

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 340833

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

1. Operator Name and Address MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240		2. OGRID Number 228937
		3. API Number 30-015-53833
4. Property Code 332102	5. Property Name DR ELLIS	6. Well No. 133H

7. Surface Location

UL - Lot P	Section 14	Township 24S	Range 28E	Lot Idn	Feet From 1017	N/S Line S	Feet From 758	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot I	Section 18	Township 24S	Range 29E	Lot Idn I	Feet From 1659	N/S Line S	Feet From 110	E/W Line E	County Eddy
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9. Pool Information

PIERCE CROSSING;BONE SPRING	50371
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 2978
16. Multiple N	17. Proposed Depth 18964	18. Formation Bone Spring	19. Contractor	20. Spud Date 3/21/2024
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	605	525	0
Int1	9.875	7.625	29.7	8116	1350	0
Prod	6.75	5.5	20	18964	810	7916

Casing/Cement Program: Additional Comments

Option to drill surface hole with surface setting rig. Option to set DV/Packer. Volumes will be adjusted for 2 stage job.

22. Proposed Blowout Prevention Program

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

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Brett A Jennings	Approved By: Ward Rikala	
Title: Regulatory Analyst	Title:	
Email Address: brett.jennings@matadorresources.com	Approved Date: 6/2/2023	Expiration Date: 6/2/2025
Date: 5/23/2023	Phone: 972-629-2160	Conditions of Approval Attached

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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 C-102

August 1, 2011

Permit 340833

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-53833	2. Pool Code 50371	3. Pool Name PIERCE CROSSING;BONE SPRING
4. Property Code 332102	5. Property Name DR ELLIS	6. Well No. 133H
7. OGRID No. 228937	8. Operator Name MATADOR PRODUCTION COMPANY	9. Elevation 2978

10. Surface Location

UL - Lot P	Section 14	Township 24S	Range 28E	Lot Idn	Feet From 1017	N/S Line S	Feet From 758	E/W Line E	County Eddy
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11. Bottom Hole Location If Different From Surface

UL - Lot P	Section 13	Township 24S	Range 28E	Lot Idn	Feet From 1650	N/S Line S	Feet From 100	E/W Line E	County Eddy
12. Dedicated Acres 319.76	13. Joint or Infill	14. Consolidation Code	15. Order No.						

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

	OPERATOR CERTIFICATION <i>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(s) 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.</i> E-Signed By: Brett A Jennings Title: Regulatory Analyst Date: 5/23/2023
	SURVEYOR CERTIFICATION <i>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 and correct to the best of my belief.</i> Surveyed By: Michael Brown Date of Survey: 12/29/2022 Certificate Number: 18329

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Form APD Comments

Permit 340833

PERMIT COMMENTS

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240		API Number: 30-015-53833
		Well: DR ELLIS #133H
Created By	Comment	Comment Date
ekosakowski	Surface location is in section 14. First Perforation Point is in Seciton 13. Bottom Hole Location is in Section 18.	5/23/2023

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Santa Fe, NM 87505

Form APD Conditions

Permit 340833

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MATADOR PRODUCTION COMPANY [228937] One Lincoln Centre Dallas, TX 75240	API Number: 30-015-53833
	Well: DR ELLIS #133H

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

Addendum to Natural Gas Management Plan for Matador's

Dr. Ellis 133H

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
Dr. Ellis 133H	1,920	4,211	6,000

VII. Operation Practices

Although not a complete recitation of all our efforts to comply with a subsection A through F of 19.15.27.8 NMAC, a summary is as follows. During drilling, Matador will have a properly sized flare stack at least 100 feet from the nearest surface hole. During initial flowback we will route the flowback fluids into completion or storage tanks and, to the extent possible, flare rather than vent any gas. We will commence operation of a separator as soon as technically feasible, and have instructed our team that we want to connect the gas to sales as soon as possible but not later than 30 days after initial flowback.

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

VII. Best Management Practices

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

- Isolating the affected component and reducing pressure through process piping
- Blowing down the equipment being maintained to a control device
- Performing preventative maintenance and minimizing the duration of maintenance activities
- Shutting in sources of supply as possible
- Other steps that are available depending on the maintenance being performed

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Matador Production Company **OGRID:** 228937 **Date:** 05/02/2023

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
Dr. Ellis 133H	TBD	P 14-24S-28E	1017' FSL 758' FEL	1,920	4,211	6,000

IV. Central Delivery Point Name: Tiger 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
Dr. Ellis 133H	TBD	05/21/2024	06/21/2024	07/21/2024	08/21/2024	08/22/2024

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:
Printed Name: Omar Enriquez
Title: Sr. Production Engineer
E-mail Address: oenriquez@matadorresources.com
Date: 05/02/2024
Phone: (972) 587-4638
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Matador Production Company

Rustler Breaks

Dr Ellis

Dr Ellis #133H

Wellbore #1

State Plan #1

Anticollision Report

08 May, 2023

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	5/8/2023		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	18,963.5	State Plan #1 (Wellbore #1)	MWD	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Dr Ellis						
Dr Ellis #113H - Wellbore #2 - State Plan #1	7,196.4	7,111.7	625.1	571.7	11.699	CC
Dr Ellis #113H - Wellbore #2 - State Plan #1	7,200.0	7,114.4	625.1	571.7	11.694	ES
Dr Ellis #113H - Wellbore #2 - State Plan #1	18,963.5	17,700.8	1,438.1	1,154.6	5.072	SF
Dr Ellis #123H - Wellbore #2 - State Plan #1 - On Lease	1,195.4	1,189.7	110.1	101.8	13.292	CC
Dr Ellis #123H - Wellbore #2 - State Plan #1 - On Lease	1,200.0	1,205.8	110.1	101.7	13.171	ES
Dr Ellis #123H - Wellbore #2 - State Plan #1 - On Lease	18,963.5	18,616.8	528.0	177.5	1.507	SF
Dr Ellis #123H - Wellbore #2 - State Plan #2 - Off Lease	1,377.1	1,372.4	104.3	94.7	10.856	CC
Dr Ellis #123H - Wellbore #2 - State Plan #2 - Off Lease	1,400.0	1,405.0	104.4	94.6	10.635	ES
Dr Ellis #123H - Wellbore #2 - State Plan #2 - Off Lease	18,948.5	19,462.2	528.0	170.6	1.477	Level 3, SF
Dr. Lana White						
Dr. Lana White #203H - Wellbore #2 - Actual	13,500.2	8,743.2	489.4	326.6	3.007	CC, ES, SF
Dr. Lana White #217H - Wellbore #2 - Actual	13,597.9	8,761.2	166.5	1.1	1.007	Level 2, CC, ES, SF
Dr. Lana White #217H - Wellbore #2 - Plan #2	13,546.4	8,750.8	154.8	-9.2	0.944	Level 1, CC, ES, SF
Dr. Lana White #223H - Wellbore #2 - Actual	13,549.6	8,745.9	11.4	-153.1	0.069	Level 1, CC, ES, SF
George						
George #113H - Wellbore #2 - Actual	7,485.1	7,694.3	357.4	299.6	6.190	CC, ES, SF
George #114H - Wellbore #3 - Actual	1,600.9	1,608.5	59.7	48.7	5.404	CC, ES
George #114H - Wellbore #3 - Actual	1,700.0	1,706.0	61.6	49.8	5.217	SF
George #114H - Wellbore #3 - Altitude Plan #2	1,611.8	1,619.0	58.3	47.0	5.163	CC, ES
George #114H - Wellbore #3 - Altitude Plan #2	1,700.0	1,705.9	59.8	47.8	4.999	SF
George #114H - Wellbore #3 - Altitude Plan #3 (ST)	1,600.9	1,608.3	59.7	48.5	5.329	CC, ES
George #114H - Wellbore #3 - Altitude Plan #3 (ST)	1,700.0	1,706.0	61.6	49.7	5.148	SF
George #114H - Wellbore #3 - Sidetrack	1,600.9	1,608.5	59.7	48.7	5.404	CC, ES
George #114H - Wellbore #3 - Sidetrack	1,700.0	1,706.0	61.6	49.8	5.217	SF
George #123H - Wellbore #2 - Actual	8,318.7	8,531.0	350.5	286.8	5.501	CC, ES
George #123H - Wellbore #2 - Actual	8,350.0	8,535.4	351.9	287.8	5.487	SF

Offset Design	Dr Ellis - Dr Ellis #113H - Wellbore #2 - State Plan #1											Offset Site Error:	0.0 usft
Survey Program:	0-MWD											Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	0.0	40.71	647.5	557.1	854.2				

