-70.7	-43.3	4,962.2	4,954.0	8.26	601.017	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
6,300.0	6,223.8	1,220.0	1,219.0	25.9	4.1	5.37	-70.7	-43.3	5,062.2	5,053.8	8.41	601.638	
6,400.0	6,322.1	1,220.0	1,219.0	26.4	4.1	5.37	-70.7	-43.3	5,162.1	5,153.5	8.57	602.017	
6,500.0	6,420.3	1,220.0	1,219.0	26.8	4.1	5.37	-70.7	-43.3	5,262.0	5,253.3	8.74	602.168	
6,600.0	6,518.6	1,220.0	1,219.0	27.3	4.1	5.37	-70.7	-43.3	5,362.0	5,353.1	8.91	602.106	
6,700.0	6,616.8	1,220.0	1,219.0	27.8	4.1	5.37	-70.7	-43.3	5,461.9	5,452.9	9.08	601.845	
6,800.0	6,715.1	1,220.0	1,219.0	28.2	4.1	5.37	-70.7	-43.3	5,561.9	5,552.6	9.25	601.399	
6,900.0	6,813.4	1,220.0	1,219.0	28.7	4.1	5.37	-70.7	-43.3	5,661.8	5,652.4	9.42	600.779	
7,000.0	6,911.6	1,220.0	1,219.0	29.2	4.1	5.37	-70.7	-43.3	5,761.8	5,752.2	9.60	599.998	
7,100.0	7,009.9	1,220.0	1,219.0	29.6	4.1	5.37	-70.7	-43.3	5,861.7	5,852.0	9.78	599.065	
7,200.0	7,108.2	1,220.0	1,219.0	30.1	4.1	5.37	-70.7	-43.3	5,961.7	5,951.7	9.97	597.991	
7,300.0	7,206.4	1,220.0	1,219.0	30.6	4.1	5.37	-70.7	-43.3	6,061.7	6,051.5	10.16	596.786	
7,400.0	7,304.7	1,220.0	1,219.0	31.0	4.1	5.37	-70.7	-43.3	6,161.6	6,151.3	10.35	595.458	
7,500.0	7,403.0	1,220.0	1,219.0	31.5	4.1	5.37	-70.7	-43.3	6,261.6	6,251.0	10.54	594.017	
7,600.0	7,501.2	1,220.0	1,219.0	31.9	4.1	5.37	-70.7	-43.3	6,361.5	6,350.8	10.74	592.469	
7,700.0	7,599.5	1,220.0	1,219.0	32.4	4.1	5.37	-70.7	-43.3	6,461.5	6,450.6	10.94	590.823	
7,800.0	7,697.7	1,220.0	1,219.0	32.9	4.1	5.37	-70.7	-43.3	6,561.5	6,550.3	11.14	589.084	
7,833.5	7,730.7	1,220.0	1,219.0	33.0	4.1	5.37	-70.7	-43.3	6,595.0	6,583.8	11.21	588.482	
7,900.0	7,796.1	1,220.0	1,219.0	33.3	4.1	15.30	-70.7	-43.3	6,661.4	6,650.1	11.34	587.258	
8,000.0	7,894.9	1,220.0	1,219.0	33.8	4.1	171.86	-70.7	-43.3	6,761.4	6,749.9	11.55	585.363	
8,100.0	7,994.0	1,220.0	1,219.0	34.2	4.1	176.78	-70.7	-43.3	6,861.4	6,849.6	11.76	583.418	
8,200.0	8,093.5	1,220.0	1,219.0	34.6	4.1	178.01	-70.7	-43.3	6,961.2	6,949.3	11.97	581.430	
8,300.0	8,193.2	1,220.0	1,219.0	34.9	4.1	178.56	-70.7	-43.3	7,060.9	7,048.7	12.19	579.399	
8,400.0	8,293.1	1,220.0	1,219.0	35.3	4.1	178.88	-70.7	-43.3	7,160.3	7,147.9	12.40	577.329	
8,500.0	8,393.0	1,220.0	1,219.0	35.6	4.1	179.08	-70.7	-43.3	7,259.5	7,246.9	12.62	575.222	
8,546.5	8,439.5	1,220.0	1,219.0	35.8	4.1	19.16	-70.7	-43.3	7,305.5	7,292.7	12.72	574.247	
8,600.0	8,493.0	1,220.0	1,219.0	35.9	4.1	19.16	-70.7	-43.3	7,358.4	7,345.5	12.84	573.051	
8,700.0	8,593.0	1,220.0	1,219.0	36.2	4.1	19.16	-70.7	-43.3	7,457.2	7,444.1	13.07	570.736	
8,800.0	8,693.0	1,220.0	1,219.0	36.4	4.1	19.16	-70.7	-43.3	7,556.1	7,542.8	13.29	568.374	
8,900.0	8,793.0	1,220.0	1,219.0	36.7	4.1	19.16	-70.7	-43.3	7,655.0	7,641.5	13.53	565.968	
9,000.0	8,893.0	1,220.0	1,219.0	37.0	4.1	19.16	-70.7	-43.3	7,754.0	7,740.2	13.76	563.523	
9,100.0	8,993.0	1,220.0	1,219.0	37.3	4.1	19.16	-70.7	-43.3	7,852.9	7,838.9	14.00	561.043	
9,200.0	9,093.0	1,220.0	1,219.0	37.6	4.1	19.16	-70.7	-43.3	7,951.9	7,937.7	14.24	558.531	
9,300.0	9,193.0	1,220.0	1,219.0	37.8	4.1	19.16	-70.7	-43.3	8,050.9	8,036.5	14.48	555.991	
9,400.0	9,293.0	1,220.0	1,219.0	38.1	4.1	19.16	-70.7	-43.3	8,150.0	8,135.3	14.73	553.425	
9,446.5	9,339.5	1,220.0	1,219.0	38.3	4.1	19.16	-70.7	-43.3	8,196.0	8,181.2	14.84	552.225	
9,450.0	9,343.0	1,220.0	1,219.0	38.3	4.1	-68.21	-70.7	-43.3	8,199.5	8,184.7	14.85	552.137	
9,500.0	9,393.0	1,220.0	1,219.0	38.4	4.1	-43.01	-70.7	-43.3	8,248.9	8,233.9	14.97	550.917	
9,550.0	9,442.5	1,220.0	1,219.0	38.5	4.1	-29.88	-70.7	-43.3	8,297.6	8,282.5	15.09	549.815	
9,600.0	9,491.2	1,220.0	1,219.0	38.7	4.1	-22.63	-70.7	-43.3	8,345.4	8,330.2	15.21	548.822	
9,650.0	9,538.8	1,220.0	1,219.0	38.8	4.1	-18.18	-70.7	-43.3	8,392.0	8,376.7	15.32	547.926	
9,700.0	9,584.8	1,220.0	1,219.0	38.8	4.1	-15.24	-70.7	-43.3	8,436.9	8,421.5	15.42	547.109	
9,750.0	9,629.0	1,220.0	1,219.0	38.9	4.1	-13.17	-70.7	-43.3	8,479.9	8,464.3	15.52	546.341	
9,800.0	9,671.0	1,220.0	1,219.0	39.0	4.1	-11.66	-70.7	-43.3	8,520.6	8,505.0	15.62	545.583	
9,850.0	9,710.5	1,220.0	1,219.0	39.0	4.1	-10.52	-70.7	-43.3	8,558.9	8,543.2	15.71	544.784	
9,900.0	9,747.1	1,220.0	1,219.0	39.1	4.1	-9.63	-70.7	-43.3	8,594.4	8,578.6	15.80	543.884	
9,950.0	9,780.7	1,220.0	1,219.0	39.1	4.1	-8.94	-70.7	-43.3	8,626.9	8,611.0	15.89	542.814	
10,000.0	9,810.9	1,220.0	1,219.0	39.1	4.1	-8.40	-70.7	-43.3	8,656.1	8,640.2	15.99	541.500	
10,050.0	9,837.5	1,220.0	1,219.0	39.1	4.1	-7.97	-70.7	-43.3	8,682.0	8,666.0	16.08	539.866	
10,100.0	9,860.3	1,220.0	1,219.0	39.1	4.1	-7.63	-70.7	-43.3	8,704.4	8,688.2	16.18	537.843	
10,106.5	9,862.9	1,220.0	1,219.0	39.1	4.1	-7.59	-70.7	-43.3	8,707.0	8,690.8	16.19	537.733	
10,200.0	9,899.6	1,220.0	1,219.0	39.1	4.1	-7.49	-70.7	-43.3	8,743.5	8,727.1	16.43	532.214	
10,300.0	9,935.6	1,220.0	1,219.0	39.1	4.1	-7.38	-70.7	-43.3	8,780.3	8,763.6	16.72	525.232	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,400.0	9,968.4	1,220.0	1,219.0	39.1	4.1	-7.29	-70.7	-43.3	8,815.0	8,797.9	17.04	517.199	
10,500.0	9,997.8	1,220.0	1,219.0	39.2	4.1	-7.20	-70.7	-43.3	8,847.3	8,829.9	17.41	508.242	
10,600.0	10,023.9	1,220.0	1,219.0	39.6	4.1	-7.12	-70.7	-43.3	8,877.4	8,859.6	17.81	498.502	
10,700.0	10,046.6	1,220.0	1,219.0	40.4	4.1	-7.05	-70.7	-43.3	8,905.2	8,887.0	18.24	488.125	
10,800.0	10,065.9	1,220.0	1,219.0	41.5	4.1	-6.99	-70.7	-43.3	8,930.7	8,912.0	18.71	477.258	
10,900.0	10,081.8	1,220.0	1,219.0	42.7	4.1	-6.93	-70.7	-43.3	8,953.9	8,934.7	19.21	466.036	
11,000.0	10,094.2	1,220.0	1,219.0	44.0	4.1	-6.88	-70.7	-43.3	8,974.8	8,955.0	19.74	454.587	
11,100.0	10,103.2	1,220.0	1,219.0	45.4	4.1	-6.84	-70.7	-43.3	8,993.3	8,973.0	20.30	443.025	
11,200.0	10,108.6	1,220.0	1,219.0	46.9	4.1	-6.80	-70.7	-43.3	9,009.5	8,988.6	20.88	431.449	
11,293.4	10,110.6	1,220.0	1,219.0	48.3	4.1	-6.77	-70.7	-43.3	9,022.5	9,001.1	21.45	420.699	
11,300.0	10,110.6	1,220.0	1,219.0	48.4	4.1	-6.77	-70.7	-43.3	9,023.4	9,001.9	21.49	419.954	
11,400.0	10,111.1	1,220.0	1,219.0	50.0	4.1	-6.77	-70.7	-43.3	9,036.9	9,014.7	22.11	408.651	
11,500.0	10,111.5	1,220.0	1,219.0	51.7	4.1	-6.77	-70.7	-43.3	9,051.4	9,028.6	22.76	397.700	
11,600.0	10,112.0	1,220.0	1,219.0	53.5	4.1	-6.77	-70.7	-43.3	9,067.0	9,043.6	23.42	387.138	
11,700.0	10,112.4	1,220.0	1,219.0	55.3	4.1	-6.77	-70.7	-43.3	9,083.7	9,059.6	24.10	376.989	
11,800.0	10,112.9	1,220.0	1,219.0	57.1	4.1	-6.77	-70.7	-43.3	9,101.5	9,076.7	24.78	367.266	
11,900.0	10,113.3	1,220.0	1,219.0	59.0	4.1	-6.77	-70.7	-43.3	9,120.3	9,094.9	25.48	357.973	
12,000.0	10,113.8	1,220.0	1,219.0	60.9	4.1	-6.77	-70.7	-43.3	9,140.2	9,114.0	26.18	349.108	
12,100.0	10,114.3	1,220.0	1,219.0	62.9	4.1	-6.77	-70.7	-43.3	9,161.2	9,134.3	26.89	340.664	
12,200.0	10,114.7	1,220.0	1,219.0	64.9	4.1	-6.77	-70.7	-43.3	9,183.1	9,155.5	27.61	332.630	
12,300.0	10,115.2	1,220.0	1,219.0	66.9	4.1	-6.77	-70.7	-43.3	9,206.1	9,177.8	28.33	324.993	
12,400.0	10,115.6	1,220.0	1,219.0	68.9	4.1	-6.77	-70.7	-43.3	9,230.2	9,201.1	29.05	317.739	
12,500.0	10,116.1	1,220.0	1,219.0	71.0	4.1	-6.77	-70.7	-43.3	9,255.2	9,225.5	29.77	310.852	
12,600.0	10,116.5	1,220.0	1,219.0	73.1	4.1	-6.77	-70.7	-43.3	9,281.3	9,250.8	30.50	304.316	
12,700.0	10,117.0	1,220.0	1,219.0	75.2	4.1	-6.77	-70.7	-43.3	9,308.4	9,277.1	31.22	298.115	
12,800.0	10,117.4	1,220.0	1,219.0	77.4	4.1	-6.77	-70.7	-43.3	9,336.4	9,304.5	31.95	292.232	
12,900.0	10,117.9	1,220.0	1,219.0	79.5	4.1	-6.77	-70.7	-43.3	9,365.5	9,332.8	32.67	286.652	
13,000.0	10,118.4	1,220.0	1,219.0	81.7	4.1	-6.77	-70.7	-43.3	9,395.5	9,362.1	33.39	281.359	
13,100.0	10,118.8	1,220.0	1,219.0	83.9	4.1	-6.77	-70.7	-43.3	9,426.5	9,392.4	34.11	276.339	
13,200.0	10,119.3	1,220.0	1,219.0	86.1	4.1	-6.77	-70.7	-43.3	9,458.4	9,423.6	34.83	271.577	
13,300.0	10,119.7	1,220.0	1,219.0	88.3	4.1	-6.77	-70.7	-43.3	9,491.3	9,455.8	35.54	267.059	
13,400.0	10,120.2	1,220.0	1,219.0	90.5	4.1	-6.77	-70.7	-43.3	9,525.1	9,488.9	36.25	262.773	
13,500.0	10,120.6	1,220.0	1,219.0	92.8	4.1	-6.77	-70.7	-43.3	9,559.9	9,522.9	36.95	258.706	
13,600.0	10,121.1	1,220.0	1,219.0	95.0	4.1	-6.77	-70.7	-43.3	9,595.5	9,557.9	37.65	254.847	
13,700.0	10,121.6	1,220.0	1,219.0	97.3	4.1	-6.77	-70.7	-43.3	9,632.1	9,593.7	38.35	251.185	
13,800.0	10,122.0	1,220.0	1,219.0	99.5	4.1	-6.77	-70.7	-43.3	9,669.6	9,630.5	39.04	247.710	
13,900.0	10,122.5	1,220.0	1,219.0	101.8	4.1	-6.77	-70.7	-43.3	9,707.9	9,668.2	39.72	244.411	
14,000.0	10,122.9	1,220.0	1,219.0	104.1	4.1	-6.77	-70.7	-43.3	9,747.1	9,706.7	40.40	241.280	
14,100.0	10,123.4	1,220.0	1,219.0	106.4	4.1	-6.77	-70.7	-43.3	9,787.2	9,746.2	41.07	238.309	
14,200.0	10,123.8	1,220.0	1,219.0	108.7	4.1	-6.77	-70.7	-43.3	9,828.2	9,786.4	41.74	235.487	
14,300.0	10,124.3	1,220.0	1,219.0	111.0	4.1	-6.77	-70.7	-43.3	9,870.0	9,827.6	42.39	232.809	
14,400.0	10,124.8	1,220.0	1,219.0	113.3	4.1	-6.77	-70.7	-43.3	9,912.6	9,869.5	43.05	230.268	
14,500.0	10,125.2	1,220.0	1,219.0	115.6	4.1	-6.77	-70.7	-43.3	9,956.0	9,912.3	43.69	227.855	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	-1.0	0.0	0.0	-164.89	-110.2	-29.8	114.2				
100.0	100.0	101.0	99.0	0.1	0.1	-164.89	-110.2	-29.8	114.2	113.9	0.26	439.360	
200.0	200.0	201.0	199.0	0.5	0.5	-164.89	-110.2	-29.8	114.2	113.2	0.98	116.894	
300.0	300.0	301.0	299.0	0.8	0.8	-164.89	-110.2	-29.8	114.2	112.5	1.69	67.415	
400.0	400.0	401.0	399.0	1.2	1.2	-164.89	-110.2	-29.8	114.2	111.8	2.41	47.366	
500.0	500.0	501.0	499.0	1.6	1.6	-164.89	-110.2	-29.8	114.2	111.1	3.13	36.508	
600.0	600.0	601.0	599.0	1.9	1.9	-164.89	-110.2	-29.8	114.2	110.3	3.84	29.700	
700.0	700.0	701.0	699.0	2.3	2.3	-164.89	-110.2	-29.8	114.2	109.6	4.56	25.032	
800.0	800.0	801.0	799.0	2.6	2.6	-164.89	-110.2	-29.8	114.2	108.9	5.28	21.632	
900.0	900.0	901.0	899.0	3.0	3.0	-164.89	-110.2	-29.8	114.2	108.2	6.00	19.046	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	-164.89	-110.2	-29.8	114.2	107.5	6.71	17.011	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	-164.89	-110.2	-29.8	114.2	106.8	7.43	15.370	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	-164.89	-110.2	-29.8	114.2	106.0	8.15	14.017	
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	-4.94	-110.2	-29.8	113.3	104.5	8.85	12.810	
1,400.0	1,400.0	1,401.0	1,399.0	4.7	4.8	-5.06	-110.2	-29.8	110.7	101.2	9.53	11.614	
1,500.0	1,499.9	1,501.1	1,498.9	5.1	5.2	-5.27	-110.2	-29.8	106.4	96.1	10.22	10.404	
1,600.0	1,599.7	1,601.3	1,598.7	5.4	5.5	-5.59	-110.2	-29.8	100.3	89.4	10.92	9.185	
1,700.0	1,699.4	1,698.4	1,698.4	5.8	5.9	-6.08	-110.2	-29.8	92.5	80.9	11.60	7.969	
1,800.0	1,798.9	1,798.3	1,798.3	6.1	6.2	-6.23	-109.8	-30.5	82.7	70.4	12.30	6.724	
1,900.0	1,898.3	1,898.0	1,897.9	6.5	6.6	-5.24	-108.5	-32.7	70.7	57.7	12.99	5.442	
2,000.0	1,997.4	1,997.2	1,997.1	6.8	6.9	-2.24	-106.3	-36.4	56.6	42.9	13.69	4.134	
2,100.0	2,096.3	2,095.9	2,095.6	7.2	7.3	5.23	-103.2	-41.5	40.8	26.4	14.38	2.835	
2,200.0	2,194.9	2,194.0	2,193.4	7.6	7.6	26.43	-99.3	-48.0	25.2	10.1	15.10	1.671	
2,269.4	2,263.2	2,261.6	2,260.7	7.9	7.9	62.18	-96.0	-53.3	19.5	3.9	15.64	1.247	Level 2
2,273.1	2,266.9	2,265.2	2,264.3	7.9	7.9	64.56	-95.9	-53.6	19.5	3.8	15.66	1.243	Level 2, CC, ES, SF
2,300.0	2,293.3	2,291.3	2,290.3	8.0	8.0	81.40	-94.5	-55.9	20.4	4.6	15.86	1.289	Level 3
2,400.0	2,391.5	2,388.2	2,386.5	8.4	8.3	118.72	-88.9	-65.1	35.8	19.3	16.52	2.167	
2,500.0	2,489.8	2,485.3	2,483.0	8.8	8.7	131.31	-83.0	-74.9	57.4	40.1	17.23	3.331	
2,600.0	2,588.1	2,582.5	2,579.5	9.2	9.0	136.94	-77.1	-84.7	80.1	62.2	17.94	4.467	
2,700.0	2,686.3	2,679.7	2,676.0	9.6	9.4	140.07	-71.2	-94.6	103.3	84.7	18.66	5.536	
2,800.0	2,784.6	2,776.8	2,772.5	10.1	9.8	142.05	-65.3	-104.4	126.7	107.3	19.39	6.533	
2,900.0	2,882.8	2,874.0	2,868.9	10.5	10.1	143.41	-59.4	-114.2	150.1	130.0	20.12	7.462	
3,000.0	2,981.1	2,971.1	2,965.4	10.9	10.5	144.40	-53.4	-124.0	173.7	152.8	20.85	8.327	
3,100.0	3,079.4	3,068.3	3,061.9	11.4	10.9	145.16	-47.5	-133.8	197.2	175.6	21.59	9.134	
3,200.0	3,177.6	3,165.4	3,158.4	11.8	11.2	145.76	-41.6	-143.6	220.8	198.5	22.33	9.888	
3,300.0	3,275.9	3,262.6	3,254.8	12.2	11.6	146.24	-35.7	-153.5	244.4	221.3	23.07	10.593	
3,400.0	3,374.2	3,359.8	3,351.3	12.7	12.0	146.63	-29.8	-163.3	268.0	244.2	23.82	11.253	
3,500.0	3,472.4	3,456.9	3,447.8	13.1	12.4	146.96	-23.9	-173.1	291.6	267.1	24.56	11.874	
3,600.0	3,570.7	3,554.1	3,544.3	13.6	12.7	147.25	-17.9	-182.9	315.3	290.0	25.31	12.457	
3,700.0	3,669.0	3,651.2	3,640.8	14.0	13.1	147.49	-12.0	-192.7	338.9	312.8	26.06	13.006	
3,800.0	3,767.2	3,748.4	3,737.2	14.5	13.5	147.70	-6.1	-202.5	362.5	335.7	26.81	13.524	
3,900.0	3,865.5	3,845.5	3,833.7	14.9	13.9	147.89	-0.2	-212.4	386.2	358.6	27.56	14.013	
4,000.0	3,963.7	3,942.7	3,930.2	15.4	14.3	148.05	5.7	-222.2	409.8	381.5	28.31	14.476	
4,100.0	4,062.0	4,039.9	4,026.7	15.8	14.6	148.20	11.6	-232.0	433.5	404.4	29.07	14.914	
4,200.0	4,160.3	4,137.0	4,123.2	16.3	15.0	148.33	17.5	-241.8	457.2	427.3	29.82	15.330	
4,300.0	4,258.5	4,234.2	4,219.6	16.7	15.4	148.44	23.5	-251.6	480.8	450.2	30.58	15.725	
4,400.0	4,356.8	4,331.3	4,316.1	17.2	15.8	148.55	29.4	-261.4	504.5	473.1	31.33	16.100	
4,500.0	4,455.1	4,428.5	4,412.6	17.6	16.2	148.65	35.3	-271.3	528.1	496.0	32.09	16.457	
4,600.0	4,553.3	4,525.6	4,509.1	18.1	16.6	148.74	41.2	-281.1	551.8	518.9	32.85	16.798	
4,700.0	4,651.6	4,622.8	4,605.5	18.5	16.9	148.82	47.1	-290.9	575.5	541.8	33.61	17.122	
4,800.0	4,749.8	4,720.0	4,702.0	19.0	17.3	148.90	53.0	-300.7	599.1	564.7	34.37	17.432	
4,900.0	4,848.1	4,817.1	4,798.5	19.5	17.7	148.96	59.0	-310.5	622.8	587.7	35.13	17.729	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	4,914.3	4,895.0	19.9	18.1	149.03	64.9	-320.3	646.4	610.6	35.89	18.012	
5,100.0	5,044.6	5,011.4	4,991.5	20.4	18.5	149.09	70.8	-330.2	670.1	633.5	36.65	18.283	
5,200.0	5,142.9	5,108.6	5,087.9	20.8	18.9	149.14	76.7	-340.0	693.8	656.4	37.41	18.544	
5,300.0	5,241.2	5,205.7	5,184.4	21.3	19.2	149.20	82.6	-349.8	717.5	679.3	38.18	18.793	
5,400.0	5,339.4	5,302.9	5,280.9	21.8	19.6	149.25	88.5	-359.6	741.1	702.2	38.94	19.033	
5,500.0	5,437.7	5,400.1	5,377.4	22.2	20.0	149.29	94.5	-369.4	764.8	725.1	39.70	19.263	
5,600.0	5,536.0	5,502.8	5,473.8	22.7	20.4	149.33	100.4	-379.3	788.5	748.0	40.49	19.474	
5,700.0	5,634.2	5,597.8	5,573.7	23.1	20.8	149.38	106.5	-389.3	812.1	770.8	41.26	19.681	
5,800.0	5,732.5	5,711.3	5,686.7	23.6	21.2	149.55	112.1	-398.8	834.4	792.2	42.15	19.794	
5,900.0	5,830.7	5,825.6	5,800.7	24.1	21.7	149.89	116.1	-405.3	854.8	811.8	43.02	19.870	
6,000.0	5,929.0	5,940.5	5,915.6	24.5	22.1	150.39	118.3	-409.0	873.4	829.5	43.86	19.913	
6,100.0	6,027.3	6,051.2	6,026.3	25.0	22.5	151.01	118.8	-409.8	890.1	845.5	44.64	19.939	
6,200.0	6,125.5	6,149.5	6,124.5	25.4	22.8	151.57	118.8	-409.8	906.5	861.1	45.35	19.986	
6,300.0	6,223.8	6,247.7	6,222.8	25.9	23.1	152.12	118.8	-409.8	922.9	876.8	46.07	20.034	
6,400.0	6,322.1	6,346.0	6,321.1	26.4	23.5	152.65	118.8	-409.8	939.4	892.6	46.78	20.082	
6,500.0	6,420.3	6,444.3	6,419.3	26.8	23.8	153.16	118.8	-409.8	956.0	908.5	47.49	20.131	
6,600.0	6,518.6	6,542.5	6,517.6	27.3	24.1	153.65	118.8	-409.8	972.6	924.4	48.20	20.179	
6,700.0	6,616.8	6,640.8	6,615.8	27.8	24.5	154.12	118.8	-409.8	989.3	940.4	48.91	20.228	
6,800.0	6,715.1	6,739.1	6,714.1	28.2	24.8	154.58	118.8	-409.8	1,006.1	956.5	49.62	20.276	
6,900.0	6,813.4	6,837.3	6,812.4	28.7	25.1	155.03	118.8	-409.8	1,023.0	972.6	50.33	20.324	
7,000.0	6,911.6	6,935.6	6,910.6	29.2	25.5	155.46	118.8	-409.8	1,039.9	988.8	51.04	20.372	
7,100.0	7,009.9	7,033.8	7,008.9	29.6	25.8	155.87	118.8	-409.8	1,056.8	1,005.1	51.76	20.420	
7,200.0	7,108.2	7,132.1	7,107.2	30.1	26.1	156.28	118.8	-409.8	1,073.8	1,021.4	52.47	20.467	
7,300.0	7,206.4	7,230.4	7,205.4	30.6	26.5	156.67	118.8	-409.8	1,090.9	1,037.7	53.18	20.514	
7,400.0	7,304.7	7,328.6	7,303.7	31.0	26.8	157.05	118.8	-409.8	1,108.0	1,054.1	53.89	20.560	
7,500.0	7,403.0	7,422.9	7,397.9	31.5	27.1	157.44	118.8	-409.1	1,125.2	1,070.7	54.57	20.620	
7,600.0	7,501.2	7,506.1	7,480.4	31.9	27.4	158.25	120.0	-399.1	1,143.4	1,088.3	55.12	20.743	
7,700.0	7,599.5	7,582.9	7,554.6	32.4	27.6	159.49	122.2	-379.5	1,163.4	1,107.9	55.57	20.937	
7,800.0	7,697.7	7,650.0	7,616.7	32.9	27.7	160.94	125.0	-354.4	1,186.0	1,130.1	55.88	21.223	
7,833.5	7,730.7	7,672.9	7,637.2	33.0	27.8	161.51	126.1	-344.2	1,194.2	1,138.2	55.97	21.338	
7,900.0	7,796.1	7,712.2	7,671.3	33.3	27.8	162.63	128.3	-324.8	1,211.3	1,155.2	56.07	21.603	
8,000.0	7,894.9	7,765.3	7,715.1	33.8	27.9	164.27	131.6	-295.0	1,238.2	1,182.1	56.09	22.077	
8,100.0	7,994.0	7,811.6	7,750.9	34.2	28.0	165.82	134.9	-265.9	1,267.2	1,211.3	55.93	22.658	
8,200.0	8,093.5	7,850.0	7,778.7	34.6	28.1	167.18	137.9	-239.6	1,298.5	1,242.9	55.57	23.367	
8,300.0	8,193.2	7,887.6	7,804.2	34.9	28.2	168.56	140.9	-212.1	1,332.3	1,277.2	55.08	24.191	
8,400.0	8,293.1	7,918.8	7,823.9	35.3	28.2	169.74	143.6	-188.0	1,368.7	1,314.3	54.39	25.164	
8,500.0	8,393.0	7,950.0	7,842.3	35.6	28.3	170.93	146.5	-163.0	1,407.8	1,354.2	53.60	26.265	
8,546.5	8,439.5	7,950.0	7,842.3	35.8	28.3	10.99	146.5	-163.0	1,426.8	1,373.8	53.01	26.915	
8,600.0	8,493.0	7,971.1	7,853.9	35.9	28.4	11.73	148.4	-145.5	1,449.6	1,397.1	52.58	27.572	
8,700.0	8,593.0	8,000.0	7,868.8	36.2	28.5	12.76	151.2	-120.9	1,496.0	1,444.4	51.59	28.998	
8,800.0	8,693.0	8,000.0	7,868.8	36.4	28.5	12.76	151.2	-120.9	1,546.8	1,496.6	50.20	30.812	
8,900.0	8,793.0	8,029.1	7,882.5	36.7	28.6	13.81	154.0	-95.3	1,601.5	1,552.3	49.20	32.555	
9,000.0	8,893.0	8,050.0	7,891.5	37.0	28.7	14.58	156.1	-76.6	1,660.2	1,612.1	48.09	34.521	
9,100.0	8,993.0	8,050.0	7,891.5	37.3	28.7	14.58	156.1	-76.6	1,722.3	1,675.6	46.75	36.845	
9,200.0	9,093.0	8,070.5	7,899.6	37.6	28.7	15.33	158.2	-58.0	1,787.5	1,741.8	45.72	39.101	
9,300.0	9,193.0	8,081.7	7,903.8	37.8	28.8	15.74	159.4	-47.6	1,855.6	1,811.0	44.62	41.587	
9,400.0	9,293.0	8,100.0	7,910.2	38.1	28.9	16.42	161.3	-30.6	1,926.3	1,882.6	43.68	44.104	
9,446.5	9,339.5	8,100.0	7,910.2	38.3	28.9	16.42	161.3	-30.6	1,959.9	1,916.8	43.15	45.418	
9,450.0	9,343.0	8,100.0	7,910.2	38.3	28.9	-72.97	161.3	-30.6	1,962.5	1,919.4	43.11	45.519	
9,500.0	9,393.0	8,100.0	7,910.2	38.4	28.9	-68.01	161.3	-30.6	1,998.7	1,956.2	42.56	46.965	
9,550.0	9,442.5	8,100.0	7,910.2	38.5	28.9	-63.36	161.3	-30.6	2,034.4	1,992.4	42.01	48.431	
9,600.0	9,491.2	8,100.0	7,910.2	38.7	28.9	-59.08	161.3	-30.6	2,069.4	2,027.9	41.47	49.906	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,650.0	9,538.8	8,121.8	7,917.1	38.8	29.0	-54.74	163.6	-10.0	2,102.9	2,061.7	41.20	51.038	
9,700.0	9,584.8	8,129.8	7,919.4	38.8	29.0	-51.20	164.5	-2.4	2,135.2	2,094.5	40.78	52.364	
9,750.0	9,629.0	8,150.0	7,924.8	38.9	29.1	-47.90	166.6	16.9	2,166.2	2,125.7	40.50	53.487	
9,800.0	9,671.0	8,150.0	7,924.8	39.0	29.1	-45.32	166.6	16.9	2,195.2	2,155.1	40.02	54.847	
9,850.0	9,710.5	8,150.0	7,924.8	39.0	29.1	-43.06	166.6	16.9	2,222.4	2,182.8	39.58	56.147	
9,900.0	9,747.1	8,150.0	7,924.8	39.1	29.1	-41.09	166.6	16.9	2,247.7	2,208.5	39.18	57.368	
9,950.0	9,780.7	8,176.6	7,930.9	39.1	29.3	-39.24	169.5	42.6	2,270.3	2,231.2	39.09	58.085	
10,000.0	9,810.9	8,200.0	7,935.2	39.1	29.4	-37.73	172.1	65.5	2,291.0	2,252.0	38.99	58.760	
10,050.0	9,837.5	8,200.0	7,935.2	39.1	29.4	-36.57	172.1	65.5	2,308.9	2,270.2	38.73	59.614	
10,100.0	9,860.3	8,200.0	7,935.2	39.1	29.4	-35.60	172.1	65.5	2,324.5	2,285.9	38.54	60.312	
10,106.5	9,862.9	8,200.0	7,935.2	39.1	29.4	-35.49	172.1	65.5	2,326.3	2,287.8	38.52	60.393	
10,200.0	9,899.6	8,230.0	7,939.4	39.1	29.7	-35.13	175.4	95.1	2,352.3	2,313.8	38.57	60.992	
10,300.0	9,935.6	8,250.0	7,941.3	39.1	29.8	-34.75	177.6	114.8	2,380.5	2,341.8	38.67	61.557	
10,400.0	9,968.4	8,276.1	7,942.8	39.1	30.0	-34.37	180.5	140.7	2,408.9	2,369.9	38.97	61.820	
10,500.0	9,997.8	8,424.5	7,947.7	39.2	31.3	-33.78	193.2	288.5	2,435.4	2,395.2	40.13	60.692	
10,600.0	10,023.9	8,592.0	7,953.3	39.6	33.2	-33.13	198.4	455.8	2,455.9	2,414.2	41.66	58.947	
10,700.0	10,046.6	8,709.9	7,956.5	40.4	34.7	-32.70	199.0	553.8	2,472.4	2,429.3	43.04	57.450	
10,800.0	10,065.9	8,788.8	7,959.8	41.5	35.9	-32.36	199.6	652.5	2,486.0	2,441.8	44.24	56.194	
10,900.0	10,081.8	8,888.0	7,963.1	42.7	37.4	-32.09	200.3	751.6	2,496.7	2,451.0	45.77	54.548	
11,000.0	10,094.2	8,987.6	7,966.4	44.0	39.0	-31.89	200.9	851.2	2,504.5	2,457.0	47.45	52.782	
11,100.0	10,103.2	9,087.4	7,969.7	45.4	40.7	-31.78	201.6	950.9	2,509.3	2,460.0	49.26	50.935	
11,200.0	10,108.6	9,187.4	7,973.0	46.9	42.4	-31.73	202.2	1,050.8	2,511.2	2,459.9	51.21	49.035	
11,293.4	10,110.6	9,280.8	7,976.1	48.3	44.2	-31.75	202.8	1,144.2	2,510.2	2,457.0	53.14	47.239	
11,300.0	10,110.6	9,287.4	7,976.3	48.4	44.3	-31.76	202.8	1,150.8	2,510.0	2,456.7	53.28	47.113	
11,400.0	10,111.1	9,387.3	7,979.6	50.0	46.2	-31.79	203.5	1,250.7	2,507.6	2,452.2	55.44	45.234	
11,500.0	10,111.5	9,487.3	7,982.9	51.7	48.1	-31.83	204.1	1,350.6	2,505.2	2,447.5	57.67	43.441	
11,600.0	10,112.0	9,587.3	7,986.2	53.5	50.1	-31.86	204.8	1,450.5	2,502.7	2,442.8	59.96	41.738	
11,700.0	10,112.4	9,687.2	7,989.5	55.3	52.1	-31.89	205.4	1,550.4	2,500.3	2,438.0	62.32	40.122	
11,800.0	10,112.9	9,787.2	7,992.8	57.1	54.2	-31.93	206.0	1,650.3	2,497.9	2,433.2	64.72	38.594	
11,900.0	10,113.3	9,887.1	7,996.1	59.0	56.3	-31.96	206.7	1,750.2	2,495.5	2,428.3	67.18	37.149	
12,000.0	10,113.8	9,987.1	7,999.4	60.9	58.4	-32.00	207.3	1,850.1	2,493.1	2,423.4	69.67	35.783	
12,100.0	10,114.3	10,087.1	8,002.7	62.9	60.6	-32.03	208.0	1,950.0	2,490.6	2,418.4	72.20	34.494	
12,200.0	10,114.7	10,187.0	8,006.0	64.9	62.7	-32.07	208.6	2,049.9	2,488.2	2,413.4	74.77	33.277	
12,300.0	10,115.2	10,287.0	8,009.3	66.9	64.9	-32.10	209.2	2,149.8	2,485.8	2,408.4	77.38	32.127	
12,400.0	10,115.6	10,386.9	8,012.7	68.9	67.1	-32.14	209.9	2,249.7	2,483.4	2,403.4	80.01	31.040	
12,500.0	10,116.1	10,486.9	8,016.0	71.0	69.4	-32.17	210.5	2,349.6	2,481.0	2,398.3	82.66	30.012	
12,600.0	10,116.5	10,586.9	8,019.3	73.1	71.6	-32.21	211.2	2,449.5	2,478.6	2,393.2	85.35	29.040	
12,700.0	10,117.0	10,686.8	8,022.6	75.2	73.8	-32.24	211.8	2,549.4	2,476.1	2,388.1	88.05	28.120	
12,800.0	10,117.4	10,786.8	8,025.9	77.4	76.1	-32.28	212.4	2,649.3	2,473.7	2,382.9	90.78	27.249	
12,900.0	10,117.9	10,886.7	8,029.2	79.5	78.4	-32.31	213.1	2,749.2	2,471.3	2,377.8	93.53	26.422	
13,000.0	10,118.4	10,986.7	8,032.5	81.7	80.7	-32.35	213.7	2,849.1	2,468.9	2,372.6	96.30	25.638	
13,100.0	10,118.8	11,086.7	8,035.8	83.9	83.0	-32.38	214.4	2,949.0	2,466.5	2,367.4	99.08	24.893	
13,200.0	10,119.3	11,186.6	8,039.1	86.1	85.3	-32.42	215.0	3,048.9	2,464.1	2,362.2	101.88	24.185	
13,300.0	10,119.7	11,286.6	8,042.4	88.3	87.6	-32.45	215.6	3,148.8	2,461.7	2,357.0	104.70	23.511	
13,400.0	10,120.2	11,386.5	8,045.7	90.5	89.9	-32.49	216.3	3,248.7	2,459.3	2,351.7	107.53	22.870	
13,500.0	10,120.6	11,486.5	8,049.0	92.8	92.2	-32.53	216.9	3,348.6	2,456.9	2,346.5	110.38	22.258	
13,600.0	10,121.1	11,586.4	8,052.3	95.0	94.6	-32.56	217.6	3,448.5	2,454.4	2,341.2	113.24	21.675	
13,700.0	10,121.6	11,715.6	8,057.9	97.3	97.6	-32.62	218.4	3,577.6	2,451.2	2,334.6	116.59	21.024	
13,800.0	10,122.0	11,815.5	8,062.6	99.5	99.9	-32.68	219.0	3,677.4	2,447.6	2,328.0	119.51	20.480	
13,900.0	10,122.5	11,915.4	8,067.3	101.8	102.3	-32.73	219.7	3,777.2	2,444.0	2,321.5	122.45	19.959	
14,000.0	10,122.9	12,015.3	8,072.0	104.1	104.6	-32.79	220.3	3,877.0	2,440.4	2,315.0	125.40	19.460	
14,100.0	10,123.4	12,115.2	8,076.7	106.4	107.0	-32.84	220.9	3,976.8	2,436.8	2,308.4	128.37	18.983	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	10,123.8	12,215.2	8,081.5	108.7	109.4	-32.89	221.6	4,076.6	2,433.2	2,301.9	131.35	18.525	
14,300.0	10,124.3	12,315.1	8,086.2	111.0	111.7	-32.95	222.2	4,176.3	2,429.6	2,295.3	134.34	18.086	
14,400.0	10,124.8	12,415.0	8,090.9	113.3	114.1	-33.00	222.9	4,276.1	2,426.0	2,288.7	137.34	17.665	
14,500.0	10,125.2	12,514.9	8,095.6	115.6	116.5	-33.06	223.5	4,375.9	2,422.5	2,282.1	140.35	17.260	
14,600.0	10,125.7	12,614.8	8,100.3	117.9	118.8	-33.11	224.1	4,475.7	2,418.9	2,275.5	143.37	16.871	
14,700.0	10,126.1	12,714.7	8,105.0	120.2	121.2	-33.17	224.8	4,575.5	2,415.3	2,268.9	146.41	16.497	
14,800.0	10,126.6	12,814.6	8,109.8	122.6	123.6	-33.22	225.4	4,675.3	2,411.7	2,262.3	149.45	16.137	
14,900.0	10,127.0	12,914.5	8,114.5	124.9	126.0	-33.28	226.1	4,775.1	2,408.2	2,255.7	152.51	15.790	
15,000.0	10,127.5	13,014.4	8,119.2	127.2	128.4	-33.33	226.7	4,874.9	2,404.6	2,249.0	155.58	15.456	
15,100.0	10,127.9	13,114.3	8,123.9	129.6	130.8	-33.39	227.3	4,974.7	2,401.0	2,242.4	158.65	15.134	
15,200.0	10,128.4	13,214.2	8,128.6	131.9	133.1	-33.45	228.0	5,074.5	2,397.5	2,235.7	161.74	14.823	
15,300.0	10,128.9	13,314.2	8,133.3	134.3	135.5	-33.50	228.6	5,174.3	2,393.9	2,229.1	164.84	14.523	
15,400.0	10,129.3	13,414.1	8,138.1	136.6	137.9	-33.56	229.3	5,274.1	2,390.4	2,222.4	167.94	14.233	
15,500.0	10,129.8	13,514.0	8,142.8	139.0	140.3	-33.62	229.9	5,373.9	2,386.8	2,215.8	171.06	13.953	
15,600.0	10,130.2	13,613.9	8,147.5	141.3	142.7	-33.67	230.5	5,473.7	2,383.3	2,209.1	174.18	13.683	
15,700.0	10,130.7	13,713.8	8,152.2	143.7	145.1	-33.73	231.2	5,573.5	2,379.7	2,202.4	177.32	13.421	
15,800.0	10,131.1	13,813.7	8,156.9	146.1	147.5	-33.79	231.8	5,673.3	2,376.2	2,195.7	180.46	13.167	
15,900.0	10,131.6	13,913.6	8,161.6	148.4	149.9	-33.84	232.4	5,773.1	2,372.6	2,189.0	183.61	12.922	
16,000.0	10,132.1	14,013.5	8,166.4	150.8	152.3	-33.90	233.1	5,872.9	2,369.1	2,182.3	186.78	12.684	
16,100.0	10,132.5	14,113.4	8,171.1	153.2	154.7	-33.96	233.7	5,972.7	2,365.5	2,175.6	189.95	12.454	
16,200.0	10,133.0	14,213.3	8,175.8	155.5	157.1	-34.02	234.4	6,072.5	2,362.0	2,168.9	193.13	12.230	
16,300.0	10,133.4	14,313.2	8,180.5	157.9	159.6	-34.07	235.0	6,172.3	2,358.5	2,162.1	196.32	12.014	
16,400.0	10,133.9	14,413.2	8,185.2	160.3	162.0	-34.13	235.6	6,272.1	2,354.9	2,155.4	199.52	11.803	
16,500.0	10,134.3	14,513.1	8,189.9	162.7	164.4	-34.19	236.3	6,371.8	2,351.4	2,148.7	202.72	11.599	
16,600.0	10,134.8	14,613.0	8,194.7	165.1	166.8	-34.25	236.9	6,471.6	2,347.9	2,141.9	205.94	11.401	
16,700.0	10,135.3	14,712.9	8,199.4	167.4	169.2	-34.31	237.6	6,571.4	2,344.3	2,135.2	209.16	11.208	
16,800.0	10,135.7	14,812.8	8,204.1	169.8	171.6	-34.37	238.2	6,671.2	2,340.8	2,128.4	212.40	11.021	
16,900.0	10,136.2	14,912.7	8,208.8	172.2	174.0	-34.43	238.8	6,771.0	2,337.3	2,121.6	215.64	10.839	
17,000.0	10,136.6	15,012.6	8,213.5	174.6	176.4	-34.48	239.5	6,870.8	2,333.8	2,114.9	218.89	10.662	
17,100.0	10,137.1	15,112.5	8,218.2	177.0	178.9	-34.54	240.1	6,970.6	2,330.2	2,108.1	222.15	10.490	
17,200.0	10,137.5	15,212.4	8,223.0	179.4	181.3	-34.60	240.8	7,070.4	2,326.7	2,101.3	225.42	10.322	
17,300.0	10,138.0	15,312.3	8,227.7	181.8	183.7	-34.66	241.4	7,170.2	2,323.2	2,094.5	228.70	10.159	
17,400.0	10,138.4	15,412.2	8,232.4	184.2	186.1	-34.72	242.0	7,270.0	2,319.7	2,087.7	231.98	10.000	
17,411.2	10,138.5	15,423.5	8,232.9	184.4	186.4	-34.73	242.1	7,281.2	2,319.3	2,087.0	232.35	9.982	
17,411.8	10,138.5	15,424.0	8,233.0	184.5	186.4	-34.73	242.1	7,281.7	2,319.3	2,086.9	232.40	9.980	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	179.91	-110.3	0.2	110.3				
100.0	100.0	99.2	99.2	0.1	0.1	-179.98	-110.2	0.0	110.2	109.9	0.28	400.676	