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Dr Ellis - Dr Ellis #113H - Wellbore #2 - State Plan #1													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
100.0	100.0	100.0	100.0	0.1	0.1	40.71	647.5	557.1	854.2	853.9	0.26	3,332.606		
200.0	200.0	200.0	200.0	0.5	0.5	40.71	647.5	557.1	854.2	853.2	0.97	877.649		
300.0	300.0	300.0	300.0	0.8	0.8	40.71	647.5	557.1	854.2	852.5	1.69	505.369		
400.0	400.0	400.0	400.0	1.2	1.2	40.71	647.5	557.1	854.2	851.8	2.41	354.850		
500.0	500.0	500.0	500.0	1.6	1.6	40.71	647.5	557.1	854.2	851.0	3.12	273.416		
600.0	599.9	600.1	599.9	1.9	1.9	-11.46	647.5	557.1	849.9	846.1	3.84	221.180		
660.0	659.5	659.5	659.5	2.2	2.1	-11.62	647.5	557.1	843.2	839.0	4.28	196.804		
700.0	699.1	700.9	699.1	2.3	2.3	-11.69	647.5	557.1	837.8	833.2	4.58	182.872		
800.0	798.1	801.9	798.1	2.7	2.6	-11.89	647.5	557.1	824.2	818.9	5.30	155.603		
900.0	897.1	902.9	897.1	3.1	3.0	-12.09	647.5	557.1	810.5	804.5	6.02	134.724		
1,000.0	996.2	996.2	996.2	3.5	3.3	-12.30	647.5	557.1	796.9	790.2	6.71	118.737		
1,100.0	1,095.2	1,075.4	1,075.4	3.9	3.6	-12.49	648.4	557.5	784.5	777.2	7.36	106.589		
1,200.0	1,194.2	1,154.2	1,154.1	4.3	3.9	-12.73	651.3	558.8	774.8	766.8	8.01	96.733		
1,300.0	1,293.3	1,233.3	1,233.1	4.7	4.2	-13.03	656.2	560.9	767.7	759.0	8.66	88.660		
1,400.0	1,392.3	1,312.6	1,312.0	5.1	4.5	-13.36	663.1	563.9	763.3	754.0	9.31	82.012		
1,500.0	1,491.3	1,392.0	1,390.8	5.5	4.8	-13.75	672.0	567.8	761.6	751.6	9.95	76.531		
1,579.0	1,569.5	1,468.7	1,466.8	5.8	5.1	-14.14	681.8	572.0	761.6	751.0	10.52	72.394		
1,600.0	1,590.3	1,489.7	1,487.5	5.9	5.1	-14.25	684.5	573.2	761.6	750.9	10.67	71.352		
1,700.0	1,689.4	1,589.4	1,586.3	6.3	5.5	-14.77	697.2	578.7	761.6	750.2	11.41	66.761		
1,800.0	1,788.4	1,689.2	1,685.1	6.7	5.9	-15.28	710.0	584.3	761.7	749.6	12.14	62.720		
1,900.0	1,887.4	1,789.0	1,783.9	7.1	6.3	-15.80	722.7	589.8	761.9	749.0	12.88	59.136		
2,000.0	1,986.4	1,888.7	1,882.7	7.6	6.7	-16.31	735.4	595.4	762.1	748.5	13.62	55.938		
2,100.0	2,085.5	1,988.5	1,981.5	8.0	7.1	-16.82	748.2	600.9	762.4	748.0	14.37	53.069		
2,200.0	2,184.5	2,088.3	2,080.3	8.4	7.5	-17.34	760.9	606.4	762.8	747.6	15.11	50.481		
2,300.0	2,283.5	2,188.0	2,179.1	8.8	7.9	-17.85	773.6	612.0	763.2	747.3	15.85	48.135		
2,400.0	2,382.5	2,287.8	2,277.9	9.2	8.3	-18.36	786.4	617.5	763.6	747.0	16.60	46.001		
2,500.0	2,481.6	2,387.6	2,376.6	9.6	8.7	-18.88	799.1	623.1	764.2	746.8	17.35	44.051		
2,600.0	2,580.6	2,487.3	2,475.4	10.1	9.1	-19.39	811.8	628.6	764.8	746.7	18.10	42.263		
2,700.0	2,679.6	2,587.1	2,574.2	10.5	9.5	-19.90	824.6	634.1	765.4	746.6	18.84	40.618		
2,800.0	2,778.7	2,686.9	2,673.0	10.9	9.9	-20.41	837.3	639.7	766.2	746.6	19.60	39.099		
2,900.0	2,877.7	2,786.6	2,771.8	11.3	10.3	-20.91	850.0	645.2	766.9	746.6	20.35	37.694		
3,000.0	2,976.7	2,886.4	2,870.6	11.7	10.7	-21.42	862.7	650.7	767.8	746.7	21.10	36.391		
3,100.0	3,075.7	2,986.1	2,969.4	12.1	11.1	-21.93	875.5	656.3	768.7	746.8	21.85	35.178		
3,200.0	3,174.8	3,085.9	3,068.2	12.6	11.5	-22.43	888.2	661.8	769.6	747.0	22.61	34.047		
3,300.0	3,273.8	3,185.7	3,167.0	13.0	11.9	-22.94	900.9	667.4	770.7	747.3	23.36	32.991		
3,400.0	3,372.8	3,285.4	3,265.8	13.4	12.3	-23.44	913.7	672.9	771.7	747.6	24.12	32.002		
3,500.0	3,471.8	3,385.2	3,364.6	13.8	12.7	-23.94	926.4	678.4	772.9	748.0	24.87	31.074		
3,600.0	3,570.9	3,485.0	3,463.4	14.2	13.1	-24.44	939.1	684.0	774.1	748.4	25.63	30.202		
3,700.0	3,669.9	3,584.7	3,562.2	14.7	13.6	-24.94	951.9	689.5	775.3	748.9	26.39	29.381		
3,800.0	3,768.9	3,684.5	3,661.0	15.1	14.0	-25.43	964.6	695.1	776.7	749.5	27.15	28.608		
3,900.0	3,867.9	3,784.3	3,759.8	15.5	14.4	-25.93	977.3	700.6	778.0	750.1	27.91	27.878		
4,000.0	3,967.0	3,884.0	3,858.6	15.9	14.8	-26.42	990.1	706.1	779.5	750.8	28.67	27.187		
4,100.0	4,066.0	3,983.8	3,957.3	16.3	15.2	-26.91	1,002.8	711.7	781.0	751.5	29.43	26.534		
4,200.0	4,165.0	4,083.6	4,056.1	16.7	15.6	-27.40	1,015.5	717.2	782.5	752.3	30.20	25.914		
4,300.0	4,264.1	4,183.3	4,154.9	17.2	16.0	-27.89	1,028.3	722.8	784.1	753.1	30.96	25.326		
4,400.0	4,363.1	4,283.1	4,253.7	17.6	16.4	-28.37	1,041.0	728.3	785.8	754.0	31.73	24.767		
4,500.0	4,462.1	4,382.8	4,352.5	18.0	16.8	-28.85	1,053.7	733.8	787.5	755.0	32.49	24.236		
4,600.0	4,561.1	4,482.6	4,451.3	18.4	17.3	-29.33	1,066.5	739.4	789.3	756.0	33.26	23.730		
4,700.0	4,660.2	4,582.4	4,550.1	18.8	17.7	-29.81	1,079.2	744.9	791.1	757.1	34.03	23.248		
4,800.0	4,759.2	4,682.1	4,648.9	19.2	18.1	-30.29	1,091.9	750.4	793.0	758.2	34.80	22.788		
4,900.0	4,858.2	4,781.9	4,747.7	19.7	18.5	-30.76	1,104.7	756.0	794.9	759.3	35.57	22.348		
5,000.0	4,957.2	4,881.7	4,846.5	20.1	18.9	-31.23	1,117.4	761.5	796.9	760.6	36.34	21.929		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,056.3	4,981.4	4,945.3	20.5	19.3	-31.70	1,130.1	767.1	799.0	761.8	37.11	21.527		
5,200.0	5,155.3	5,081.2	5,044.1	20.9	19.7	-32.17	1,142.8	772.6	801.1	763.2	37.89	21.143		
5,300.0	5,254.3	5,196.3	5,158.1	21.3	20.2	-32.71	1,157.1	778.8	802.8	764.1	38.74	20.725		
5,400.0	5,353.4	5,334.6	5,295.8	21.8	20.7	-33.39	1,169.3	784.1	800.7	761.1	39.64	20.201		
5,500.0	5,452.4	5,472.3	5,433.3	22.2	21.2	-34.11	1,175.3	786.7	793.9	753.5	40.44	19.631		
5,600.0	5,551.4	5,609.6	5,551.4	22.6	21.7	-34.78	1,176.1	787.1	783.0	741.8	41.25	18.982		
5,700.0	5,650.4	5,689.4	5,650.4	23.0	21.9	-35.37	1,176.1	787.1	771.6	729.6	41.94	18.396		
5,800.0	5,749.5	5,788.5	5,749.5	23.4	22.3	-35.98	1,176.1	787.1	760.2	717.5	42.71	17.802		
5,900.0	5,848.5	5,887.5	5,848.5	23.9	22.6	-36.60	1,176.1	787.1	749.0	705.5	43.47	17.230		
6,000.0	5,947.5	5,986.5	5,947.5	24.3	22.9	-37.24	1,176.1	787.1	737.8	693.6	44.24	16.679		
6,100.0	6,046.5	6,085.5	6,046.5	24.7	23.2	-37.90	1,176.1	787.1	726.7	681.7	45.01	16.147		
6,200.0	6,145.6	6,184.6	6,145.6	25.1	23.6	-38.59	1,176.1	787.1	715.8	670.0	45.78	15.635		
6,300.0	6,244.6	6,283.6	6,244.6	25.5	23.9	-39.29	1,176.1	787.1	704.9	658.4	46.56	15.141		
6,400.0	6,343.6	6,382.6	6,343.6	25.9	24.2	-40.01	1,176.1	787.1	694.2	646.8	47.33	14.665		
6,500.0	6,442.6	6,481.7	6,442.6	26.4	24.5	-40.76	1,176.1	787.1	683.5	635.4	48.12	14.205		
6,600.0	6,541.7	6,580.7	6,541.7	26.8	24.9	-41.53	1,176.1	787.1	673.0	624.1	48.90	13.762		
6,700.0	6,640.7	6,679.7	6,640.7	27.2	25.2	-42.32	1,176.1	787.1	662.6	612.9	49.69	13.334		
6,800.0	6,739.7	6,778.7	6,739.7	27.6	25.5	-43.14	1,176.1	787.1	652.3	601.8	50.48	12.921		
6,900.0	6,838.8	6,877.8	6,838.8	28.0	25.9	-43.99	1,176.1	787.1	642.2	590.9	51.28	12.523		
7,000.0	6,937.8	6,962.0	6,922.9	28.5	26.1	-44.53	1,176.4	789.4	633.0	580.9	52.09	12.151		
7,100.0	7,036.8	7,039.2	6,999.1	28.9	26.4	-44.15	1,178.0	801.3	627.1	574.3	52.83	11.870		
7,196.4	7,132.3	7,111.7	7,068.6	29.3	26.7	-42.96	1,180.6	821.7	625.1	571.7	53.44	11.699 CC		
7,200.0	7,135.8	7,114.4	7,071.1	29.3	26.7	-42.90	1,180.7	822.6	625.1	571.7	53.46	11.694 ES		
7,300.0	7,234.9	7,185.0	7,135.7	29.7	27.0	-40.96	1,184.4	851.1	627.8	573.9	53.90	11.647		
7,400.0	7,333.9	7,250.0	7,191.5	30.1	27.3	-38.59	1,188.7	883.9	636.2	582.2	54.09	11.764		
7,500.0	7,432.9	7,307.8	7,237.7	30.5	27.6	-36.06	1,193.2	918.3	651.6	597.7	53.90	12.088		
7,583.1	7,515.2	7,350.0	7,269.1	30.9	27.8	-34.02	1,196.8	946.2	670.2	616.8	53.41	12.548		
7,600.0	7,531.9	7,359.2	7,275.7	31.0	27.9	-33.59	1,197.6	952.6	674.7	621.4	53.30	12.659		
7,700.0	7,631.2	7,400.0	7,303.6	31.4	28.1	-31.71	1,201.4	982.1	707.2	655.1	52.18	13.555		
7,800.0	7,730.7	7,450.0	7,334.7	31.8	28.4	-29.23	1,206.5	1,020.9	749.8	698.8	51.06	14.685		
7,900.0	7,830.5	7,473.9	7,348.4	32.1	28.5	-28.25	1,209.0	1,040.3	801.5	752.3	49.24	16.277		
8,000.0	7,930.4	7,500.0	7,362.4	32.5	28.7	-27.18	1,211.8	1,062.2	861.6	814.1	47.50	18.139		
8,100.0	8,030.4	7,523.9	7,374.3	32.8	28.9	-26.29	1,214.5	1,082.7	928.8	882.9	45.83	20.264		
8,116.4	8,046.8	7,527.3	7,375.9	32.8	28.9	25.88	1,214.9	1,085.7	940.4	894.8	45.56	20.639		
8,200.0	8,130.4	7,550.0	7,386.2	33.1	29.1	27.33	1,217.5	1,105.7	1,001.5	957.1	44.39	22.559		
8,216.6	8,147.0	7,550.0	7,386.2	33.1	29.1	27.33	1,217.5	1,105.7	1,013.9	969.8	44.06	23.013		
8,250.0	8,180.4	7,550.0	7,386.2	33.3	29.1	-59.44	1,217.5	1,105.7	1,038.9	995.5	43.39	23.944		
8,300.0	8,230.1	7,550.0	7,386.2	33.4	29.1	-54.81	1,217.5	1,105.7	1,075.9	1,033.5	42.40	25.377		
8,350.0	8,279.2	7,573.4	7,396.1	33.6	29.3	-49.68	1,220.2	1,126.8	1,111.7	1,069.6	42.04	26.446		
8,400.0	8,327.3	7,585.0	7,400.6	33.9	29.4	-45.70	1,221.6	1,137.3	1,146.5	1,105.1	41.38	27.703		
8,450.0	8,374.0	7,600.0	7,406.2	34.1	29.5	-42.18	1,223.4	1,151.2	1,179.8	1,139.0	40.84	28.889		
8,500.0	8,419.0	7,600.0	7,406.2	34.4	29.5	-39.48	1,223.4	1,151.2	1,211.7	1,171.8	39.97	30.316		
8,550.0	8,461.9	7,623.0	7,414.0	34.7	29.7	-36.75	1,226.2	1,172.6	1,241.6	1,201.9	39.68	31.288		
8,600.0	8,502.4	7,650.0	7,422.1	35.1	30.0	-34.44	1,229.5	1,198.2	1,269.9	1,230.4	39.51	32.139		
8,650.0	8,540.2	7,650.0	7,422.1	35.4	30.0	-32.77	1,229.5	1,198.2	1,295.7	1,256.9	38.80	33.398		
8,700.0	8,575.0	7,650.0	7,422.1	35.8	30.0	-31.32	1,229.5	1,198.2	1,319.8	1,281.6	38.16	34.585		
8,750.0	8,606.6	7,679.3	7,429.5	36.2	30.2	-29.94	1,233.1	1,226.2	1,341.0	1,302.8	38.19	35.113		
8,800.0	8,634.7	7,700.0	7,433.8	36.7	30.4	-28.87	1,235.8	1,246.3	1,360.2	1,322.1	38.11	35.692		
8,850.0	8,659.0	7,700.0	7,433.8	37.2	30.4	-28.02	1,235.8	1,246.3	1,376.8	1,339.1	37.73	36.489		
8,900.0	8,679.5	7,724.0	7,437.9	37.7	30.7	-27.33	1,238.8	1,269.8	1,390.9	1,353.0	37.88	36.721		
8,950.0	8,695.9	7,750.0	7,441.3	38.2	31.0	-26.83	1,242.1	1,295.4	1,402.5	1,364.4	38.12	36.790		
9,000.0	8,708.1	7,750.0	7,441.3	38.8	31.0	-26.43	1,242.1	1,295.4	1,411.3	1,373.2	38.08	37.061		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	7,769.8	7,443.0	39.4	31.2	-26.21	1,244.7	1,314.9	1,417.4	1,379.0	38.43	36.880		
9,100.0	8,719.7	7,799.6	7,444.4	40.0	31.5	-26.20	1,248.5	1,344.4	1,421.2	1,382.2	39.00	36.443		
9,116.6	8,720.0	7,799.6	7,444.4	40.2	31.5	-26.18	1,248.5	1,344.4	1,421.6	1,382.6	39.09	36.367		