200.0	200.0	199.9	199.9	0.5	0.4	-179.62	-109.9	-0.7	109.9	109.0	0.86	127.554	
300.0	300.0	301.0	301.0	0.8	0.7	-179.09	-108.5	-1.7	108.5	106.9	1.59	68.450	
400.0	400.0	401.6	401.6	1.2	1.1	-178.47	-106.3	-2.8	106.3	104.0	2.30	46.140	
500.0	500.0	502.1	502.0	1.6	1.5	-177.48	-103.5	-4.6	103.7	100.7	3.02	34.298	
600.0	600.0	602.5	602.3	1.9	1.8	-176.37	-100.3	-6.4	100.5	96.8	3.74	26.862	
700.0	700.0	702.5	702.2	2.3	2.2	-175.04	-96.8	-8.4	97.2	92.8	4.46	21.797	
800.0	800.0	802.9	802.5	2.6	2.5	-173.25	-93.1	-11.0	93.8	88.7	5.18	18.109	
900.0	900.0	901.7	901.3	3.0	2.9	-171.40	-89.1	-13.5	90.2	84.3	5.90	15.296	
1,000.0	1,000.0	1,000.7	1,000.2	3.4	3.3	-170.45	-87.4	-14.7	88.7	82.1	6.61	13.416	
1,067.1	1,067.1	1,066.6	1,066.1	3.6	3.5	-170.09	-86.6	-15.1	88.0	80.9	7.08	12.425	CC, ES
1,100.0	1,100.0	1,098.2	1,097.7	3.7	3.6	-170.12	-86.9	-15.1	88.2	80.9	7.30	12.076	
1,200.0	1,200.0	1,196.0	1,195.4	4.1	3.9	-170.83	-89.9	-14.5	91.2	83.2	7.98	11.425	
1,300.0	1,300.0	1,296.1	1,295.4	4.4	4.2	-11.95	-94.2	-13.5	94.3	85.7	8.65	10.908	
1,400.0	1,400.0	1,393.3	1,392.5	4.7	4.6	-13.69	-99.2	-11.8	96.8	87.5	9.29	10.419	
1,500.0	1,499.9	1,491.7	1,490.6	5.1	4.9	-15.78	-106.9	-10.0	100.2	90.2	9.94	10.076	
1,600.0	1,599.7	1,588.5	1,587.0	5.4	5.2	-17.13	-116.4	-9.8	104.0	93.4	10.58	9.832	
1,700.0	1,699.4	1,689.1	1,686.9	5.8	5.6	-17.78	-127.4	-11.4	107.6	96.3	11.27	9.545	
1,800.0	1,798.9	1,785.9	1,783.0	6.1	5.9	-18.26	-139.0	-13.8	110.6	98.7	11.92	9.279	
1,900.0	1,898.3	1,885.1	1,881.2	6.5	6.3	-19.14	-152.7	-15.9	113.7	101.1	12.60	9.026	
2,000.0	1,997.4	1,984.7	1,979.9	6.8	6.7	-21.41	-166.4	-15.8	115.3	102.0	13.30	8.667	
2,100.0	2,096.3	2,077.6	2,071.2	7.2	7.0	-22.50	-182.8	-18.1	119.1	105.3	13.87	8.587	
2,200.0	2,194.9	2,174.5	2,165.6	7.6	7.4	-22.11	-204.0	-24.1	125.6	111.0	14.52	8.646	
2,269.4	2,263.2	2,244.2	2,233.3	7.9	7.7	-21.88	-219.8	-28.7	129.6	114.6	15.03	8.624	
2,300.0	2,293.3	2,274.6	2,262.9	8.0	7.9	-21.86	-226.6	-30.6	131.2	116.0	15.25	8.604	
2,400.0	2,391.5	2,373.5	2,358.8	8.4	8.3	-21.10	-249.5	-38.5	137.0	121.0	15.96	8.585	
2,500.0	2,489.8	2,474.3	2,456.3	8.8	8.8	-19.69	-272.8	-48.2	142.8	126.1	16.71	8.546	
2,600.0	2,588.1	2,575.8	2,554.9	9.2	9.2	-18.38	-295.1	-58.0	147.6	130.1	17.48	8.442	
2,700.0	2,686.3	2,675.9	2,652.2	9.6	9.7	-17.11	-316.5	-67.8	151.7	133.5	18.22	8.324	
2,800.0	2,784.6	2,775.5	2,749.0	10.1	10.2	-15.97	-337.9	-77.4	156.0	137.1	18.95	8.232	
2,900.0	2,882.8	2,876.5	2,847.2	10.5	10.6	-14.92	-359.4	-87.0	160.3	140.5	19.72	8.128	
3,000.0	2,981.1	2,978.3	2,946.4	10.9	11.1	-14.10	-380.1	-96.0	163.4	142.9	20.49	7.975	
3,100.0	3,079.4	3,078.9	3,044.8	11.4	11.6	-13.60	-399.8	-104.1	165.8	144.5	21.25	7.801	
3,200.0	3,177.6	3,179.5	3,143.2	11.8	12.1	-13.33	-419.3	-111.5	167.9	145.9	22.01	7.628	
3,300.0	3,275.9	3,277.3	3,238.8	12.2	12.5	-13.04	-438.5	-118.8	170.2	147.5	22.73	7.491	
3,400.0	3,374.2	3,377.4	3,336.4	12.7	13.0	-12.37	-458.9	-127.6	173.6	150.1	23.48	7.395	
3,500.0	3,472.4	3,477.8	3,434.5	13.1	13.5	-11.99	-479.2	-135.5	176.6	152.3	24.24	7.285	
3,600.0	3,570.7	3,571.5	3,525.6	13.6	13.9	-11.50	-499.2	-143.5	181.0	156.1	24.87	7.277	
3,700.0	3,669.0	3,668.4	3,619.1	14.0	14.4	-10.42	-522.3	-154.1	188.2	162.7	25.55	7.367	
3,800.0	3,767.2	3,768.3	3,715.3	14.5	15.0	-9.34	-546.7	-165.3	196.2	169.9	26.30	7.458	
3,900.0	3,865.5	3,869.8	3,813.3	14.9	15.5	-8.42	-571.0	-176.3	203.6	176.5	27.09	7.514	
4,000.0	3,963.7	3,972.1	3,912.3	15.4	16.0	-7.66	-594.5	-186.7	209.9	182.0	27.90	7.526	
4,100.0	4,062.0	4,075.1	4,012.3	15.8	16.5	-6.90	-616.8	-197.1	214.9	186.2	28.71	7.488	
4,200.0	4,160.3	4,176.3	4,110.8	16.3	17.1	-6.17	-637.5	-207.1	218.9	189.4	29.48	7.425	
4,300.0	4,258.5	4,275.2	4,207.1	16.7	17.5	-5.60	-658.0	-216.4	222.9	192.6	30.22	7.375	
4,400.0	4,356.8	4,374.0	4,303.2	17.2	18.0	-4.94	-678.8	-226.3	227.4	196.4	30.95	7.346	
4,500.0	4,455.1	4,473.9	4,400.3	17.6	18.6	-4.27	-700.0	-236.5	232.2	200.5	31.71	7.322	
4,600.0	4,553.3	4,574.6	4,498.3	18.1	19.1	-3.74	-721.3	-246.2	236.8	204.3	32.48	7.289	
4,700.0	4,651.6	4,676.2	4,597.2	18.5	19.6	-3.39	-742.5	-255.2	240.9	207.6	33.27	7.241	
4,800.0	4,749.8	4,778.5	4,697.1	19.0	20.1	-3.16	-763.2	-263.6	244.1	210.0	34.06	7.166	
4,900.0	4,848.1	4,881.4	4,797.8	19.5	20.6	-2.96	-782.9	-271.5	246.3	211.4	34.86	7.064	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	4,985.6	4,899.9	19.9	21.1	-2.88	-801.7	-278.7	247.0	211.3	35.67	6.925	
5,100.0	5,044.6	5,088.9	5,001.7	20.4	21.5	-2.81	-818.8	-285.3	246.2	209.7	36.45	6.753	
5,166.2	5,109.7	5,151.5	5,063.2	20.7	21.8	-2.78	-829.3	-289.3	245.7	208.8	36.92	6.654	
5,200.0	5,142.9	5,183.4	5,094.6	20.8	22.0	-2.78	-834.9	-291.4	245.8	208.6	37.15	6.616	
5,300.0	5,241.2	5,283.3	5,192.6	21.3	22.5	-2.74	-853.1	-298.1	246.6	208.7	37.91	6.504	
5,400.0	5,339.4	5,384.7	5,292.1	21.8	22.9	-2.68	-871.1	-304.9	247.0	208.3	38.69	6.385	
5,500.0	5,437.7	5,483.4	5,389.0	22.2	23.4	-2.42	-888.4	-312.4	247.5	208.1	39.43	6.278	
5,600.0	5,536.0	5,583.4	5,487.1	22.7	23.9	-1.85	-905.9	-321.3	248.4	208.2	40.18	6.182	
5,700.0	5,634.2	5,686.2	5,588.0	23.1	24.4	-1.33	-923.2	-330.0	248.5	207.6	40.97	6.066	
5,800.0	5,732.5	5,788.1	5,688.2	23.6	24.8	-0.88	-939.7	-338.1	247.9	206.1	41.74	5.939	
5,900.0	5,830.7	5,891.6	5,790.2	24.1	25.3	-0.49	-955.5	-345.7	246.1	203.6	42.52	5.789	
6,000.0	5,929.0	5,987.6	5,885.0	24.5	25.7	-0.11	-969.5	-352.5	243.6	200.4	43.24	5.634	
6,019.7	5,948.3	6,005.1	5,902.1	24.6	25.8	-0.03	-972.3	-353.9	243.5	200.2	43.37	5.615	
6,100.0	6,027.3	6,082.7	5,978.2	25.0	26.2	0.32	-986.2	-360.5	244.5	200.5	43.95	5.562	
6,200.0	6,125.5	6,179.4	6,073.0	25.4	26.6	0.62	-1,003.6	-368.3	245.6	201.0	44.67	5.499	
6,300.0	6,223.8	6,276.1	6,167.3	25.9	27.1	0.83	-1,023.5	-376.5	249.4	204.0	45.38	5.496	
6,400.0	6,322.1	6,379.8	6,268.6	26.4	27.6	0.89	-1,044.4	-384.5	252.5	206.3	46.21	5.464	
6,500.0	6,420.3	6,487.5	6,374.2	26.8	28.2	0.88	-1,064.2	-391.6	253.5	206.4	47.06	5.387	
6,600.0	6,518.6	6,593.8	6,479.0	27.3	28.6	0.85	-1,080.7	-397.5	251.3	203.5	47.85	5.252	
6,700.0	6,616.8	6,699.5	6,583.7	27.8	29.1	0.89	-1,094.7	-402.7	246.9	198.3	48.61	5.079	
6,800.0	6,715.1	6,804.0	6,687.4	28.2	29.5	0.74	-1,106.9	-406.3	240.3	191.0	49.35	4.871	
6,900.0	6,813.4	6,905.9	6,788.7	28.7	29.9	0.46	-1,117.5	-408.9	232.4	182.3	50.07	4.641	
7,000.0	6,911.6	7,007.9	6,890.2	29.2	30.3	0.19	-1,127.3	-411.2	223.5	172.7	50.79	4.401	
7,100.0	7,009.9	7,110.7	6,992.6	29.6	30.7	-0.18	-1,135.8	-412.9	213.2	161.7	51.49	4.141	
7,200.0	7,108.2	7,212.2	7,093.8	30.1	31.0	-0.57	-1,143.0	-414.1	201.6	149.5	52.19	3.864	
7,300.0	7,206.4	7,312.1	7,193.6	30.6	31.4	-0.90	-1,149.3	-415.4	189.4	136.5	52.90	3.580	
7,400.0	7,304.7	7,422.9	7,304.1	31.0	31.7	-2.58	-1,154.9	-412.3	174.8	121.5	53.29	3.281	
7,500.0	7,403.0	7,505.3	7,384.6	31.5	32.0	-8.83	-1,161.5	-396.9	159.9	105.3	54.67	2.925	
7,600.0	7,501.2	7,605.2	7,474.5	31.9	32.2	-25.26	-1,177.3	-357.3	157.2	100.4	56.79	2.768	
7,603.5	7,504.6	7,608.7	7,477.4	32.0	32.2	-25.99	-1,177.6	-355.5	157.2	100.3	56.89	2.762	SF
7,700.0	7,599.5	7,693.5	7,546.7	32.4	32.3	-45.30	-1,180.4	-306.6	165.8	106.8	59.02	2.809	
7,800.0	7,697.7	7,776.3	7,613.5	32.9	32.4	-62.53	-1,178.0	-257.9	193.9	134.7	59.16	3.277	
7,833.5	7,730.7	7,805.7	7,637.9	33.0	32.4	-67.55	-1,177.1	-241.4	206.3	147.1	59.19	3.485	
7,900.0	7,796.1	7,855.4	7,679.2	33.3	32.4	-75.28	-1,175.4	-213.9	234.7	176.5	58.21	4.031	
8,000.0	7,894.9	7,901.0	7,716.7	33.8	32.5	-81.70	-1,173.5	-188.0	286.4	232.9	53.55	5.349	
8,100.0	7,994.0	7,952.8	7,756.5	34.2	32.5	-88.02	-1,171.1	-154.9	348.4	297.9	50.48	6.903	
8,200.0	8,093.5	7,996.0	7,785.1	34.6	32.5	-92.88	-1,168.9	-122.7	421.1	373.6	47.43	8.877	
8,300.0	8,193.2	7,996.0	7,785.1	34.9	32.5	-94.76	-1,168.9	-122.7	499.2	457.8	41.41	12.055	
8,400.0	8,293.1	8,037.1	7,809.0	35.3	32.5	-98.91	-1,167.4	-89.3	581.0	540.8	40.14	14.472	
8,500.0	8,393.0	8,061.3	7,821.9	35.6	32.5	-101.96	-1,167.1	-68.8	665.7	627.6	38.08	17.483	
8,546.5	8,439.5	8,091.0	7,836.4	35.8	32.5	96.42	-1,167.4	-43.0	706.4	667.8	38.56	18.319	
8,600.0	8,493.0	8,091.0	7,836.4	35.9	32.5	96.42	-1,167.4	-43.0	752.5	715.6	36.88	20.406	
8,700.0	8,593.0	8,110.4	7,845.4	36.2	32.5	96.17	-1,167.6	-25.7	840.8	805.4	35.39	23.756	
8,800.0	8,693.0	8,143.1	7,860.1	36.4	32.5	95.67	-1,167.1	3.4	929.9	895.0	34.92	26.632	
8,900.0	8,793.0	8,173.8	7,873.5	36.7	32.5	95.13	-1,165.7	31.0	1,019.7	985.2	34.47	29.583	
9,000.0	8,893.0	8,186.0	7,878.7	37.0	32.5	94.91	-1,164.9	42.0	1,110.2	1,076.9	33.35	33.292	
9,100.0	8,993.0	8,216.8	7,891.3	37.3	32.5	94.33	-1,162.4	70.0	1,201.3	1,168.2	33.16	36.225	
9,200.0	9,093.0	8,234.1	7,898.1	37.6	32.4	94.00	-1,160.7	85.9	1,293.3	1,260.7	32.56	39.716	
9,300.0	9,193.0	8,250.1	7,904.0	37.8	32.4	93.69	-1,159.0	100.6	1,385.9	1,353.9	32.04	43.253	
9,400.0	9,293.0	8,281.0	7,914.8	38.1	32.4	93.09	-1,155.2	129.3	1,479.4	1,447.3	32.08	46.110	
9,446.5	9,339.5	8,281.0	7,914.8	38.3	32.4	93.09	-1,155.2	129.3	1,522.7	1,491.0	31.69	48.050	
9,450.0	9,343.0	8,281.0	7,914.8	38.3	32.4	3.29	-1,155.2	129.3	1,526.0	1,494.4	31.66	48.198	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	9,393.0	8,281.0	7,914.8	38.4	32.4	2.68	-1,155.2	129.3	1,572.0	1,540.8	31.22	50.358	
9,550.0	9,442.5	8,281.0	7,914.8	38.5	32.4	2.27	-1,155.2	129.3	1,616.3	1,585.6	30.71	52.636	
9,600.0	9,491.2	8,281.0	7,914.8	38.7	32.4	1.97	-1,155.2	129.3	1,658.9	1,628.8	30.15	55.018	
9,650.0	9,538.8	8,281.0	7,914.8	38.8	32.4	1.74	-1,155.2	129.3	1,699.6	1,670.0	29.56	57.489	
9,700.0	9,584.8	8,281.0	7,914.8	38.8	32.4	1.57	-1,155.2	129.3	1,738.1	1,709.2	28.95	60.034	
9,750.0	9,629.0	8,281.0	7,914.8	38.9	32.4	1.43	-1,155.2	129.3	1,774.4	1,746.1	28.33	62.630	
9,800.0	9,671.0	8,318.2	7,925.7	39.0	32.4	1.09	-1,150.1	164.5	1,806.4	1,777.9	28.49	63.396	
9,850.0	9,710.5	8,326.0	7,927.7	39.0	32.4	0.97	-1,148.9	172.0	1,836.9	1,808.9	28.00	65.613	
9,900.0	9,747.1	8,334.1	7,929.5	39.1	32.4	0.87	-1,147.7	179.7	1,864.5	1,837.0	27.51	67.782	
9,950.0	9,780.7	8,377.0	7,937.0	39.1	32.3	0.60	-1,141.0	221.5	1,890.9	1,863.3	27.67	68.349	
10,000.0	9,810.9	8,377.0	7,937.0	39.1	32.3	0.58	-1,141.0	221.5	1,912.0	1,884.9	27.04	70.720	
10,050.0	9,837.5	8,377.0	7,937.0	39.1	32.3	0.56	-1,141.0	221.5	1,930.1	1,903.6	26.47	72.928	
10,100.0	9,860.3	8,377.0	7,937.0	39.1	32.3	0.54	-1,141.0	221.5	1,945.2	1,919.3	25.97	74.906	
10,106.5	9,862.9	8,377.0	7,937.0	39.1	32.3	0.54	-1,141.0	221.5	1,947.0	1,921.1	25.91	75.151	
10,200.0	9,899.6	8,406.9	7,940.6	39.1	32.3	0.39	-1,136.1	250.8	1,972.0	1,946.4	25.59	77.057	
10,300.0	9,935.6	8,471.0	7,947.3	39.1	32.3	0.06	-1,124.8	313.5	1,997.7	1,972.0	25.75	77.596	
10,400.0	9,968.4	8,509.4	7,950.5	39.1	32.3	-0.13	-1,118.1	351.2	2,022.2	1,996.4	25.80	78.370	
10,500.0	9,997.8	8,566.0	7,953.7	39.2	32.6	-0.37	-1,109.3	406.9	2,046.0	2,019.8	26.15	78.226	
10,600.0	10,023.9	8,601.0	7,954.9	39.6	33.0	-0.50	-1,104.6	441.6	2,068.6	2,042.1	26.54	77.947	
10,700.0	10,046.6	8,660.0	7,955.3	40.4	33.6	-0.66	-1,098.3	500.3	2,090.5	2,063.3	27.17	76.930	
10,800.0	10,065.9	8,941.0	7,962.1	41.5	37.6	-0.43	-1,104.3	780.5	2,111.4	2,081.8	29.61	71.301	
10,900.0	10,081.8	9,001.2	7,967.4	42.7	38.6	-0.32	-1,107.9	840.3	2,118.8	2,088.5	30.28	69.974	
11,000.0	10,094.2	9,068.4	7,971.2	44.0	39.7	-0.19	-1,112.4	907.3	2,125.3	2,094.2	31.10	68.340	
11,100.0	10,103.2	9,178.5	7,978.0	45.4	41.6	-0.04	-1,117.1	1,017.1	2,128.1	2,095.7	32.34	65.801	
11,200.0	10,108.6	9,278.7	7,983.8	46.9	43.4	0.06	-1,120.2	1,117.0	2,127.7	2,094.2	33.51	63.493	
11,293.4	10,110.6	9,387.2	7,991.0	48.3	45.4	0.10	-1,120.9	1,225.3	2,123.4	2,088.7	34.74	61.126	
11,300.0	10,110.6	9,393.2	7,991.4	48.4	45.6	0.10	-1,120.9	1,231.3	2,123.0	2,088.2	34.81	60.988	
11,400.0	10,111.1	9,477.5	7,996.8	50.0	47.2	0.11	-1,120.7	1,315.4	2,117.0	2,081.2	35.86	59.040	
11,500.0	10,111.5	9,556.1	8,001.2	51.7	48.7	0.09	-1,119.5	1,393.9	2,112.0	2,075.1	36.88	57.263	
11,600.0	10,112.0	9,638.3	8,004.8	53.5	50.3	0.04	-1,117.2	1,476.0	2,108.0	2,070.0	37.96	55.533	
11,700.0	10,112.4	9,748.9	8,009.8	55.3	52.5	-0.01	-1,114.7	1,586.5	2,103.9	2,064.6	39.28	53.562	
11,800.0	10,112.9	9,832.1	8,013.5	57.1	54.2	-0.06	-1,112.5	1,669.6	2,100.0	2,059.6	40.41	51.961	
11,900.0	10,113.3	9,898.3	8,015.5	59.0	55.6	-0.10	-1,110.5	1,735.7	2,097.4	2,055.9	41.46	50.589	
12,000.0	10,113.8	10,080.0	8,025.2	60.9	59.4	-0.30	-1,101.9	1,916.9	2,091.5	2,048.2	43.31	48.290	
12,100.0	10,114.3	10,158.0	8,029.6	62.9	61.0	-0.43	-1,096.7	1,994.6	2,086.4	2,042.0	44.42	46.966	
12,200.0	10,114.7	10,232.5	8,033.0	64.9	62.6	-0.58	-1,090.7	2,068.7	2,082.3	2,036.8	45.53	45.737	
12,300.0	10,115.2	10,337.6	8,036.7	66.9	64.8	-0.81	-1,081.9	2,173.5	2,079.5	2,032.6	46.86	44.377	
12,400.0	10,115.6	10,455.5	8,042.6	68.9	67.4	-1.02	-1,073.6	2,290.9	2,074.9	2,026.6	48.31	42.948	
12,500.0	10,116.1	10,536.6	8,046.4	71.0	69.2	-1.18	-1,067.2	2,371.7	2,070.8	2,021.3	49.51	41.822	
12,600.0	10,116.5	10,701.3	8,054.9	73.1	72.8	-1.49	-1,055.4	2,535.7	2,066.6	2,015.2	51.36	40.240	
12,700.0	10,117.0	10,818.9	8,064.6	75.2	75.4	-1.62	-1,050.2	2,652.8	2,058.8	2,005.9	52.89	38.926	
12,800.0	10,117.4	10,902.8	8,071.0	77.4	77.3	-1.71	-1,046.5	2,736.3	2,051.7	1,997.5	54.16	37.882	
12,900.0	10,117.9	10,982.9	8,076.6	79.5	79.1	-1.80	-1,043.1	2,816.1	2,045.3	1,989.9	55.42	36.908	
13,000.0	10,118.4	11,055.7	8,080.7	81.7	80.8	-1.81	-1,042.2	2,888.9	2,040.2	1,983.6	56.64	36.019	
13,100.0	10,118.8	11,136.6	8,084.2	83.9	82.6	-1.77	-1,043.2	2,969.7	2,036.2	1,978.2	57.95	35.137	
13,200.0	10,119.3	11,207.0	8,086.5	86.1	84.2	-1.72	-1,044.6	3,040.0	2,033.4	1,974.2	59.19	34.352	
13,300.0	10,119.7	11,281.4	8,087.8	88.3	86.0	-1.67	-1,046.0	3,114.4	2,031.9	1,971.5	60.48	33.598	
13,400.0	10,120.2	11,369.3	8,088.5	90.5	88.0	-1.62	-1,047.3	3,202.3	2,031.6	1,969.7	61.87	32.839	
13,500.0	10,120.6	11,467.7	8,089.1	92.8	90.3	-1.54	-1,049.5	3,300.6	2,031.3	1,968.0	63.33	32.073	
13,600.0	10,121.1	11,602.3	8,090.4	95.0	93.4	-1.42	-1,052.7	3,435.2	2,030.9	1,965.8	65.06	31.214	
13,700.0	10,121.6	11,689.4	8,092.2	97.3	95.4	-1.34	-1,055.0	3,522.2	2,029.2	1,962.7	66.46	30.532	
13,800.0	10,122.0	11,777.7	8,093.3	99.5	97.5	-1.27	-1,057.2	3,610.5	2,028.3	1,960.4	67.87	29.883	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,900.0	10,122.5	11,887.8	8,094.6	101.8	100.1	-1.17	-1,059.9	3,720.5	2,027.6	1,958.1	69.44	29.198	
14,000.0	10,122.9	11,972.8	8,095.7	104.1	102.1	-1.10	-1,061.8	3,805.5	2,026.7	1,955.9	70.84	28.610	
14,047.4	10,123.1	12,012.2	8,095.9	105.2	103.0	-1.08	-1,062.2	3,844.9	2,026.6	1,955.1	71.50	28.346	
14,100.0	10,123.4	12,056.5	8,096.0	106.4	104.0	-1.06	-1,062.6	3,889.2	2,026.7	1,954.5	72.23	28.061	
14,200.0	10,123.8	12,196.8	8,096.9	108.7	107.3	-0.95	-1,065.9	4,029.4	2,026.7	1,952.7	74.01	27.383	
14,300.0	10,124.3	12,293.9	8,098.7	111.0	109.6	-0.82	-1,069.7	4,126.5	2,025.2	1,949.6	75.51	26.819	
14,400.0	10,124.8	12,372.0	8,099.7	113.3	111.5	-0.75	-1,071.9	4,204.5	2,024.3	1,947.4	76.88	26.331	
14,500.0	10,125.2	12,546.0	8,104.7	115.6	115.6	-0.65	-1,074.3	4,378.4	2,021.6	1,942.7	78.88	25.628	
14,600.0	10,125.7	12,633.7	8,108.5	117.9	117.7	-0.60	-1,075.5	4,466.0	2,017.8	1,937.5	80.32	25.123	
14,700.0	10,126.1	12,811.9	8,118.1	120.2	121.9	-0.45	-1,079.7	4,643.9	2,013.1	1,930.8	82.34	24.450	
14,800.0	10,126.6	12,921.6	8,127.2	122.6	124.6	-0.29	-1,084.6	4,753.1	2,005.2	1,921.3	83.93	23.891	
14,900.0	10,127.0	13,008.6	8,134.0	124.9	126.6	-0.14	-1,089.4	4,839.8	1,997.8	1,912.4	85.40	23.394	
15,000.0	10,127.5	13,093.8	8,140.1	127.2	128.7	0.01	-1,093.9	4,924.6	1,991.0	1,904.1	86.86	22.922	
15,100.0	10,127.9	13,178.6	8,145.6	129.6	130.7	0.15	-1,098.3	5,009.2	1,985.0	1,896.7	88.33	22.473	
15,200.0	10,128.4	13,268.5	8,150.8	131.9	132.9	0.30	-1,102.9	5,098.7	1,979.7	1,889.9	89.83	22.038	
15,300.0	10,128.9	13,367.9	8,156.3	134.3	135.2	0.45	-1,107.4	5,197.9	1,974.7	1,883.3	91.40	21.605	
15,400.0	10,129.3	13,470.2	8,162.1	136.6	137.7	0.58	-1,111.1	5,300.0	1,969.5	1,876.5	92.98	21.182	
15,500.0	10,129.8	13,561.0	8,167.1	139.0	139.9	0.66	-1,113.1	5,390.6	1,964.5	1,870.0	94.48	20.792	
15,600.0	10,130.2	13,646.3	8,171.2	141.3	141.9	0.69	-1,113.6	5,475.8	1,960.1	1,864.2	95.93	20.432	
15,700.0	10,130.7	13,732.5	8,174.7	143.7	144.0	0.67	-1,112.5	5,561.9	1,956.5	1,859.1	97.37	20.093	
15,800.0	10,131.1	13,820.2	8,177.7	146.1	146.1	0.64	-1,110.7	5,649.5	1,953.5	1,854.7	98.81	19.771	
15,900.0	10,131.6	13,912.2	8,180.3	148.4	148.3	0.57	-1,107.7	5,741.5	1,951.1	1,850.9	100.25	19.461	
16,000.0	10,132.1	14,008.1	8,182.9	150.8	150.6	0.50	-1,104.6	5,837.3	1,948.9	1,847.2	101.73	19.158	
16,100.0	10,132.5	14,097.8	8,184.8	153.2	152.7	0.45	-1,102.3	5,926.9	1,947.1	1,844.0	103.17	18.873	
16,200.0	10,133.0	14,192.8	8,186.5	155.5	155.0	0.39	-1,099.8	6,021.8	1,945.8	1,841.1	104.65	18.594	
16,300.0	10,133.4	14,287.1	8,188.1	157.9	157.3	0.30	-1,096.0	6,116.1	1,944.6	1,838.5	106.10	18.327	
16,400.0	10,133.9	14,371.3	8,188.9	160.3	159.3	0.19	-1,091.8	6,200.2	1,944.0	1,836.6	107.50	18.085	
16,421.4	10,134.0	14,389.9	8,189.0	160.8	159.7	0.17	-1,090.9	6,218.8	1,944.0	1,836.2	107.80	18.034	
16,500.0	10,134.3	14,471.9	8,189.2	162.7	161.7	0.05	-1,086.5	6,300.6	1,944.2	1,835.2	108.98	17.839	
16,600.0	10,134.8	16,600.0	8,198.4	165.1	213.0	0.00	-1,083.2	6,528.5	1,940.5	1,814.5	125.95	15.407	
16,700.0	10,135.3	14,840.3	8,210.8	167.4	170.6	0.01	-1,082.8	6,668.2	1,931.9	1,819.0	112.91	17.109	
16,800.0	10,135.7	14,939.8	8,220.2	169.8	173.0	0.00	-1,081.6	6,767.2	1,922.8	1,808.4	114.44	16.803	
16,900.0	10,136.2	15,018.1	8,227.0	172.2	174.8	-0.03	-1,080.1	6,845.2	1,914.6	1,798.7	115.87	16.523	
17,000.0	10,136.6	15,106.3	8,234.0	174.6	177.0	-0.09	-1,077.8	6,933.1	1,907.1	1,789.8	117.35	16.252	
17,100.0	10,137.1	15,178.1	8,238.9	177.0	178.7	-0.14	-1,075.5	7,004.7	1,900.8	1,782.0	118.74	16.007	
17,200.0	10,137.5	15,240.7	8,242.2	179.4	180.2	-0.20	-1,073.1	7,067.2	1,896.0	1,775.9	120.08	15.790	
17,300.0	10,138.0	15,300.9	8,244.0	181.8	181.6	-0.27	-1,070.6	7,127.2	1,893.4	1,772.0	121.37	15.600	
17,400.0	10,138.4	15,370.8	8,244.9	184.2	183.3	-0.35	-1,067.4	7,197.1	1,892.6	1,769.9	122.69	15.425	
17,400.4	10,138.5	15,371.1	8,244.9	184.2	183.3	-0.35	-1,067.3	7,197.4	1,892.6	1,769.9	122.70	15.425	
17,411.2	10,138.5	15,378.7	8,244.9	184.4	183.5	-0.36	-1,067.0	7,205.0	1,892.6	1,769.8	122.84	15.407	
17,411.8	10,138.5	15,379.0	8,244.9	184.5	183.5	-0.36	-1,067.0	7,205.3	1,892.6	1,769.8	122.84	15.407	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	-1.0	0.0	0.0	179.91	-110.3	0.2	110.3				
100.0	100.0	101.0	99.0	0.1	0.1	179.91	-110.3	0.2	110.3	110.0	0.26	424.342	
200.0	200.0	201.0	199.0	0.5	0.5	179.91	-110.3	0.2	110.3	109.3	0.98	112.898	
300.0	300.0	301.0	299.0	0.8	0.8	179.91	-110.3	0.2	110.3	108.6	1.69	65.111	
400.0	400.0	401.0	399.0	1.2	1.2	179.91	-110.3	0.2	110.3	107.9	2.41	45.747	
500.0	500.0	501.0	499.0	1.6	1.6	179.91	-110.3	0.2	110.3	107.2	3.13	35.261	
600.0	600.0	601.0	599.0	1.9	1.9	179.91	-110.3	0.2	110.3	106.4	3.84	28.685	
700.0	700.0	701.0	699.0	2.3	2.3	179.91	-110.3	0.2	110.3	105.7	4.56	24.177	
800.0	800.0	801.0	799.0	2.6	2.6	179.91	-110.3	0.2	110.3	105.0	5.28	20.893	
900.0	900.0	901.0	899.0	3.0	3.0	179.91	-110.3	0.2	110.3	104.3	6.00	18.395	
1,000.0	1,000.0	999.0	999.0	3.4	3.4	179.91	-110.3	0.2	110.3	103.6	6.71	16.447	
1,100.0	1,100.0	1,097.3	1,097.3	3.7	3.7	-179.93	-111.0	-0.1	111.1	103.7	7.40	15.010	
1,200.0	1,200.0	1,195.4	1,195.4	4.1	4.0	-179.46	-113.4	-1.1	113.4	105.4	8.08	14.040	
1,300.0	1,300.0	1,293.5	1,293.4	4.4	4.3	-18.85	-117.3	-2.6	116.6	107.8	8.74	13.334	
1,400.0	1,400.0	1,391.6	1,391.3	4.7	4.7	-18.24	-122.7	-4.8	119.7	110.3	9.40	12.740	
1,500.0	1,499.9	1,489.6	1,489.0	5.1	5.0	-17.64	-129.7	-7.6	122.8	112.7	10.05	12.213	
1,600.0	1,599.7	1,587.5	1,586.5	5.4	5.4	-17.05	-138.2	-11.1	125.8	115.1	10.71	11.744	
1,700.0	1,699.4	1,685.4	1,683.8	5.8	5.7	-16.46	-148.3	-15.1	128.8	117.4	11.38	11.322	
1,800.0	1,798.9	1,783.2	1,780.8	6.1	6.1	-15.89	-159.9	-19.8	131.8	119.7	12.05	10.941	
1,900.0	1,898.3	1,881.0	1,877.6	6.5	6.4	-15.32	-173.0	-25.1	134.7	122.0	12.71	10.595	
2,000.0	1,997.4	1,978.8	1,974.0	6.8	6.8	-14.76	-187.6	-31.0	137.6	124.2	13.38	10.279	
2,100.0	2,096.3	2,076.4	2,070.1	7.2	7.2	-14.20	-203.8	-37.6	140.4	126.4	14.06	9.989	
2,200.0	2,194.9	2,174.1	2,165.9	7.6	7.6	-13.65	-221.4	-44.7	143.2	128.5	14.73	9.722	
2,269.4	2,263.2	2,241.8	2,232.1	7.9	7.9	-13.26	-234.6	-50.0	145.1	129.9	15.20	9.549	
2,300.0	2,293.3	2,272.2	2,261.8	8.0	8.0	-13.09	-240.7	-52.4	146.0	130.6	15.42	9.470	
2,400.0	2,391.5	2,372.2	2,359.4	8.4	8.5	-12.54	-260.7	-60.5	148.9	132.7	16.14	9.222	
2,500.0	2,489.8	2,472.1	2,457.0	8.8	8.9	-12.02	-280.7	-68.6	151.7	134.9	16.87	8.993	
2,600.0	2,588.1	2,572.1	2,554.6	9.2	9.4	-11.51	-300.8	-76.7	154.6	137.0	17.61	8.783	
2,700.0	2,686.3	2,672.0	2,652.1	9.6	9.8	-11.02	-320.8	-84.8	157.5	139.2	18.34	8.588	
2,800.0	2,784.6	2,772.0	2,749.7	10.1	10.3	-10.54	-340.8	-92.9	160.4	141.3	19.08	8.408	
2,900.0	2,882.8	2,871.9	2,847.3	10.5	10.7	-10.09	-360.8	-100.9	163.3	143.5	19.82	8.241	
3,000.0	2,981.1	2,971.9	2,944.9	10.9	11.2	-9.65	-380.9	-109.0	166.3	145.7	20.56	8.086	
3,100.0	3,079.4	3,071.8	3,042.5	11.4	11.7	-9.23	-400.9	-117.1	169.2	147.9	21.31	7.941	
3,200.0	3,177.6	3,171.8	3,140.1	11.8	12.1	-8.82	-420.9	-125.2	172.2	150.1	22.05	7.806	
3,300.0	3,275.9	3,271.7	3,237.7	12.2	12.6	-8.42	-441.0	-133.3	175.1	152.3	22.80	7.680	
3,400.0	3,374.2	3,371.7	3,335.3	12.7	13.1	-8.04	-461.0	-141.4	178.1	154.5	23.55	7.562	
3,500.0	3,472.4	3,471.6	3,432.9	13.1	13.6	-7.67	-481.0	-149.5	181.1	156.8	24.30	7.451	
3,600.0	3,570.7	3,571.6	3,530.4	13.6	14.0	-7.31	-501.0	-157.5	184.0	159.0	25.05	7.347	
3,700.0	3,669.0	3,671.5	3,628.0	14.0	14.5	-6.96	-521.1	-165.6	187.0	161.2	25.80	7.248	
3,800.0	3,767.2	3,771.5	3,725.6	14.5	15.0	-6.63	-541.1	-173.7	190.0	163.5	26.55	7.156	
3,900.0	3,865.5	3,871.4	3,823.2	14.9	15.5	-6.30	-561.1	-181.8	193.0	165.7	27.31	7.068	
4,000.0	3,963.7	3,971.4	3,920.8	15.4	16.0	-5.98	-581.1	-189.9	196.0	168.0	28.06	6.985	
4,100.0	4,062.0	4,071.3	4,018.4	15.8	16.5	-5.68	-601.2	-198.0	199.0	170.2	28.81	6.907	
4,200.0	4,160.3	4,171.2	4,116.0	16.3	17.0	-5.38	-621.2	-206.0	202.0	172.5	29.57	6.833	
4,300.0	4,258.5	4,271.2	4,213.6	16.7	17.4	-5.09	-641.2	-214.1	205.1	174.7	30.33	6.762	
4,400.0	4,356.8	4,371.1	4,311.1	17.2	17.9	-4.81	-661.3	-222.2	208.1	177.0	31.08	6.695	
4,500.0	4,455.1	4,471.1	4,408.7	17.6	18.4	-4.54	-681.3	-230.3	211.1	179.3	31.84	6.631	
4,600.0	4,553.3	4,571.0	4,506.3	18.1	18.9	-4.28	-701.3	-238.4	214.2	181.6	32.60	6.570	
4,700.0	4,651.6	4,671.0	4,603.9	18.5	19.4	-4.02	-721.3	-246.5	217.2	183.8	33.35	6.512	
4,800.0	4,749.8	4,770.9	4,701.5	19.0	19.9	-3.77	-741.4	-254.5	220.2	186.1	34.11	6.456	
4,900.0	4,848.1	4,870.9	4,799.1	19.5	20.4	-3.53	-761.4	-262.6	223.3	188.4	34.87	6.403	
5,000.0	4,946.4	4,970.8	4,896.7	19.9	20.9	-3.29	-781.4	-270.7	226.3	190.7	35.63	6.352	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.0	5,044.6	5,070.8	4,994.3	20.4	21.4	-3.06	-801.4	-278.8	229.4	193.0	36.39	6.303	
5,200.0	5,142.9	5,170.7	5,091.8	20.8	21.9	-2.84	-821.5	-286.9	232.5	195.3	37.15	6.257	
5,300.0	5,241.2	5,270.7	5,189.4	21.3	22.4	-2.62	-841.5	-295.0	235.5	197.6	37.91	6.212	
5,400.0	5,339.4	5,370.6	5,287.0	21.8	22.8	-2.41	-861.5	-303.0	238.6	199.9	38.67	6.169	
5,500.0	5,437.7	5,470.6	5,384.6	22.2	23.3	-2.20	-881.6	-311.1	241.7	202.2	39.44	6.128	
5,600.0	5,536.0	5,570.5	5,482.2	22.7	23.8	-2.00	-901.6	-319.2	244.7	204.5	40.20	6.088	
5,700.0	5,634.2	5,670.5	5,579.8	23.1	24.3	-1.80	-921.6	-327.3	247.8	206.8	40.96	6.050	
5,800.0	5,732.5	5,770.4	5,677.4	23.6	24.8	-1.61	-941.6	-335.4	250.9	209.2	41.72	6.013	
5,900.0	5,830.7	5,870.4	5,775.0	24.1	25.3	-1.42	-961.7	-343.5	254.0	211.5	42.49	5.978	
6,000.0	5,929.0	5,970.3	5,872.5	24.5	25.8	-1.24	-981.7	-351.5	257.0	213.8	43.25	5.943	
6,100.0	6,027.3	6,070.3	5,970.1	25.0	26.3	-1.06	-1,001.7	-359.6	260.1	216.1	44.01	5.910	
6,200.0	6,125.5	6,170.2	6,067.7	25.4	26.8	-0.89	-1,021.7	-367.7	263.2	218.4	44.78	5.878	
6,300.0	6,223.8	6,270.2	6,165.3	25.9	27.3	-0.72	-1,041.8	-375.8	266.3	220.8	45.54	5.848	
6,400.0	6,322.1	6,377.0	6,269.8	26.4	27.8	-0.55	-1,062.0	-384.0	268.3	221.9	46.39	5.783	
6,500.0	6,420.3	6,484.5	6,375.7	26.8	28.3	-0.41	-1,079.7	-391.1	267.4	220.2	47.21	5.664	
6,600.0	6,518.6	6,591.9	6,481.8	27.3	28.8	-0.30	-1,094.6	-397.1	263.7	215.8	47.99	5.496	
6,700.0	6,616.8	6,699.0	6,588.1	27.8	29.2	-0.21	-1,106.7	-402.0	257.3	208.6	48.72	5.281	
6,800.0	6,715.1	6,805.6	6,694.3	28.2	29.6	-0.13	-1,116.0	-405.7	248.0	198.6	49.40	5.020	
6,900.0	6,813.4	6,911.6	6,800.0	28.7	30.0	-0.08	-1,122.5	-408.4	236.0	186.0	50.04	4.716	
7,000.0	6,911.6	7,016.8	6,905.1	29.2	30.3	-0.05	-1,126.3	-409.9	221.3	170.6	50.64	4.369	
7,100.0	7,009.9	7,120.6	7,008.9	29.6	30.6	-0.04	-1,127.4	-410.3	203.8	152.6	51.20	3.981	
7,200.0	7,108.2	7,218.8	7,107.2	30.1	30.9	-0.05	-1,127.4	-410.3	185.2	133.4	51.88	3.571	
7,300.0	7,206.4	7,326.7	7,205.4	30.6	31.2	-0.05	-1,127.4	-410.3	166.7	114.1	52.59	3.170	
7,400.0	7,304.7	7,415.3	7,303.7	31.0	31.4	-0.06	-1,127.4	-410.3	148.1	94.9	53.25	2.782	
7,500.0	7,403.0	7,517.1	7,405.4	31.5	31.7	-0.83	-1,127.4	-408.6	129.0	75.3	53.73	2.401	
7,600.0	7,501.2	7,618.7	7,505.4	31.9	31.9	-9.86	-1,127.2	-391.6	106.1	51.6	54.50	1.947	
7,700.0	7,599.5	7,709.6	7,591.2	32.4	32.1	-31.17	-1,127.1	-361.7	88.6	30.4	58.19	1.522	
7,724.4	7,623.4	7,729.8	7,609.6	32.5	32.1	-37.76	-1,127.0	-353.3	87.6	28.3	59.31	1.477	Level 3, CC, ES, SF
7,800.0	7,697.7	7,787.7	7,660.3	32.9	32.2	-57.72	-1,126.8	-325.5	98.2	38.2	60.01	1.637	
7,833.5	7,730.7	7,811.0	7,679.9	33.0	32.2	-65.14	-1,126.7	-312.9	109.5	50.8	58.74	1.864	
7,900.0	7,796.1	7,853.4	7,714.2	33.3	32.3	-76.89	-1,126.6	-288.0	141.2	86.1	55.05	2.564	
8,000.0	7,894.9	7,908.6	7,755.9	33.8	32.3	-88.07	-1,126.3	-251.8	203.5	153.7	49.70	4.093	
8,100.0	7,994.0	7,955.0	7,788.1	34.2	32.3	-94.84	-1,126.1	-218.4	275.6	230.1	45.47	6.062	
8,200.0	8,093.5	8,000.0	7,816.7	34.6	32.3	-99.77	-1,125.9	-183.7	353.7	310.9	42.83	8.257	
8,300.0	8,193.2	8,027.8	7,833.0	34.9	32.3	-103.04	-1,125.8	-161.2	435.5	396.2	39.36	11.066	
8,400.0	8,293.1	8,050.0	7,845.1	35.3	32.3	-105.97	-1,125.6	-142.6	520.3	483.8	36.48	14.264	
8,500.0	8,393.0	8,081.6	7,861.2	35.6	32.3	-108.88	-1,125.5	-115.4	607.0	571.8	35.22	17.237	
8,546.5	8,439.5	8,100.0	7,869.9	35.8	32.3	89.87	-1,125.4	-99.2	648.0	613.0	35.04	18.493	
8,600.0	8,493.0	8,100.0	7,869.9	35.9	32.3	89.87	-1,125.4	-99.2	695.5	662.1	33.39	20.826	
8,700.0	8,593.0	8,122.6	7,879.8	36.2	32.3	89.86	-1,125.2	-78.9	785.4	753.1	32.32	24.303	
8,800.0	8,693.0	8,150.0	7,890.8	36.4	32.3	89.84	-1,125.1	-53.8	876.9	845.1	31.80	27.576	
8,900.0	8,793.0	8,150.0	7,890.8	36.7	32.3	89.84	-1,125.1	-53.8	969.1	939.0	30.09	32.207	
9,000.0	8,893.0	8,166.9	7,896.9	37.0	32.3	89.83	-1,125.0	-38.0	1,062.4	1,032.8	29.51	36.001	
9,100.0	8,993.0	8,178.5	7,900.9	37.3	32.3	89.83	-1,124.9	-27.1	1,156.4	1,127.5	28.87	40.055	
9,200.0	9,093.0	8,200.0	7,907.6	37.6	32.3	89.82	-1,124.8	-6.7	1,251.2	1,222.4	28.74	43.531	
9,300.0	9,193.0	8,200.0	7,907.6	37.8	32.3	89.82	-1,124.8	-6.7	1,346.2	1,318.3	27.97	48.132	
9,400.0	9,293.0	8,200.0	7,907.6	38.1	32.3	89.82	-1,124.8	-6.7	1,442.0	1,414.6	27.37	52.689	
9,446.5	9,339.5	8,200.0	7,907.6	38.3	32.3	89.82	-1,124.8	-6.7	1,486.6	1,459.5	27.14	54.785	
9,450.0	9,343.0	8,200.0	7,907.6	38.3	32.3	0.07	-1,124.8	-6.7	1,490.0	1,462.9	27.12	54.945	
9,500.0	9,393.0	8,200.0	7,907.6	38.4	32.3	0.05	-1,124.8	-6.7	1,537.5	1,510.7	26.84	57.276	
9,550.0	9,442.5	8,220.5	7,913.3	38.5	32.2	0.04	-1,124.6	12.9	1,583.1	1,556.1	27.04	58.556	
9,600.0	9,491.2	8,226.6	7,914.9	38.7	32.2	0.03	-1,124.6	18.8	1,627.4	1,600.6	26.78	60.770	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,650.0	9,538.8	8,250.0	7,920.3	38.8	32.2	0.02	-1,124.4	41.6	1,670.1	1,643.2	26.89	62.106	
9,700.0	9,584.8	8,250.0	7,920.3	38.8	32.2	0.02	-1,124.4	41.6	1,710.1	1,683.7	26.39	64.796	
9,750.0	9,629.0	8,250.0	7,920.3	38.9	32.2	0.02	-1,124.4	41.6	1,748.0	1,722.1	25.89	67.513	
9,800.0	9,671.0	8,250.0	7,920.3	39.0	32.2	0.02	-1,124.4	41.6	1,783.6	1,758.2	25.40	70.216	
9,850.0	9,710.5	8,250.0	7,920.3	39.0	32.2	0.02	-1,124.4	41.6	1,816.8	1,791.8	24.94	72.850	
9,900.0	9,747.1	8,276.2	7,925.2	39.1	32.2	0.01	-1,124.3	67.3	1,846.6	1,821.7	24.95	74.025	
9,950.0	9,780.7	8,300.0	7,928.7	39.1	32.2	0.01	-1,124.1	90.9	1,874.1	1,849.2	24.90	75.273	
10,000.0	9,810.9	8,300.0	7,928.7	39.1	32.2	0.01	-1,124.1	90.9	1,898.2	1,873.7	24.50	77.474	
10,050.0	9,837.5	8,300.0	7,928.7	39.1	32.2	0.01	-1,124.1	90.9	1,919.4	1,895.2	24.18	79.364	
10,100.0	9,860.3	8,317.4	7,930.6	39.1	32.2	0.01	-1,124.0	108.2	1,937.4	1,913.3	24.14	80.259	
10,106.5	9,862.9	8,318.8	7,930.7	39.1	32.2	0.01	-1,124.0	109.5	1,939.5	1,915.4	24.12	80.400	
10,200.0	9,899.6	8,347.1	7,932.7	39.1	32.2	0.01	-1,123.8	137.8	1,969.7	1,945.5	24.16	81.520	
10,300.0	9,935.6	8,405.2	7,935.2	39.1	32.2	0.00	-1,123.5	195.9	2,001.3	1,976.7	24.58	81.430	
10,400.0	9,968.4	8,501.0	7,939.3	39.1	32.3	0.00	-1,122.8	291.6	2,029.9	2,004.6	25.31	80.211	
10,500.0	9,997.8	8,602.2	7,943.5	39.2	33.0	0.00	-1,122.2	388.2	2,055.2	2,029.1	26.13	78.666	
10,600.0	10,023.9	8,704.7	7,947.8	39.6	34.1	-0.01	-1,121.6	485.7	2,077.1	2,050.1	27.01	76.897	
10,700.0	10,046.6	8,793.6	7,952.0	40.4	35.3	-0.01	-1,120.9	583.9	2,095.6	2,067.7	27.88	75.167	
10,800.0	10,065.9	8,907.5	7,956.3	41.5	36.9	-0.01	-1,120.3	682.7	2,110.6	2,081.7	28.93	72.945	
10,900.0	10,081.8	9,008.2	7,960.6	42.7	38.4	-0.01	-1,119.7	781.9	2,122.2	2,092.2	29.96	70.830	
11,000.0	10,094.2	9,091.5	7,964.9	44.0	39.8	-0.01	-1,119.0	881.5	2,130.3	2,099.4	30.92	68.890	
11,100.0	10,103.2	9,208.6	7,969.2	45.4	41.8	-0.02	-1,118.4	981.3	2,134.9	2,102.8	32.13	66.450	
11,200.0	10,108.6	9,308.7	7,973.6	46.9	43.6	-0.02	-1,117.7	1,081.1	2,136.1	2,102.8	33.26	64.222	
11,293.4	10,110.6	9,384.7	7,977.6	48.3	45.0	-0.02	-1,117.1	1,174.4	2,134.0	2,099.7	34.23	62.342	
11,300.0	10,110.6	9,408.7	7,977.9	48.4	45.4	-0.02	-1,117.1	1,181.0	2,133.7	2,099.3	34.42	61.989	
11,400.0	10,111.1	9,508.8	7,982.2	50.0	47.3	-0.02	-1,116.4	1,280.8	2,129.8	2,094.2	35.61	59.812	
11,500.0	10,111.5	9,608.8	7,986.5	51.7	49.3	-0.02	-1,115.8	1,380.7	2,126.0	2,089.1	36.82	57.733	
11,600.0	10,112.0	9,708.9	7,990.9	53.5	51.3	-0.02	-1,115.2	1,480.5	2,122.1	2,084.0	38.06	55.750	
11,700.0	10,112.4	9,809.0	7,995.2	55.3	53.3	-0.02	-1,114.5	1,580.3	2,118.2	2,078.9	39.33	53.860	
11,800.0	10,112.9	9,890.9	7,999.5	57.1	55.0	-0.02	-1,113.9	1,680.2	2,114.3	2,073.8	40.48	52.225	
11,900.0	10,113.3	9,990.8	8,003.9	59.0	57.1	-0.05	-1,111.8	1,779.9	2,110.5	2,068.7	41.77	50.525	
12,000.0	10,113.8	10,109.4	8,008.2	60.9	59.5	-0.18	-1,106.5	1,879.5	2,106.6	2,063.4	43.18	48.791	
12,100.0	10,114.3	10,209.6	8,012.5	62.9	61.7	-0.32	-1,100.7	1,979.0	2,102.7	2,058.3	44.46	47.292	
12,200.0	10,114.7	10,290.2	8,016.8	64.9	63.4	-0.47	-1,094.8	2,078.5	2,098.9	2,053.3	45.63	46.002	
12,300.0	10,115.2	10,390.0	8,021.1	66.9	65.5	-0.61	-1,088.9	2,178.1	2,095.1	2,048.1	46.94	44.630	
12,400.0	10,115.6	10,489.8	8,025.4	68.9	67.7	-0.75	-1,083.1	2,277.6	2,091.3	2,043.0	48.28	43.319	
12,500.0	10,116.1	10,589.5	8,029.8	71.0	69.9	-0.90	-1,077.2	2,377.1	2,087.5	2,037.8	49.62	42.066	
12,600.0	10,116.5	10,689.3	8,034.1	73.1	72.1	-1.04	-1,071.4	2,476.6	2,083.7	2,032.7	50.98	40.868	
12,700.0	10,117.0	10,789.1	8,038.4	75.2	74.3	-1.19	-1,065.5	2,576.1	2,079.9	2,027.5	52.36	39.723	
12,800.0	10,117.4	10,888.9	8,042.7	77.4	76.5	-1.34	-1,059.6	2,675.7	2,076.1	2,022.4	53.75	38.627	
12,900.0	10,117.9	10,990.0	8,047.1	79.5	78.8	-1.46	-1,054.6	2,776.5	2,072.4	2,017.2	55.16	37.569	
13,000.0	10,118.4	11,091.8	8,051.5	81.7	81.1	-1.49	-1,052.9	2,878.2	2,068.5	2,011.9	56.61	36.542	
13,100.0	10,118.8	11,193.6	8,055.9	83.9	83.5	-1.43	-1,054.8	2,979.9	2,064.6	2,006.5	58.08	35.550	
13,200.0	10,119.3	11,277.3	8,059.2	86.1	85.4	-1.31	-1,058.5	3,063.4	2,061.0	2,001.6	59.44	34.676	
13,300.0	10,119.7	11,377.1	8,062.7	88.3	87.7	-1.17	-1,063.1	3,163.1	2,057.8	1,996.9	60.92	33.781	
13,400.0	10,120.2	11,476.9	8,066.2	90.5	90.0	-1.02	-1,067.6	3,262.7	2,054.7	1,992.3	62.40	32.925	
13,500.0	10,120.6	11,576.8	8,069.7	92.8	92.4	-0.88	-1,072.2	3,362.4	2,051.5	1,987.6	63.90	32.106	
13,600.0	10,121.1	11,676.6	8,073.2	95.0	94.7	-0.73	-1,076.8	3,462.0	2,048.3	1,983.0	65.40	31.321	
13,700.0	10,121.6	11,776.4	8,076.8	97.3	97.0	-0.59	-1,081.4	3,561.7	2,045.2	1,978.3	66.90	30.569	
13,800.0	10,122.0	11,876.2	8,080.3	99.5	99.4	-0.44	-1,085.9	3,661.3	2,042.1	1,973.7	68.42	29.848	
13,900.0	10,122.5	11,976.0	8,083.8	101.8	101.7	-0.30	-1,090.5	3,761.0	2,039.0	1,969.1	69.94	29.155	
14,000.0	10,122.9	12,075.8	8,087.3	104.1	104.1	-0.15	-1,095.1	3,860.6	2,035.9	1,964.4	71.46	28.490	
14,100.0	10,123.4	12,175.4	8,090.8	106.4	106.4	-0.04	-1,098.5	3,960.0	2,032.8	1,959.8	72.98	27.855	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,200.0	10,123.8	12,275.1	8,094.3	108.7	108.8	-0.01	-1,098.6	4,059.7	2,029.8	1,955.3	74.47	27.255	
14,300.0	10,124.3	12,375.1	8,097.8	111.0	111.1	-0.01	-1,098.0	4,159.6	2,026.7	1,950.7	75.97	26.679	
14,400.0	10,124.8	12,475.0	8,101.3	113.3	113.5	-0.01	-1,097.3	4,259.5	2,023.7	1,946.2	77.46	26.125	
14,500.0	10,125.2	12,575.0	8,104.8	115.6	115.9	-0.02	-1,096.7	4,359.4	2,020.6	1,941.7	78.96	25.590	
14,600.0	10,125.7	12,674.9	8,108.3	117.9	118.2	-0.02	-1,096.0	4,459.3	2,017.6	1,937.1	80.46	25.075	
14,700.0	10,126.1	12,806.2	8,113.1	120.2	121.4	-0.02	-1,095.3	4,578.0	2,014.1	1,931.9	82.17	24.511	
14,800.0	10,126.6	12,906.3	8,117.5	122.6	123.7	-0.02	-1,094.6	4,677.9	2,010.1	1,926.4	83.67	24.022	
14,900.0	10,127.0	12,993.6	8,121.9	124.9	125.8	-0.02	-1,094.0	4,777.7	2,006.1	1,921.0	85.09	23.577	
15,000.0	10,127.5	13,106.5	8,126.4	127.2	128.5	-0.02	-1,093.3	4,877.5	2,002.1	1,915.4	86.69	23.094	
15,100.0	10,127.9	13,206.5	8,130.8	129.6	130.9	-0.02	-1,092.7	4,977.3	1,998.1	1,909.9	88.21	22.652	
15,200.0	10,128.4	13,306.6	8,135.3	131.9	133.3	-0.02	-1,092.1	5,077.1	1,994.1	1,904.4	89.72	22.226	
15,300.0	10,128.9	13,393.3	8,139.7	134.3	135.4	-0.02	-1,091.4	5,177.0	1,990.1	1,899.0	91.13	21.837	
15,400.0	10,129.3	13,506.8	8,144.2	136.6	138.1	-0.02	-1,090.8	5,276.8	1,986.1	1,893.4	92.76	21.412	
15,500.0	10,129.8	13,606.9	8,148.6	139.0	140.5	-0.01	-1,090.2	5,376.6	1,982.1	1,887.9	94.28	21.025	
15,600.0	10,130.2	13,706.9	8,153.0	141.3	142.9	-0.01	-1,089.5	5,476.4	1,978.1	1,882.3	95.80	20.649	
15,700.0	10,130.7	13,793.0	8,157.5	143.7	144.9	-0.01	-1,088.9	5,576.2	1,974.2	1,876.9	97.21	20.308	
15,800.0	10,131.1	13,907.1	8,161.9	146.1	147.7	-0.01	-1,088.2	5,676.1	1,970.2	1,871.3	98.85	19.932	
15,900.0	10,131.6	14,007.2	8,166.4	148.4	150.1	-0.01	-1,087.6	5,775.9	1,966.2	1,865.8	100.37	19.589	
16,000.0	10,132.1	14,107.3	8,170.8	150.8	152.5	-0.01	-1,087.0	5,875.7	1,962.2	1,860.3	101.90	19.256	
16,100.0	10,132.5	14,192.7	8,175.3	153.2	154.5	-0.01	-1,086.3	5,975.5	1,958.2	1,854.9	103.31	18.954	
16,200.0	10,133.0	14,307.4	8,179.7	155.5	157.3	-0.01	-1,085.7	6,075.3	1,954.2	1,849.3	104.96	18.619	
16,300.0	10,133.4	14,407.5	8,184.1	157.9	159.7	-0.01	-1,085.1	6,175.2	1,950.2	1,843.7	106.49	18.314	
16,400.0	10,133.9	14,507.6	8,188.6	160.3	162.1	-0.01	-1,084.4	6,275.0	1,946.2	1,838.2	108.02	18.018	
16,500.0	10,134.3	14,607.7	8,193.0	162.7	164.5	-0.01	-1,083.8	6,374.8	1,942.2	1,832.7	109.55	17.729	
16,600.0	10,134.8	14,707.7	8,197.5	165.1	166.9	-0.01	-1,083.1	6,474.6	1,938.3	1,827.2	111.09	17.448	
16,700.0	10,135.3	14,807.8	8,201.9	167.4	169.4	-0.01	-1,082.5	6,574.4	1,934.3	1,821.6	112.62	17.175	
16,800.0	10,135.7	14,907.9	8,206.3	169.8	171.8	-0.01	-1,081.9	6,674.3	1,930.3	1,816.1	114.16	16.909	
16,900.0	10,136.2	15,008.0	8,210.8	172.2	174.2	-0.01	-1,081.2	6,774.1	1,926.3	1,810.6	115.69	16.650	
17,000.0	10,136.6	15,092.0	8,215.2	174.6	176.2	-0.01	-1,080.6	6,873.9	1,922.3	1,805.2	117.11	16.415	
17,100.0	10,137.1	15,191.9	8,219.7	177.0	178.6	-0.01	-1,080.0	6,973.7	1,918.3	1,799.7	118.64	16.169	
17,200.0	10,137.5	15,308.2	8,224.1	179.4	181.4	-0.01	-1,079.3	7,073.5	1,914.3	1,794.0	120.31	15.912	
17,300.0	10,138.0	15,391.7	8,228.6	181.8	183.5	-0.01	-1,078.7	7,173.4	1,910.3	1,788.6	121.72	15.695	
17,400.0	10,138.4	15,508.4	8,233.0	184.2	186.3	-0.01	-1,078.0	7,273.2	1,906.3	1,782.9	123.39	15.450	
17,411.2	10,138.5	15,502.9	8,233.5	184.4	186.2	-0.01	-1,078.0	7,284.4	1,905.9	1,782.5	123.43	15.441	
17,411.8	10,138.5	15,503.4	8,233.5	184.5	186.2	-0.01	-1,078.0	7,284.9	1,905.9	1,782.3	123.52	15.429	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	-1.0	0.0	0.0	-44.97	29.8	-29.8	42.1				
100.0	100.0	101.0	99.0	0.1	0.1	-44.97	29.8	-29.8	42.1	41.8	0.26	162.026	
200.0	200.0	201.0	199.0	0.5	0.5	-44.97	29.8	-29.8	42.1	41.1	0.98	43.108	
300.0	300.0	301.0	299.0	0.8	0.8	-44.97	29.8	-29.8	42.1	40.4	1.69	24.861	
400.0	400.0	401.0	399.0	1.2	1.2	-44.97	29.8	-29.8	42.1	39.7	2.41	17.467	
500.0	500.0	501.0	499.0	1.6	1.6	-44.97	29.8	-29.8	42.1	39.0	3.13	13.463	
600.0	600.0	601.0	599.0	1.9	1.9	-44.97	29.8	-29.8	42.1	38.3	3.84	10.953	
700.0	700.0	701.0	699.0	2.3	2.3	-44.97	29.8	-29.8	42.1	37.5	4.56	9.231	
800.0	800.0	801.0	799.0	2.6	2.6	-44.97	29.8	-29.8	42.1	36.8	5.28	7.978	
900.0	900.0	901.0	899.0	3.0	3.0	-44.97	29.8	-29.8	42.1	36.1	6.00	7.024	
1,000.0	1,000.0	999.0	999.0	3.4	3.4	-44.97	29.8	-29.8	42.1	35.4	6.71	6.280	
1,100.0	1,100.0	1,099.1	1,099.1	3.7	3.7	-46.13	29.1	-30.3	42.0	34.6	7.41	5.671	
1,200.0	1,200.0	1,199.1	1,199.1	4.1	4.0	-49.67	27.0	-31.9	41.8	33.7	8.10	5.160	
1,223.6	1,223.6	1,222.7	1,222.6	4.2	4.1	109.19	26.3	-32.4	41.8	33.5	8.26	5.058 CC	
1,300.0	1,300.0	1,299.1	1,298.9	4.4	4.4	105.51	23.6	-34.5	42.0	33.2	8.77	4.787 ES	
1,400.0	1,400.0	1,398.9	1,398.6	4.7	4.7	100.75	18.7	-38.2	43.0	33.6	9.44	4.557	
1,500.0	1,499.9	1,498.8	1,498.1	5.1	5.0	96.27	12.5	-42.9	44.9	34.7	10.12	4.432	
1,600.0	1,599.7	1,598.5	1,597.4	5.4	5.4	92.23	4.9	-48.6	47.4	36.6	10.81	4.391	
1,700.0	1,699.4	1,698.1	1,696.4	5.8	5.8	88.72	-4.0	-55.4	50.8	39.3	11.50	4.413	
1,800.0	1,798.9	1,802.3	1,795.1	6.1	6.2	85.77	-14.4	-63.3	54.8	42.5	12.23	4.477	
1,900.0	1,898.3	1,902.4	1,894.1	6.5	6.5	84.09	-25.4	-71.7	59.0	46.1	12.96	4.555	
2,000.0	1,997.4	2,002.5	1,993.0	6.8	6.9	84.21	-36.5	-80.1	63.1	49.4	13.70	4.608	
2,100.0	2,096.3	2,102.6	2,091.9	7.2	7.3	85.79	-47.6	-88.5	67.1	52.7	14.47	4.640	
2,200.0	2,194.9	2,197.3	2,190.8	7.6	7.7	88.59	-58.7	-96.9	71.1	55.8	15.23	4.668	
2,269.4	2,263.2	2,266.6	2,259.4	7.9	7.9	91.15	-66.3	-102.7	73.9	58.1	15.78	4.685	
2,300.0	2,293.3	2,302.9	2,289.6	8.0	8.1	92.36	-69.7	-105.3	75.2	59.2	16.05	4.688	
2,400.0	2,391.5	2,403.2	2,388.4	8.4	8.5	96.05	-80.8	-113.7	79.7	62.9	16.86	4.730	
2,500.0	2,489.8	2,503.4	2,487.2	8.8	8.9	99.34	-91.8	-122.1	84.5	66.9	17.67	4.784	
2,600.0	2,588.1	2,603.6	2,586.0	9.2	9.3	102.26	-102.9	-130.5	89.6	71.1	18.49	4.845	
2,700.0	2,686.3	2,703.8	2,684.9	9.6	9.7	104.87	-114.0	-138.9	94.8	75.5	19.31	4.911	
2,800.0	2,784.6	2,804.1	2,783.7	10.1	10.1	107.20	-125.0	-147.3	100.3	80.1	20.13	4.981	
2,900.0	2,882.8	2,904.3	2,882.5	10.5	10.5	109.28	-136.1	-155.7	105.8	84.9	20.95	5.052	
3,000.0	2,981.1	2,995.5	2,981.3	10.9	10.9	111.16	-147.1	-164.1	111.5	89.8	21.74	5.132	
3,100.0	3,079.4	3,104.7	3,080.1	11.4	11.3	112.85	-158.2	-172.5	117.4	94.8	22.59	5.194	
3,200.0	3,177.6	3,205.0	3,178.9	11.8	11.8	114.39	-169.2	-180.9	123.3	99.8	23.42	5.264	
3,300.0	3,275.9	3,305.2	3,277.7	12.2	12.2	115.78	-180.3	-189.3	129.2	105.0	24.24	5.332	
3,400.0	3,374.2	3,405.4	3,376.5	12.7	12.6	117.04	-191.4	-197.7	135.3	110.2	25.06	5.399	
3,500.0	3,472.4	3,505.6	3,475.3	13.1	13.0	118.20	-202.4	-206.1	141.4	115.5	25.88	5.464	
3,600.0	3,570.7	3,605.9	3,574.1	13.6	13.4	119.27	-213.5	-214.5	147.6	120.9	26.70	5.527	
3,700.0	3,669.0	3,706.1	3,672.9	14.0	13.8	120.24	-224.5	-222.9	153.8	126.3	27.52	5.587	
3,800.0	3,767.2	3,793.7	3,771.7	14.5	14.2	121.14	-235.6	-231.3	160.0	131.7	28.29	5.657	
3,900.0	3,865.5	3,906.5	3,870.5	14.9	14.7	121.98	-246.7	-239.7	166.3	137.2	29.16	5.703	
4,000.0	3,963.7	4,006.8	3,969.3	15.4	15.1	122.75	-257.7	-248.1	172.6	142.7	29.99	5.758	
4,100.0	4,062.0	4,107.0	4,068.1	15.8	15.5	123.46	-268.8	-256.5	179.0	148.2	30.81	5.810	
4,200.0	4,160.3	4,207.2	4,166.9	16.3	15.9	124.13	-279.8	-264.9	185.4	153.7	31.63	5.861	
4,300.0	4,258.5	4,307.4	4,265.7	16.7	16.3	124.76	-290.9	-273.3	191.8	159.3	32.45	5.910	
4,400.0	4,356.8	4,392.3	4,364.5	17.2	16.7	125.34	-302.0	-281.7	198.2	165.0	33.21	5.969	
4,500.0	4,455.1	4,507.9	4,463.3	17.6	17.2	125.89	-313.0	-290.0	204.6	170.5	34.09	6.003	
4,600.0	4,553.3	4,608.1	4,562.1	18.1	17.6	126.40	-324.1	-298.4	211.1	176.2	34.91	6.047	
4,700.0	4,651.6	4,708.4	4,660.9	18.5	18.0	126.88	-335.1	-306.8	217.6	181.8	35.73	6.089	
4,800.0	4,749.8	4,791.4	4,759.7	19.0	18.4	127.34	-346.2	-315.2	224.1	187.6	36.48	6.142	
4,900.0	4,848.1	4,891.2	4,858.5	19.5	18.8	127.77	-357.3	-323.6	230.6	193.3	37.30	6.181	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	5,009.0	4,957.3	19.9	19.3	128.17	-368.3	-332.0	237.1	198.9	38.19	6.207	
5,100.0	5,044.6	5,090.7	5,056.1	20.4	19.6	128.56	-379.4	-340.4	243.6	204.7	38.94	6.256	
5,200.0	5,142.9	5,209.5	5,154.9	20.8	20.1	128.92	-390.4	-348.8	250.1	210.3	39.84	6.279	
5,300.0	5,241.2	5,309.7	5,253.7	21.3	20.5	129.27	-401.5	-357.2	256.7	216.0	40.66	6.313	
5,400.0	5,339.4	5,390.1	5,352.5	21.8	20.9	129.59	-412.5	-365.6	263.2	221.8	41.40	6.359	
5,500.0	5,437.7	5,489.8	5,451.3	22.2	21.3	129.91	-423.6	-374.0	269.8	227.6	42.21	6.391	
5,600.0	5,536.0	5,589.6	5,550.1	22.7	21.7	130.20	-434.7	-382.4	276.4	233.3	43.03	6.422	
5,700.0	5,634.2	5,688.3	5,647.9	23.1	22.1	130.52	-445.5	-390.6	283.0	239.2	43.84	6.455	
5,800.0	5,732.5	5,785.0	5,743.9	23.6	22.5	131.17	-454.5	-397.4	290.5	245.9	44.60	6.514	
5,900.0	5,830.7	5,881.4	5,839.9	24.1	22.9	132.22	-461.5	-402.8	299.1	253.8	45.30	6.603	
6,000.0	5,929.0	5,977.2	5,935.5	24.5	23.3	133.61	-466.6	-406.6	308.9	263.0	45.94	6.724	
6,100.0	6,027.3	6,072.5	6,030.7	25.0	23.6	135.28	-469.7	-409.0	320.1	273.6	46.53	6.879	
6,200.0	6,125.5	6,167.1	6,125.3	25.4	23.9	137.19	-471.0	-410.0	332.8	285.7	47.06	7.072	
6,300.0	6,223.8	6,264.6	6,222.8	25.9	24.2	139.24	-471.0	-410.0	346.7	299.1	47.59	7.286	
6,400.0	6,322.1	6,362.9	6,321.1	26.4	24.5	141.15	-471.0	-410.0	361.1	313.0	48.13	7.502	
6,500.0	6,420.3	6,461.1	6,419.3	26.8	24.8	142.91	-471.0	-410.0	375.8	327.1	48.68	7.720	
6,600.0	6,518.6	6,559.4	6,517.6	27.3	25.1	144.54	-471.0	-410.0	390.9	341.6	49.25	7.937	
6,700.0	6,616.8	6,657.7	6,615.8	27.8	25.4	146.05	-471.0	-410.0	406.2	356.4	49.82	8.154	
6,800.0	6,715.1	6,755.9	6,714.1	28.2	25.7	147.45	-471.0	-410.0	421.8	371.4	50.40	8.369	
6,900.0	6,813.4	6,854.2	6,812.4	28.7	26.0	148.75	-471.0	-410.0	437.6	386.7	50.99	8.583	
7,000.0	6,911.6	6,952.4	6,910.6	29.2	26.3	149.96	-471.0	-410.0	453.7	402.1	51.59	8.794	
7,100.0	7,009.9	7,050.7	7,008.9	29.6	26.6	151.09	-471.0	-410.0	469.9	417.7	52.20	9.002	
7,200.0	7,108.2	7,149.0	7,107.2	30.1	26.9	152.14	-471.0	-410.0	486.3	433.5	52.82	9.207	
7,300.0	7,206.4	7,247.2	7,205.4	30.6	27.2	153.13	-471.0	-410.0	502.8	449.4	53.44	9.410	
7,400.0	7,304.7	7,345.5	7,303.7	31.0	27.5	154.05	-471.0	-410.0	519.5	465.5	54.07	9.609	
7,500.0	7,403.0	7,443.8	7,402.0	31.5	27.8	154.92	-471.0	-410.0	536.3	481.6	54.70	9.804	
7,600.0	7,501.2	7,542.0	7,500.2	31.9	28.2	155.73	-471.0	-410.0	553.2	497.9	55.34	9.997	
7,700.0	7,599.5	7,640.3	7,598.5	32.4	28.5	156.49	-471.0	-410.0	570.2	514.3	55.99	10.186	
7,800.0	7,697.7	7,738.5	7,696.7	32.9	28.8	157.21	-471.0	-410.0	587.4	530.7	56.64	10.371	
7,833.5	7,730.7	7,771.5	7,729.7	33.0	28.9	157.44	-471.0	-410.0	593.1	536.3	56.85	10.432	
7,900.0	7,796.1	7,836.9	7,795.1	33.3	29.1	157.93	-471.0	-410.0	604.0	546.7	57.29	10.543	
8,000.0	7,894.9	7,935.7	7,893.9	33.8	29.4	158.55	-471.0	-410.0	618.5	560.5	57.95	10.673	
8,100.0	7,994.0	8,034.8	7,993.0	34.2	29.7	159.05	-471.0	-410.0	630.6	572.0	58.62	10.758	
8,200.0	8,093.5	8,134.3	8,092.5	34.6	30.0	159.43	-471.0	-410.0	640.3	581.0	59.28	10.800	
8,300.0	8,193.2	8,234.0	8,192.2	34.9	30.4	159.71	-471.0	-410.0	647.6	587.6	59.95	10.801	
8,400.0	8,293.1	8,333.9	8,292.1	35.3	30.7	159.89	-471.0	-410.0	652.4	591.8	60.62	10.761	
8,500.0	8,393.0	8,433.8	8,392.0	35.6	31.0	159.98	-471.0	-410.0	654.8	593.5	61.30	10.682	
8,546.5	8,439.5	8,480.3	8,438.5	35.8	31.2	0.00	-471.0	-410.0	655.0	593.4	61.60	10.633	
8,600.0	8,493.0	8,533.8	8,492.0	35.9	31.3	0.00	-471.0	-410.0	655.0	593.1	61.95	10.574	
8,700.0	8,593.0	8,633.8	8,592.0	36.2	31.7	0.00	-471.0	-410.0	655.0	592.4	62.60	10.464	
8,710.5	8,603.5	8,644.3	8,602.5	36.2	31.7	0.00	-471.0	-410.0	655.0	592.4	62.66	10.453	
8,800.0	8,693.0	8,733.7	8,691.9	36.4	32.0	0.02	-471.0	-409.8	655.0	591.8	63.24	10.358	
8,900.0	8,793.0	8,831.4	8,788.9	36.7	32.3	0.98	-471.0	-398.8	655.2	591.5	63.75	10.278	
9,000.0	8,893.0	8,922.9	8,876.7	37.0	32.5	3.17	-470.8	-373.7	656.5	592.4	64.02	10.254	
9,100.0	8,993.0	9,004.7	8,951.0	37.3	32.7	6.12	-470.5	-339.7	660.5	596.5	64.03	10.317	
9,200.0	9,093.0	9,075.5	9,010.9	37.6	32.8	9.36	-470.3	-302.0	669.5	605.9	63.68	10.514	
9,300.0	9,193.0	9,135.6	9,057.8	37.8	32.9	12.52	-470.0	-264.3	685.3	622.4	62.88	10.898	
9,400.0	9,293.0	9,186.3	9,094.0	38.1	32.9	15.42	-469.8	-228.9	709.0	647.4	61.58	11.514	
9,446.5	9,339.5	9,207.0	9,107.9	38.3	32.9	16.66	-469.7	-213.6	722.9	662.1	60.81	11.888	
9,450.0	9,343.0	9,208.5	9,108.9	38.3	32.9	-72.88	-469.7	-212.4	724.0	663.3	60.75	11.919	
9,500.0	9,393.0	9,230.1	9,122.7	38.4	33.0	-69.99	-469.5	-195.9	740.5	680.6	59.83	12.376	
9,550.0	9,442.5	9,250.0	9,134.9	38.5	33.0	-67.25	-469.4	-180.1	757.4	698.6	58.81	12.879	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,600.0	9,491.2	9,274.0	9,148.9	38.7	33.0	-64.42	-469.3	-160.6	774.7	716.8	57.86	13.389	
9,650.0	9,538.8	9,300.0	9,163.1	38.8	33.0	-61.66	-469.1	-138.8	791.9	735.0	56.93	13.911	
9,700.0	9,584.8	9,318.7	9,172.6	38.8	33.0	-59.37	-469.0	-122.8	808.9	753.1	55.79	14.498	
9,750.0	9,629.0	9,350.0	9,187.5	38.9	33.1	-56.81	-468.8	-95.2	825.4	770.4	54.99	15.010	
9,800.0	9,671.0	9,363.9	9,193.6	39.0	33.1	-55.03	-468.7	-82.8	841.1	787.4	53.76	15.646	
9,850.0	9,710.5	9,386.6	9,202.9	39.0	33.1	-53.16	-468.6	-62.0	856.1	803.3	52.80	16.214	
9,900.0	9,747.1	9,400.0	9,208.1	39.1	33.1	-51.68	-468.5	-49.7	870.1	818.4	51.67	16.839	
9,950.0	9,780.7	9,432.4	9,219.2	39.1	33.2	-50.01	-468.3	-19.3	882.7	831.6	51.06	17.286	
10,000.0	9,810.9	9,450.0	9,224.6	39.1	33.2	-48.80	-468.2	-2.5	894.2	844.0	50.22	17.807	
10,050.0	9,837.5	9,478.4	9,232.1	39.1	33.3	-47.63	-468.0	24.9	904.3	854.6	49.70	18.195	
10,100.0	9,860.3	9,500.0	9,236.9	39.1	33.4	-46.73	-467.8	45.9	913.0	863.8	49.17	18.568	
10,106.5	9,862.9	9,500.0	9,236.9	39.1	33.4	-46.65	-467.8	45.9	914.0	864.9	49.07	18.627	
10,200.0	9,899.6	9,550.0	9,245.0	39.1	33.6	-45.88	-467.5	95.3	929.9	881.4	48.47	19.186	
10,300.0	9,935.6	9,591.3	9,248.3	39.1	33.8	-45.07	-467.2	136.4	950.1	902.2	47.88	19.845	
10,400.0	9,968.4	9,671.3	9,250.5	39.1	34.4	-43.73	-466.6	216.4	972.3	924.6	47.74	20.366	
10,500.0	9,997.8	9,767.6	9,252.9	39.2	35.2	-42.40	-465.9	312.7	992.6	944.6	47.98	20.687	
10,600.0	10,023.9	9,864.7	9,255.3	39.6	36.2	-41.27	-465.1	409.8	1,010.6	962.1	48.52	20.829	
10,700.0	10,046.6	9,962.7	9,257.7	40.4	37.3	-40.34	-464.3	507.6	1,026.3	977.0	49.34	20.799	
10,800.0	10,065.9	10,061.2	9,260.2	41.5	38.5	-39.58	-463.6	606.2	1,039.4	989.0	50.43	20.613	
10,900.0	10,081.8	10,160.3	9,262.7	42.7	39.8	-38.99	-462.8	705.2	1,050.0	998.2	51.76	20.285	
11,000.0	10,094.2	10,259.8	9,265.1	44.0	41.3	-38.56	-462.0	804.7	1,057.9	1,004.5	53.33	19.836	
11,100.0	10,103.2	10,359.6	9,267.6	45.4	42.8	-38.29	-461.2	904.5	1,063.0	1,007.9	55.13	19.284	
11,200.0	10,108.6	10,459.6	9,270.1	46.9	44.4	-38.16	-460.4	1,004.4	1,065.5	1,008.3	57.14	18.646	
11,293.4	10,110.6	10,553.0	9,272.4	48.3	46.0	-38.18	-459.7	1,097.7	1,065.3	1,006.0	59.22	17.989	
11,300.0	10,110.6	10,559.5	9,272.6	48.4	46.1	-38.19	-459.7	1,104.3	1,065.2	1,005.8	59.37	17.941	
11,400.0	10,111.1	10,659.5	9,275.1	50.0	47.9	-38.26	-458.9	1,204.3	1,063.6	1,001.9	61.75	17.226	
11,500.0	10,111.5	10,759.5	9,277.6	51.7	49.7	-38.34	-458.1	1,304.2	1,062.1	997.9	64.21	16.540	
11,600.0	10,112.0	10,859.5	9,280.1	53.5	51.6	-38.41	-457.3	1,404.2	1,060.6	993.9	66.77	15.886	
11,700.0	10,112.4	10,959.5	9,282.6	55.3	53.5	-38.48	-456.5	1,504.1	1,059.1	989.7	69.39	15.263	
11,800.0	10,112.9	11,059.4	9,285.1	57.1	55.5	-38.56	-455.8	1,604.1	1,057.6	985.5	72.08	14.672	
11,900.0	10,113.3	11,159.4	9,287.5	59.0	57.5	-38.63	-455.0	1,704.0	1,056.1	981.3	74.84	14.112	
12,000.0	10,113.8	11,259.4	9,290.0	60.9	59.5	-38.71	-454.2	1,803.9	1,054.6	976.9	77.65	13.582	
12,100.0	10,114.3	11,359.4	9,292.5	62.9	61.6	-38.78	-453.4	1,903.9	1,053.1	972.6	80.51	13.080	
12,200.0	10,114.7	11,459.4	9,295.0	64.9	63.6	-38.86	-452.6	2,003.8	1,051.6	968.2	83.42	12.606	
12,300.0	10,115.2	11,559.3	9,297.5	66.9	65.8	-38.93	-451.9	2,103.8	1,050.1	963.7	86.37	12.158	
12,400.0	10,115.6	11,659.3	9,300.0	68.9	67.9	-39.01	-451.1	2,203.7	1,048.6	959.2	89.37	11.734	
12,500.0	10,116.1	11,759.3	9,302.5	71.0	70.0	-39.09	-450.3	2,303.7	1,047.1	954.7	92.40	11.333	
12,600.0	10,116.5	11,859.3	9,305.0	73.1	72.2	-39.16	-449.5	2,403.6	1,045.6	950.2	95.46	10.953	
12,700.0	10,117.0	11,959.3	9,307.5	75.2	74.4	-39.24	-448.7	2,503.6	1,044.1	945.6	98.56	10.594	
12,800.0	10,117.4	12,059.2	9,310.0	77.4	76.6	-39.32	-448.0	2,603.5	1,042.6	941.0	101.68	10.254	
12,900.0	10,117.9	12,159.2	9,312.4	79.5	78.8	-39.39	-447.2	2,703.5	1,041.2	936.3	104.84	9.931	
13,000.0	10,118.4	12,259.2	9,314.9	81.7	81.1	-39.47	-446.4	2,803.4	1,039.7	931.7	108.02	9.625	
13,100.0	10,118.8	12,359.2	9,317.4	83.9	83.3	-39.55	-445.6	2,903.3	1,038.2	927.0	111.23	9.334	
13,200.0	10,119.3	12,459.1	9,319.9	86.1	85.6	-39.62	-444.8	3,003.3	1,036.7	922.2	114.46	9.057	
13,300.0	10,119.7	12,559.1	9,322.4	88.3	87.9	-39.70	-444.1	3,103.2	1,035.2	917.5	117.72	8.794	
13,400.0	10,120.2	12,659.1	9,324.9	90.5	90.1	-39.78	-443.3	3,203.2	1,033.8	912.8	120.99	8.544	
13,500.0	10,120.6	12,759.1	9,327.4	92.8	92.4	-39.86	-442.5	3,303.1	1,032.3	908.0	124.29	8.305	
13,600.0	10,121.1	12,859.1	9,329.9	95.0	94.7	-39.94	-441.7	3,403.1	1,030.8	903.2	127.61	8.078	
13,700.0	10,121.6	12,959.0	9,332.4	97.3	97.0	-40.01	-440.9	3,503.0	1,029.3	898.4	130.94	7.861	
13,800.0	10,122.0	13,059.0	9,334.9	99.5	99.3	-40.09	-440.1	3,603.0	1,027.9	893.6	134.30	7.654	
13,900.0	10,122.5	13,159.0	9,337.4	101.8	101.7	-40.17	-439.4	3,702.9	1,026.4	888.7	137.67	7.455	
14,000.0	10,122.9	13,259.0	9,339.8	104.1	104.0	-40.25	-438.6	3,802.9	1,024.9	883.9	141.06	7.266	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.0	10,123.4	13,359.0	9,342.3	106.4	106.3	-40.33	-437.8	3,902.8	1,023.5	879.0	144.47	7.084	
14,200.0	10,123.8	13,458.9	9,344.8	108.7	108.6	-40.41	-437.0	4,002.7	1,022.0	874.1	147.89	6.910	
14,300.0	10,124.3	13,558.9	9,347.3	111.0	111.0	-40.49	-436.2	4,102.7	1,020.6	869.2	151.33	6.744	
14,400.0	10,124.8	13,658.9	9,349.8	113.3	113.3	-40.57	-435.5	4,202.6	1,019.1	864.3	154.79	6.584	
14,500.0	10,125.2	13,758.9	9,352.3	115.6	115.7	-40.65	-434.7	4,302.6	1,017.6	859.4	158.26	6.430	
14,600.0	10,125.7	13,858.9	9,354.8	117.9	118.0	-40.73	-433.9	4,402.5	1,016.2	854.4	161.74	6.283	
14,700.0	10,126.1	13,958.8	9,357.3	120.2	120.4	-40.81	-433.1	4,502.5	1,014.7	849.5	165.24	6.141	
14,800.0	10,126.6	14,058.8	9,359.8	122.6	122.7	-40.89	-432.3	4,602.4	1,013.3	844.5	168.75	6.005	
14,900.0	10,127.0	14,158.8	9,362.3	124.9	125.1	-40.98	-431.6	4,702.4	1,011.8	839.6	172.28	5.873	
15,000.0	10,127.5	14,258.8	9,364.8	127.2	127.5	-41.06	-430.8	4,802.3	1,010.4	834.6	175.82	5.747	
15,100.0	10,127.9	14,358.8	9,367.2	129.6	129.8	-41.14	-430.0	4,902.2	1,009.0	829.6	179.38	5.625	
15,200.0	10,128.4	14,458.7	9,369.7	131.9	132.2	-41.22	-429.2	5,002.2	1,007.5	824.6	182.94	5.507	
15,300.0	10,128.9	14,558.7	9,372.2	134.3	134.6	-41.30	-428.4	5,102.1	1,006.1	819.5	186.52	5.394	
15,400.0	10,129.3	14,658.7	9,374.7	136.6	137.0	-41.39	-427.7	5,202.1	1,004.6	814.5	190.12	5.284	
15,500.0	10,129.8	14,758.7	9,377.2	139.0	139.4	-41.47	-426.9	5,302.0	1,003.2	809.5	193.72	5.179	
15,600.0	10,130.2	14,858.7	9,379.7	141.3	141.7	-41.55	-426.1	5,402.0	1,001.8	804.4	197.34	5.076	
15,700.0	10,130.7	14,958.6	9,382.2	143.7	144.1	-41.63	-425.3	5,501.9	1,000.3	799.4	200.97	4.977	
15,800.0	10,131.1	15,058.6	9,384.7	146.1	146.5	-41.72	-424.5	5,601.9	998.9	794.3	204.62	4.882	
15,900.0	10,131.6	15,158.6	9,387.2	148.4	148.9	-41.80	-423.8	5,701.8	997.5	789.2	208.27	4.789	
16,000.0	10,132.1	15,258.6	9,389.7	150.8	151.3	-41.89	-423.0	5,801.8	996.1	784.1	211.94	4.700	
16,100.0	10,132.5	15,358.5	9,392.2	153.2	153.7	-41.97	-422.2	5,901.7	994.6	779.0	215.62	4.613	
16,200.0	10,133.0	15,458.5	9,394.6	155.5	156.1	-42.05	-421.4	6,001.6	993.2	773.9	219.31	4.529	
16,300.0	10,133.4	15,558.5	9,397.1	157.9	158.5	-42.14	-420.6	6,101.6	991.8	768.8	223.02	4.447	
16,400.0	10,133.9	15,658.5	9,399.6	160.3	160.9	-42.22	-419.9	6,201.5	990.4	763.7	226.73	4.368	
16,500.0	10,134.3	15,758.5	9,402.1	162.7	163.3	-42.31	-419.1	6,301.5	989.0	758.5	230.46	4.291	
16,600.0	10,134.8	15,858.4	9,404.6	165.1	165.7	-42.39	-418.3	6,401.4	987.6	753.4	234.20	4.217	
16,700.0	10,135.3	15,958.4	9,407.1	167.4	168.1	-42.48	-417.5	6,501.4	986.2	748.2	237.95	4.144	
16,800.0	10,135.7	16,058.4	9,409.6	169.8	170.5	-42.57	-416.7	6,601.3	984.7	743.0	241.71	4.074	
16,900.0	10,136.2	16,158.4	9,412.1	172.2	172.9	-42.65	-415.9	6,701.3	983.3	737.9	245.49	4.006	
17,000.0	10,136.6	16,258.4	9,414.6	174.6	175.3	-42.74	-415.2	6,801.2	981.9	732.7	249.27	3.939	
17,100.0	10,137.1	16,358.3	9,417.1	177.0	177.7	-42.83	-414.4	6,901.2	980.5	727.5	253.07	3.875	
17,200.0	10,137.5	16,458.3	9,419.6	179.4	180.1	-42.91	-413.6	7,001.1	979.1	722.3	256.87	3.812	
17,300.0	10,138.0	16,558.3	9,422.0	181.8	182.5	-43.00	-412.8	7,101.0	977.7	717.1	260.69	3.751	
17,400.0	10,138.4	16,658.3	9,424.5	184.2	185.0	-43.09	-412.0	7,201.0	976.4	711.8	264.52	3.691	
17,411.2	10,138.5	16,669.5	9,424.8	184.4	185.2	-43.10	-412.0	7,212.2	976.2	711.2	264.95	3.684	
17,411.8	10,138.5	16,670.0	9,424.8	184.5	185.2	-43.10	-412.0	7,212.7	976.2	711.2	264.98	3.684	SF