9,200.0	8,720.0	7,867.4	7,445.7	41.3	32.3	-26.49	1,256.4	1,411.8	1,424.4	1,384.1	40.39	35.267		
9,300.0	8,720.0	7,996.4	7,448.2	42.7	34.0	-26.92	1,267.1	1,540.2	1,426.6	1,384.1	42.46	33.602		
9,400.0	8,720.2	8,126.0	7,450.7	44.2	35.9	-27.15	1,272.0	1,669.7	1,426.7	1,382.2	44.51	32.054		
9,500.0	8,720.3	8,236.1	7,452.9	45.7	37.6	-27.20	1,272.3	1,779.8	1,425.2	1,378.9	46.35	30.747		
9,600.0	8,720.6	8,336.1	7,454.9	47.4	39.2	-27.23	1,272.3	1,879.8	1,423.7	1,375.5	48.18	29.549		
9,700.0	8,720.8	8,436.1	7,456.9	49.1	40.9	-27.27	1,272.3	1,979.7	1,422.2	1,372.1	50.09	28.395		
9,800.0	8,721.2	8,536.0	7,458.9	50.9	42.7	-27.30	1,272.3	2,079.7	1,420.7	1,368.7	52.06	27.289		
9,900.0	8,721.5	8,636.0	7,460.9	52.7	44.6	-27.34	1,272.3	2,179.7	1,419.3	1,365.2	54.10	26.235		
10,000.0	8,722.0	8,736.0	7,462.9	54.6	46.5	-27.37	1,272.3	2,279.6	1,418.0	1,361.8	56.19	25.233		
10,100.0	8,722.4	8,836.0	7,464.9	56.5	48.5	-27.40	1,272.3	2,379.6	1,416.7	1,358.3	58.34	24.283		
10,200.0	8,723.0	8,936.0	7,466.9	58.4	50.5	-27.43	1,272.2	2,479.6	1,415.4	1,354.9	60.53	23.384		
10,300.0	8,723.5	9,036.0	7,468.9	60.4	52.5	-27.46	1,272.2	2,579.5	1,414.2	1,351.4	62.76	22.533		
10,400.0	8,724.2	9,136.0	7,470.9	62.5	54.6	-27.49	1,272.2	2,679.5	1,413.0	1,348.0	65.03	21.730		
10,500.0	8,724.9	9,236.0	7,472.9	64.5	56.7	-27.52	1,272.2	2,779.5	1,411.9	1,344.6	67.33	20.971		
10,600.0	8,725.6	9,336.0	7,474.9	66.6	58.8	-27.54	1,272.2	2,879.5	1,410.8	1,341.1	69.65	20.254		
10,700.0	8,726.4	9,435.9	7,476.9	68.7	61.0	-27.57	1,272.2	2,979.4	1,409.8	1,337.8	72.01	19.577		
10,800.0	8,727.2	9,535.9	7,478.9	70.9	63.2	-27.59	1,272.2	3,079.4	1,408.8	1,334.4	74.39	18.937		
10,900.0	8,728.1	9,635.9	7,480.9	73.0	65.4	-27.62	1,272.2	3,179.4	1,407.8	1,331.0	76.80	18.332		
11,000.0	8,729.0	9,735.9	7,482.9	75.2	67.6	-27.64	1,272.1	3,279.4	1,406.9	1,327.7	79.22	17.760		
11,100.0	8,730.0	9,835.9	7,484.9	77.4	69.8	-27.66	1,272.1	3,379.3	1,406.1	1,324.4	81.66	17.219		
11,200.0	8,731.1	9,935.9	7,486.9	79.6	72.0	-27.68	1,272.1	3,479.3	1,405.3	1,321.2	84.12	16.706		
11,300.0	8,732.2	10,035.9	7,488.9	81.8	74.3	-27.70	1,272.1	3,579.3	1,404.5	1,317.9	86.59	16.220		
11,400.0	8,733.3	10,135.9	7,490.9	84.0	76.6	-27.72	1,272.1	3,679.3	1,403.8	1,314.7	89.08	15.759		
11,500.0	8,734.5	10,235.9	7,492.9	86.2	78.8	-27.74	1,272.1	3,779.2	1,403.1	1,311.5	91.58	15.321		
11,600.0	8,735.8	10,335.9	7,494.9	88.5	81.1	-27.76	1,272.1	3,879.2	1,402.5	1,308.4	94.09	14.906		
11,700.0	8,737.1	10,435.9	7,496.9	90.8	83.4	-27.77	1,272.0	3,979.2	1,401.9	1,305.3	96.61	14.511		
11,800.0	8,738.4	10,535.9	7,498.9	93.0	85.7	-27.79	1,272.0	4,079.2	1,401.4	1,302.2	99.14	14.135		
11,900.0	8,739.8	10,635.9	7,500.9	95.3	88.1	-27.80	1,272.0	4,179.1	1,400.9	1,299.2	101.68	13.777		
12,000.0	8,741.3	10,735.9	7,502.9	97.6	90.4	-27.82	1,272.0	4,279.1	1,400.4	1,296.2	104.23	13.436		
12,100.0	8,742.8	10,835.9	7,504.9	99.9	92.7	-27.83	1,272.0	4,379.1	1,400.1	1,293.3	106.79	13.111		
12,200.0	8,744.3	10,935.9	7,506.9	102.2	95.0	-27.84	1,272.0	4,479.1	1,399.7	1,290.3	109.35	12.800		
12,300.0	8,745.9	11,035.9	7,508.9	104.5	97.4	-27.85	1,272.0	4,579.1	1,399.4	1,287.5	111.92	12.504		
12,400.0	8,747.6	11,135.9	7,510.9	106.8	99.7	-27.86	1,272.0	4,679.0	1,399.1	1,284.6	114.49	12.221		
12,500.0	8,749.3	11,235.9	7,512.9	109.1	102.1	-27.87	1,271.9	4,779.0	1,398.9	1,281.8	117.07	11.950		
12,600.0	8,751.1	11,335.9	7,514.9	111.5	104.4	-27.88	1,271.9	4,879.0	1,398.7	1,279.1	119.65	11.691		
12,700.0	8,752.9	11,435.9	7,516.9	113.8	106.8	-27.88	1,271.9	4,979.0	1,398.6	1,276.4	122.23	11.442		
12,800.0	8,754.7	11,535.9	7,518.9	116.1	109.1	-27.89	1,271.9	5,079.0	1,398.5	1,273.7	124.82	11.205		
12,900.0	8,756.6	11,635.9	7,520.9	118.5	111.5	-27.89	1,271.9	5,178.9	1,398.5	1,271.1	127.41	10.976		
12,930.9	8,757.2	11,666.8	7,521.5	119.2	112.2	-27.90	1,271.9	5,209.8	1,398.5	1,270.3	128.21	10.908		
13,000.0	8,758.6	11,735.9	7,522.9	120.8	113.9	-27.90	1,271.9	5,278.9	1,398.5	1,268.5	130.00	10.758		
13,100.0	8,760.6	11,835.9	7,524.9	123.2	116.2	-27.90	1,271.9	5,378.9	1,398.6	1,266.0	132.59	10.548		
13,200.0	8,762.7	11,935.9	7,526.9	125.5	118.6	-27.90	1,271.9	5,478.9	1,398.7	1,263.5	135.19	10.346		
13,300.0	8,764.8	12,035.9	7,528.9	127.9	121.0	-27.90	1,271.8	5,578.9	1,398.8	1,261.0	137.78	10.152		
13,400.0	8,767.0	12,135.9	7,530.9	130.3	123.4	-27.90	1,271.8	5,678.8	1,399.0	1,258.6	140.38	9.966		
13,500.0	8,769.2	12,235.9	7,532.9	132.6	125.8	-27.90	1,271.8	5,778.8	1,399.2	1,256.2	142.98	9.786		
13,600.0	8,771.5	12,335.9	7,534.9	135.0	128.1	-27.90	1,271.8	5,878.8	1,399.5	1,253.9	145.57	9.614		
13,700.0	8,773.8	12,435.9	7,536.9	137.4	130.5	-27.90	1,271.8	5,978.8	1,399.8	1,251.7	148.17	9.448		
13,800.0	8,776.2	12,535.9	7,538.9	139.7	132.9	-27.89	1,271.8	6,078.8	1,400.2	1,249.4	150.76	9.288		
13,900.0	8,778.6	12,635.9	7,540.9	142.1	135.3	-27.89	1,271.8	6,178.7	1,400.6	1,247.3	153.35	9.133		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	8,781.1	12,735.9	7,542.9	144.5	137.7	-27.88	1,271.7	6,278.7	1,401.1	1,245.1	155.95	8.984		