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	1.0	-1.0	0.0	0.0	0.47	29.7	0.2	29.7				
100.0	100.0	101.0	99.0	0.1	0.1	0.47	29.7	0.2	29.7	29.5	0.26	114.470	
200.0	200.0	201.0	199.0	0.5	0.5	0.47	29.7	0.2	29.7	28.8	0.98	30.455	
300.0	300.0	301.0	299.0	0.8	0.8	0.47	29.7	0.2	29.7	28.1	1.69	17.564	
400.0	400.0	401.0	399.0	1.2	1.2	0.47	29.7	0.2	29.7	27.3	2.41	12.341	
500.0	500.0	501.0	499.0	1.6	1.6	0.47	29.7	0.2	29.7	26.6	3.13	9.512	
600.0	600.0	601.0	599.0	1.9	1.9	0.47	29.7	0.2	29.7	25.9	3.84	7.738	
700.0	700.0	701.0	699.0	2.3	2.3	0.47	29.7	0.2	29.7	25.2	4.56	6.522	
800.0	800.0	801.0	799.0	2.6	2.6	0.47	29.7	0.2	29.7	24.5	5.28	5.636	
900.0	900.0	901.0	899.0	3.0	3.0	0.47	29.7	0.2	29.7	23.8	6.00	4.962	
1,000.0	1,000.0	1,001.0	999.0	3.4	3.4	0.47	29.7	0.2	29.7	23.0	6.71	4.432	
1,100.0	1,100.0	1,101.0	1,099.0	3.7	3.7	0.47	29.7	0.2	29.7	22.3	7.43	4.004	
1,200.0	1,200.0	1,201.0	1,199.0	4.1	4.1	0.47	29.7	0.2	29.7	21.6	8.15	3.652	CC, ES
1,300.0	1,300.0	1,301.0	1,299.0	4.4	4.4	161.01	29.7	0.2	30.6	21.7	8.85	3.456	
1,400.0	1,400.0	1,401.0	1,399.0	4.7	4.8	162.48	29.7	0.2	33.1	23.5	9.53	3.468	
1,500.0	1,499.9	1,501.1	1,498.9	5.1	5.2	164.49	29.7	0.2	37.2	27.0	10.22	3.643	
1,600.0	1,599.7	1,601.3	1,598.7	5.4	5.5	166.64	29.7	0.2	43.2	32.2	10.92	3.953	
1,700.0	1,699.4	1,701.6	1,698.4	5.8	5.9	168.67	29.7	0.2	50.8	39.2	11.62	4.375	
1,800.0	1,798.9	1,802.1	1,797.9	6.1	6.2	170.44	29.7	0.2	60.3	47.9	12.32	4.891	
1,900.0	1,898.3	1,902.7	1,897.3	6.5	6.6	171.94	29.7	0.2	71.4	58.4	13.02	5.486	
2,000.0	1,997.4	2,003.6	1,996.4	6.8	7.0	173.16	29.7	0.2	84.4	70.7	13.73	6.146	
2,100.0	2,096.3	2,104.7	2,095.3	7.2	7.3	174.17	29.7	0.2	99.1	84.6	14.44	6.862	
2,200.0	2,194.9	2,206.1	2,193.9	7.6	7.7	174.98	29.7	0.2	115.5	100.4	15.15	7.624	
2,269.4	2,263.2	2,262.2	2,262.2	7.9	7.9	175.46	29.7	0.2	127.9	112.3	15.60	8.204	
2,300.0	2,293.3	2,307.7	2,292.3	8.0	8.0	175.65	29.7	0.2	133.6	117.7	15.87	8.420	
2,400.0	2,391.5	2,409.5	2,390.5	8.4	8.4	176.18	29.7	0.2	152.1	135.5	16.58	9.174	
2,500.0	2,489.8	2,488.8	2,488.8	8.8	8.7	176.60	29.7	0.2	170.6	153.4	17.22	9.910	
2,600.0	2,588.1	2,587.1	2,587.1	9.2	9.0	176.93	29.7	0.2	189.2	171.2	17.92	10.553	
2,700.0	2,686.3	2,685.3	2,685.3	9.6	9.4	177.21	29.7	0.2	207.7	189.1	18.63	11.146	
2,800.0	2,784.6	2,783.6	2,783.6	10.1	9.7	177.44	29.7	0.2	226.2	206.9	19.34	11.695	
2,900.0	2,882.8	2,881.8	2,881.8	10.5	10.1	177.63	29.7	0.2	244.8	224.7	20.05	12.205	
3,000.0	2,981.1	2,980.1	2,980.1	10.9	10.5	177.80	29.7	0.2	263.3	242.5	20.77	12.679	
3,100.0	3,079.4	3,086.9	3,086.9	11.4	10.8	177.97	28.5	-0.1	280.7	259.2	21.51	13.048	
3,200.0	3,177.6	3,196.9	3,196.8	11.8	11.2	178.20	23.2	-1.3	294.3	272.1	22.23	13.242	
3,300.0	3,275.9	3,308.0	3,307.4	12.2	11.5	178.48	13.7	-3.6	304.2	281.3	22.92	13.272	
3,400.0	3,374.2	3,419.8	3,418.3	12.7	11.9	178.81	-0.1	-6.9	310.2	286.6	23.59	13.153	
3,500.0	3,472.4	3,531.8	3,528.8	13.1	12.3	179.22	-18.1	-11.2	312.4	288.1	24.22	12.896	
3,600.0	3,570.7	3,643.9	3,638.5	13.6	12.7	179.70	-40.4	-16.4	310.6	285.8	24.82	12.512	
3,700.0	3,669.0	3,755.7	3,746.9	14.0	13.1	-179.72	-66.6	-22.7	305.0	279.6	25.39	12.011	
3,800.0	3,767.2	3,866.7	3,853.6	14.5	13.5	-179.01	-96.8	-29.9	295.6	269.6	25.93	11.399	
3,900.0	3,865.5	3,976.8	3,958.0	14.9	13.9	-178.14	-130.7	-37.9	282.4	256.0	26.43	10.684	
4,000.0	3,963.7	4,085.5	4,059.7	15.4	14.4	-177.04	-167.9	-46.8	265.5	238.6	26.91	9.869	
4,100.0	4,062.0	4,192.7	4,158.5	15.8	14.9	-175.62	-208.3	-56.4	245.1	217.8	27.36	8.961	
4,200.0	4,160.3	4,298.0	4,254.0	16.3	15.4	-173.73	-251.5	-66.7	221.4	193.6	27.80	7.963	
4,300.0	4,258.5	4,395.2	4,341.3	16.7	15.9	-171.40	-293.2	-76.6	195.7	167.2	28.55	6.856	
4,400.0	4,356.8	4,508.5	4,427.7	17.2	16.5	-168.39	-334.5	-86.5	170.5	141.0	29.46	5.786	
4,500.0	4,455.1	4,587.8	4,514.1	17.6	17.0	-164.37	-375.9	-96.3	145.8	115.5	30.34	4.805	
4,600.0	4,553.3	4,684.1	4,600.5	18.1	17.6	-158.77	-417.2	-106.2	122.1	90.6	31.47	3.880	
4,700.0	4,651.6	4,780.4	4,686.9	18.5	18.1	-150.67	-458.6	-116.0	100.0	67.1	32.93	3.038	
4,800.0	4,749.8	4,876.7	4,773.3	19.0	18.7	-138.56	-500.0	-125.8	81.0	46.0	34.96	2.316	
4,900.0	4,848.1	4,973.0	4,859.8	19.5	19.3	-120.78	-541.3	-135.7	67.5	29.9	37.61	1.794	
4,988.1	4,934.7	5,057.9	4,935.9	19.9	19.9	-100.89	-577.8	-144.4	63.2	23.5	39.63	1.594	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	5,069.4	4,946.2	19.9	19.9	-98.10	-582.7	-145.5	63.3	23.4	39.81	1.589	SF
5,100.0	5,044.6	5,165.7	5,032.6	20.4	20.6	-76.23	-624.0	-155.4	70.0	29.7	40.24	1.739	
5,200.0	5,142.9	5,262.0	5,119.0	20.8	21.2	-59.88	-665.4	-165.2	85.1	45.4	39.74	2.142	
5,300.0	5,241.2	5,358.3	5,205.4	21.3	21.8	-48.89	-706.8	-175.1	105.1	65.7	39.36	2.670	
5,400.0	5,339.4	5,454.6	5,291.8	21.8	22.5	-41.50	-748.1	-184.9	127.6	88.3	39.32	3.246	
5,500.0	5,437.7	5,550.9	5,378.3	22.2	23.1	-36.35	-789.5	-194.7	151.6	112.1	39.54	3.834	
5,600.0	5,536.0	5,647.2	5,464.7	22.7	23.8	-32.61	-830.8	-204.6	176.4	136.5	39.94	4.418	
5,700.0	5,634.2	5,743.5	5,551.1	23.1	24.5	-29.79	-872.2	-214.4	201.8	161.4	40.44	4.990	
5,800.0	5,732.5	5,839.8	5,637.5	23.6	25.2	-27.60	-913.5	-224.3	227.5	186.5	41.02	5.547	
5,900.0	5,830.7	5,936.1	5,723.9	24.1	25.8	-25.85	-954.9	-234.1	253.5	211.9	41.65	6.087	
6,000.0	5,929.0	6,032.4	5,810.3	24.5	26.5	-24.43	-996.3	-244.0	279.7	237.3	42.31	6.609	
6,100.0	6,027.3	6,128.7	5,896.8	25.0	27.2	-23.25	-1,037.6	-253.8	305.9	262.9	43.00	7.114	
6,200.0	6,125.5	6,225.0	5,983.2	25.4	27.9	-22.26	-1,079.0	-263.7	332.3	288.6	43.71	7.602	
6,300.0	6,223.8	6,321.4	6,069.6	25.9	28.6	-21.42	-1,120.3	-273.5	358.8	314.4	44.44	8.074	
6,400.0	6,322.1	6,417.7	6,156.0	26.4	29.3	-20.69	-1,161.7	-283.3	385.3	340.1	45.18	8.529	
6,500.0	6,420.3	6,514.0	6,242.4	26.8	30.0	-20.05	-1,203.1	-293.2	411.9	366.0	45.93	8.969	
6,600.0	6,518.6	6,610.3	6,328.8	27.3	30.7	-19.49	-1,244.4	-303.0	438.5	391.8	46.68	9.394	
6,700.0	6,616.8	6,706.6	6,415.3	27.8	31.4	-18.99	-1,285.8	-312.9	465.2	417.7	47.44	9.805	
6,800.0	6,715.1	6,806.5	6,504.9	28.2	32.2	-18.54	-1,328.6	-323.1	491.8	443.5	48.32	10.179	
6,900.0	6,813.4	6,917.7	6,605.8	28.7	33.0	-18.14	-1,374.2	-333.9	516.4	466.9	49.47	10.438	
7,000.0	6,911.6	7,030.6	6,709.5	29.2	33.8	-17.85	-1,417.5	-344.2	538.3	487.7	50.61	10.635	
7,100.0	7,009.9	7,144.8	6,815.7	29.6	34.5	-17.65	-1,458.4	-354.0	557.3	505.5	51.72	10.774	
7,200.0	7,108.2	7,260.3	6,924.3	30.1	35.3	-17.53	-1,496.5	-363.0	573.4	520.6	52.80	10.859	
7,300.0	7,206.4	7,376.7	7,035.1	30.6	36.0	-17.49	-1,531.6	-371.4	586.5	532.7	53.85	10.893	
7,400.0	7,304.7	7,494.1	7,147.6	31.0	36.6	-17.51	-1,563.7	-379.0	596.7	541.9	54.85	10.879	
7,500.0	7,403.0	7,612.0	7,261.8	31.5	37.3	-17.60	-1,592.6	-385.9	603.9	548.1	55.80	10.822	
7,600.0	7,501.2	7,730.3	7,377.2	31.9	37.9	-17.75	-1,618.1	-392.0	608.0	551.3	56.71	10.722	
7,700.0	7,599.5	7,848.8	7,493.4	32.4	38.4	-17.97	-1,640.1	-397.2	609.1	551.5	57.56	10.581	
7,800.0	7,697.7	7,967.2	7,610.3	32.9	38.9	-18.26	-1,658.6	-401.6	607.2	548.8	58.37	10.402	
7,833.5	7,730.7	8,006.9	7,649.6	33.0	39.1	-18.37	-1,664.0	-402.9	605.9	547.2	58.63	10.334	
7,900.0	7,796.1	8,085.4	7,727.5	33.3	39.4	-18.58	-1,673.6	-405.2	602.8	543.7	59.12	10.196	
8,000.0	7,894.9	8,203.4	7,844.9	33.8	39.8	-18.89	-1,685.0	-407.9	597.7	537.9	59.80	9.996	
8,100.0	7,994.0	8,321.1	7,962.3	34.2	40.2	-19.17	-1,692.8	-409.8	592.1	531.7	60.41	9.802	
8,200.0	8,093.5	8,438.5	8,079.7	34.6	40.6	-19.44	-1,697.2	-410.8	586.0	525.1	60.95	9.615	
8,300.0	8,193.2	8,551.1	8,192.2	34.9	40.9	-19.68	-1,698.1	-411.0	579.5	518.0	61.49	9.425	
8,400.0	8,293.1	8,650.9	8,292.1	35.3	41.1	-19.83	-1,698.1	-411.0	574.7	512.5	62.17	9.244	
8,500.0	8,393.0	8,750.9	8,392.0	35.6	41.3	-19.90	-1,698.1	-411.0	572.3	509.5	62.83	9.109	
8,546.5	8,439.5	8,802.6	8,438.5	35.8	41.4	-179.90	-1,698.1	-411.0	572.0	508.9	63.14	9.060	
8,600.0	8,493.0	8,850.9	8,492.0	35.9	41.6	-179.90	-1,698.1	-411.0	572.0	508.6	63.46	9.015	
8,700.0	8,593.0	8,950.9	8,592.0	36.2	41.8	-179.90	-1,698.1	-411.0	572.0	508.0	64.08	8.928	
8,704.7	8,597.7	8,955.6	8,596.7	36.2	41.8	-179.90	-1,698.1	-411.0	572.0	507.9	64.10	8.924	
8,800.0	8,693.0	9,047.9	8,689.0	36.4	42.0	-179.95	-1,698.2	-410.5	572.1	507.4	64.74	8.837	
8,900.0	8,793.0	9,135.3	8,775.8	36.7	42.2	179.04	-1,699.5	-400.4	573.7	508.1	65.66	8.738	
9,000.0	8,893.0	9,217.8	8,855.3	37.0	42.4	176.91	-1,702.2	-378.9	578.2	511.4	66.74	8.663	
9,100.0	8,993.0	9,292.8	8,924.2	37.3	42.6	174.07	-1,706.0	-349.8	587.0	519.1	67.89	8.647	
9,200.0	9,093.0	9,359.1	8,981.5	37.6	42.7	170.93	-1,710.2	-316.8	601.8	533.0	68.86	8.740	
9,300.0	9,193.0	9,416.6	9,027.8	37.8	42.8	167.82	-1,714.6	-283.0	624.1	554.7	69.39	8.994	
9,400.0	9,293.0	9,466.0	9,064.7	38.1	42.8	164.93	-1,718.8	-250.4	654.6	585.3	69.33	9.442	
9,446.5	9,339.5	9,486.5	9,079.1	38.3	42.8	163.69	-1,720.7	-236.0	671.7	602.6	69.08	9.723	
9,450.0	9,343.0	9,488.0	9,080.1	38.3	42.8	73.70	-1,720.8	-234.9	673.0	604.0	69.06	9.746	
9,500.0	9,393.0	9,509.4	9,094.6	38.4	42.9	70.42	-1,722.8	-219.3	692.8	624.2	68.62	10.096	
9,550.0	9,442.5	9,531.0	9,108.7	38.5	42.9	67.23	-1,724.9	-203.0	713.1	645.1	68.03	10.482	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,600.0	9,491.2	9,550.0	9,120.4	38.7	42.9	64.30	-1,726.8	-188.2	733.7	666.5	67.23	10.913	
9,650.0	9,538.8	9,574.8	9,135.1	38.8	42.9	61.32	-1,729.4	-168.3	754.2	687.6	66.54	11.335	
9,700.0	9,584.8	9,600.0	9,149.1	38.8	43.0	58.57	-1,732.1	-147.6	774.3	708.5	65.79	11.769	
9,750.0	9,629.0	9,619.2	9,159.1	38.9	43.0	56.23	-1,734.2	-131.3	793.8	729.0	64.82	12.247	
9,800.0	9,671.0	9,650.0	9,174.0	39.0	43.0	53.85	-1,737.6	-104.6	812.7	748.5	64.22	12.656	
9,850.0	9,710.5	9,664.0	9,180.3	39.0	43.0	52.07	-1,739.2	-92.2	830.5	767.3	63.12	13.158	
9,900.0	9,747.1	9,686.5	9,189.8	39.1	43.0	50.34	-1,741.8	-72.0	847.2	784.9	62.34	13.590	
9,950.0	9,780.7	9,700.0	9,195.1	39.1	43.0	48.91	-1,743.4	-59.7	862.8	801.4	61.40	14.053	
10,000.0	9,810.9	9,731.7	9,206.4	39.1	43.1	47.52	-1,747.2	-30.3	876.9	815.8	61.06	14.361	
10,050.0	9,837.5	9,750.0	9,212.1	39.1	43.1	46.44	-1,749.4	-13.1	889.7	829.2	60.50	14.705	
10,100.0	9,860.3	9,777.0	9,219.6	39.1	43.1	45.52	-1,752.7	12.7	900.9	840.6	60.29	14.943	
10,106.5	9,862.9	9,779.9	9,220.3	39.1	43.1	45.42	-1,753.1	15.5	902.2	842.0	60.26	14.973	
10,200.0	9,899.6	9,821.9	9,229.3	39.1	43.1	45.02	-1,758.3	56.1	922.9	862.9	60.01	15.379	
10,300.0	9,935.6	9,865.7	9,235.5	39.1	43.2	44.47	-1,763.9	99.1	948.0	887.9	60.06	15.784	
10,400.0	9,968.4	9,953.1	9,242.1	39.1	43.3	43.63	-1,774.2	185.7	974.7	913.9	60.79	16.033	
10,500.0	9,997.8	10,063.3	9,248.9	39.2	43.5	42.69	-1,783.7	295.2	998.1	936.2	61.83	16.142	
10,600.0	10,023.9	10,174.3	9,254.2	39.6	43.7	41.76	-1,789.2	406.0	1,017.7	954.8	62.95	16.168	
10,700.0	10,046.6	10,285.7	9,258.0	40.4	44.1	40.83	-1,790.8	517.3	1,033.7	969.6	64.12	16.121	
10,800.0	10,065.9	10,385.9	9,260.6	41.5	44.5	40.04	-1,789.9	617.5	1,046.4	981.0	65.34	16.013	
10,900.0	10,081.8	10,485.0	9,263.1	42.7	45.2	39.44	-1,789.1	716.6	1,056.5	989.7	66.76	15.826	
11,000.0	10,094.2	10,584.5	9,265.6	44.0	46.0	39.00	-1,788.2	816.0	1,064.0	995.6	68.36	15.565	
11,100.0	10,103.2	10,684.3	9,268.1	45.4	47.1	38.71	-1,787.3	915.8	1,068.8	998.7	70.14	15.237	
11,200.0	10,108.6	10,784.3	9,270.6	46.9	48.3	38.57	-1,786.4	1,015.7	1,070.9	998.8	72.11	14.851	
11,293.4	10,110.6	10,877.7	9,273.0	48.3	49.6	38.58	-1,785.6	1,109.1	1,070.5	996.3	74.12	14.443	
11,300.0	10,110.6	10,884.3	9,273.2	48.4	49.7	38.59	-1,785.6	1,115.6	1,070.3	996.1	74.26	14.413	
11,400.0	10,111.1	10,984.2	9,275.7	50.0	51.2	38.65	-1,784.7	1,215.6	1,068.6	992.0	76.54	13.961	
11,500.0	10,111.5	11,084.2	9,278.3	51.7	52.8	38.71	-1,783.8	1,315.5	1,066.8	987.9	78.90	13.522	
11,600.0	10,112.0	11,184.2	9,280.8	53.5	54.5	38.77	-1,783.0	1,415.5	1,065.1	983.7	81.33	13.096	
11,700.0	10,112.4	11,284.2	9,283.3	55.3	56.3	38.83	-1,782.1	1,515.4	1,063.3	979.5	83.82	12.685	
11,800.0	10,112.9	11,384.2	9,285.9	57.1	58.1	38.89	-1,781.2	1,615.4	1,061.5	975.1	86.38	12.288	
11,900.0	10,113.3	11,484.1	9,288.4	59.0	60.0	38.95	-1,780.3	1,715.3	1,059.8	970.8	89.00	11.907	
12,000.0	10,113.8	11,584.1	9,290.9	60.9	61.9	39.01	-1,779.5	1,815.2	1,058.0	966.3	91.67	11.541	
12,100.0	10,114.3	11,684.1	9,293.5	62.9	63.9	39.07	-1,778.6	1,915.2	1,056.2	961.9	94.40	11.190	
12,200.0	10,114.7	11,784.1	9,296.0	64.9	65.9	39.13	-1,777.7	2,015.1	1,054.5	957.3	97.16	10.853	
12,300.0	10,115.2	11,884.0	9,298.5	66.9	67.9	39.20	-1,776.9	2,115.1	1,052.7	952.8	99.98	10.530	
12,400.0	10,115.6	11,984.0	9,301.1	68.9	70.0	39.26	-1,776.0	2,215.0	1,051.0	948.2	102.83	10.221	
12,500.0	10,116.1	12,084.0	9,303.6	71.0	72.0	39.32	-1,775.1	2,315.0	1,049.2	943.5	105.72	9.925	
12,600.0	10,116.5	12,184.0	9,306.1	73.1	74.2	39.38	-1,774.2	2,414.9	1,047.5	938.8	108.65	9.641	
12,700.0	10,117.0	12,284.0	9,308.7	75.2	76.3	39.44	-1,773.4	2,514.8	1,045.7	934.1	111.61	9.370	
12,800.0	10,117.4	12,383.9	9,311.2	77.4	78.4	39.51	-1,772.5	2,614.8	1,044.0	929.4	114.60	9.110	
12,900.0	10,117.9	12,483.9	9,313.7	79.5	80.6	39.57	-1,771.6	2,714.7	1,042.2	924.6	117.62	8.861	
13,000.0	10,118.4	12,583.9	9,316.3	81.7	82.8	39.63	-1,770.7	2,814.7	1,040.5	919.8	120.67	8.623	
13,100.0	10,118.8	12,683.9	9,318.8	83.9	85.0	39.70	-1,769.9	2,914.6	1,038.7	915.0	123.74	8.394	
13,200.0	10,119.3	12,783.8	9,321.3	86.1	87.2	39.76	-1,769.0	3,014.5	1,037.0	910.1	126.84	8.175	
13,300.0	10,119.7	12,883.8	9,323.9	88.3	89.4	39.82	-1,768.1	3,114.5	1,035.2	905.3	129.97	7.965	
13,400.0	10,120.2	12,983.8	9,326.4	90.5	91.7	39.89	-1,767.3	3,214.4	1,033.5	900.4	133.12	7.764	
13,500.0	10,120.6	13,083.8	9,328.9	92.8	93.9	39.95	-1,766.4	3,314.4	1,031.8	895.5	136.29	7.570	
13,600.0	10,121.1	13,183.8	9,331.5	95.0	96.2	40.02	-1,765.5	3,414.3	1,030.0	890.5	139.48	7.385	
13,700.0	10,121.6	13,283.7	9,334.0	97.3	98.4	40.08	-1,764.6	3,514.3	1,028.3	885.6	142.69	7.206	
13,800.0	10,122.0	13,383.7	9,336.5	99.5	100.7	40.15	-1,763.8	3,614.2	1,026.5	880.6	145.92	7.035	
13,900.0	10,122.5	13,483.7	9,339.1	101.8	103.0	40.21	-1,762.9	3,714.1	1,024.8	875.6	149.17	6.870	
14,000.0	10,122.9	13,583.7	9,341.6	104.1	105.3	40.28	-1,762.0	3,814.1	1,023.1	870.6	152.44	6.711	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.0	10,123.4	13,683.7	9,344.1	106.4	107.6	40.34	-1,761.2	3,914.0	1,021.3	865.6	155.73	6.559	
14,200.0	10,123.8	13,783.6	9,346.7	108.7	109.9	40.41	-1,760.3	4,014.0	1,019.6	860.6	159.03	6.411	
14,300.0	10,124.3	13,883.6	9,349.2	111.0	112.2	40.47	-1,759.4	4,113.9	1,017.9	855.5	162.35	6.270	
14,400.0	10,124.8	13,983.6	9,351.7	113.3	114.5	40.54	-1,758.5	4,213.9	1,016.2	850.5	165.69	6.133	
14,500.0	10,125.2	14,083.6	9,354.3	115.6	116.8	40.61	-1,757.7	4,313.8	1,014.4	845.4	169.04	6.001	
14,600.0	10,125.7	14,183.5	9,356.8	117.9	119.2	40.67	-1,756.8	4,413.7	1,012.7	840.3	172.40	5.874	
14,700.0	10,126.1	14,283.5	9,359.3	120.2	121.5	40.74	-1,755.9	4,513.7	1,011.0	835.2	175.78	5.751	
14,800.0	10,126.6	14,383.5	9,361.9	122.6	123.8	40.81	-1,755.0	4,613.6	1,009.3	830.1	179.18	5.633	
14,900.0	10,127.0	14,483.5	9,364.4	124.9	126.2	40.87	-1,754.2	4,713.6	1,007.5	824.9	182.59	5.518	
15,000.0	10,127.5	14,583.5	9,366.9	127.2	128.5	40.94	-1,753.3	4,813.5	1,005.8	819.8	186.01	5.407	
15,100.0	10,127.9	14,683.4	9,369.5	129.6	130.9	41.01	-1,752.4	4,913.5	1,004.1	814.6	189.45	5.300	
15,200.0	10,128.4	14,783.4	9,372.0	131.9	133.2	41.08	-1,751.6	5,013.4	1,002.4	809.5	192.90	5.196	
15,300.0	10,128.9	14,883.4	9,374.5	134.3	135.6	41.15	-1,750.7	5,113.3	1,000.7	804.3	196.36	5.096	
15,400.0	10,129.3	14,983.4	9,377.1	136.6	137.9	41.21	-1,749.8	5,213.3	998.9	799.1	199.83	4.999	
15,500.0	10,129.8	15,083.3	9,379.6	139.0	140.3	41.28	-1,748.9	5,313.2	997.2	793.9	203.32	4.905	
15,600.0	10,130.2	15,183.3	9,382.1	141.3	142.7	41.35	-1,748.1	5,413.2	995.5	788.7	206.82	4.813	
15,700.0	10,130.7	15,283.3	9,384.7	143.7	145.0	41.42	-1,747.2	5,513.1	993.8	783.5	210.33	4.725	
15,800.0	10,131.1	15,383.3	9,387.2	146.1	147.4	41.49	-1,746.3	5,613.0	992.1	778.2	213.86	4.639	
15,900.0	10,131.6	15,483.3	9,389.7	148.4	149.8	41.56	-1,745.5	5,713.0	990.4	773.0	217.40	4.556	
16,000.0	10,132.1	15,583.2	9,392.3	150.8	152.1	41.63	-1,744.6	5,812.9	988.7	767.7	220.94	4.475	
16,100.0	10,132.5	15,683.2	9,394.8	153.2	154.5	41.70	-1,743.7	5,912.9	987.0	762.5	224.50	4.396	
16,200.0	10,133.0	15,783.2	9,397.3	155.5	156.9	41.77	-1,742.8	6,012.8	985.3	757.2	228.08	4.320	
16,300.0	10,133.4	15,883.2	9,399.9	157.9	159.3	41.84	-1,742.0	6,112.8	983.6	751.9	231.66	4.246	
16,400.0	10,133.9	15,983.2	9,402.4	160.3	161.7	41.91	-1,741.1	6,212.7	981.9	746.6	235.25	4.174	
16,500.0	10,134.3	16,083.1	9,404.9	162.7	164.1	41.98	-1,740.2	6,312.6	980.2	741.3	238.86	4.104	
16,600.0	10,134.8	16,183.1	9,407.5	165.1	166.4	42.05	-1,739.3	6,412.6	978.5	736.0	242.48	4.035	
16,700.0	10,135.3	16,283.1	9,410.0	167.4	168.8	42.13	-1,738.5	6,512.5	976.8	730.7	246.10	3.969	
16,800.0	10,135.7	16,383.1	9,412.5	169.8	171.2	42.20	-1,737.6	6,612.5	975.1	725.3	249.74	3.904	
16,900.0	10,136.2	16,483.0	9,415.1	172.2	173.6	42.27	-1,736.7	6,712.4	973.4	720.0	253.39	3.841	
17,000.0	10,136.6	16,583.0	9,417.6	174.6	176.0	42.34	-1,735.9	6,812.4	971.7	714.7	257.05	3.780	
17,100.0	10,137.1	16,683.0	9,420.1	177.0	178.4	42.42	-1,735.0	6,912.3	970.0	709.3	260.72	3.720	
17,200.0	10,137.5	16,783.0	9,422.7	179.4	180.8	42.49	-1,734.1	7,012.2	968.3	703.9	264.40	3.662	
17,300.0	10,138.0	16,883.0	9,425.2	181.8	183.2	42.56	-1,733.2	7,112.2	966.6	698.5	268.10	3.606	
17,400.0	10,138.4	16,982.9	9,427.7	184.2	185.6	42.63	-1,732.4	7,212.1	965.0	693.2	271.80	3.550	
17,411.2	10,138.5	16,994.2	9,428.0	184.4	185.9	42.64	-1,732.3	7,223.3	964.8	692.5	272.22	3.544	
17,411.8	10,138.5	16,994.7	9,428.0	184.5	185.9	42.64	-1,732.3	7,223.9	964.8	692.5	272.24	3.544	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-159.62	-80.2	-29.8	85.6				
100.0	100.0	100.4	100.3	0.1	0.1	-159.87	-79.6	-29.2	84.8	84.5	0.27	311.292	
200.0	200.0	201.7	201.6	0.5	0.5	-160.65	-77.7	-27.3	82.4	81.4	1.00	82.429	
300.0	300.0	302.8	302.7	0.8	0.9	-162.06	-74.6	-24.1	78.5	76.7	1.73	45.364	
400.0	400.0	402.7	402.4	1.2	1.2	-163.91	-70.9	-20.4	73.8	71.4	2.44	30.265	
500.0	500.0	502.5	502.1	1.6	1.6	-166.00	-67.2	-16.7	69.3	66.1	3.16	21.965	
600.0	600.0	602.4	601.8	1.9	2.0	-168.38	-63.5	-13.1	64.9	61.0	3.87	16.749	
700.0	700.0	702.3	701.6	2.3	2.3	-171.10	-59.8	-9.4	60.6	56.0	4.59	13.188	
800.0	800.0	802.1	801.3	2.6	2.7	-174.24	-56.1	-5.7	56.4	51.1	5.31	10.618	
900.0	900.0	902.0	901.0	3.0	3.1	-177.85	-52.4	-2.0	52.5	46.4	6.04	8.692	
1,000.0	1,000.0	1,001.8	1,000.7	3.4	3.4	177.97	-48.7	1.7	48.8	42.0	6.76	7.212	
1,100.0	1,100.0	1,101.7	1,100.5	3.7	3.8	173.13	-45.0	5.4	45.4	37.9	7.49	6.058	
1,200.0	1,200.0	1,201.6	1,200.2	4.1	4.2	167.55	-41.3	9.1	42.3	34.1	8.21	5.152	
1,300.0	1,300.0	1,301.4	1,299.9	4.4	4.5	-39.64	-37.6	12.8	39.1	30.1	8.93	4.377	
1,400.0	1,400.0	1,401.9	1,400.2	4.7	4.9	-49.00	-33.2	15.3	34.2	24.6	9.62	3.558	
1,500.0	1,499.9	1,502.1	1,500.3	5.1	5.2	-62.33	-27.6	15.6	27.3	17.0	10.31	2.644	
1,600.0	1,599.7	1,601.9	1,599.8	5.4	5.6	-87.90	-20.6	13.5	19.8	8.9	10.98	1.806	
1,663.8	1,663.3	1,665.3	1,663.0	5.6	5.8	-116.73	-15.6	11.1	17.6	6.2	11.40	1.545	CC, ES, SF
1,700.0	1,699.4	1,701.1	1,698.6	5.8	6.0	-135.44	-12.5	9.3	18.5	6.9	11.63	1.592	
1,800.0	1,798.9	1,800.5	1,796.4	6.1	6.3	-171.42	-3.5	3.4	29.6	17.3	12.31	2.404	
1,900.0	1,898.3	1,902.5	1,893.8	6.5	6.7	174.64	5.5	-2.6	47.3	34.3	13.00	3.638	
2,000.0	1,997.4	1,995.1	1,990.9	6.8	7.0	168.69	14.5	-8.6	67.9	54.2	13.67	4.969	
2,100.0	2,096.3	2,107.5	2,087.6	7.2	7.4	165.77	23.4	-14.5	90.5	76.1	14.41	6.284	
2,200.0	2,194.9	2,189.4	2,184.0	7.6	7.7	164.23	32.3	-20.4	114.9	99.9	15.04	7.639	
2,269.4	2,263.2	2,256.5	2,250.6	7.9	8.0	163.60	38.5	-24.5	132.8	117.3	15.53	8.556	
2,300.0	2,293.3	2,286.0	2,279.9	8.0	8.1	163.42	41.2	-26.3	140.9	125.2	15.74	8.953	
2,400.0	2,391.5	2,382.4	2,375.8	8.4	8.4	162.94	50.1	-32.2	167.3	150.9	16.43	10.180	
2,500.0	2,489.8	2,478.9	2,471.6	8.8	8.8	162.59	58.9	-38.0	193.7	176.6	17.13	11.305	
2,600.0	2,588.1	2,575.3	2,567.5	9.2	9.2	162.32	67.8	-43.9	220.1	202.3	17.84	12.340	
2,700.0	2,686.3	2,671.8	2,663.4	9.6	9.5	162.12	76.6	-49.8	246.5	227.9	18.54	13.294	
2,800.0	2,784.6	2,768.2	2,759.2	10.1	9.9	161.95	85.5	-55.7	272.9	253.6	19.25	14.177	
2,900.0	2,882.8	2,864.7	2,855.1	10.5	10.3	161.81	94.4	-61.5	299.3	279.3	19.96	14.994	
3,000.0	2,981.1	2,961.1	2,950.9	10.9	10.6	161.69	103.2	-67.4	325.7	305.0	20.67	15.754	
3,100.0	3,079.4	3,057.6	3,046.8	11.4	11.0	161.59	112.1	-73.3	352.1	330.7	21.39	16.462	
3,200.0	3,177.6	3,154.0	3,142.7	11.8	11.4	161.51	121.0	-79.2	378.5	356.4	22.11	17.122	
3,300.0	3,275.9	3,250.5	3,238.5	12.2	11.8	161.44	129.8	-85.1	404.9	382.1	22.83	17.739	
3,400.0	3,374.2	3,346.9	3,334.4	12.7	12.1	161.37	138.7	-90.9	431.3	407.8	23.55	18.318	
3,500.0	3,472.4	3,443.3	3,430.2	13.1	12.5	161.31	147.6	-96.8	457.8	433.5	24.27	18.861	
3,600.0	3,570.7	3,539.8	3,526.1	13.6	12.9	161.26	156.4	-102.7	484.2	459.2	24.99	19.372	
3,700.0	3,669.0	3,636.2	3,622.0	14.0	13.3	161.22	165.3	-108.6	510.6	484.9	25.72	19.853	
3,800.0	3,767.2	3,732.7	3,717.8	14.5	13.6	161.18	174.2	-114.4	537.0	510.6	26.44	20.307	
3,900.0	3,865.5	3,829.1	3,813.7	14.9	14.0	161.14	183.0	-120.3	563.4	536.2	27.17	20.736	
4,000.0	3,963.7	3,925.6	3,909.5	15.4	14.4	161.11	191.9	-126.2	589.8	561.9	27.90	21.142	
4,100.0	4,062.0	4,022.0	4,005.4	15.8	14.8	161.07	200.7	-132.1	616.2	587.6	28.63	21.526	
4,200.0	4,160.3	4,118.5	4,101.3	16.3	15.1	161.05	209.6	-137.9	642.6	613.3	29.36	21.891	
4,300.0	4,258.5	4,214.9	4,197.1	16.7	15.5	161.02	218.5	-143.8	669.1	639.0	30.09	22.238	
4,400.0	4,356.8	4,311.4	4,293.0	17.2	15.9	160.99	227.3	-149.7	695.5	664.7	30.82	22.567	
4,500.0	4,455.1	4,407.8	4,388.8	17.6	16.3	160.97	236.2	-155.6	721.9	690.3	31.55	22.881	
4,600.0	4,553.3	4,504.3	4,484.7	18.1	16.6	160.95	245.1	-161.4	748.3	716.0	32.28	23.180	
4,700.0	4,651.6	4,600.7	4,580.6	18.5	17.0	160.93	253.9	-167.3	774.7	741.7	33.01	23.466	
4,800.0	4,749.8	4,697.2	4,676.4	19.0	17.4	160.91	262.8	-173.2	801.1	767.4	33.75	23.739	
4,900.0	4,848.1	4,793.6	4,772.3	19.5	17.8	160.90	271.7	-179.1	827.5	793.1	34.48	24.000	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	4,909.9	4,868.1	19.9	18.2	160.88	280.5	-184.9	854.0	818.7	35.29	24.198	
5,100.0	5,044.6	4,986.5	4,964.0	20.4	18.5	160.87	289.4	-190.8	880.4	844.4	35.95	24.489	
5,200.0	5,142.9	5,083.0	5,059.9	20.8	18.9	160.85	298.3	-196.7	906.8	870.1	36.69	24.718	
5,300.0	5,241.2	5,179.4	5,155.7	21.3	19.3	160.84	307.1	-202.6	933.2	895.8	37.42	24.938	
5,400.0	5,339.4	5,275.9	5,251.6	21.8	19.7	160.83	316.0	-208.5	959.6	921.5	38.16	25.149	
5,500.0	5,437.7	5,372.3	5,347.4	22.2	20.1	160.81	324.8	-214.3	986.0	947.1	38.89	25.352	
5,600.0	5,536.0	5,468.8	5,443.3	22.7	20.4	160.80	333.7	-220.2	1,012.4	972.8	39.63	25.548	
5,700.0	5,634.2	5,565.2	5,539.2	23.1	20.8	160.79	342.6	-226.1	1,038.9	998.5	40.37	25.735	
5,800.0	5,732.5	5,661.7	5,635.0	23.6	21.2	160.78	351.4	-232.0	1,065.3	1,024.2	41.10	25.916	
5,900.0	5,830.7	5,758.1	5,730.9	24.1	21.6	160.77	360.3	-237.8	1,091.7	1,049.8	41.84	26.091	
6,000.0	5,929.0	5,854.6	5,826.7	24.5	21.9	160.76	369.2	-243.7	1,118.1	1,075.5	42.58	26.259	
6,100.0	6,027.3	5,951.0	5,922.6	25.0	22.3	160.75	378.0	-249.6	1,144.5	1,101.2	43.32	26.421	
6,200.0	6,125.5	6,047.5	6,018.5	25.4	22.7	160.75	386.9	-255.5	1,170.9	1,126.9	44.06	26.578	
6,300.0	6,223.8	6,143.9	6,114.3	25.9	23.1	160.74	395.8	-261.3	1,197.3	1,152.5	44.79	26.729	
6,400.0	6,322.1	6,240.3	6,210.2	26.4	23.5	160.73	404.6	-267.2	1,223.8	1,178.2	45.53	26.876	
6,500.0	6,420.3	6,336.8	6,306.0	26.8	23.8	160.72	413.5	-273.1	1,250.2	1,203.9	46.27	27.017	
6,600.0	6,518.6	6,433.2	6,401.9	27.3	24.2	160.71	422.4	-279.0	1,276.6	1,229.6	47.01	27.154	
6,700.0	6,616.8	6,529.7	6,497.8	27.8	24.6	160.71	431.2	-284.8	1,303.0	1,255.2	47.75	27.287	
6,800.0	6,715.1	6,626.1	6,593.6	28.2	25.0	160.70	440.1	-290.7	1,329.4	1,280.9	48.49	27.415	
6,900.0	6,813.4	6,722.6	6,689.5	28.7	25.4	160.70	448.9	-296.6	1,355.8	1,306.6	49.23	27.539	
7,000.0	6,911.6	6,819.0	6,785.3	29.2	25.8	160.69	457.8	-302.5	1,382.2	1,332.3	49.97	27.660	
7,100.0	7,009.9	6,915.5	6,881.2	29.6	26.1	160.68	466.7	-308.4	1,408.7	1,357.9	50.71	27.777	
7,200.0	7,108.2	7,011.9	6,977.1	30.1	26.5	160.68	475.5	-314.2	1,435.1	1,383.6	51.45	27.890	
7,300.0	7,206.4	7,108.4	7,072.9	30.6	26.9	160.67	484.4	-320.1	1,461.5	1,409.3	52.19	28.000	
7,400.0	7,304.7	7,204.8	7,168.8	31.0	27.3	160.67	493.3	-326.0	1,487.9	1,435.0	52.94	28.107	
7,500.0	7,403.0	7,301.3	7,264.6	31.5	27.7	160.66	502.1	-331.9	1,514.3	1,460.6	53.68	28.211	
7,600.0	7,501.2	7,402.3	7,360.5	31.9	28.1	160.66	511.0	-337.7	1,540.7	1,486.3	54.44	28.303	
7,700.0	7,599.5	7,505.8	7,456.4	32.4	28.5	160.65	519.9	-343.6	1,567.1	1,511.9	55.20	28.388	
7,800.0	7,697.7	7,609.4	7,552.2	32.9	28.9	160.65	528.7	-349.5	1,593.6	1,537.6	55.97	28.470	
7,833.5	7,730.7	7,623.0	7,584.4	33.0	28.9	160.65	531.7	-351.5	1,602.4	1,546.3	56.15	28.537	
7,900.0	7,796.1	7,687.2	7,648.2	33.3	29.2	160.72	537.6	-355.4	1,619.4	1,562.8	56.64	28.590	
8,000.0	7,894.9	7,784.4	7,744.8	33.8	29.6	160.80	546.5	-361.3	1,643.1	1,585.7	57.38	28.633	
8,100.0	7,994.0	7,882.1	7,841.9	34.2	29.9	160.84	555.5	-367.2	1,664.3	1,606.2	58.12	28.636	
8,200.0	8,093.5	7,980.2	7,939.5	34.6	30.3	160.84	564.5	-373.2	1,683.1	1,624.2	58.85	28.599	
8,300.0	8,193.2	8,078.8	8,037.4	34.9	30.7	160.79	573.6	-379.2	1,699.5	1,639.9	59.58	28.524	
8,400.0	8,293.1	8,177.7	8,135.8	35.3	31.1	160.71	582.7	-385.3	1,713.4	1,653.1	60.31	28.412	
8,500.0	8,393.0	8,276.9	8,234.3	35.6	31.5	160.59	591.8	-391.3	1,724.9	1,663.9	61.02	28.266	
8,546.5	8,439.5	8,323.1	8,280.2	35.8	31.7	0.53	596.0	-394.1	1,729.4	1,668.1	61.35	28.189	
8,600.0	8,493.0	8,378.3	8,335.1	35.9	31.9	0.42	601.1	-397.5	1,734.3	1,672.6	61.73	28.093	
8,700.0	8,593.0	8,538.6	8,494.8	36.2	32.5	0.16	612.9	-405.3	1,741.6	1,678.8	62.84	27.715	
8,800.0	8,693.0	8,699.8	8,655.8	36.4	33.1	0.02	619.0	-409.4	1,745.5	1,681.6	63.86	27.332	
8,900.0	8,793.0	8,840.5	8,796.5	36.7	33.6	0.06	620.0	-408.2	1,746.0	1,681.3	64.69	26.989	
9,000.0	8,893.0	8,948.1	8,902.2	37.0	33.8	0.67	619.4	-389.7	1,745.6	1,680.3	65.30	26.730	
9,100.0	8,993.0	9,045.7	8,993.7	37.3	34.0	1.77	618.3	-356.1	1,745.1	1,679.3	65.83	26.511	
9,109.3	9,002.4	9,054.1	9,001.4	37.3	34.1	1.89	618.1	-352.5	1,745.1	1,679.3	65.87	26.492	
9,200.0	9,093.0	9,130.0	9,067.2	37.6	34.2	3.12	616.9	-314.9	1,745.7	1,679.4	66.27	26.342	
9,300.0	9,193.0	9,200.6	9,123.5	37.8	34.3	4.52	615.5	-272.5	1,748.3	1,681.7	66.63	26.237	
9,400.0	9,293.0	9,258.9	9,165.9	38.1	34.3	5.83	614.2	-232.3	1,753.8	1,686.9	66.90	26.216	
9,446.5	9,339.5	9,282.5	9,181.7	38.3	34.3	6.40	613.6	-215.0	1,757.6	1,690.6	66.98	26.240	
9,450.0	9,343.0	9,284.2	9,182.8	38.3	34.3	-83.28	613.6	-213.7	1,757.9	1,690.9	66.99	26.242	
9,500.0	9,393.0	9,308.4	9,198.4	38.4	34.3	-82.23	612.9	-195.2	1,762.6	1,695.5	67.05	26.289	
9,550.0	9,442.5	9,332.7	9,213.1	38.5	34.3	-81.18	612.3	-175.9	1,767.6	1,700.5	67.08	26.352	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,600.0	9,491.2	9,357.0	9,227.1	38.7	34.4	-80.13	611.7	-156.0	1,772.9	1,705.8	67.08	26.428	
9,650.0	9,538.8	9,381.4	9,240.2	38.8	34.4	-79.09	611.0	-135.4	1,778.3	1,711.2	67.07	26.515	
9,700.0	9,584.8	9,400.0	9,249.7	38.8	34.4	-78.19	610.4	-119.4	1,783.7	1,716.7	67.00	26.624	
9,750.0	9,629.0	9,430.2	9,263.9	38.9	34.4	-77.12	609.6	-92.7	1,789.1	1,722.1	66.99	26.708	
9,800.0	9,671.0	9,450.0	9,272.4	39.0	34.4	-76.27	609.0	-74.9	1,794.3	1,727.4	66.90	26.821	
9,850.0	9,710.5	9,479.2	9,283.8	39.0	34.4	-75.34	608.1	-48.0	1,799.3	1,732.4	66.88	26.902	
9,900.0	9,747.1	9,500.0	9,291.1	39.1	34.4	-74.59	607.5	-28.6	1,803.9	1,737.1	66.81	27.000	
9,950.0	9,780.7	9,528.3	9,299.9	39.1	34.4	-73.81	606.6	-1.7	1,808.2	1,741.3	66.82	27.061	
10,000.0	9,810.9	9,550.0	9,305.7	39.1	34.4	-73.19	605.9	19.2	1,811.9	1,745.1	66.80	27.124	
10,050.0	9,837.5	9,577.4	9,311.9	39.1	34.5	-72.60	605.0	45.9	1,815.2	1,748.3	66.87	27.146	
10,100.0	9,860.3	9,600.0	9,316.1	39.1	34.5	-72.14	604.3	68.1	1,817.9	1,750.9	66.94	27.156	
10,106.5	9,862.9	9,600.0	9,316.1	39.1	34.5	-72.11	604.3	68.1	1,818.2	1,751.3	66.94	27.163	
10,200.0	9,899.6	9,650.0	9,322.2	39.1	34.8	-71.57	602.6	117.7	1,823.3	1,756.1	67.24	27.117	
10,300.0	9,935.6	9,717.2	9,324.9	39.1	35.3	-70.77	600.4	184.7	1,830.3	1,762.6	67.77	27.009	
10,400.0	9,968.4	9,811.0	9,327.9	39.1	36.0	-69.78	597.4	278.4	1,837.2	1,768.5	68.68	26.749	
10,500.0	9,997.8	9,905.8	9,330.9	39.2	36.9	-68.89	594.4	373.2	1,843.3	1,773.5	69.86	26.386	
10,600.0	10,023.9	10,001.4	9,333.9	39.6	37.9	-68.12	591.5	468.7	1,848.6	1,777.3	71.31	25.923	
10,700.0	10,046.6	10,097.8	9,336.9	40.4	39.0	-67.45	588.7	565.0	1,852.9	1,779.9	73.02	25.376	
10,800.0	10,065.9	10,194.8	9,340.0	41.5	40.3	-66.91	585.9	661.9	1,856.1	1,781.1	74.96	24.760	
10,900.0	10,081.8	10,292.3	9,343.0	42.7	41.6	-66.48	583.3	759.4	1,858.1	1,781.0	77.14	24.087	
11,000.0	10,094.2	10,390.2	9,346.1	44.0	43.1	-66.16	580.6	857.2	1,858.9	1,779.3	79.54	23.371	
11,100.0	10,103.2	10,488.4	9,349.2	45.4	44.6	-65.97	578.1	955.2	1,858.3	1,776.2	82.14	22.624	
11,200.0	10,108.6	10,586.7	9,352.2	46.9	46.2	-65.90	575.7	1,053.5	1,856.4	1,771.5	84.94	21.856	
11,293.4	10,110.6	10,678.5	9,355.1	48.3	47.8	-65.95	573.5	1,145.2	1,853.5	1,765.8	87.72	21.129	
11,300.0	10,110.6	10,685.0	9,355.3	48.4	47.9	-65.95	573.3	1,151.7	1,853.2	1,765.3	87.92	21.078	
11,400.0	10,111.1	10,783.3	9,358.4	50.0	49.6	-65.99	571.1	1,249.9	1,849.5	1,758.4	91.05	20.312	
11,500.0	10,111.5	10,881.6	9,361.4	51.7	51.4	-66.03	568.9	1,348.2	1,845.8	1,751.5	94.30	19.574	
11,600.0	10,112.0	10,979.9	9,364.5	53.5	53.3	-66.07	566.9	1,446.4	1,842.2	1,744.6	97.64	18.866	
11,700.0	10,112.4	11,078.3	9,367.5	55.3	55.1	-66.11	564.9	1,544.7	1,838.7	1,737.6	101.09	18.190	
11,800.0	10,112.9	11,176.6	9,370.6	57.1	57.1	-66.15	563.0	1,642.9	1,835.3	1,730.7	104.61	17.544	
11,900.0	10,113.3	11,274.9	9,373.6	59.0	59.0	-66.20	561.2	1,741.2	1,832.0	1,723.8	108.21	16.930	
12,000.0	10,113.8	11,373.3	9,376.7	60.9	61.0	-66.24	559.5	1,839.5	1,828.7	1,716.9	111.88	16.345	
12,100.0	10,114.3	11,471.6	9,379.7	62.9	63.0	-66.29	557.9	1,937.8	1,825.6	1,710.0	115.62	15.790	
12,200.0	10,114.7	11,570.0	9,382.7	64.9	65.1	-66.33	556.4	2,036.1	1,822.5	1,703.1	119.41	15.263	
12,300.0	10,115.2	11,668.3	9,385.7	66.9	67.1	-66.38	555.0	2,134.4	1,819.6	1,696.3	123.25	14.763	
12,400.0	10,115.6	11,766.7	9,388.8	68.9	69.2	-66.43	553.6	2,232.7	1,816.7	1,689.6	127.15	14.288	
12,500.0	10,116.1	11,865.0	9,391.8	71.0	71.3	-66.48	552.4	2,331.0	1,813.9	1,682.8	131.09	13.837	
12,600.0	10,116.5	11,963.4	9,394.8	73.1	73.5	-66.53	551.3	2,429.3	1,811.2	1,676.1	135.07	13.410	
12,700.0	10,117.0	12,061.7	9,397.8	75.2	75.6	-66.59	550.2	2,527.6	1,808.6	1,669.5	139.09	13.003	
12,800.0	10,117.4	12,160.1	9,400.8	77.4	77.8	-66.64	549.2	2,625.9	1,806.1	1,662.9	143.14	12.617	
12,900.0	10,117.9	12,258.5	9,403.8	79.5	80.0	-66.70	548.4	2,724.2	1,803.7	1,656.4	147.23	12.251	
13,000.0	10,118.4	12,356.9	9,406.8	81.7	82.2	-66.75	547.6	2,822.6	1,801.3	1,650.0	151.35	11.902	
13,100.0	10,118.8	12,455.2	9,409.8	83.9	84.4	-66.81	546.9	2,920.9	1,799.1	1,643.6	155.50	11.570	
13,200.0	10,119.3	12,553.6	9,412.8	86.1	86.6	-66.87	546.3	3,019.2	1,796.9	1,637.2	159.67	11.254	
13,300.0	10,119.7	12,652.0	9,415.8	88.3	88.8	-66.93	545.8	3,117.6	1,794.8	1,631.0	163.87	10.953	
13,400.0	10,120.2	12,750.4	9,418.8	90.5	91.0	-66.99	545.4	3,215.9	1,792.8	1,624.7	168.09	10.666	
13,500.0	10,120.6	12,848.8	9,421.8	92.8	93.3	-67.06	545.1	3,314.2	1,790.9	1,618.6	172.34	10.392	
13,600.0	10,121.1	12,947.2	9,424.7	95.0	95.5	-67.12	544.8	3,412.6	1,789.1	1,612.5	176.61	10.131	
13,700.0	10,121.6	13,045.6	9,427.7	97.3	97.8	-67.19	544.7	3,510.9	1,787.4	1,606.5	180.89	9.881	
13,800.0	10,122.0	13,144.0	9,430.7	99.5	100.1	-67.25	544.7	3,609.3	1,785.8	1,600.6	185.20	9.643	
13,900.0	10,122.5	13,242.3	9,433.6	101.8	102.3	-67.32	544.7	3,707.6	1,784.3	1,594.8	189.52	9.415	
14,000.0	10,122.9	13,340.7	9,436.6	104.1	104.6	-67.39	544.9	3,806.0	1,782.8	1,589.0	193.87	9.196	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.0	10,123.4	13,439.1	9,439.6	106.4	106.9	-67.46	545.1	3,904.3	1,781.5	1,583.3	198.22	8.987	
14,200.0	10,123.8	13,537.5	9,442.5	108.7	109.2	-67.53	545.4	4,002.7	1,780.2	1,577.6	202.60	8.787	
14,300.0	10,124.3	13,635.9	9,445.5	111.0	111.5	-67.60	545.9	4,101.0	1,779.1	1,572.1	206.99	8.595	
14,400.0	10,124.8	13,734.3	9,448.4	113.3	113.8	-67.67	546.4	4,199.4	1,778.0	1,566.6	211.39	8.411	
14,500.0	10,125.2	13,832.7	9,451.3	115.6	116.1	-67.75	547.0	4,297.7	1,777.0	1,561.2	215.81	8.234	
14,600.0	10,125.7	13,932.3	9,454.3	117.9	118.4	-67.82	547.6	4,397.2	1,776.1	1,555.8	220.27	8.063	
14,700.0	10,126.1	14,032.3	9,457.3	120.2	120.8	-67.90	548.3	4,497.2	1,775.2	1,550.4	224.75	7.898	
14,800.0	10,126.6	14,132.2	9,460.3	122.6	123.2	-67.97	549.0	4,597.1	1,774.2	1,545.0	229.25	7.739	
14,900.0	10,127.0	14,232.2	9,463.2	124.9	125.5	-68.05	549.7	4,697.0	1,773.3	1,539.6	233.76	7.586	
15,000.0	10,127.5	14,332.2	9,466.2	127.2	127.9	-68.13	550.4	4,796.9	1,772.4	1,534.2	238.27	7.439	
15,100.0	10,127.9	14,432.1	9,469.2	129.6	130.2	-68.20	551.1	4,896.9	1,771.5	1,528.7	242.80	7.296	
15,200.0	10,128.4	14,532.1	9,472.2	131.9	132.6	-68.28	551.8	4,996.8	1,770.6	1,523.3	247.34	7.159	
15,300.0	10,128.9	14,632.1	9,475.2	134.3	135.0	-68.35	552.4	5,096.7	1,769.7	1,517.9	251.89	7.026	
15,400.0	10,129.3	14,732.0	9,478.2	136.6	137.4	-68.43	553.1	5,196.6	1,768.9	1,512.4	256.44	6.898	
15,500.0	10,129.8	14,832.0	9,481.1	139.0	139.7	-68.51	553.8	5,296.5	1,768.0	1,507.0	261.01	6.774	
15,600.0	10,130.2	14,932.0	9,484.1	141.3	142.1	-68.58	554.5	5,396.5	1,767.1	1,501.5	265.59	6.654	
15,700.0	10,130.7	15,031.9	9,487.1	143.7	144.5	-68.66	555.2	5,496.4	1,766.2	1,496.0	270.17	6.537	
15,800.0	10,131.1	15,131.9	9,490.1	146.1	146.9	-68.74	555.9	5,596.3	1,765.3	1,490.6	274.76	6.425	
15,900.0	10,131.6	15,231.9	9,493.1	148.4	149.3	-68.82	556.6	5,696.2	1,764.4	1,485.1	279.36	6.316	
16,000.0	10,132.1	15,331.8	9,496.1	150.8	151.6	-68.89	557.2	5,796.1	1,763.6	1,479.6	283.97	6.210	
16,100.0	10,132.5	15,431.8	9,499.0	153.2	154.0	-68.97	557.9	5,896.1	1,762.7	1,474.1	288.59	6.108	
16,200.0	10,133.0	15,531.8	9,502.0	155.5	156.4	-69.05	558.6	5,996.0	1,761.8	1,468.6	293.21	6.009	
16,300.0	10,133.4	15,631.7	9,505.0	157.9	158.8	-69.12	559.3	6,095.9	1,761.0	1,463.1	297.84	5.912	
16,400.0	10,133.9	15,731.7	9,508.0	160.3	161.2	-69.20	560.0	6,195.8	1,760.1	1,457.6	302.48	5.819	
16,500.0	10,134.3	15,831.7	9,511.0	162.7	163.6	-69.28	560.7	6,295.8	1,759.3	1,452.1	307.13	5.728	
16,600.0	10,134.8	15,931.6	9,513.9	165.1	166.0	-69.36	561.3	6,395.7	1,758.4	1,446.6	311.78	5.640	
16,700.0	10,135.3	16,031.6	9,516.9	167.4	168.4	-69.43	562.0	6,495.6	1,757.6	1,441.1	316.44	5.554	
16,800.0	10,135.7	16,131.6	9,519.9	169.8	170.8	-69.51	562.7	6,595.5	1,756.7	1,435.6	321.11	5.471	
16,900.0	10,136.2	16,231.6	9,522.9	172.2	173.2	-69.59	563.4	6,695.4	1,755.9	1,430.1	325.78	5.390	
17,000.0	10,136.6	16,331.5	9,525.9	174.6	175.6	-69.67	564.1	6,795.4	1,755.0	1,424.6	330.46	5.311	
17,100.0	10,137.1	16,431.5	9,528.9	177.0	178.0	-69.74	564.8	6,895.3	1,754.2	1,419.0	335.14	5.234	
17,200.0	10,137.5	16,531.5	9,531.8	179.4	180.4	-69.82	565.5	6,995.2	1,753.4	1,413.5	339.83	5.159	
17,300.0	10,138.0	16,631.4	9,534.8	181.8	182.9	-69.90	566.1	7,095.1	1,752.5	1,408.0	344.53	5.087	
17,400.0	10,138.4	16,731.4	9,537.8	184.2	185.3	-69.98	566.8	7,195.0	1,751.7	1,402.5	349.23	5.016	
17,411.2	10,138.5	16,737.8	9,538.0	184.4	185.4	-69.98	566.9	7,201.5	1,751.6	1,402.0	349.64	5.010	
17,411.8	10,138.5	16,737.8	9,538.0	184.5	185.4	-69.98	566.9	7,201.5	1,751.6	1,402.0	349.65	5.010	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	179.85	-80.2	0.2	80.2				
100.0	100.0	99.0	99.0	0.1	0.1	179.24	-80.2	1.1	80.2	80.0	0.26	314.158	
200.0	200.0	198.9	198.9	0.5	0.5	177.39	-80.2	3.7	80.3	79.3	0.97	82.619	
300.0	300.0	301.3	298.6	0.8	0.9	174.31	-80.2	8.0	80.6	78.9	1.70	47.330	
400.0	400.0	401.4	398.3	1.2	1.2	170.64	-80.2	13.2	81.3	78.9	2.43	33.476	
500.0	500.0	501.6	498.0	1.6	1.6	167.05	-80.2	18.4	82.3	79.2	3.15	26.101	
600.0	600.0	601.7	597.8	1.9	2.0	163.56	-80.2	23.7	83.7	79.8	3.88	21.568	
700.0	700.0	701.8	697.5	2.3	2.3	160.19	-80.2	28.9	85.3	80.7	4.60	18.530	
800.0	800.0	802.0	797.2	2.6	2.7	156.96	-80.2	34.1	87.2	81.9	5.33	16.374	
900.0	900.0	902.1	896.9	3.0	3.1	153.87	-80.2	39.4	89.4	83.3	6.05	14.779	
1,000.0	1,000.0	997.8	996.7	3.4	3.4	150.94	-80.2	44.6	91.8	85.1	6.75	13.595	
1,100.0	1,100.0	1,097.4	1,096.2	3.7	3.8	149.18	-81.2	48.5	94.6	87.1	7.47	12.669	
1,200.0	1,200.0	1,197.0	1,195.8	4.1	4.1	149.54	-84.2	49.5	97.7	89.6	8.17	11.970	
1,300.0	1,300.0	1,296.5	1,295.1	4.4	4.5	-48.52	-89.2	47.8	100.7	91.9	8.83	11.400	
1,400.0	1,400.0	1,395.8	1,394.1	4.7	4.8	-45.51	-96.2	43.3	103.2	93.7	9.48	10.877	
1,500.0	1,499.9	1,504.5	1,493.3	5.1	5.1	-42.17	-104.5	37.0	105.1	94.9	10.17	10.330	
1,600.0	1,599.7	1,604.6	1,592.6	5.4	5.5	-39.54	-112.8	30.8	106.0	95.2	10.85	9.774	
1,700.0	1,699.4	1,704.7	1,692.0	5.8	5.8	-37.54	-121.1	24.5	105.8	94.2	11.53	9.175	
1,800.0	1,798.9	1,804.7	1,791.4	6.1	6.2	-36.09	-129.4	18.2	104.2	92.0	12.22	8.531	
1,900.0	1,898.3	1,904.8	1,890.8	6.5	6.5	-35.17	-137.7	11.9	101.3	88.4	12.92	7.846	
2,000.0	1,997.4	2,004.9	1,990.1	6.8	6.9	-34.78	-146.0	5.7	97.0	83.4	13.62	7.122	
2,100.0	2,096.3	2,095.0	2,089.4	7.2	7.2	-34.98	-154.3	-0.6	91.3	77.0	14.30	6.383	
2,200.0	2,194.9	2,205.3	2,188.6	7.6	7.6	-35.89	-162.6	-6.9	84.1	69.1	15.07	5.585	
2,269.4	2,263.2	2,263.9	2,257.4	7.9	7.8	-37.07	-168.3	-11.2	78.4	62.8	15.54	5.044	
2,300.0	2,293.3	2,305.7	2,287.7	8.0	8.0	-37.72	-170.9	-13.1	75.7	59.9	15.81	4.789	
2,400.0	2,391.5	2,406.1	2,386.7	8.4	8.4	-40.19	-179.1	-19.4	67.0	50.5	16.56	4.046	
2,500.0	2,489.8	2,506.5	2,485.8	8.8	8.8	-43.38	-187.4	-25.6	58.5	41.2	17.34	3.374	
2,600.0	2,588.1	2,607.0	2,584.8	9.2	9.1	-47.65	-195.7	-31.9	50.2	32.1	18.14	2.770	
2,700.0	2,686.3	2,707.4	2,683.8	9.6	9.5	-53.54	-203.9	-38.1	42.3	23.4	18.96	2.233	
2,800.0	2,784.6	2,807.8	2,782.9	10.1	9.9	-61.99	-212.2	-44.4	35.1	15.3	19.83	1.770	
2,900.0	2,882.8	2,908.2	2,881.9	10.5	10.3	-74.35	-220.5	-50.6	29.0	8.2	20.73	1.398	Level 3
3,000.0	2,981.1	3,008.7	2,980.9	10.9	10.7	-91.93	-228.7	-56.9	24.9	3.3	21.59	1.151	Level 2
3,081.4	3,061.1	3,072.4	3,061.6	11.3	10.9	-109.40	-235.5	-62.0	23.7	1.6	22.06	1.074	Level 2, CC
3,100.0	3,079.4	3,109.1	3,080.0	11.4	11.1	-113.51	-237.0	-63.1	23.8	1.5	22.23	1.069	Level 2, ES, SF
3,200.0	3,177.6	3,209.5	3,179.0	11.8	11.5	-134.03	-245.3	-69.4	26.1	3.4	22.68	1.150	Level 2
3,300.0	3,275.9	3,309.9	3,278.0	12.2	11.8	-149.60	-253.6	-75.6	31.1	7.9	23.16	1.342	Level 3
3,400.0	3,374.2	3,389.7	3,377.1	12.7	12.2	-160.33	-261.8	-81.9	37.7	14.0	23.67	1.592	
3,500.0	3,472.4	3,489.2	3,476.1	13.1	12.5	-167.69	-270.1	-88.1	45.2	20.9	24.33	1.858	
3,600.0	3,570.7	3,588.8	3,575.2	13.6	12.9	-172.89	-278.4	-94.4	53.3	28.2	25.03	2.128	
3,700.0	3,669.0	3,688.4	3,674.2	14.0	13.3	-176.71	-286.6	-100.6	61.6	35.9	25.76	2.393	
3,800.0	3,767.2	3,788.0	3,773.2	14.5	13.7	-179.61	-294.9	-106.9	70.2	43.7	26.49	2.651	
3,900.0	3,865.5	3,887.5	3,872.3	14.9	14.1	178.13	-303.2	-113.1	78.9	51.7	27.23	2.899	
4,000.0	3,963.7	3,987.1	3,971.3	15.4	14.5	176.32	-311.4	-119.4	87.8	59.8	27.98	3.137	
4,100.0	4,062.0	4,086.7	4,070.3	15.8	14.9	174.85	-319.7	-125.6	96.7	67.9	28.73	3.364	
4,200.0	4,160.3	4,186.3	4,169.4	16.3	15.3	173.62	-328.0	-131.9	105.6	76.1	29.48	3.582	
4,300.0	4,258.5	4,285.8	4,268.4	16.7	15.7	172.58	-336.3	-138.1	114.6	84.3	30.23	3.790	
4,400.0	4,356.8	4,385.4	4,367.4	17.2	16.0	171.70	-344.5	-144.4	123.6	92.6	30.99	3.989	
4,500.0	4,455.1	4,485.0	4,466.5	17.6	16.4	170.93	-352.8	-150.6	132.6	100.9	31.74	4.179	
4,600.0	4,553.3	4,584.6	4,565.5	18.1	16.8	170.26	-361.1	-156.9	141.7	109.2	32.50	4.360	
4,700.0	4,651.6	4,684.1	4,664.5	18.5	17.2	169.68	-369.3	-163.1	150.8	117.5	33.25	4.534	
4,800.0	4,749.8	4,783.7	4,763.6	19.0	17.6	169.16	-377.6	-169.4	159.9	125.9	34.01	4.701	
4,900.0	4,848.1	4,883.3	4,862.6	19.5	18.0	168.69	-385.9	-175.6	169.0	134.2	34.77	4.860	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	4,982.9	4,961.6	19.9	18.4	168.28	-394.1	-181.9	178.1	142.6	35.52	5.013	
5,100.0	5,044.6	5,082.4	5,060.7	20.4	18.8	167.90	-402.4	-188.1	187.2	150.9	36.28	5.160	
5,200.0	5,142.9	5,182.0	5,159.7	20.8	19.2	167.56	-410.7	-194.4	196.3	159.3	37.04	5.301	
5,300.0	5,241.2	5,281.6	5,258.7	21.3	19.6	167.25	-419.0	-200.6	205.5	167.7	37.80	5.436	
5,400.0	5,339.4	5,381.2	5,357.8	21.8	20.0	166.96	-427.2	-206.9	214.6	176.1	38.55	5.567	
5,500.0	5,437.7	5,480.7	5,456.8	22.2	20.3	166.70	-435.5	-213.1	223.8	184.4	39.31	5.692	
5,600.0	5,536.0	5,580.3	5,555.9	22.7	20.7	166.46	-443.8	-219.4	232.9	192.8	40.07	5.812	
5,700.0	5,634.2	5,679.9	5,654.9	23.1	21.1	166.24	-452.0	-225.6	242.1	201.2	40.83	5.928	
5,800.0	5,732.5	5,779.5	5,753.9	23.6	21.5	166.03	-460.3	-231.9	251.2	209.6	41.59	6.040	
5,900.0	5,830.7	5,879.1	5,853.0	24.1	21.9	165.84	-468.6	-238.1	260.4	218.0	42.35	6.148	
6,000.0	5,929.0	5,978.6	5,952.0	24.5	22.3	165.66	-476.8	-244.4	269.5	226.4	43.11	6.253	
6,100.0	6,027.3	6,078.2	6,051.0	25.0	22.7	165.50	-485.1	-250.6	278.7	234.8	43.87	6.353	
6,200.0	6,125.5	6,177.8	6,150.1	25.4	23.1	165.34	-493.4	-256.9	287.9	243.2	44.63	6.450	
6,300.0	6,223.8	6,277.4	6,249.1	25.9	23.5	165.19	-501.7	-263.1	297.0	251.7	45.39	6.544	
6,400.0	6,322.1	6,376.9	6,348.1	26.4	23.9	165.05	-509.9	-269.4	306.2	260.1	46.15	6.635	
6,500.0	6,420.3	6,476.5	6,447.2	26.8	24.3	164.92	-518.2	-275.6	315.4	268.5	46.91	6.723	
6,600.0	6,518.6	6,576.1	6,546.2	27.3	24.7	164.80	-526.5	-281.9	324.6	276.9	47.67	6.808	
6,700.0	6,616.8	6,675.7	6,645.2	27.8	25.1	164.69	-534.7	-288.1	333.7	285.3	48.43	6.891	
6,800.0	6,715.1	6,775.2	6,744.3	28.2	25.5	164.58	-543.0	-294.4	342.9	293.7	49.19	6.971	
6,900.0	6,813.4	6,874.8	6,843.3	28.7	25.9	164.47	-551.3	-300.6	352.1	302.1	49.95	7.048	
7,000.0	6,911.6	6,974.4	6,942.3	29.2	26.2	164.37	-559.5	-306.9	361.3	310.6	50.72	7.124	
7,100.0	7,009.9	7,074.0	7,041.4	29.6	26.6	164.28	-567.8	-313.1	370.5	319.0	51.48	7.197	
7,200.0	7,108.2	7,173.5	7,140.4	30.1	27.0	164.19	-576.1	-319.4	379.6	327.4	52.24	7.267	
7,300.0	7,206.4	7,273.1	7,239.4	30.6	27.4	164.11	-584.4	-325.6	388.8	335.8	53.00	7.336	
7,400.0	7,304.7	7,372.7	7,338.5	31.0	27.8	164.02	-592.6	-331.9	398.0	344.2	53.76	7.403	
7,500.0	7,403.0	7,472.3	7,437.5	31.5	28.2	163.95	-600.9	-338.1	407.2	352.7	54.52	7.468	
7,600.0	7,501.2	7,571.8	7,536.5	31.9	28.6	163.87	-609.2	-344.4	416.4	361.1	55.29	7.531	
7,700.0	7,599.5	7,671.4	7,635.6	32.4	29.0	163.80	-617.4	-350.6	425.6	369.5	56.05	7.593	
7,800.0	7,697.7	7,771.0	7,734.6	32.9	29.4	163.74	-625.7	-356.9	434.7	377.9	56.81	7.652	
7,833.5	7,730.7	7,804.4	7,767.8	33.0	29.5	163.71	-628.5	-359.0	437.8	380.8	57.07	7.672	
7,900.0	7,796.1	7,870.6	7,833.7	33.3	29.8	163.67	-634.0	-363.1	443.4	385.8	57.57	7.701	
8,000.0	7,894.9	7,970.4	7,932.9	33.8	30.2	163.53	-642.3	-369.4	449.6	391.3	58.34	7.708	
8,100.0	7,994.0	8,070.3	8,032.3	34.2	30.6	163.28	-650.6	-375.7	453.4	394.3	59.10	7.672	
8,200.0	8,093.5	8,170.3	8,131.7	34.6	31.0	162.93	-658.9	-381.9	454.7	394.8	59.87	7.595	
8,300.0	8,193.2	8,270.2	8,231.1	34.9	31.4	162.48	-667.2	-388.2	453.5	392.9	60.64	7.479	
8,400.0	8,293.1	8,370.0	8,330.4	35.3	31.8	161.90	-675.5	-394.5	449.8	388.4	61.40	7.326	
8,500.0	8,393.0	8,469.7	8,429.5	35.6	32.2	161.20	-683.7	-400.7	443.7	381.6	62.17	7.137	
8,546.5	8,439.5	8,510.7	8,470.3	35.8	32.3	0.90	-686.9	-403.1	440.4	377.9	62.49	7.047	
8,600.0	8,493.0	8,558.2	8,517.7	35.9	32.5	0.60	-690.0	-405.4	436.9	374.0	62.83	6.953	
8,700.0	8,593.0	8,647.2	8,606.5	36.2	32.8	0.20	-694.0	-408.5	432.3	368.8	63.42	6.816	
8,800.0	8,693.0	8,736.4	8,695.7	36.4	33.1	0.01	-695.9	-409.9	430.1	366.2	63.95	6.726	
8,900.0	8,793.0	8,834.5	8,793.7	36.7	33.4	0.53	-696.2	-406.1	429.9	365.4	64.50	6.664	
8,977.0	8,870.0	8,911.3	8,869.0	36.9	33.6	2.40	-696.8	-392.0	429.6	364.8	64.77	6.633	
9,000.0	8,893.0	8,933.3	8,890.3	37.0	33.7	3.19	-697.0	-386.1	429.7	364.9	64.82	6.629	
9,100.0	8,993.0	9,022.9	8,973.8	37.3	33.9	7.47	-698.4	-354.0	431.7	366.9	64.77	6.665	
9,200.0	9,093.0	9,100.9	9,041.7	37.6	34.0	12.49	-700.0	-315.6	439.3	375.0	64.22	6.840	
9,300.0	9,193.0	9,167.1	9,094.7	37.8	34.1	17.51	-701.7	-276.1	455.5	392.5	62.97	7.234	
9,400.0	9,293.0	9,222.6	9,135.5	38.1	34.1	22.08	-703.2	-238.5	482.4	421.5	60.90	7.922	
9,446.5	9,339.5	9,245.2	9,150.9	38.3	34.2	24.00	-703.9	-222.1	498.7	439.0	59.68	8.356	
9,450.0	9,343.0	9,250.0	9,154.2	38.3	34.2	-65.21	-704.1	-218.5	500.0	440.3	59.72	8.373	
9,500.0	9,393.0	9,270.2	9,167.3	38.4	34.2	-61.72	-704.7	-203.2	519.3	461.2	58.16	8.929	
9,550.0	9,442.5	9,293.7	9,182.0	38.5	34.2	-58.14	-705.5	-184.9	539.2	482.5	56.67	9.515	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,600.0	9,491.2	9,317.3	9,195.9	38.7	34.2	-54.79	-706.3	-165.8	559.3	504.1	55.14	10.143	
9,650.0	9,538.8	9,341.0	9,209.1	38.8	34.2	-51.71	-707.1	-146.2	579.2	525.6	53.58	10.809	
9,700.0	9,584.8	9,364.8	9,221.5	38.8	34.2	-48.90	-708.0	-125.9	598.6	546.6	52.02	11.507	
9,750.0	9,629.0	9,388.6	9,233.1	38.9	34.2	-46.36	-708.8	-105.1	617.3	566.8	50.47	12.231	
9,800.0	9,671.0	9,412.5	9,243.8	39.0	34.2	-44.11	-709.7	-83.7	635.1	586.1	48.95	12.974	
9,850.0	9,710.5	9,436.5	9,253.6	39.0	34.2	-42.11	-710.6	-61.9	651.7	604.2	47.47	13.728	
9,900.0	9,747.1	9,460.4	9,262.6	39.1	34.2	-40.36	-711.6	-39.7	667.1	621.0	46.07	14.481	
9,950.0	9,780.7	9,484.5	9,270.6	39.1	34.2	-38.83	-712.5	-17.1	681.1	636.3	44.75	15.220	
10,000.0	9,810.9	9,500.0	9,275.2	39.1	34.2	-37.69	-713.1	-2.3	693.7	650.4	43.26	16.035	
10,050.0	9,837.5	9,532.6	9,283.7	39.1	34.2	-36.42	-714.5	29.2	704.5	662.0	42.47	16.588	
10,100.0	9,860.3	9,550.0	9,287.5	39.1	34.2	-35.59	-715.2	46.1	713.8	672.4	41.38	17.248	
10,106.5	9,862.9	9,550.0	9,287.5	39.1	34.2	-35.52	-715.2	46.1	714.9	673.7	41.21	17.349	
10,200.0	9,899.6	9,600.0	9,295.5	39.1	34.3	-34.61	-717.2	95.4	731.8	691.8	40.02	18.288	
10,300.0	9,935.6	9,669.9	9,300.7	39.1	34.7	-33.26	-720.1	165.0	753.6	714.4	39.20	19.223	
10,400.0	9,968.4	9,764.9	9,306.5	39.1	35.4	-31.70	-724.0	259.8	774.2	735.2	38.94	19.883	
10,500.0	9,997.8	9,860.8	9,312.3	39.2	36.3	-30.37	-727.7	355.5	792.4	753.4	38.96	20.337	
10,600.0	10,023.9	9,957.5	9,318.0	39.6	37.3	-29.24	-731.4	451.9	808.0	768.7	39.25	20.584	
10,700.0	10,046.6	10,054.7	9,323.7	40.4	38.4	-28.30	-734.9	548.9	820.9	781.2	39.78	20.636	
10,800.0	10,065.9	10,152.5	9,329.4	41.5	39.7	-27.53	-738.3	646.4	831.1	790.6	40.53	20.508	
10,900.0	10,081.8	10,250.6	9,334.9	42.7	41.0	-26.91	-741.6	744.4	838.5	797.0	41.47	20.219	
11,000.0	10,094.2	10,349.1	9,340.4	44.0	42.5	-26.44	-744.7	842.6	842.9	800.3	42.60	19.788	
11,100.0	10,103.2	10,447.7	9,345.8	45.4	44.0	-26.10	-747.7	941.1	844.4	800.5	43.90	19.237	
11,200.0	10,108.6	10,546.4	9,351.2	46.9	45.6	-25.90	-750.5	1,039.6	842.9	797.6	45.36	18.583	
11,293.4	10,110.6	10,638.6	9,356.1	48.3	47.2	-25.83	-753.1	1,131.6	838.8	792.0	46.88	17.895	
11,300.0	10,110.6	10,645.1	9,356.4	48.4	47.3	-25.83	-753.2	1,138.1	838.4	791.5	46.99	17.844	
11,400.0	10,111.1	10,743.7	9,361.5	50.0	49.0	-25.77	-755.8	1,236.5	832.8	784.0	48.73	17.091	
11,500.0	10,111.5	10,842.3	9,366.6	51.7	50.8	-25.72	-758.2	1,335.0	827.2	776.7	50.53	16.371	
11,600.0	10,112.0	10,941.0	9,371.6	53.5	52.7	-25.68	-760.5	1,433.5	821.8	769.4	52.39	15.686	
11,700.0	10,112.4	11,039.6	9,376.4	55.3	54.5	-25.64	-762.6	1,532.0	816.5	762.2	54.30	15.037	
11,800.0	10,112.9	11,138.3	9,381.2	57.1	56.5	-25.60	-764.6	1,630.6	811.4	755.2	56.27	14.421	
11,900.0	10,113.3	11,237.0	9,385.9	59.0	58.4	-25.57	-766.4	1,729.1	806.5	748.2	58.28	13.839	
12,000.0	10,113.8	11,335.7	9,390.6	60.9	60.4	-25.55	-768.1	1,827.7	801.7	741.3	60.33	13.288	
12,100.0	10,114.3	11,434.4	9,395.1	62.9	62.4	-25.54	-769.6	1,926.3	797.0	734.6	62.42	12.769	
12,200.0	10,114.7	11,533.2	9,399.5	64.9	64.5	-25.53	-771.0	2,025.0	792.5	727.9	64.54	12.278	
12,300.0	10,115.2	11,631.9	9,403.9	66.9	66.6	-25.53	-772.3	2,123.6	788.1	721.4	66.71	11.814	
12,400.0	10,115.6	11,730.7	9,408.1	68.9	68.7	-25.53	-773.4	2,222.3	783.8	714.9	68.90	11.376	
12,500.0	10,116.1	11,829.5	9,412.3	71.0	70.8	-25.55	-774.3	2,321.0	779.8	708.6	71.13	10.962	
12,600.0	10,116.5	11,928.3	9,416.4	73.1	72.9	-25.57	-775.1	2,419.7	775.8	702.4	73.40	10.570	
12,700.0	10,117.0	12,027.1	9,420.3	75.2	75.1	-25.59	-775.8	2,518.4	772.0	696.3	75.69	10.200	
12,800.0	10,117.4	12,125.9	9,424.2	77.4	77.2	-25.63	-776.3	2,617.1	768.4	690.3	78.02	9.849	
12,900.0	10,117.9	12,224.7	9,428.1	79.5	79.4	-25.67	-776.7	2,715.8	764.8	684.5	80.37	9.516	
13,000.0	10,118.4	12,323.5	9,431.8	81.7	81.6	-25.72	-776.9	2,814.6	761.5	678.7	82.76	9.201	
13,100.0	10,118.8	12,422.3	9,435.4	83.9	83.8	-25.77	-777.0	2,913.4	758.3	673.1	85.18	8.902	
13,200.0	10,119.3	12,521.2	9,439.0	86.1	86.0	-25.83	-776.9	3,012.1	755.2	667.6	87.63	8.618	
13,300.0	10,119.7	12,620.0	9,442.4	88.3	88.2	-25.90	-776.7	3,110.9	752.3	662.2	90.12	8.348	
13,400.0	10,120.2	12,718.9	9,445.8	90.5	90.5	-25.98	-776.4	3,209.7	749.5	656.9	92.63	8.091	
13,500.0	10,120.6	12,817.8	9,449.0	92.8	92.7	-26.07	-775.9	3,308.5	746.9	651.7	95.18	7.847	
13,600.0	10,121.1	12,916.9	9,452.2	95.0	95.0	-26.16	-775.2	3,407.6	744.4	646.6	97.77	7.614	
13,700.0	10,121.6	13,016.9	9,455.4	97.3	97.3	-26.26	-774.5	3,507.5	742.0	641.6	100.41	7.390	
13,800.0	10,122.0	13,116.8	9,458.6	99.5	99.6	-26.36	-773.8	3,607.4	739.6	636.5	103.07	7.175	
13,900.0	10,122.5	13,216.8	9,461.8	101.8	101.9	-26.45	-773.1	3,707.3	737.1	631.4	105.74	6.971	
14,000.0	10,122.9	13,316.7	9,465.0	104.1	104.2	-26.55	-772.4	3,807.3	734.7	626.3	108.44	6.775	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #202H - Wellbore #1 - State Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.0	10,123.4	13,416.7	9,468.2	106.4	106.5	-26.65	-771.7	3,907.2	732.3	621.1	111.15	6.588	
14,200.0	10,123.8	13,516.7	9,471.4	108.7	108.8	-26.75	-771.0	4,007.1	729.8	616.0	113.88	6.409	
14,300.0	10,124.3	13,616.6	9,474.6	111.0	111.1	-26.85	-770.4	4,107.0	727.4	610.8	116.63	6.237	
14,400.0	10,124.8	13,716.6	9,477.8	113.3	113.4	-26.95	-769.7	4,206.9	725.0	605.6	119.40	6.072	
14,500.0	10,125.2	13,816.6	9,481.0	115.6	115.8	-27.06	-769.0	4,306.8	722.6	600.4	122.19	5.914	
14,600.0	10,125.7	13,916.5	9,484.2	117.9	118.1	-27.16	-768.3	4,406.7	720.2	595.2	124.99	5.762	
14,700.0	10,126.1	14,016.5	9,487.4	120.2	120.5	-27.26	-767.6	4,506.6	717.8	589.9	127.81	5.616	
14,800.0	10,126.6	14,116.4	9,490.6	122.6	122.8	-27.37	-766.9	4,606.5	715.3	584.7	130.65	5.475	
14,900.0	10,127.0	14,216.4	9,493.8	124.9	125.2	-27.47	-766.2	4,706.4	712.9	579.4	133.51	5.340	
15,000.0	10,127.5	14,316.4	9,497.0	127.2	127.5	-27.58	-765.5	4,806.3	710.5	574.1	136.38	5.210	
15,100.0	10,127.9	14,416.3	9,500.1	129.6	129.9	-27.68	-764.8	4,906.3	708.1	568.9	139.28	5.084	
15,200.0	10,128.4	14,516.3	9,503.3	131.9	132.2	-27.79	-764.1	5,006.2	705.7	563.5	142.19	4.963	
15,300.0	10,128.9	14,616.3	9,506.5	134.3	134.6	-27.90	-763.4	5,106.1	703.3	558.2	145.11	4.847	
15,400.0	10,129.3	14,716.2	9,509.7	136.6	137.0	-28.01	-762.7	5,206.0	700.9	552.9	148.06	4.734	
15,500.0	10,129.8	14,816.2	9,512.9	139.0	139.3	-28.12	-762.0	5,305.9	698.5	547.5	151.02	4.625	
15,600.0	10,130.2	14,916.1	9,516.1	141.3	141.7	-28.23	-761.3	5,405.8	696.1	542.1	154.00	4.520	
15,700.0	10,130.7	15,016.1	9,519.3	143.7	144.1	-28.34	-760.6	5,505.7	693.8	536.8	157.00	4.419	
15,800.0	10,131.1	15,116.1	9,522.5	146.1	146.4	-28.45	-759.9	5,605.6	691.4	531.4	160.02	4.321	
15,900.0	10,131.6	15,216.0	9,525.7	148.4	148.8	-28.56	-759.2	5,705.5	689.0	525.9	163.05	4.226	
16,000.0	10,132.1	15,316.0	9,528.9	150.8	151.2	-28.67	-758.5	5,805.4	686.6	520.5	166.10	4.134	
16,100.0	10,132.5	15,416.0	9,532.1	153.2	153.6	-28.79	-757.9	5,905.3	684.2	515.1	169.17	4.045	
16,200.0	10,133.0	15,515.9	9,535.3	155.5	156.0	-28.90	-757.2	6,005.3	681.9	509.6	172.25	3.958	
16,300.0	10,133.4	15,615.9	9,538.5	157.9	158.4	-29.02	-756.5	6,105.2	679.5	504.1	175.36	3.875	
16,400.0	10,133.9	15,715.8	9,541.7	160.3	160.7	-29.13	-755.8	6,205.1	677.1	498.6	178.48	3.794	
16,500.0	10,134.3	15,815.8	9,544.9	162.7	163.1	-29.25	-755.1	6,305.0	674.8	493.1	181.62	3.715	
16,600.0	10,134.8	15,915.8	9,548.1	165.1	165.5	-29.37	-754.4	6,404.9	672.4	487.6	184.78	3.639	
16,700.0	10,135.3	16,015.7	9,551.3	167.4	167.9	-29.49	-753.7	6,504.8	670.0	482.1	187.96	3.565	
16,800.0	10,135.7	16,115.7	9,554.5	169.8	170.3	-29.61	-753.0	6,604.7	667.7	476.5	191.16	3.493	
16,900.0	10,136.2	16,215.7	9,557.7	172.2	172.7	-29.73	-752.3	6,704.6	665.3	470.9	194.37	3.423	
17,000.0	10,136.6	16,315.6	9,560.8	174.6	175.1	-29.85	-751.6	6,804.5	663.0	465.4	197.60	3.355	
17,100.0	10,137.1	16,415.6	9,564.0	177.0	177.5	-29.97	-750.9	6,904.4	660.6	459.8	200.85	3.289	
17,200.0	10,137.5	16,515.5	9,567.2	179.4	179.9	-30.09	-750.2	7,004.3	658.3	454.1	204.13	3.225	
17,300.0	10,138.0	16,615.5	9,570.4	181.8	182.3	-30.22	-749.5	7,104.3	655.9	448.5	207.42	3.162	
17,400.0	10,138.4	16,711.6	9,573.5	184.2	184.6	-30.34	-748.9	7,200.3	653.6	443.0	210.60	3.103	
17,411.2	10,138.5	16,711.6	9,573.5	184.4	184.6	-30.34	-748.9	7,200.3	653.5	442.9	210.58	3.103	
17,411.4	10,138.5	16,711.6	9,573.5	184.5	184.6	-30.34	-748.9	7,200.3	653.5	442.9	210.58	3.103	
17,411.8	10,138.5	16,711.6	9,573.5	184.5	184.6	-30.34	-748.9	7,200.3	653.5	442.9	210.58	3.103	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #221H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	-90.00	0.0	-30.0	30.0				
100.0	100.0	100.0	100.0	0.1	0.1	-90.00	0.0	-30.0	30.0	29.7	0.26	117.057	
200.0	200.0	200.0	200.0	0.5	0.5	-90.00	0.0	-30.0	30.0	29.0	0.97	30.827	
300.0	300.0	300.0	300.0	0.8	0.8	-90.00	0.0	-30.0	30.0	28.3	1.69	17.751	
400.0	400.0	400.0	400.0	1.2	1.2	-90.00	0.0	-30.0	30.0	27.6	2.41	12.464	
500.0	500.0	500.0	500.0	1.6	1.6	-90.00	0.0	-30.0	30.0	26.9	3.12	9.604	
600.0	600.0	600.0	600.0	1.9	1.9	-90.00	0.0	-30.0	30.0	26.2	3.84	7.811	
700.0	700.0	700.0	700.0	2.3	2.3	-90.00	0.0	-30.0	30.0	25.4	4.56	6.582	
800.0	800.0	800.0	800.0	2.6	2.6	-90.00	0.0	-30.0	30.0	24.7	5.27	5.688	
900.0	900.0	900.0	900.0	3.0	3.0	-90.00	0.0	-30.0	30.0	24.0	5.99	5.007	
1,000.0	1,000.0	1,000.0	1,000.0	3.4	3.4	-90.00	0.0	-30.0	30.0	23.3	6.71	4.472	
1,100.0	1,100.0	1,100.0	1,100.0	3.7	3.7	-90.00	0.0	-30.0	30.0	22.6	7.43	4.040	
1,200.0	1,200.0	1,200.0	1,200.0	4.1	4.1	-90.00	0.0	-30.0	30.0	21.9	8.14	3.685	
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	71.58	0.0	-30.0	29.7	20.9	8.84	3.361	
1,400.0	1,400.0	1,400.0	1,400.0	4.7	4.8	76.50	0.0	-30.0	29.0	19.5	9.53	3.043	
1,500.0	1,499.9	1,499.9	1,499.9	5.1	5.1	85.11	0.0	-30.0	28.3	18.1	10.22	2.769	
1,517.2	1,517.0	1,516.9	1,516.9	5.1	5.2	86.98	0.0	-30.0	28.3	17.9	10.34	2.734	CC, ES
1,600.0	1,599.7	1,599.2	1,599.2	5.4	5.5	97.36	0.4	-30.8	29.3	18.4	10.91	2.686	SF
1,700.0	1,699.4	1,698.3	1,698.2	5.8	5.8	110.50	1.6	-33.1	33.8	22.2	11.59	2.916	
1,800.0	1,798.9	1,797.1	1,796.9	6.1	6.2	121.24	3.5	-36.9	42.1	29.8	12.28	3.431	
1,900.0	1,898.3	1,895.4	1,895.1	6.5	6.5	128.74	6.2	-42.2	54.0	41.0	12.97	4.164	
2,000.0	1,997.4	1,993.3	1,992.7	6.8	6.9	133.64	9.6	-48.9	69.0	55.3	13.66	5.052	
2,100.0	2,096.3	2,090.5	2,089.5	7.2	7.2	136.80	13.8	-57.1	86.9	72.5	14.35	6.055	
2,200.0	2,194.9	2,187.1	2,185.5	7.6	7.6	138.83	18.7	-66.7	107.5	92.4	15.04	7.144	
2,269.4	2,263.2	2,253.7	2,251.5	7.9	7.8	139.80	22.5	-74.1	123.3	107.8	15.53	7.940	
2,300.0	2,293.3	2,282.9	2,280.5	8.0	8.0	140.16	24.3	-77.6	130.6	114.8	15.74	8.297	
2,400.0	2,391.5	2,379.6	2,376.3	8.4	8.3	141.00	30.4	-89.5	154.8	138.4	16.46	9.409	
2,500.0	2,489.8	2,476.6	2,472.3	8.8	8.7	141.60	36.5	-101.6	179.1	161.9	17.18	10.424	
2,600.0	2,588.1	2,573.6	2,568.3	9.2	9.1	142.06	42.7	-113.6	203.4	185.5	17.92	11.354	
2,700.0	2,686.3	2,670.6	2,664.4	9.6	9.4	142.42	48.8	-125.6	227.7	209.1	18.65	12.209	
2,800.0	2,784.6	2,767.6	2,760.4	10.1	9.8	142.71	54.9	-137.6	252.1	232.7	19.39	12.997	
2,900.0	2,882.8	2,864.6	2,856.5	10.5	10.2	142.95	61.1	-149.6	276.4	256.2	20.14	13.724	
3,000.0	2,981.1	2,961.6	2,952.5	10.9	10.6	143.15	67.2	-161.7	300.7	279.8	20.89	14.397	
3,100.0	3,079.4	3,058.6	3,048.6	11.4	11.0	143.32	73.4	-173.7	325.0	303.4	21.64	15.022	
3,200.0	3,177.6	3,155.5	3,144.6	11.8	11.3	143.47	79.5	-185.7	349.4	327.0	22.39	15.603	
3,300.0	3,275.9	3,252.5	3,240.7	12.2	11.7	143.60	85.6	-197.7	373.7	350.6	23.15	16.145	
3,400.0	3,374.2	3,349.5	3,336.7	12.7	12.1	143.71	91.8	-209.8	398.1	374.1	23.91	16.650	
3,500.0	3,472.4	3,446.5	3,432.8	13.1	12.5	143.81	97.9	-221.8	422.4	397.7	24.67	17.124	
3,600.0	3,570.7	3,543.5	3,528.8	13.6	12.9	143.90	104.0	-233.8	446.7	421.3	25.43	17.568	
3,700.0	3,669.0	3,640.5	3,624.9	14.0	13.3	143.98	110.2	-245.8	471.1	444.9	26.19	17.985	
3,800.0	3,767.2	3,737.5	3,720.9	14.5	13.7	144.05	116.3	-257.8	495.4	468.5	26.96	18.377	
3,900.0	3,865.5	3,834.5	3,817.0	14.9	14.1	144.12	122.5	-269.9	519.8	492.0	27.73	18.746	
4,000.0	3,963.7	3,931.5	3,913.0	15.4	14.5	144.18	128.6	-281.9	544.1	515.6	28.49	19.095	
4,100.0	4,062.0	4,028.5	4,009.0	15.8	14.9	144.23	134.7	-293.9	568.4	539.2	29.26	19.425	
4,200.0	4,160.3	4,125.5	4,105.1	16.3	15.3	144.28	140.9	-305.9	592.8	562.8	30.03	19.737	
4,300.0	4,258.5	4,222.4	4,201.1	16.7	15.7	144.33	147.0	-318.0	617.1	586.3	30.81	20.033	
4,400.0	4,356.8	4,319.4	4,297.2	17.2	16.1	144.37	153.1	-330.0	641.5	609.9	31.58	20.314	
4,500.0	4,455.1	4,416.4	4,393.2	17.6	16.5	144.41	159.3	-342.0	665.8	633.5	32.35	20.581	
4,600.0	4,553.3	4,513.4	4,489.3	18.1	16.9	144.44	165.4	-354.0	690.2	657.0	33.13	20.835	
4,700.0	4,651.6	4,610.4	4,585.3	18.5	17.3	144.48	171.6	-366.0	714.5	680.6	33.90	21.076	
4,800.0	4,749.8	4,708.8	4,682.7	19.0	17.7	144.51	177.8	-378.2	738.8	704.2	34.69	21.299	
4,900.0	4,848.1	4,820.6	4,793.8	19.5	18.1	144.66	184.0	-390.4	762.1	726.5	35.58	21.416	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #221H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,946.4	4,933.4	4,906.0	19.9	18.5	144.98	188.7	-399.7	783.4	746.9	36.46	21.487	
5,100.0	5,044.6	5,046.8	5,019.2	20.4	19.0	145.47	192.0	-406.1	802.8	765.5	37.31	21.520	
5,200.0	5,142.9	5,160.7	5,133.1	20.8	19.4	146.11	193.7	-409.4	820.4	782.3	38.13	21.517	
5,300.0	5,241.2	5,268.8	5,241.2	21.3	19.7	146.86	194.0	-410.0	836.3	797.5	38.90	21.502	
5,400.0	5,339.4	5,367.1	5,339.4	21.8	20.1	147.53	194.0	-410.0	852.0	812.4	39.61	21.510	
5,500.0	5,437.7	5,465.4	5,437.7	22.2	20.4	148.19	194.0	-410.0	867.8	827.5	40.32	21.521	
5,600.0	5,536.0	5,563.6	5,536.0	22.7	20.7	148.82	194.0	-410.0	883.7	842.7	41.04	21.534	
5,700.0	5,634.2	5,661.9	5,634.2	23.1	21.0	149.43	194.0	-410.0	899.7	858.0	41.75	21.549	
5,800.0	5,732.5	5,760.1	5,732.5	23.6	21.4	150.02	194.0	-410.0	915.8	873.3	42.46	21.566	
5,900.0	5,830.7	5,858.4	5,830.7	24.1	21.7	150.59	194.0	-410.0	932.0	888.8	43.18	21.585	
6,000.0	5,929.0	5,956.7	5,929.0	24.5	22.0	151.13	194.0	-410.0	948.3	904.4	43.89	21.606	
6,100.0	6,027.3	6,054.9	6,027.3	25.0	22.4	151.66	194.0	-410.0	964.6	920.0	44.60	21.627	
6,200.0	6,125.5	6,153.2	6,125.5	25.4	22.7	152.18	194.0	-410.0	981.1	935.8	45.31	21.650	
6,300.0	6,223.8	6,251.5	6,223.8	25.9	23.0	152.67	194.0	-410.0	997.6	951.6	46.03	21.674	
6,400.0	6,322.1	6,349.7	6,322.1	26.4	23.4	153.15	194.0	-410.0	1,014.2	967.4	46.74	21.698	
6,500.0	6,420.3	6,448.0	6,420.3	26.8	23.7	153.62	194.0	-410.0	1,030.8	983.4	47.45	21.723	
6,600.0	6,518.6	6,546.3	6,518.6	27.3	24.0	154.07	194.0	-410.0	1,047.5	999.4	48.16	21.749	
6,700.0	6,616.8	6,644.5	6,616.8	27.8	24.4	154.50	194.0	-410.0	1,064.3	1,015.4	48.88	21.776	
6,800.0	6,715.1	6,742.8	6,715.1	28.2	24.7	154.92	194.0	-410.0	1,081.1	1,031.5	49.59	21.802	
6,900.0	6,813.4	6,841.0	6,813.4	28.7	25.0	155.33	194.0	-410.0	1,098.0	1,047.7	50.30	21.829	
7,000.0	6,911.6	6,939.3	6,911.6	29.2	25.4	155.73	194.0	-410.0	1,115.0	1,063.9	51.01	21.856	
7,100.0	7,009.9	7,037.6	7,009.9	29.6	25.7	156.11	194.0	-410.0	1,131.9	1,080.2	51.73	21.884	
7,200.0	7,108.2	7,135.8	7,108.2	30.1	26.1	156.49	194.0	-410.0	1,149.0	1,096.5	52.44	21.911	
7,300.0	7,206.4	7,234.1	7,206.4	30.6	26.4	156.85	194.0	-410.0	1,166.1	1,112.9	53.15	21.939	
7,400.0	7,304.7	7,332.4	7,304.7	31.0	26.7	157.20	194.0	-410.0	1,183.2	1,129.3	53.86	21.966	
7,500.0	7,403.0	7,430.6	7,403.0	31.5	27.1	157.55	194.0	-410.0	1,200.4	1,145.8	54.58	21.994	
7,600.0	7,501.2	7,528.9	7,501.2	31.9	27.4	157.88	194.0	-410.0	1,217.6	1,162.3	55.29	22.022	
7,700.0	7,599.5	7,627.1	7,599.5	32.4	27.7	158.20	194.0	-410.0	1,234.8	1,178.8	56.00	22.049	
7,800.0	7,697.7	7,725.4	7,697.7	32.9	28.1	158.52	194.0	-410.0	1,252.1	1,195.4	56.72	22.076	
7,833.5	7,730.7	7,758.3	7,730.7	33.0	28.2	158.62	194.0	-410.0	1,257.9	1,201.0	56.96	22.086	
7,900.0	7,796.1	7,823.8	7,796.1	33.3	28.4	158.87	194.0	-410.0	1,268.9	1,211.5	57.43	22.095	
8,000.0	7,894.9	7,922.6	7,894.9	33.8	28.8	159.20	194.0	-410.0	1,283.5	1,225.3	58.14	22.075	
8,100.0	7,994.0	8,021.7	7,994.0	34.2	29.1	159.47	194.0	-410.0	1,295.6	1,236.8	58.85	22.016	
8,200.0	8,093.5	8,121.2	8,093.5	34.6	29.5	159.68	194.0	-410.0	1,305.3	1,245.8	59.55	21.919	
8,300.0	8,193.2	8,220.9	8,193.2	34.9	29.8	159.83	194.0	-410.0	1,312.6	1,252.3	60.25	21.785	
8,400.0	8,293.1	8,320.7	8,293.1	35.3	30.2	159.94	194.0	-410.0	1,317.4	1,256.5	60.95	21.616	
8,500.0	8,393.0	8,420.7	8,393.0	35.6	30.5	159.99	194.0	-410.0	1,319.8	1,258.2	61.63	21.413	
8,546.5	8,439.5	8,467.2	8,439.5	35.8	30.7	0.00	194.0	-410.0	1,320.1	1,258.1	61.95	21.309	
8,600.0	8,493.0	8,520.7	8,493.0	35.9	30.8	0.00	194.0	-410.0	1,320.1	1,257.8	62.30	21.189	
8,700.0	8,593.0	8,620.7	8,593.0	36.2	31.2	0.00	194.0	-410.0	1,320.1	1,257.1	62.96	20.966	
8,800.0	8,693.0	8,720.7	8,693.0	36.4	31.5	0.00	194.0	-410.0	1,320.1	1,256.4	63.62	20.748	
8,900.0	8,793.0	8,820.7	8,793.0	36.7	31.9	0.00	194.0	-410.0	1,320.1	1,255.8	64.29	20.534	
9,000.0	8,893.0	8,920.7	8,893.0	37.0	32.2	0.00	194.0	-410.0	1,320.1	1,255.1	64.95	20.324	
9,100.0	8,993.0	9,020.7	8,993.0	37.3	32.6	0.00	194.0	-410.0	1,320.1	1,254.4	65.61	20.118	
9,200.0	9,093.0	9,120.7	9,093.0	37.6	32.9	0.00	194.0	-410.0	1,320.1	1,253.8	66.28	19.916	
9,300.0	9,193.0	9,220.7	9,193.0	37.8	33.3	0.00	194.0	-410.0	1,320.1	1,253.1	66.95	19.718	
9,400.0	9,293.0	9,354.7	9,326.7	38.1	33.7	0.25	192.9	-404.2	1,319.4	1,251.7	67.75	19.475	
9,446.5	9,339.5	9,430.6	9,401.0	38.3	33.9	0.93	190.1	-388.6	1,317.7	1,249.6	68.10	19.350	
9,450.0	9,343.0	9,436.2	9,406.3	38.3	34.0	-88.77	189.8	-387.1	1,317.6	1,249.4	68.13	19.340	
9,500.0	9,393.0	9,513.0	9,478.3	38.4	34.1	-88.07	185.0	-361.0	1,314.6	1,246.2	68.43	19.212	
9,550.0	9,442.5	9,585.3	9,542.2	38.5	34.3	-87.40	179.0	-328.0	1,310.8	1,242.1	68.69	19.083	
9,600.0	9,491.2	9,653.2	9,598.1	38.7	34.5	-86.77	172.0	-289.9	1,306.1	1,237.2	68.93	18.949	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #221H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD

Offset Well Error: 0.0 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,650.0	9,538.8	9,717.1	9,646.1	38.8	34.6	-86.19	164.4	-248.5	1,300.8	1,231.6	69.17	18.807	
9,700.0	9,584.8	9,777.3	9,686.7	38.8	34.8	-85.67	156.4	-204.8	1,294.9	1,225.5	69.41	18.656	
9,750.0	9,629.0	9,834.1	9,720.6	38.9	34.9	-85.22	148.1	-160.0	1,288.6	1,218.9	69.67	18.495	
9,800.0	9,671.0	9,888.0	9,748.4	39.0	35.1	-84.83	139.8	-114.7	1,281.9	1,211.9	69.95	18.327	
9,850.0	9,710.5	9,939.2	9,770.7	39.0	35.3	-84.50	131.5	-69.4	1,274.9	1,204.6	70.23	18.152	
9,900.0	9,747.1	9,988.1	9,788.1	39.1	35.5	-84.24	123.2	-24.4	1,267.6	1,197.1	70.53	17.972	
9,950.0	9,780.7	10,035.0	9,801.1	39.1	35.7	-84.02	115.1	19.9	1,260.2	1,189.4	70.85	17.788	
10,000.0	9,810.9	10,080.2	9,810.1	39.1	35.9	-83.87	107.1	63.5	1,252.7	1,181.5	71.17	17.601	
10,050.0	9,837.5	10,123.9	9,815.4	39.1	36.2	-83.75	99.3	106.1	1,245.1	1,173.6	71.50	17.413	
10,100.0	9,860.3	10,156.0	9,818.0	39.1	36.4	-83.92	93.7	137.6	1,237.6	1,165.8	71.81	17.234	
10,106.5	9,862.9	10,160.2	9,818.4	39.1	36.4	-83.95	93.0	141.8	1,236.6	1,164.8	71.85	17.211	
10,200.0	9,899.6	10,221.6	9,823.2	39.1	36.8	-83.24	83.3	202.1	1,224.1	1,151.6	72.51	16.881	
10,300.0	9,935.6	10,288.2	9,828.1	39.1	37.3	-82.51	74.2	267.9	1,213.2	1,139.9	73.36	16.538	
10,400.0	9,968.4	10,355.6	9,832.9	39.1	37.9	-81.80	66.6	334.8	1,204.7	1,130.4	74.37	16.200	
10,500.0	9,997.8	10,423.9	9,837.4	39.2	38.6	-81.13	60.5	402.6	1,198.6	1,123.0	75.53	15.869	
10,600.0	10,023.9	10,500.0	9,842.2	39.6	39.4	-80.46	55.5	478.4	1,194.6	1,117.7	76.94	15.527	
10,700.0	10,046.6	10,562.3	9,845.8	40.4	40.1	-79.97	52.9	540.6	1,192.7	1,114.4	78.36	15.221	
10,738.5	10,054.5	10,589.2	9,847.3	40.8	40.4	-79.78	52.2	567.4	1,192.5	1,113.5	78.98	15.098	
10,800.0	10,065.9	10,632.2	9,849.6	41.5	40.9	-79.49	51.6	610.4	1,192.8	1,112.8	80.02	14.906	
10,900.0	10,081.8	10,700.0	9,853.0	42.7	41.8	-79.10	52.0	678.1	1,194.8	1,113.0	81.79	14.608	
11,000.0	10,094.2	10,788.1	9,857.0	44.0	43.0	-78.73	54.3	766.0	1,198.3	1,114.2	84.09	14.250	
11,100.0	10,103.2	10,887.9	9,861.6	45.4	44.4	-78.48	57.2	865.7	1,201.5	1,114.6	86.82	13.838	
11,200.0	10,108.6	10,987.9	9,866.2	46.9	45.9	-78.42	60.1	965.5	1,203.9	1,114.1	89.76	13.412	
11,293.4	10,110.6	11,081.3	9,870.4	48.3	47.4	-78.51	62.8	1,058.7	1,205.5	1,112.8	92.69	13.005	
11,300.0	10,110.6	11,087.8	9,870.7	48.4	47.5	-78.53	63.0	1,065.3	1,205.6	1,112.7	92.90	12.977	
11,400.0	10,111.1	11,187.7	9,875.3	50.0	49.2	-78.74	65.9	1,165.1	1,207.0	1,110.8	96.20	12.546	
11,500.0	10,111.5	11,287.6	9,879.9	51.7	50.9	-78.95	68.8	1,264.8	1,208.4	1,108.7	99.64	12.128	
11,600.0	10,112.0	11,387.5	9,884.4	53.5	52.7	-79.16	71.7	1,364.6	1,209.8	1,106.6	103.19	11.724	
11,700.0	10,112.4	11,487.4	9,889.0	55.3	54.5	-79.37	74.6	1,464.3	1,211.3	1,104.4	106.85	11.337	
11,800.0	10,112.9	11,587.3	9,893.6	57.1	56.4	-79.58	77.5	1,564.0	1,212.7	1,102.1	110.60	10.965	
11,900.0	10,113.3	11,687.2	9,898.1	59.0	58.3	-79.79	80.3	1,663.8	1,214.2	1,099.8	114.44	10.610	
12,000.0	10,113.8	11,787.1	9,902.7	60.9	60.3	-80.00	83.2	1,763.5	1,215.7	1,097.4	118.36	10.272	
12,100.0	10,114.3	11,887.0	9,907.3	62.9	62.3	-80.21	86.1	1,863.3	1,217.2	1,094.9	122.35	9.949	
12,200.0	10,114.7	11,986.8	9,911.8	64.9	64.3	-80.42	89.0	1,963.0	1,218.8	1,092.4	126.40	9.642	
12,300.0	10,115.2	12,086.7	9,916.4	66.9	66.3	-80.63	91.9	2,062.8	1,220.3	1,089.8	130.52	9.350	
12,400.0	10,115.6	12,186.6	9,920.9	68.9	68.4	-80.84	94.8	2,162.5	1,221.9	1,087.2	134.69	9.072	
12,500.0	10,116.1	12,286.5	9,925.5	71.0	70.5	-81.04	97.7	2,262.2	1,223.5	1,084.6	138.91	8.808	
12,600.0	10,116.5	12,386.4	9,930.1	73.1	72.6	-81.25	100.6	2,362.0	1,225.1	1,081.9	143.18	8.556	
12,700.0	10,117.0	12,486.3	9,934.6	75.2	74.8	-81.45	103.5	2,461.7	1,226.7	1,079.2	147.48	8.317	
12,800.0	10,117.4	12,586.2	9,939.2	77.4	76.9	-81.66	106.4	2,561.5	1,228.3	1,076.5	151.83	8.090	
12,900.0	10,117.9	12,686.1	9,943.8	79.5	79.1	-81.86	109.3	2,661.2	1,229.9	1,073.7	156.21	7.874	
13,000.0	10,118.4	12,786.0	9,948.3	81.7	81.3	-82.07	112.2	2,761.0	1,231.6	1,071.0	160.62	7.668	
13,100.0	10,118.8	12,885.9	9,952.9	83.9	83.5	-82.27	115.1	2,860.7	1,233.3	1,068.2	165.07	7.471	
13,200.0	10,119.3	12,985.7	9,957.5	86.1	85.7	-82.47	118.0	2,960.5	1,235.0	1,065.4	169.54	7.284	
13,300.0	10,119.7	13,085.6	9,962.0	88.3	87.9	-82.68	120.9	3,060.2	1,236.7	1,062.6	174.03	7.106	
13,400.0	10,120.2	13,185.5	9,966.6	90.5	90.2	-82.88	123.8	3,159.9	1,238.4	1,059.8	178.55	6.936	
13,500.0	10,120.6	13,285.4	9,971.2	92.8	92.4	-83.08	126.6	3,259.7	1,240.1	1,057.0	183.10	6.773	
13,600.0	10,121.1	13,385.3	9,975.7	95.0	94.7	-83.28	129.5	3,359.4	1,241.9	1,054.2	187.66	6.618	
13,700.0	10,121.6	13,485.2	9,980.3	97.3	96.9	-83.48	132.4	3,459.2	1,243.7	1,051.4	192.24	6.469	
13,800.0	10,122.0	13,585.1	9,984.8	99.5	99.2	-83.68	135.3	3,558.9	1,245.4	1,048.6	196.84	6.327	
13,900.0	10,122.5	13,685.0	9,989.4	101.8	101.5	-83.88	138.2	3,658.7	1,247.2	1,045.8	201.45	6.191	
14,000.0	10,122.9	13,784.9	9,994.0	104.1	103.8	-84.08	141.1	3,758.4	1,249.0	1,043.0	206.08	6.061	