14,100.0	8,783.6	12,835.9	7,544.9	146.9	140.1	-27.87	1,271.7	6,378.7	1,401.6	1,243.0	158.54	8.841		
14,200.0	8,786.2	12,935.9	7,546.9	149.2	142.5	-27.87	1,271.7	6,478.7	1,402.1	1,241.0	161.12	8.702		
14,300.0	8,788.8	13,035.9	7,548.9	151.6	144.9	-27.86	1,271.7	6,578.6	1,402.7	1,239.0	163.71	8.568		
14,400.0	8,791.5	13,135.9	7,550.9	154.0	147.3	-27.85	1,271.7	6,678.6	1,403.4	1,237.1	166.29	8.439		
14,500.0	8,794.2	13,235.9	7,552.9	156.4	149.7	-27.84	1,271.7	6,778.6	1,404.1	1,235.2	168.87	8.314		
14,600.0	8,797.0	13,335.9	7,554.9	158.8	152.1	-27.82	1,271.7	6,878.6	1,404.8	1,233.3	171.45	8.193		
14,614.8	8,797.4	13,350.6	7,555.2	159.1	152.5	-27.82	1,271.7	6,893.3	1,404.9	1,233.1	171.83	8.176		
14,700.0	8,799.8	13,435.9	7,556.9	161.2	154.5	-27.81	1,271.7	6,978.6	1,405.5	1,231.5	174.03	8.077		
14,800.0	8,802.7	13,535.9	7,558.9	163.6	156.9	-27.80	1,271.6	7,078.5	1,406.3	1,229.7	176.60	7.963		
14,900.0	8,805.5	13,635.9	7,560.9	166.0	159.3	-27.79	1,271.6	7,178.5	1,407.1	1,227.9	179.18	7.853		
15,000.0	8,808.3	13,735.9	7,562.9	168.4	161.7	-27.77	1,271.6	7,278.5	1,407.8	1,226.1	181.76	7.746		
15,100.0	8,811.1	13,835.9	7,564.9	170.8	164.1	-27.76	1,271.6	7,378.5	1,408.6	1,224.3	184.33	7.642		
15,200.0	8,813.9	13,935.9	7,566.9	173.2	166.6	-27.75	1,271.6	7,478.4	1,409.4	1,222.5	186.91	7.540		
15,300.0	8,816.8	14,035.9	7,568.9	175.6	169.0	-27.73	1,271.6	7,578.4	1,410.1	1,220.6	189.48	7.442		
15,400.0	8,819.6	14,135.8	7,570.9	178.0	171.4	-27.72	1,271.6	7,678.4	1,410.9	1,218.8	192.06	7.346		
15,500.0	8,822.4	14,235.8	7,572.9	180.4	173.8	-27.71	1,271.5	7,778.4	1,411.6	1,217.0	194.64	7.253		
15,600.0	8,825.2	14,335.8	7,574.9	182.8	176.2	-27.70	1,271.5	7,878.3	1,412.4	1,215.2	197.21	7.162		
15,700.0	8,828.0	14,435.8	7,576.9	185.2	178.6	-27.68	1,271.5	7,978.3	1,413.2	1,213.4	199.79	7.073		
15,800.0	8,830.8	14,535.8	7,578.9	187.6	181.0	-27.67	1,271.5	8,078.3	1,413.9	1,211.6	202.36	6.987		
15,900.0	8,833.7	14,635.8	7,580.9	190.0	183.5	-27.66	1,271.5	8,178.3	1,414.7	1,209.8	204.94	6.903		
16,000.0	8,836.5	14,735.8	7,582.9	192.4	185.9	-27.65	1,271.5	8,278.3	1,415.5	1,207.9	207.51	6.821		
16,100.0	8,839.3	14,835.8	7,584.9	194.8	188.3	-27.63	1,271.5	8,378.2	1,416.2	1,206.1	210.08	6.741		
16,200.0	8,842.1	14,935.8	7,586.9	197.2	190.7	-27.62	1,271.5	8,478.2	1,417.0	1,204.3	212.66	6.663		
16,300.0	8,844.9	15,035.8	7,588.9	199.6	193.1	-27.61	1,271.4	8,578.2	1,417.7	1,202.5	215.23	6.587		
16,400.0	8,847.8	15,135.8	7,590.9	202.0	195.5	-27.60	1,271.4	8,678.2	1,418.5	1,200.7	217.80	6.513		
16,500.0	8,850.6	15,235.8	7,592.9	204.4	198.0	-27.58	1,271.4	8,778.1	1,419.3	1,198.9	220.38	6.440		
16,600.0	8,853.4	15,335.8	7,594.9	206.8	200.4	-27.57	1,271.4	8,878.1	1,420.0	1,197.1	222.95	6.369		
16,700.0	8,856.2	15,435.8	7,596.9	209.3	202.8	-27.56	1,271.4	8,978.1	1,420.8	1,195.3	225.52	6.300		
16,800.0	8,859.0	15,535.8	7,598.9	211.7	205.2	-27.55	1,271.4	9,078.1	1,421.6	1,193.5	228.09	6.232		
16,900.0	8,861.8	15,635.8	7,600.9	214.1	207.7	-27.53	1,271.4	9,178.0	1,422.3	1,191.7	230.66	6.166		
17,000.0	8,864.7	15,735.8	7,602.9	216.5	210.1	-27.52	1,271.3	9,278.0	1,423.1	1,189.9	233.23	6.102		
17,100.0	8,867.5	15,835.8	7,604.9	218.9	212.5	-27.51	1,271.3	9,378.0	1,423.8	1,188.1	235.80	6.038		
17,200.0	8,870.3	15,935.8	7,606.9	221.3	214.9	-27.50	1,271.3	9,478.0	1,424.6	1,186.2	238.36	5.977		
17,300.0	8,873.1	16,035.8	7,608.9	223.8	217.4	-27.49	1,271.3	9,577.9	1,425.4	1,184.4	240.93	5.916		
17,400.0	8,875.9	16,135.8	7,610.9	226.2	219.8	-27.47	1,271.3	9,677.9	1,426.1	1,182.6	243.50	5.857		
17,500.0	8,878.8	16,235.8	7,612.9	228.6	222.2	-27.46	1,271.3	9,777.9	1,426.9	1,180.8	246.06	5.799		
17,600.0	8,881.6	16,335.8	7,614.9	231.0	224.6	-27.45	1,271.3	9,877.9	1,427.7	1,179.0	248.63	5.742		
17,700.0	8,884.4	16,435.8	7,616.9	233.4	227.1	-27.44	1,271.3	9,977.9	1,428.4	1,177.2	251.19	5.687		
17,800.0	8,887.2	16,535.8	7,618.9	235.9	229.5	-27.42	1,271.2	10,077.8	1,429.2	1,175.4	253.75	5.632		
17,900.0	8,890.0	16,635.8	7,620.9	238.3	231.9	-27.41	1,271.2	10,177.8	1,430.0	1,173.6	256.32	5.579		
18,000.0	8,892.8	16,735.8	7,622.8	240.7	234.3	-27.40	1,271.2	10,277.8	1,430.7	1,171.8	258.88	5.527		
18,100.0	8,895.7	16,835.8	7,624.8	243.1	236.8	-27.39	1,271.2	10,377.8	1,431.5	1,170.0	261.44	5.475		
18,200.0	8,898.5	16,935.8	7,626.8	245.5	239.2	-27.37	1,271.2	10,477.7	1,432.3	1,168.3	264.00	5.425		
18,300.0	8,901.3	17,035.7	7,628.8	248.0	241.6	-27.36	1,271.2	10,577.7	1,433.0	1,166.5	266.56	5.376		
18,400.0	8,904.1	17,135.7	7,630.8	250.4	244.1	-27.35	1,271.2	10,677.7	1,433.8	1,164.7	269.12	5.328		
18,500.0	8,906.9	17,235.7	7,632.8	252.8	246.5	-27.34	1,271.2	10,777.7	1,434.5	1,162.9	271.67	5.280		
18,600.0	8,909.8	17,335.7	7,634.8	255.2	248.9	-27.33	1,271.1	10,877.6	1,435.3	1,161.1	274.23	5.234		
18,700.0	8,912.6	17,435.7	7,636.8	257.7	251.4	-27.31	1,271.1	10,977.6	1,436.1	1,159.3	276.78	5.188		
18,800.0	8,915.4	17,535.7	7,638.8	260.1	253.8	-27.30	1,271.1	11,077.6	1,436.8	1,157.5	279.34	5.144		
18,900.0	8,918.2	17,635.7	7,640.8	262.5	256.2	-27.29	1,271.1	11,177.6	1,437.6	1,155.7	281.89	5.100		
18,963.5	8,920.0	17,700.8	7,642.1	264.1	257.8	-27.28	1,271.1	11,241.1	1,438.1	1,154.6	283.53	5.072 SF		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-0.04	139.5	-0.1	139.5					
100.0	100.0	100.0	100.0	0.1	0.1	-0.04	139.5	-0.1	139.5	139.2	0.26	544.127		
200.0	200.0	200.0	200.0	0.5	0.5	-0.04	139.5	-0.1	139.5	138.5	0.97	143.297		
300.0	300.0	300.0	300.0	0.8	0.8	-0.04	139.5	-0.1	139.5	137.8	1.69	82.514		
400.0	400.0	400.0	400.0	1.2	1.2	-0.04	139.5	-0.1	139.5	137.1	2.41	57.938		
500.0	500.0	500.0	500.0	1.6	1.6	-0.04	139.5	-0.1	139.5	136.3	3.12	44.642		
600.0	599.9	600.1	599.9	1.9	1.9	-53.65	139.5	-0.1	136.8	133.0	3.84	35.624		
660.0	659.5	659.5	659.5	2.2	2.1	-56.16	139.5	-0.1	132.9	128.6	4.28	31.086		
700.0	699.1	700.9	699.1	2.3	2.3	-58.19	139.5	-0.1	129.9	125.3	4.57	28.402		
800.0	798.1	801.9	798.1	2.7	2.6	-63.66	139.5	-0.1	123.0	117.7	5.31	23.170		
900.0	897.1	902.9	897.1	3.1	3.0	-69.70	139.5	-0.1	117.5	111.4	6.06	19.381		
1,000.0	996.2	1,003.8	996.2	3.5	3.4	-76.25	139.5	-0.1	113.4	106.5	6.82	16.616		
1,100.0	1,095.2	1,104.8	1,095.2	3.9	3.7	-83.19	139.5	-0.1	110.9	103.3	7.59	14.607		
1,195.4	1,189.7	1,189.7	1,189.7	4.2	4.0	-90.00	139.5	-0.1	110.1	101.8	8.28	13.292 CC		
1,200.0	1,194.2	1,205.8	1,194.2	4.3	4.1	-90.33	139.5	-0.1	110.1	101.7	8.36	13.171 ES		
1,300.0	1,293.3	1,306.7	1,293.3	4.7	4.5	-97.46	139.5	-0.1	111.0	101.9	9.12	12.173		
1,400.0	1,392.3	1,407.7	1,392.3	5.1	4.8	-104.37	139.5	-0.1	113.7	103.8	9.87	11.512		
1,500.0	1,491.3	1,491.3	1,491.3	5.5	5.1	-110.88	139.5	-0.1	117.9	107.4	10.56	11.170		
1,600.0	1,590.3	1,591.9	1,591.9	5.9	5.5	-116.16	140.8	1.2	123.0	111.7	11.30	10.891		
1,700.0	1,689.4	1,693.5	1,693.3	6.3	5.8	-119.18	145.3	5.6	127.4	115.4	12.04	10.581		
1,800.0	1,788.4	1,795.6	1,794.8	6.7	6.2	-120.19	153.1	13.2	130.3	117.5	12.80	10.185		
1,900.0	1,887.4	1,897.8	1,895.8	7.1	6.6	-119.34	164.1	23.9	131.6	118.0	13.57	9.697		
2,000.0	1,986.4	1,999.6	1,995.7	7.6	7.0	-116.66	178.3	37.8	131.4	117.0	14.37	9.140		
2,100.0	2,085.5	2,100.4	2,093.1	8.0	7.4	-112.76	194.3	53.4	130.6	115.4	15.21	8.587		
2,176.8	2,161.5	2,176.1	2,167.7	8.3	7.7	-109.73	206.7	65.4	130.4	114.6	15.86	8.224		
2,200.0	2,184.5	2,200.8	2,190.2	8.4	7.8	-108.81	210.4	69.0	130.5	114.4	16.07	8.120		
2,300.0	2,283.5	2,301.2	2,287.2	8.8	8.2	-104.87	226.4	84.7	130.9	114.0	16.93	7.732		
2,400.0	2,382.5	2,401.6	2,384.2	9.2	8.6	-100.97	242.5	100.3	132.0	114.2	17.80	7.414		
2,500.0	2,481.6	2,502.0	2,481.3	9.6	9.1	-97.15	258.5	116.0	133.7	115.0	18.68	7.157		
2,600.0	2,580.6	2,602.4	2,578.3	10.1	9.5	-93.44	274.6	131.6	135.9	116.4	19.55	6.953		
2,700.0	2,679.6	2,702.8	2,675.3	10.5	10.0	-89.87	290.6	147.2	138.7	118.3	20.42	6.795		
2,800.0	2,778.7	2,803.3	2,772.4	10.9	10.4	-86.45	306.6	162.9	142.1	120.8	21.28	6.677		
2,900.0	2,877.7	2,903.7	2,869.4	11.3	10.9	-83.20	322.7	178.5	145.9	123.8	22.13	6.593		
3,000.0	2,976.7	3,004.1	2,966.5	11.7	11.3	-80.12	338.7	194.2	150.2	127.2	22.98	6.536		
3,100.0	3,075.7	3,095.5	3,063.5	12.1	11.8	-77.22	354.8	209.8	154.9	131.1	23.77	6.515		
3,200.0	3,174.8	3,204.9	3,160.5	12.6	12.3	-74.50	370.8	225.4	159.9	135.3	24.63	6.491		
3,300.0	3,273.8	3,305.3	3,257.6	13.0	12.7	-71.94	386.9	241.1	165.3	139.9	25.45	6.495		
3,400.0	3,372.8	3,394.3	3,354.6	13.4	13.2	-69.55	402.9	256.7	171.0	144.8	26.21	6.525		
3,500.0	3,471.8	3,493.9	3,451.7	13.8	13.6	-67.32	418.9	272.3	177.0	150.0	27.00	6.554		
3,600.0	3,570.9	3,606.5	3,548.7	14.2	14.2	-65.24	435.0	288.0	183.2	155.4	27.85	6.578		
3,700.0	3,669.9	3,706.9	3,645.7	14.7	14.7	-63.29	451.0	303.6	189.7	161.0	28.64	6.622		
3,800.0	3,768.9	3,807.3	3,742.8	15.1	15.1	-61.48	467.1	319.3	196.3	166.9	29.43	6.672		
3,900.0	3,867.9	3,907.8	3,839.8	15.5	15.6	-59.78	483.1	334.9	203.2	173.0	30.21	6.726		
4,000.0	3,967.0	4,008.2	3,936.8	15.9	16.1	-58.20	499.1	350.5	210.2	179.2	30.99	6.783		
4,100.0	4,066.0	4,091.4	4,033.9	16.3	16.5	-56.72	515.2	366.2	217.4	185.7	31.68	6.860		
4,200.0	4,165.0	4,191.0	4,130.9	16.7	17.0	-55.33	531.2	381.8	224.6	192.2	32.45	6.922		
4,300.0	4,264.1	4,309.4	4,228.0	17.2	17.6	-54.03	547.3	397.4	232.1	198.8	33.30	6.968		
4,400.0	4,363.1	4,409.8	4,325.0	17.6	18.1	-52.82	563.3	413.1	239.6	205.5	34.07	7.032		
4,500.0	4,462.1	4,489.8	4,422.0	18.0	18.5	-51.68	579.4	428.7	247.2	212.5	34.75	7.115		
4,600.0	4,561.1	4,589.4	4,519.1	18.4	19.0	-50.60	595.4	444.4	255.0	219.4	35.51	7.179		
4,700.0	4,660.2	4,689.0	4,616.1	18.8	19.4	-49.59	611.4	460.0	262.8	226.5	36.28	7.243		
4,800.0	4,759.2	4,788.6	4,713.1	19.2	19.9	-48.64	627.5	475.6	270.6	233.6	37.04	7.307		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,900.0	4,858.2	4,888.1	4,810.2	19.7	20.4	-47.74	643.5	491.3	278.6	240.8	37.80	7.370		
5,000.0	4,957.2	4,987.7	4,907.2	20.1	20.9	-46.89	659.6	506.9	286.6	248.1	38.56	7.433		
5,100.0	5,056.3	5,087.3	5,004.3	20.5	21.4	-46.09	675.6	522.6	294.7	255.4	39.32	7.494		
5,200.0	5,155.3	5,186.9	5,101.3	20.9	21.9	-45.33	691.6	538.2	302.8	262.7	40.08	7.555		
5,300.0	5,254.3	5,286.5	5,198.3	21.3	22.4	-44.61	707.7	553.8	311.0	270.2	40.85	7.615		
5,400.0	5,353.4	5,386.1	5,295.4	21.8	22.9	-43.93	723.7	569.5	319.2	277.6	41.61	7.673		
5,500.0	5,452.4	5,485.7	5,392.4	22.2	23.4	-43.28	739.8	585.1	327.5	285.2	42.37	7.730		
5,600.0	5,551.4	5,585.3	5,489.5	22.6	23.9	-42.67	755.8	600.7	335.8	292.7	43.13	7.787		
5,700.0	5,650.4	5,684.9	5,586.5	23.0	24.4	-42.08	771.9	616.4	344.2	300.3	43.89	7.842		
5,800.0	5,749.5	5,784.5	5,683.5	23.4	24.9	-41.52	787.9	632.0	352.6	307.9	44.65	7.896		
5,900.0	5,848.5	5,884.1	5,780.6	23.9	25.3	-40.99	803.9	647.7	361.0	315.6	45.41	7.948		
6,000.0	5,947.5	5,983.6	5,877.6	24.3	25.8	-40.48	820.0	663.3	369.4	323.2	46.18	8.000		
6,100.0	6,046.5	6,083.2	5,974.6	24.7	26.3	-40.00	836.0	678.9	377.9	331.0	46.94	8.051		
6,200.0	6,145.6	6,182.8	6,071.7	25.1	26.8	-39.53	852.1	694.6	386.4	338.7	47.70	8.100		
6,300.0	6,244.6	6,282.4	6,168.7	25.5	27.3	-39.09	868.1	710.2	394.9	346.4	48.46	8.148		
6,400.0	6,343.6	6,383.4	6,267.1	25.9	27.8	-38.66	884.3	726.0	403.4	354.2	49.24	8.192		
6,500.0	6,442.6	6,493.1	6,374.5	26.4	28.4	-38.35	900.6	741.9	410.4	360.3	50.12	8.189		
6,600.0	6,541.7	6,603.3	6,482.8	26.8	28.9	-38.28	914.7	755.7	415.0	364.0	50.98	8.139		
6,700.0	6,640.7	6,713.6	6,591.9	27.2	29.3	-38.43	926.6	767.2	417.0	365.2	51.83	8.045		
6,800.0	6,739.7	6,823.9	6,701.4	27.6	29.8	-38.80	936.2	776.6	416.6	363.9	52.66	7.910		
6,900.0	6,838.8	6,934.0	6,811.0	28.0	30.2	-39.40	943.6	783.8	413.7	360.2	53.48	7.736		
7,000.0	6,937.8	7,043.7	6,920.5	28.5	30.6	-40.25	948.6	788.7	408.4	354.2	54.28	7.525		
7,100.0	7,036.8	7,152.9	7,029.6	28.9	30.9	-41.36	951.4	791.4	400.9	345.8	55.08	7.278		
7,200.0	7,135.8	7,259.2	7,135.8	29.3	31.2	-42.72	952.1	792.1	391.2	335.3	55.90	6.998		
7,300.0	7,234.9	7,358.2	7,234.9	29.7	31.5	-44.14	952.1	792.1	381.0	324.2	56.80	6.708		
7,400.0	7,333.9	7,457.2	7,333.9	30.1	31.8	-45.63	952.1	792.1	371.1	313.4	57.71	6.430		
7,500.0	7,432.9	7,556.2	7,432.9	30.5	32.1	-47.19	952.1	792.1	361.5	302.8	58.64	6.164		
7,583.1	7,515.2	7,638.5	7,515.2	30.9	32.3	-48.56	952.1	792.1	353.7	294.2	59.42	5.952		
7,600.0	7,531.9	7,655.3	7,531.9	31.0	32.4	-48.83	952.1	792.1	352.1	292.5	59.58	5.910		
7,700.0	7,631.2	7,754.5	7,631.2	31.4	32.7	-50.25	952.1	792.1	344.2	283.7	60.49	5.690		
7,800.0	7,730.7	7,854.1	7,730.7	31.8	33.0	-51.43	952.1	792.1	338.1	276.8	61.35	5.511		
7,900.0	7,830.5	7,953.3	7,829.7	32.1	33.3	-51.20	952.1	798.5	333.8	271.8	62.05	5.380		
7,994.0	7,924.3	8,043.3	7,917.2	32.4	33.7	-48.19	952.1	818.9	332.1	269.6	62.46	5.316		
8,000.0	7,930.4	8,048.9	7,922.5	32.5	33.7	-47.91	952.1	820.6	332.1	269.6	62.48	5.315		
8,100.0	8,030.4	8,135.3	8,002.3	32.8	34.1	-42.50	952.1	853.6	335.9	273.2	62.69	5.357		
8,116.4	8,046.8	8,148.4	8,013.9	32.8	34.2	10.57	952.1	859.6	337.3	274.6	62.69	5.381		
8,200.0	8,130.4	8,210.1	8,066.7	33.1	34.6	15.82	952.1	891.5	348.9	286.4	62.48	5.584		
8,216.6	8,147.0	8,221.4	8,075.9	33.1	34.7	16.85	952.1	898.0	352.1	289.7	62.39	5.644		
8,250.0	8,180.4	8,243.6	8,093.8	33.3	34.8	-70.53	952.1	911.2	359.2	297.0	62.15	5.779		
8,300.0	8,230.1	8,276.4	8,119.2	33.4	35.0	-66.69	952.1	932.0	370.9	309.2	61.72	6.009		
8,350.0	8,279.2	8,308.7	8,143.0	33.6	35.3	-63.09	952.1	953.8	383.6	322.4	61.21	6.268		
8,400.0	8,327.3	8,340.5	8,165.2	33.9	35.5	-59.76	952.1	976.6	396.9	336.3	60.60	6.549		
8,450.0	8,374.0	8,371.9	8,185.8	34.1	35.8	-56.71	952.1	1,000.2	410.5	350.5	59.93	6.849		
8,500.0	8,419.0	8,400.0	8,203.2	34.4	36.0	-54.10	952.1	1,022.3	424.0	364.9	59.10	7.173		
8,550.0	8,461.9	8,433.7	8,222.5	34.7	36.3	-51.48	952.1	1,049.9	437.2	378.7	58.46	7.478		
8,600.0	8,502.4	8,464.2	8,238.6	35.1	36.6	-49.28	952.1	1,075.8	449.9	392.1	57.71	7.795		
8,650.0	8,540.2	8,500.0	8,255.7	35.4	36.9	-47.17	952.1	1,107.3	461.9	404.8	57.18	8.079		
8,700.0	8,575.0	8,524.5	8,266.3	35.8	37.2	-45.64	952.1	1,129.4	473.1	416.7	56.32	8.400		
8,750.0	8,606.6	8,550.0	8,276.2	36.2	37.4	-44.28	952.1	1,152.9	483.3	427.7	55.58	8.696		
8,800.0	8,634.7	8,584.2	8,287.9	36.7	37.8	-42.93	952.1	1,185.0	492.4	437.2	55.25	8.913		
8,850.0	8,659.0	8,613.9	8,296.5	37.2	38.1	-41.89	952.1	1,213.4	500.4	445.5	54.90	9.115		
8,900.0	8,679.5	8,650.0	8,305.0	37.7	38.6	-40.96	952.1	1,248.5	507.3	452.4	54.86	9.246		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Dr Ellis - Dr Ellis #123H - Wellbore #2 - State Plan #1 - On Lease													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,950.0	8,695.9	8,672.9	8,309.2	38.2	38.8	-40.37	952.1	1,271.0	512.7	458.0	54.70	9.373		
9,000.0	8,708.1	8,700.0	8,313.0	38.8	39.2	-39.89	952.1	1,297.8	516.9	462.0	54.85	9.423		
9,050.0	8,716.1	8,731.7	8,315.9	39.4	39.6	-39.55	952.1	1,329.4	519.7	464.4	55.29	9.400		
9,100.0	8,719.7	8,764.8	8,317.0	40.0	40.0	-39.38	952.1	1,362.5	521.1	465.2	55.93	9.318		
9,116.6	8,720.0	8,781.5	8,317.3	40.2	40.2	-39.39	952.0	1,379.2	521.0	464.8	56.23	9.266		
9,200.0	8,720.0	8,864.8	8,318.9	41.3	41.3	-39.49	951.9	1,462.5	519.8	461.9	57.88	8.981		
9,300.0	8,720.0	8,964.8	8,320.7	42.7	42.7	-39.61	951.7	1,562.5	518.3	458.4	59.97	8.643		
9,400.0	8,720.2	9,064.8	8,322.6	44.2	44.2	-39.72	951.5	1,662.4	516.9	454.8	62.19	8.312		
9,500.0	8,720.3	9,164.8	8,324.5	45.7	45.8	-39.83	951.3	1,762.4	515.6	451.1	64.52	7.991		
9,600.0	8,720.6	9,264.8	8,326.3	47.4	47.5	-39.94	951.1	1,862.4	514.3	447.3	66.95	7.681		
9,700.0	8,720.8	9,364.8	8,328.2	49.1	49.3	-40.05	950.9	1,962.3	513.0	443.5	69.47	7.384		
9,800.0	8,721.2	9,464.7	8,330.0	50.9	51.1	-40.15	950.7	2,062.3	511.8	439.7	72.08	7.100		
9,900.0	8,721.5	9,564.7	8,331.9	52.7	52.9	-40.25	950.5	2,162.3	510.6	435.8	74.75	6.830		
10,000.0	8,722.0	9,664.7	8,333.8	54.6	54.8	-40.35	950.3	2,262.3	509.4	431.9	77.50	6.573		
10,100.0	8,722.4	9,764.7	8,335.6	56.5	56.7	-40.44	950.1	2,362.2	508.3	428.0	80.31	6.329		
10,200.0	8,723.0	9,864.7	8,337.5	58.4	58.7	-40.53	949.9	2,462.2	507.2	424.0	83.17	6.098		
10,300.0	8,723.5	9,964.7	8,339.4	60.4	60.7	-40.61	949.7	2,562.2	506.2	420.1	86.09	5.880		
10,400.0	8,724.2	10,064.7	8,341.2	62.5	62.8	-40.70	949.5	2,662.2	505.2	416.1	89.05	5.673		
10,500.0	8,724.9	10,164.7	8,343.1	64.5	64.9	-40.77	949.3	2,762.1	504.2	412.2	92.05	5.478		
10,600.0	8,725.6	10,264.7	8,344.9	66.6	67.0	-40.85	949.1	2,862.1	503.3	408.2	95.08	5.293		
10,700.0	8,726.4	10,364.7	8,346.8	68.7	69.1	-40.92	948.9	2,962.1	502.4	404.3	98.16	5.119		
10,800.0	8,727.2	10,464.7	8,348.7	70.9	71.2	-40.99	948.7	3,062.1	501.6	400.3	101.26	4.954		
10,900.0	8,728.1	10,564.7	8,350.5	73.0	73.4	-41.05	948.5	3,162.0	500.8	396.4	104.39	4.797		
11,000.0	8,729.0	10,664.7	8,352.4	75.2	75.6	-41.11	948.3	3,262.0	500.0	392.5	107.54	4.650		
11,100.0	8,730.0	10,764.7	8,354.3	77.4	77.8	-41.17	948.1	3,362.0	499.3	388.6	110.71	4.510		
11,200.0	8,731.1	10,864.6	8,356.1	79.6	80.0	-41.23	947.9	3,462.0	498.6	384.7	113.91	4.377		
11,300.0	8,732.2	10,964.6	8,358.0	81.8	82.2	-41.28	947.7	3,562.0	498.0	380.9	117.12	4.252		
11,400.0	8,733.3	11,064.6	8,359.8	84.0	84.4	-41.32	947.5	3,661.9	497.4	377.0	120.35	4.133		
11,500.0	8,734.5	11,164.6	8,361.7	86.2	86.7	-41.36	947.3	3,761.9	496.8	373.2	123.59	4.020		
11,600.0	8,735.8	11,264.6	8,363.6	88.5	89.0	-41.40	947.1	3,861.9	496.3	369.4	126.84	3.913		
11,700.0	8,737.1	11,364.6	8,365.4	90.8	91.2	-41.44	946.9	3,961.9	495.8	365.7	130.10	3.811		
11,800.0	8,738.4	11,464.6	8,367.3	93.0	93.5	-41.47	946.7	4,061.9	495.3	362.0	133.38	3.714		
11,900.0	8,739.8	11,564.6	8,369.2	95.3	95.8	-41.49	946.5	4,161.8	494.9	358.3	136.65	3.622		
12,000.0	8,741.3	11,664.6	8,371.0	97.6	98.1	-41.52	946.3	4,261.8	494.6	354.6	139.94	3.534		
12,100.0	8,742.8	11,764.6	8,372.9	99.9	100.4	-41.53	946.1	4,361.8	494.2	351.0	143.23	3.451		
12,200.0	8,744.3	11,864.6	8,374.7	102.2	102.7	-41.55	945.9	4,461.8	493.9	347.4	146.52	3.371		
12,300.0	8,745.9	11,964.6	8,376.6	104.5	105.0	-41.56	945.7	4,561.8	493.7	343.9	149.81	3.295		
12,400.0	8,747.6	12,064.6	8,378.5	106.8	107.3	-41.57	945.5	4,661.7	493.5	340.4	153.10	3.223		
12,500.0	8,749.3	12,164.6	8,380.3	109.1	109.7	-41.57	945.3	4,761.7	493.3	336.9	156.39	3.154		
12,600.0	8,751.1	12,264.6	8,382.2	111.5	112.0	-41.57	945.1	4,861.7	493.1	333.5	159.68	3.088		
12,700.0	8,752.9	12,364.6	8,384.1	113.8	114.3	-41.56	944.9	4,961.7	493.0	330.1	162.97	3.025		
12,800.0	8,754.7	12,464.6	8,385.9	116.1	116.7	-41.56	944.7	5,061.7	493.0	326.7	166.25	2.965		
12,900.0	8,756.6	12,564.6	8,387.8	118.5	119.0	-41.54	944.5	5,161.7	492.9	323.4	169.53	2.908		
12,925.4	8,757.1	12,610.0	8,388.3	119.1	120.1	-41.54	944.5	5,187.1	492.9	322.2	170.69	2.888		
13,000.0	8,758.6	12,664.6	8,389.6	120.8	121.4	-41.53	944.3	5,261.6	492.9	320.1	172.80	2.853		
13,100.0	8,760.6	12,764.6	8,391.5	123.2	123.7	-41.51	944.1	5,361.6	493.0	316.9	176.06	2.800		
13,200.0	8,762.7	12,864.6	8,393.4	125.5	126.1	-41.48	943.9	5,461.6	493.1	313.8	179.32	2.750		
13,300.0	8,764.8	12,964.6	8,395.2	127.9	128.4	-41.45	943.7	5,561.6	493.2	310.6	182.56	2.701		
13,400.0	8,767.0	13,064.6	8,397.1	130.3	130.8	-41.42	943.5	5,661.6	493.4	307.6	185.80	2.655		
13,500.0	8,769.2	13,164.6	8,399.0	132.6	133.2	-41.38	943.3	5,761.6	493.6	304.5	189.03	2.611		
13,600.0	8,771.5	13,264.6	8,400.8	135.0	135.5	-41.34	943.1	5,861.5	493.8	301.6	192.24	2.569		
13,700.0	8,773.8	13,364.6	8,402.7	137.4	137.9	-41.30	942.9	5,961.5	494.1	298.6	195.45	2.528		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.0	8,776.2	13,464.6	8,404.5	139.7	140.3	-41.25	942.7	6,061.5	494.4	295.8	198.64	2.489		
13,900.0	8,778.6	13,564.6	8,406.4	142.1	142.7	-41.20	942.5	6,161.5	494.8	292.9	201.81	2.452		
14,000.0	8,781.1	13,664.6	8,408.3	144.5	145.0	-41.14	942.3	6,261.5	495.1	290.2	204.98	2.416		
14,100.0	8,783.6	13,764.6	8,410.1	146.9	147.4	-41.08	942.1	6,361.4	495.6	287.5	208.12	2.381		
14,200.0	8,786.2	13,864.6