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 #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

Offset Design Barry Miller - Barry Miller State Com #221H - Wellbore #1 - BLM Plan #1

Offset Site Error: 0.0 usft

Survey Program: 0-MWD **Offset Well Error:** 0.0 usft

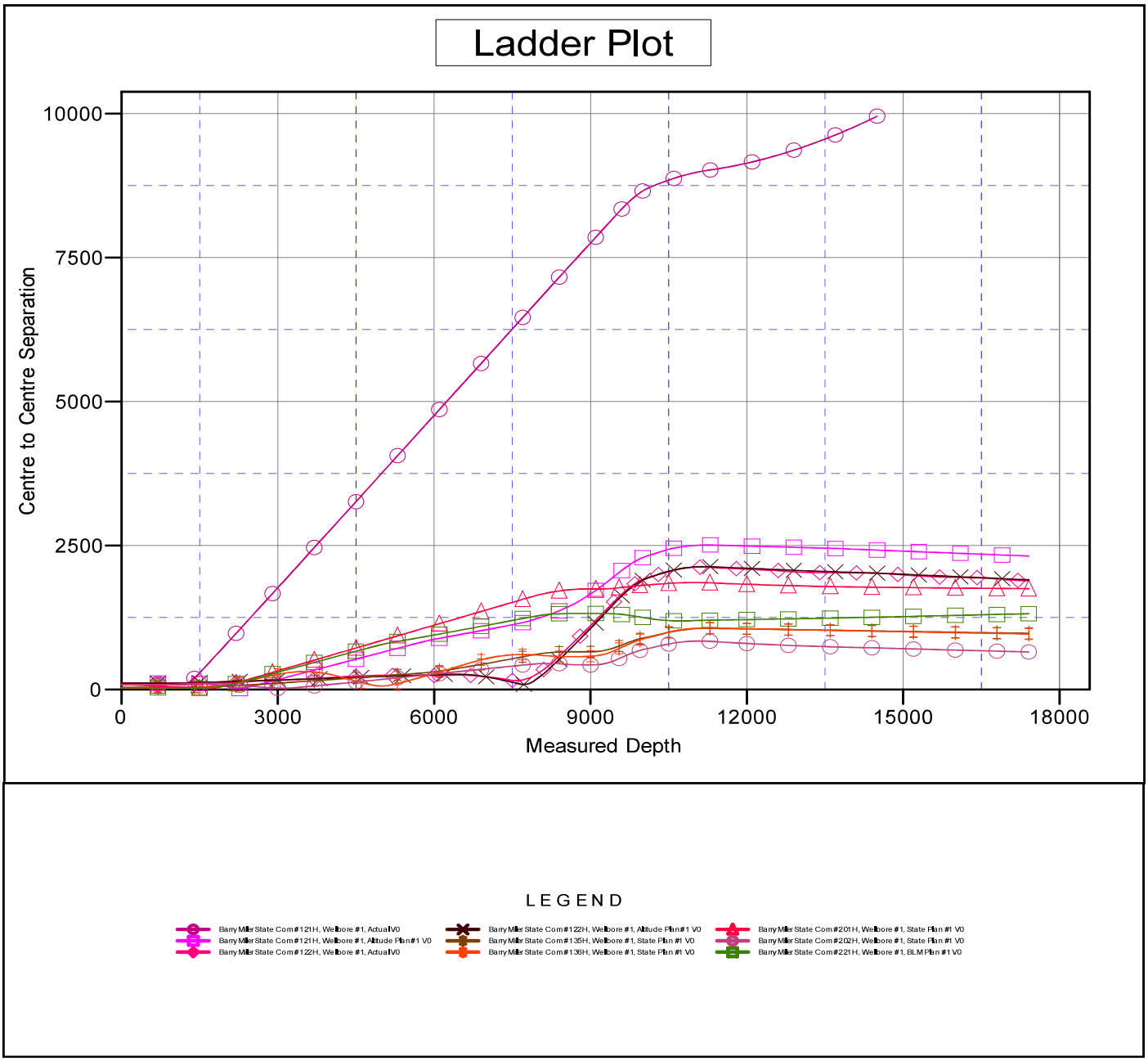
Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.0	10,123.4	13,884.8	9,998.5	106.4	106.1	-84.28	144.0	3,858.1	1,250.9	1,040.1	210.73	5.936	
14,200.0	10,123.8	13,984.6	10,003.1	108.7	108.4	-84.47	146.9	3,957.9	1,252.7	1,037.3	215.38	5.816	
14,300.0	10,124.3	14,084.5	10,007.7	111.0	110.7	-84.67	149.8	4,057.6	1,254.6	1,034.5	220.05	5.701	
14,400.0	10,124.8	14,184.4	10,012.2	113.3	113.0	-84.87	152.7	4,157.4	1,256.4	1,031.7	224.73	5.591	
14,500.0	10,125.2	14,284.3	10,016.8	115.6	115.3	-85.06	155.6	4,257.1	1,258.3	1,028.9	229.42	5.485	
14,600.0	10,125.7	14,384.2	10,021.4	117.9	117.7	-85.26	158.5	4,356.9	1,260.2	1,026.1	234.12	5.383	
14,700.0	10,126.1	14,484.1	10,025.9	120.2	120.0	-85.45	161.4	4,456.6	1,262.1	1,023.3	238.83	5.285	
14,800.0	10,126.6	14,584.0	10,030.5	122.6	122.3	-85.64	164.3	4,556.4	1,264.1	1,020.5	243.55	5.190	
14,900.0	10,127.0	14,683.9	10,035.1	124.9	124.7	-85.84	167.2	4,656.1	1,266.0	1,017.7	248.28	5.099	
15,000.0	10,127.5	14,783.8	10,039.6	127.2	127.0	-86.03	170.1	4,755.8	1,268.0	1,015.0	253.01	5.012	
15,100.0	10,127.9	14,883.7	10,044.2	129.6	129.3	-86.22	173.0	4,855.6	1,270.0	1,012.2	257.75	4.927	
15,200.0	10,128.4	14,983.5	10,048.7	131.9	131.7	-86.41	175.8	4,955.3	1,271.9	1,009.5	262.49	4.846	
15,300.0	10,128.9	15,083.4	10,053.3	134.3	134.0	-86.60	178.7	5,055.1	1,273.9	1,006.7	267.24	4.767	
15,400.0	10,129.3	15,183.3	10,057.9	136.6	136.4	-86.80	181.6	5,154.8	1,276.0	1,004.0	272.00	4.691	
15,500.0	10,129.8	15,283.2	10,062.4	139.0	138.7	-86.98	184.5	5,254.6	1,278.0	1,001.2	276.76	4.618	
15,600.0	10,130.2	15,383.1	10,067.0	141.3	141.1	-87.17	187.4	5,354.3	1,280.0	998.5	281.52	4.547	
15,700.0	10,130.7	15,483.0	10,071.6	143.7	143.5	-87.36	190.3	5,454.0	1,282.1	995.8	286.29	4.478	
15,800.0	10,131.1	15,582.9	10,076.1	146.1	145.8	-87.55	193.2	5,553.8	1,284.2	993.1	291.06	4.412	
15,900.0	10,131.6	15,682.8	10,080.7	148.4	148.2	-87.74	196.1	5,653.5	1,286.3	990.4	295.84	4.348	
16,000.0	10,132.1	15,782.7	10,085.3	150.8	150.6	-87.92	199.0	5,753.3	1,288.4	987.7	300.62	4.286	
16,100.0	10,132.5	15,882.6	10,089.8	153.2	152.9	-88.11	201.9	5,853.0	1,290.5	985.1	305.40	4.226	
16,200.0	10,133.0	15,982.4	10,094.4	155.5	155.3	-88.29	204.8	5,952.8	1,292.6	982.4	310.18	4.167	
16,300.0	10,133.4	16,082.3	10,099.0	157.9	157.7	-88.48	207.7	6,052.5	1,294.7	979.8	314.96	4.111	
16,400.0	10,133.9	16,182.2	10,103.5	160.3	160.1	-88.66	210.6	6,152.2	1,296.9	977.1	319.75	4.056	
16,500.0	10,134.3	16,282.1	10,108.1	162.7	162.4	-88.85	213.5	6,252.0	1,299.1	974.5	324.53	4.003	
16,600.0	10,134.8	16,382.0	10,112.7	165.1	164.8	-89.03	216.4	6,351.7	1,301.2	971.9	329.32	3.951	
16,700.0	10,135.3	16,481.9	10,117.2	167.4	167.2	-89.21	219.3	6,451.5	1,303.4	969.3	334.11	3.901	
16,800.0	10,135.7	16,581.8	10,121.8	169.8	169.6	-89.39	222.1	6,551.2	1,305.6	966.7	338.90	3.853	
16,900.0	10,136.2	16,681.7	10,126.3	172.2	172.0	-89.58	225.0	6,651.0	1,307.9	964.2	343.69	3.805	
17,000.0	10,136.6	16,781.6	10,130.9	174.6	174.4	-89.76	227.9	6,750.7	1,310.1	961.6	348.48	3.759	
17,100.0	10,137.1	16,881.5	10,135.5	177.0	176.7	-89.94	230.8	6,850.5	1,312.3	959.1	353.27	3.715	
17,200.0	10,137.5	16,981.3	10,140.0	179.4	179.1	-90.12	233.7	6,950.2	1,314.6	956.5	358.06	3.671	
17,300.0	10,138.0	17,081.2	10,144.6	181.8	181.5	-90.29	236.6	7,049.9	1,316.9	954.0	362.84	3.629	
17,400.0	10,138.4	17,181.1	10,149.2	184.2	183.9	-90.47	239.5	7,149.7	1,319.1	951.5	367.63	3.588	
17,411.2	10,138.5	17,192.3	10,149.7	184.4	184.2	-90.49	239.8	7,160.9	1,319.4	951.2	368.17	3.584	
17,411.8	10,138.5	17,192.9	10,149.7	184.5	184.2	-90.49	239.9	7,161.4	1,319.4	951.2	368.19	3.584	

Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

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

Coordinates are relative to: Barry Miller State Com #222H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°



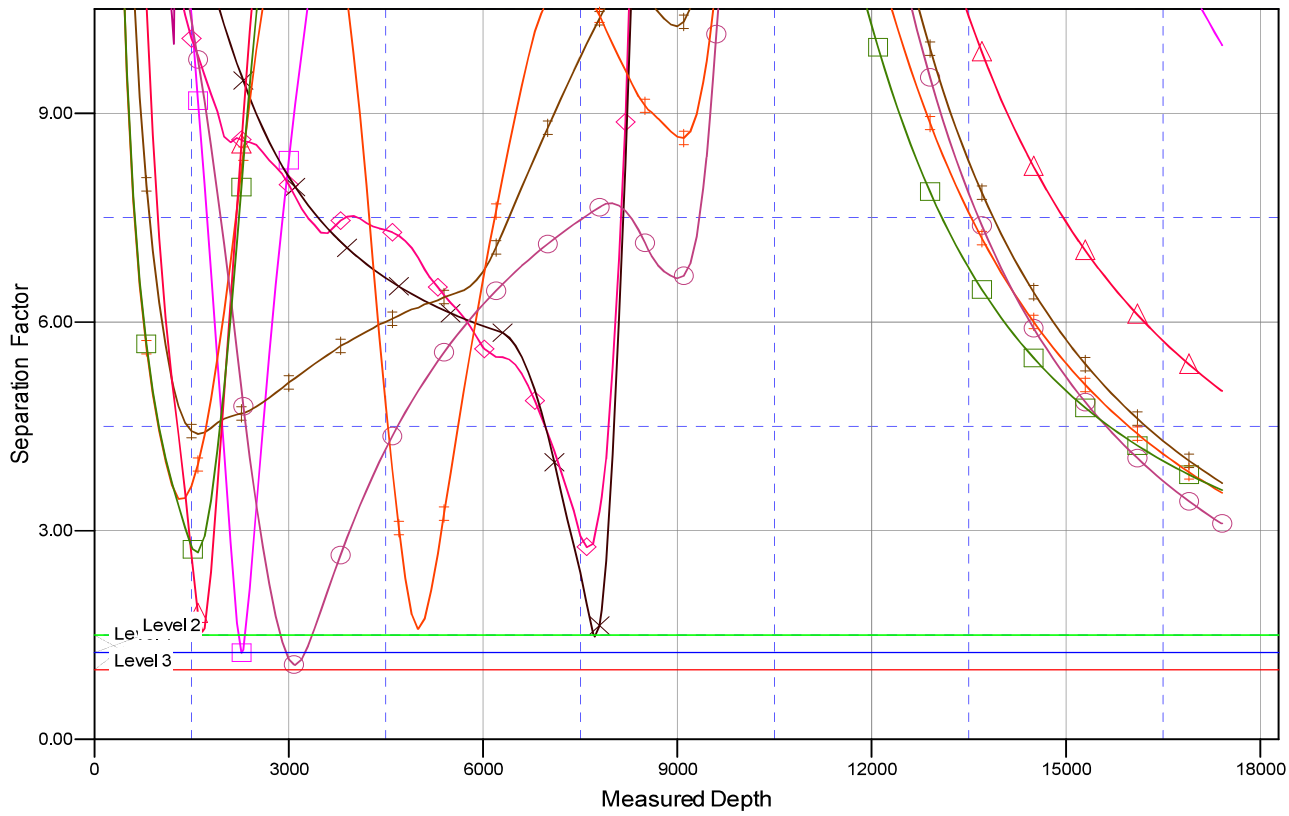
Anticollision Report

Company:	Matador Production Company	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Project:	Rustler Breaks	**TVD Reference:**	KB @ 3113.5usft
Reference Site:	Barry Miller	**MD Reference:**	KB @ 3113.5usft
Site Error:	0.0 usft	**North Reference:**	Grid
Reference Well:	Barry Miller State Com #222H	**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:	BLM Plan #1	**Offset TVD Reference:**	Offset Datum

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

Coordinates are relative to: Barry Miller State Com #222H
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Grid Convergence at Surface is: 0.13°

Separation Factor Plot



LEGEND

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

Matador Production Company

Rustler Breaks
Barry Miller
Barry Miller State Com #222H

Wellbore #1

Plan: BLM Plan #1

Standard Planning Report

19 July, 2023

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Project Rustler Breaks,

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

Site Barry Miller

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

Well Barry Miller State Com #222H

Well Position	**+N/-S**	0.2 usft	**Northing:**	508,441.00 usft	**Latitude:**	32° 23' 51.365 N
	+E/-W	29.8 usft	**Easting:**	572,229.00 usft	**Longitude:**	104° 5' 57.543 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,085.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/19/2023	6.55	60.06	47,362.56805736

Design BLM Plan #1

Audit Notes:

Version:	1	**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	89.60

Plan Survey Tool Program **Date** 7/19/2023

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,411.2	BLM Plan #1 (Wellbore #1)	MWD	
				OWSG MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,269.4	10.69	200.01	2,263.2	-93.5	-34.0	1.00	1.00	0.00	200.01	
7,833.5	10.69	200.01	7,730.7	-1,063.7	-387.3	0.00	0.00	0.00	0.00	
8,546.5	0.00	0.00	8,439.5	-1,126.0	-410.0	1.50	-1.50	0.00	180.00	
9,446.5	0.00	0.00	9,339.5	-1,126.0	-410.0	0.00	0.00	0.00	0.00	VP - Barry Miller Fed
10,106.5	66.00	89.75	9,862.9	-1,124.6	-70.1	10.00	10.00	0.00	89.75	
11,293.4	89.74	89.63	10,110.6	-1,118.3	1,082.0	2.00	2.00	-0.01	-0.29	
17,411.2	89.74	89.63	10,138.5	-1,078.9	7,199.7	0.00	0.00	0.00	0.00	BHL - Barry Miller Fec

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
140.4	0.00	0.00	140.4	0.0	0.0	0.0	0.00	0.00	0.00
Z (Rustler)									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
429.2	0.00	0.00	429.2	0.0	0.0	0.0	0.00	0.00	0.00
Z (Salado)									
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
742.9	0.00	0.00	742.9	0.0	0.0	0.0	0.00	0.00	0.00
Z (Castile (T))									
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.00									
1,300.0	1.00	200.01	1,300.0	-0.8	-0.3	-0.3	1.00	1.00	0.00
1,400.0	2.00	200.01	1,400.0	-3.3	-1.2	-1.2	1.00	1.00	0.00
1,500.0	3.00	200.01	1,499.9	-7.4	-2.7	-2.7	1.00	1.00	0.00
1,600.0	4.00	200.01	1,599.7	-13.1	-4.8	-4.9	1.00	1.00	0.00
1,700.0	5.00	200.01	1,699.4	-20.5	-7.5	-7.6	1.00	1.00	0.00
1,800.0	6.00	200.01	1,798.9	-29.5	-10.7	-10.9	1.00	1.00	0.00
1,900.0	7.00	200.01	1,898.3	-40.1	-14.6	-14.9	1.00	1.00	0.00
2,000.0	8.00	200.01	1,997.4	-52.4	-19.1	-19.4	1.00	1.00	0.00
2,100.0	9.00	200.01	2,096.3	-66.3	-24.1	-24.6	1.00	1.00	0.00
2,200.0	10.00	200.01	2,194.9	-81.8	-29.8	-30.4	1.00	1.00	0.00
2,269.4	10.69	200.01	2,263.2	-93.5	-34.0	-34.7	1.00	1.00	0.00
Start 5564.1 hold at 2269.4 MD									
2,300.0	10.69	200.01	2,293.3	-98.8	-36.0	-36.7	0.00	0.00	0.00
2,400.0	10.69	200.01	2,391.5	-116.3	-42.3	-43.1	0.00	0.00	0.00
2,500.0	10.69	200.01	2,489.8	-133.7	-48.7	-49.6	0.00	0.00	0.00
2,505.8	10.69	200.01	2,495.5	-134.7	-49.1	-50.0	0.00	0.00	0.00
Z (G30:CS14-CSB)									
2,577.9	10.69	200.01	2,566.4	-147.3	-53.6	-54.7	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
2,600.0	10.69	200.01	2,588.1	-151.2	-55.0	-56.1	0.00	0.00	0.00
2,700.0	10.69	200.01	2,686.3	-168.6	-61.4	-62.6	0.00	0.00	0.00
2,800.0	10.69	200.01	2,784.6	-186.0	-67.7	-69.0	0.00	0.00	0.00
2,900.0	10.69	200.01	2,882.8	-203.5	-74.1	-75.5	0.00	0.00	0.00
3,000.0	10.69	200.01	2,981.1	-220.9	-80.4	-82.0	0.00	0.00	0.00
3,100.0	10.69	200.01	3,079.4	-238.3	-86.8	-88.4	0.00	0.00	0.00
3,200.0	10.69	200.01	3,177.6	-255.8	-93.1	-94.9	0.00	0.00	0.00
3,300.0	10.69	200.01	3,275.9	-273.2	-99.5	-101.4	0.00	0.00	0.00
3,400.0	10.69	200.01	3,374.2	-290.6	-105.8	-107.9	0.00	0.00	0.00
3,427.3	10.69	200.01	3,401.0	-295.4	-107.6	-109.6	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
3,500.0	10.69	200.01	3,472.4	-308.1	-112.2	-114.3	0.00	0.00	0.00
3,600.0	10.69	200.01	3,570.7	-325.5	-118.5	-120.8	0.00	0.00	0.00
3,700.0	10.69	200.01	3,669.0	-343.0	-124.9	-127.3	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.0	10.69	200.01	3,767.2	-360.4	-131.2	-133.7	0.00	0.00	0.00
3,900.0	10.69	200.01	3,865.5	-377.8	-137.6	-140.2	0.00	0.00	0.00
4,000.0	10.69	200.01	3,963.7	-395.3	-143.9	-146.7	0.00	0.00	0.00
4,100.0	10.69	200.01	4,062.0	-412.7	-150.3	-153.2	0.00	0.00	0.00
4,200.0	10.69	200.01	4,160.3	-430.1	-156.6	-159.6	0.00	0.00	0.00
4,300.0	10.69	200.01	4,258.5	-447.6	-163.0	-166.1	0.00	0.00	0.00
4,400.0	10.69	200.01	4,356.8	-465.0	-169.3	-172.6	0.00	0.00	0.00
4,500.0	10.69	200.01	4,455.1	-482.5	-175.7	-179.0	0.00	0.00	0.00
4,600.0	10.69	200.01	4,553.3	-499.9	-182.0	-185.5	0.00	0.00	0.00
4,636.2	10.69	200.01	4,588.9	-506.2	-184.3	-187.8	0.00	0.00	0.00
Z (G7: Brushy Cyn.)									
4,700.0	10.69	200.01	4,651.6	-517.3	-188.4	-192.0	0.00	0.00	0.00
4,800.0	10.69	200.01	4,749.8	-534.8	-194.7	-198.4	0.00	0.00	0.00
4,900.0	10.69	200.01	4,848.1	-552.2	-201.1	-204.9	0.00	0.00	0.00
5,000.0	10.69	200.01	4,946.4	-569.6	-207.4	-211.4	0.00	0.00	0.00
5,100.0	10.69	200.01	5,044.6	-587.1	-213.8	-217.9	0.00	0.00	0.00
5,200.0	10.69	200.01	5,142.9	-604.5	-220.1	-224.3	0.00	0.00	0.00
5,300.0	10.69	200.01	5,241.2	-621.9	-226.5	-230.8	0.00	0.00	0.00
5,400.0	10.69	200.01	5,339.4	-639.4	-232.8	-237.3	0.00	0.00	0.00
5,500.0	10.69	200.01	5,437.7	-656.8	-239.2	-243.7	0.00	0.00	0.00
5,600.0	10.69	200.01	5,536.0	-674.3	-245.5	-250.2	0.00	0.00	0.00
5,700.0	10.69	200.01	5,634.2	-691.7	-251.9	-256.7	0.00	0.00	0.00
5,800.0	10.69	200.01	5,732.5	-709.1	-258.2	-263.2	0.00	0.00	0.00
5,900.0	10.69	200.01	5,830.7	-726.6	-264.6	-269.6	0.00	0.00	0.00
6,000.0	10.69	200.01	5,929.0	-744.0	-270.9	-276.1	0.00	0.00	0.00
6,038.6	10.69	200.01	5,966.9	-750.7	-273.4	-278.6	0.00	0.00	0.00
Z (G4: BSGL (CS9))									
6,100.0	10.69	200.01	6,027.3	-761.4	-277.3	-282.6	0.00	0.00	0.00
6,200.0	10.69	200.01	6,125.5	-778.9	-283.6	-289.0	0.00	0.00	0.00
6,300.0	10.69	200.01	6,223.8	-796.3	-290.0	-295.5	0.00	0.00	0.00
6,400.0	10.69	200.01	6,322.1	-813.7	-296.3	-302.0	0.00	0.00	0.00
6,500.0	10.69	200.01	6,420.3	-831.2	-302.7	-308.4	0.00	0.00	0.00
6,510.8	10.69	200.01	6,431.0	-833.1	-303.3	-309.1	0.00	0.00	0.00
Z (L8.2: U. Avalon Shale)									
6,600.0	10.69	200.01	6,518.6	-848.6	-309.0	-314.9	0.00	0.00	0.00
6,630.4	10.69	200.01	6,548.4	-853.9	-310.9	-316.9	0.00	0.00	0.00
Z (L6.3: Avalon Carb)									
6,674.3	10.69	200.01	6,591.6	-861.6	-313.7	-319.7	0.00	0.00	0.00
Z (L6.2: L. Avalon Shale)									
6,700.0	10.69	200.01	6,616.8	-866.1	-315.4	-321.4	0.00	0.00	0.00
6,765.5	10.69	200.01	6,681.2	-877.5	-319.5	-325.6	0.00	0.00	0.00
Z (L5.3: FBSC)									
6,800.0	10.69	200.01	6,715.1	-883.5	-321.7	-327.9	0.00	0.00	0.00
6,900.0	10.69	200.01	6,813.4	-900.9	-328.0	-334.3	0.00	0.00	0.00
7,000.0	10.69	200.01	6,911.6	-918.4	-334.4	-340.8	0.00	0.00	0.00
7,077.5	10.69	200.01	6,987.8	-931.9	-339.3	-345.8	0.00	0.00	0.00
Z (L5.1: FBSG)									
7,100.0	10.69	200.01	7,009.9	-935.8	-340.7	-347.3	0.00	0.00	0.00
7,139.2	10.69	200.01	7,048.4	-942.6	-343.2	-349.8	0.00	0.00	0.00
Z (M. FBSG)									
7,200.0	10.69	200.01	7,108.2	-953.2	-347.1	-353.7	0.00	0.00	0.00
7,291.3	10.69	200.01	7,197.9	-969.2	-352.9	-359.7	0.00	0.00	0.00
Z (L. FBSG)									

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,300.0	10.69	200.01	7,206.4	-970.7	-353.4	-360.2	0.00	0.00	0.00
7,351.4	10.69	200.01	7,256.9	-979.6	-356.7	-363.5	0.00	0.00	0.00
Z (L4.3: SBSC)									
7,400.0	10.69	200.01	7,304.7	-988.1	-359.8	-366.7	0.00	0.00	0.00
7,500.0	10.69	200.01	7,403.0	-1,005.6	-366.1	-373.2	0.00	0.00	0.00
7,600.0	10.69	200.01	7,501.2	-1,023.0	-372.5	-379.6	0.00	0.00	0.00
7,700.0	10.69	200.01	7,599.5	-1,040.4	-378.8	-386.1	0.00	0.00	0.00
7,782.6	10.69	200.01	7,680.7	-1,054.8	-384.1	-391.4	0.00	0.00	0.00
Z (L4.1: SBSG)									
7,800.0	10.69	200.01	7,697.7	-1,057.9	-385.2	-392.6	0.00	0.00	0.00
7,833.5	10.69	200.01	7,730.7	-1,063.7	-387.3	-394.7	0.00	0.00	0.00
Start Drop -1.50									
7,900.0	9.70	200.01	7,796.1	-1,074.8	-391.3	-398.8	1.50	-1.50	0.00
7,955.8	8.86	200.01	7,851.2	-1,083.2	-394.4	-402.0	1.50	-1.50	0.00
Z (L4.1: SBSG B Carb)									
8,000.0	8.20	200.01	7,894.9	-1,089.4	-396.7	-404.3	1.50	-1.50	0.00
8,042.4	7.56	200.01	7,936.9	-1,094.8	-398.7	-406.3	1.50	-1.50	0.00
Z (SBSG B Target)									
8,098.7	6.72	200.01	7,992.8	-1,101.4	-401.0	-408.7	1.50	-1.50	0.00
Z (L4.1: SBSG C)									
8,100.0	6.70	200.01	7,994.0	-1,101.6	-401.1	-408.8	1.50	-1.50	0.00
8,120.6	6.39	200.01	8,014.5	-1,103.8	-401.9	-409.6	1.50	-1.50	0.00
Z (L3.3: TBSC)									
8,200.0	5.20	200.01	8,093.5	-1,111.3	-404.6	-412.4	1.50	-1.50	0.00
8,300.0	3.70	200.01	8,193.2	-1,118.6	-407.3	-415.1	1.50	-1.50	0.00
8,400.0	2.20	200.01	8,293.1	-1,123.4	-409.1	-416.9	1.50	-1.50	0.00
8,500.0	0.70	200.01	8,393.0	-1,125.8	-409.9	-417.8	1.50	-1.50	0.00
8,530.5	0.24	200.01	8,423.6	-1,126.0	-410.0	-417.9	1.50	-1.50	0.00
Z (L3.3.2: Break Sand (T))									
8,546.5	0.00	0.00	8,439.5	-1,126.0	-410.0	-417.9	1.50	-1.50	0.00
Start 900.0 hold at 8546.5 MD									
8,600.0	0.00	0.00	8,493.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,593.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,693.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,793.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,893.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
9,060.3	0.00	0.00	8,953.3	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
Z (L3.1: TBSG)									
9,100.0	0.00	0.00	8,993.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,093.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,193.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
9,349.0	0.00	0.00	9,242.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
Z (L. TBSG)									
9,378.8	0.00	0.00	9,271.9	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
Z (L2: WFMP A)									
9,400.0	0.00	0.00	9,293.0	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
9,446.5	0.00	0.00	9,339.5	-1,126.0	-410.0	-417.9	0.00	0.00	0.00
Start Build 10.00 - VP - Barry Miller Fed Com #222H									
9,450.0	0.35	89.75	9,343.0	-1,126.0	-410.0	-417.9	10.00	10.00	0.00
9,500.0	5.35	89.75	9,393.0	-1,126.0	-407.5	-415.4	10.00	10.00	0.00
9,518.0	7.15	89.75	9,410.8	-1,126.0	-405.6	-413.4	10.00	10.00	0.00
Z (WFMP A Fat)									

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,550.0	10.35	89.75	9,442.5	-1,126.0	-400.7	-408.5	10.00	10.00	0.00
9,600.0	15.35	89.75	9,491.2	-1,126.0	-389.6	-397.4	10.00	10.00	0.00
9,650.0	20.35	89.75	9,538.8	-1,125.9	-374.2	-382.1	10.00	10.00	0.00
9,700.0	25.35	89.75	9,584.8	-1,125.8	-354.8	-362.7	10.00	10.00	0.00
9,750.0	30.35	89.75	9,629.0	-1,125.7	-331.5	-339.3	10.00	10.00	0.00
9,753.9	30.74	89.75	9,632.4	-1,125.7	-329.5	-337.4	10.00	10.00	0.00
Z (WFMP B)									
9,800.0	35.35	89.75	9,671.0	-1,125.6	-304.4	-312.2	10.00	10.00	0.00
9,848.9	40.24	89.75	9,709.6	-1,125.5	-274.4	-282.3	10.00	10.00	0.00
Z (WFMP B.1)									
9,850.0	40.35	89.75	9,710.5	-1,125.5	-273.7	-281.5	10.00	10.00	0.00
9,900.0	45.35	89.75	9,747.1	-1,125.3	-239.7	-247.6	10.00	10.00	0.00
9,911.2	46.47	89.75	9,754.9	-1,125.3	-231.7	-239.5	10.00	10.00	0.00
Z (WFMP B.2)									
9,950.0	50.35	89.75	9,780.7	-1,125.1	-202.6	-210.5	10.00	10.00	0.00
10,000.0	55.35	89.75	9,810.9	-1,125.0	-162.8	-170.7	10.00	10.00	0.00
10,050.0	60.35	89.75	9,837.5	-1,124.8	-120.5	-128.3	10.00	10.00	0.00
10,076.9	63.04	89.75	9,850.2	-1,124.7	-96.8	-104.7	10.00	10.00	0.00
FTP - Barry Miller Fed Com #222H									
10,082.5	63.60	89.75	9,852.7	-1,124.7	-91.8	-99.6	10.00	10.00	0.00
Z (Blair Shale)									
10,086.2	63.98	89.75	9,854.4	-1,124.6	-88.4	-96.3	10.00	10.00	0.00
Z (WFMP B.4)									
10,100.0	65.35	89.75	9,860.3	-1,124.6	-76.0	-83.9	10.00	10.00	0.00
10,106.5	66.00	89.75	9,862.9	-1,124.6	-70.1	-78.0	10.00	10.00	0.00
Start DLS 2.00 TFO -0.29									
10,139.8	66.67	89.75	9,876.3	-1,124.4	-39.6	-47.5	2.00	2.00	-0.01
Z (WFMP B.3)									
10,200.0	67.87	89.74	9,899.6	-1,124.2	15.9	8.1	2.00	2.00	-0.01
10,300.0	69.87	89.73	9,935.6	-1,123.8	109.2	101.4	2.00	2.00	-0.01
10,400.0	71.87	89.72	9,968.4	-1,123.3	203.7	195.8	2.00	2.00	-0.01
10,500.0	73.87	89.71	9,997.8	-1,122.8	299.2	291.4	2.00	2.00	-0.01
10,600.0	75.87	89.70	10,023.9	-1,122.3	395.8	387.9	2.00	2.00	-0.01
10,700.0	77.87	89.69	10,046.6	-1,121.8	493.1	485.3	2.00	2.00	-0.01
10,800.0	79.87	89.68	10,065.9	-1,121.3	591.3	583.4	2.00	2.00	-0.01
10,900.0	81.87	89.67	10,081.8	-1,120.7	690.0	682.1	2.00	2.00	-0.01
11,000.0	83.87	89.66	10,094.2	-1,120.1	789.2	781.4	2.00	2.00	-0.01
11,100.0	85.87	89.65	10,103.2	-1,119.5	888.8	881.0	2.00	2.00	-0.01
11,200.0	87.87	89.64	10,108.6	-1,118.9	988.6	980.8	2.00	2.00	-0.01
11,293.4	89.74	89.63	10,110.6	-1,118.3	1,082.0	1,074.2	2.00	2.00	-0.01
Start 6117.8 hold at 11293.4 MD									
11,300.0	89.74	89.63	10,110.6	-1,118.3	1,088.6	1,080.8	0.00	0.00	0.00
11,400.0	89.74	89.63	10,111.1	-1,117.6	1,188.6	1,180.8	0.00	0.00	0.00
11,500.0	89.74	89.63	10,111.5	-1,117.0	1,288.6	1,280.8	0.00	0.00	0.00
11,600.0	89.74	89.63	10,112.0	-1,116.3	1,388.6	1,380.8	0.00	0.00	0.00
11,700.0	89.74	89.63	10,112.4	-1,115.7	1,488.6	1,480.8	0.00	0.00	0.00
11,800.0	89.74	89.63	10,112.9	-1,115.0	1,588.6	1,580.8	0.00	0.00	0.00
11,900.0	89.74	89.63	10,113.3	-1,114.4	1,688.6	1,680.8	0.00	0.00	0.00
12,000.0	89.74	89.63	10,113.8	-1,113.7	1,788.6	1,780.8	0.00	0.00	0.00
12,100.0	89.74	89.63	10,114.3	-1,113.1	1,888.6	1,880.8	0.00	0.00	0.00
12,200.0	89.74	89.63	10,114.7	-1,112.5	1,988.6	1,980.8	0.00	0.00	0.00
12,300.0	89.74	89.63	10,115.2	-1,111.8	2,088.6	2,080.8	0.00	0.00	0.00
12,400.0	89.74	89.63	10,115.6	-1,111.2	2,188.6	2,180.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,500.0	89.74	89.63	10,116.1	-1,110.5	2,288.6	2,280.8	0.00	0.00	0.00
12,600.0	89.74	89.63	10,116.5	-1,109.9	2,388.6	2,380.8	0.00	0.00	0.00
12,700.0	89.74	89.63	10,117.0	-1,109.2	2,488.6	2,480.8	0.00	0.00	0.00
12,800.0	89.74	89.63	10,117.4	-1,108.6	2,588.6	2,580.8	0.00	0.00	0.00
12,900.0	89.74	89.63	10,117.9	-1,108.0	2,688.6	2,680.8	0.00	0.00	0.00
13,000.0	89.74	89.63	10,118.4	-1,107.3	2,788.6	2,780.8	0.00	0.00	0.00
13,100.0	89.74	89.63	10,118.8	-1,106.7	2,888.6	2,880.8	0.00	0.00	0.00
13,200.0	89.74	89.63	10,119.3	-1,106.0	2,988.6	2,980.8	0.00	0.00	0.00
13,300.0	89.74	89.63	10,119.7	-1,105.4	3,088.6	3,080.8	0.00	0.00	0.00
13,400.0	89.74	89.63	10,120.2	-1,104.7	3,188.6	3,180.8	0.00	0.00	0.00
13,500.0	89.74	89.63	10,120.6	-1,104.1	3,288.6	3,280.8	0.00	0.00	0.00
13,600.0	89.74	89.63	10,121.1	-1,103.5	3,388.5	3,380.8	0.00	0.00	0.00
13,700.0	89.74	89.63	10,121.6	-1,102.8	3,488.5	3,480.8	0.00	0.00	0.00
13,800.0	89.74	89.63	10,122.0	-1,102.2	3,588.5	3,580.8	0.00	0.00	0.00
13,900.0	89.74	89.63	10,122.5	-1,101.5	3,688.5	3,680.8	0.00	0.00	0.00
14,000.0	89.74	89.63	10,122.9	-1,100.9	3,788.5	3,780.8	0.00	0.00	0.00
14,100.0	89.74	89.63	10,123.4	-1,100.2	3,888.5	3,880.8	0.00	0.00	0.00
14,200.0	89.74	89.63	10,123.8	-1,099.6	3,988.5	3,980.8	0.00	0.00	0.00
14,300.0	89.74	89.63	10,124.3	-1,099.0	4,088.5	4,080.8	0.00	0.00	0.00
14,400.0	89.74	89.63	10,124.8	-1,098.3	4,188.5	4,180.8	0.00	0.00	0.00
14,500.0	89.74	89.63	10,125.2	-1,097.7	4,288.5	4,280.8	0.00	0.00	0.00
14,600.0	89.74	89.63	10,125.7	-1,097.0	4,388.5	4,380.8	0.00	0.00	0.00
14,700.0	89.74	89.63	10,126.1	-1,096.4	4,488.5	4,480.7	0.00	0.00	0.00
14,800.0	89.74	89.63	10,126.6	-1,095.7	4,588.5	4,580.7	0.00	0.00	0.00
14,900.0	89.74	89.63	10,127.0	-1,095.1	4,688.5	4,680.7	0.00	0.00	0.00
15,000.0	89.74	89.63	10,127.5	-1,094.5	4,788.5	4,780.7	0.00	0.00	0.00
15,100.0	89.74	89.63	10,127.9	-1,093.8	4,888.5	4,880.7	0.00	0.00	0.00
15,200.0	89.74	89.63	10,128.4	-1,093.2	4,988.5	4,980.7	0.00	0.00	0.00
15,300.0	89.74	89.63	10,128.9	-1,092.5	5,088.5	5,080.7	0.00	0.00	0.00
15,400.0	89.74	89.63	10,129.3	-1,091.9	5,188.5	5,180.7	0.00	0.00	0.00
15,500.0	89.74	89.63	10,129.8	-1,091.2	5,288.5	5,280.7	0.00	0.00	0.00
15,600.0	89.74	89.63	10,130.2	-1,090.6	5,388.5	5,380.7	0.00	0.00	0.00
15,700.0	89.74	89.63	10,130.7	-1,090.0	5,488.5	5,480.7	0.00	0.00	0.00
15,800.0	89.74	89.63	10,131.1	-1,089.3	5,588.5	5,580.7	0.00	0.00	0.00
15,900.0	89.74	89.63	10,131.6	-1,088.7	5,688.5	5,680.7	0.00	0.00	0.00
16,000.0	89.74	89.63	10,132.1	-1,088.0	5,788.5	5,780.7	0.00	0.00	0.00
16,100.0	89.74	89.63	10,132.5	-1,087.4	5,888.5	5,880.7	0.00	0.00	0.00
16,200.0	89.74	89.63	10,133.0	-1,086.7	5,988.5	5,980.7	0.00	0.00	0.00
16,300.0	89.74	89.63	10,133.4	-1,086.1	6,088.5	6,080.7	0.00	0.00	0.00
16,400.0	89.74	89.63	10,133.9	-1,085.5	6,188.5	6,180.7	0.00	0.00	0.00
16,500.0	89.74	89.63	10,134.3	-1,084.8	6,288.5	6,280.7	0.00	0.00	0.00
16,600.0	89.74	89.63	10,134.8	-1,084.2	6,388.5	6,380.7	0.00	0.00	0.00
16,700.0	89.74	89.63	10,135.3	-1,083.5	6,488.5	6,480.7	0.00	0.00	0.00
16,800.0	89.74	89.63	10,135.7	-1,082.9	6,588.4	6,580.7	0.00	0.00	0.00
16,900.0	89.74	89.63	10,136.2	-1,082.2	6,688.4	6,680.7	0.00	0.00	0.00
17,000.0	89.74	89.63	10,136.6	-1,081.6	6,788.4	6,780.7	0.00	0.00	0.00
17,100.0	89.74	89.63	10,137.1	-1,081.0	6,888.4	6,880.7	0.00	0.00	0.00
17,200.0	89.74	89.63	10,137.5	-1,080.3	6,988.4	6,980.7	0.00	0.00	0.00
17,300.0	89.74	89.63	10,138.0	-1,079.7	7,088.4	7,080.7	0.00	0.00	0.00
17,400.0	89.74	89.63	10,138.4	-1,079.0	7,188.4	7,180.7	0.00	0.00	0.00
17,411.2	89.74	89.63	10,138.5	-1,078.9	7,199.7	7,192.0	0.00	0.00	0.00
TD at 17411.2 - BHL - Barry Miller Fed Com #222H									

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VP - Barry Miller Fed Co - plan hits target center - Point	0.00	0.00	9,339.5	-1,126.0	-410.0	507,315.00	571,819.00	32° 23' 40.231 N	104° 6' 2.353 W
FTP - Barry Miller Fed C - plan misses target center by 70.6usft at 10076.9usft MD (9850.2 TVD, -1124.7 N, -96.8 E) - Point	0.00	0.00	9,912.5	-1,126.0	-130.0	507,315.00	572,099.00	32° 23' 40.225 N	104° 5' 59.088 W
BHL - Barry Miller Fed C - plan hits target center - Point	0.00	0.00	10,138.5	-1,078.9	7,199.7	507,362.00	579,429.00	32° 23' 40.524 N	104° 4' 33.595 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
140.4	140.4	Z (Rustler)		0.18	89.60
429.2	429.2	Z (Salado)		0.18	89.60
742.9	742.9	Z (Castile (T))		0.18	89.60
2,505.8	2,495.5	Z (G30:CS14-CSB)		0.18	89.60
2,577.9	2,566.4	Z (G26: Bell Cyn.)		0.18	89.60
3,427.3	3,401.0	Z (G13: Cherry Cyn.)		0.18	89.60
4,636.2	4,588.9	Z (G7: Brushy Cyn.)		0.18	89.60
6,038.6	5,966.9	Z (G4: BSGL (CS9))		0.18	89.60
6,510.8	6,431.0	Z (L8.2: U. Avalon Shale)		0.18	89.60
6,630.4	6,548.4	Z (L6.3: Avalon Carb)		0.18	89.60
6,674.3	6,591.6	Z (L6.2: L. Avalon Shale)		0.18	89.60
6,765.5	6,681.2	Z (L5.3: FBSC)		0.18	89.60
7,077.5	6,987.8	Z (L5.1: FBSG)		0.18	89.60
7,139.2	7,048.4	Z (M. FBSG)		0.18	89.60
7,291.3	7,197.9	Z (L. FBSG)		0.18	89.60
7,351.4	7,256.9	Z (L4.3: SBSC)		0.18	89.60
7,782.6	7,680.7	Z (L4.1: SBSG)		0.18	89.60
7,955.8	7,851.2	Z (L4.1: SBSG B Carb)		0.18	89.60
8,042.4	7,936.9	Z (SBSG B Target)		0.18	89.60
8,098.7	7,992.8	Z (L4.1: SBSG C)		0.18	89.60
8,120.6	8,014.5	Z (L3.3: TBSC)		0.18	89.60
8,530.5	8,423.6	Z (L3.3.2: Break Sand (T))		0.18	89.60
9,060.3	8,953.3	Z (L3.1: TBSG)		0.18	89.60
9,349.0	9,242.0	Z (L. TBSG)		0.18	89.60
9,378.8	9,271.9	Z (L2: WFMP A)		0.18	89.60
9,518.0	9,410.8	Z (WFMP A Fat)		0.18	89.60
9,753.9	9,632.4	Z (WFMP B)		0.18	89.60
9,848.9	9,709.6	Z (WFMP B.1)		0.18	89.60
9,911.2	9,754.9	Z (WFMP B.2)		0.18	89.60
10,082.5	9,852.7	Z (Blair Shale)		0.18	89.60
10,086.2	9,854.4	Z (WFMP B.4)		0.18	89.60
10,139.8	9,876.3	Z (WFMP B.3)		0.18	89.60

Planning Report

Database:	EDM 5000.14 Server	**Local Co-ordinate Reference:**	Well Barry Miller State Com #222H
Company:	Matador Production Company	**TVD Reference:**	KB @ 3113.5usft
Project:	Rustler Breaks	**MD Reference:**	KB @ 3113.5usft
Site:	Barry Miller	**North Reference:**	Grid
Well:	Barry Miller State Com #222H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	BLM Plan #1		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,200.0	1,200.0	0.0	0.0	Start Build 1.00
2,269.4	2,263.2	-93.5	-34.0	Start 5564.1 hold at 2269.4 MD
7,833.5	7,730.7	-1,063.7	-387.3	Start Drop -1.50
8,546.5	8,439.5	-1,126.0	-410.0	Start 900.0 hold at 8546.5 MD
9,446.5	9,339.5	-1,126.0	-410.0	Start Build 10.00
10,106.5	9,862.9	-1,124.6	-70.1	Start DLS 2.00 TFO -0.29
11,293.4	10,110.6	-1,118.3	1,082.0	Start 6117.8 hold at 11293.4 MD
17,411.2	10,138.5	-1,078.9	7,199.7	TD at 17411.2

Addendum to Natural Gas Management Plan for Matador's

Michael Ryan TB

VI. Separation Equipment

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

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

VII. Operation Practices

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

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

VII. Best Management Practices

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

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

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description
Effective May 25, 2021

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

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

If Other, please describe: _____

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

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

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

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

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

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

Section 4 - Notices

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

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

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

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

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

Signature: Omar Enriquez Digitally signed by Omar Enriquez DN: cn=Omar Enriquez, o, ou, email=oenriquez@matadorresources.com, c=US Date: 2025.07.26 15:44:16 -05'00'
Printed Name: Omar Enriquez
Title: Sr. Production Engineer
E-mail Address: oenriquez@matadorresources.com
Date: 07/26/2025
Phone: (972) 587-4638

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval: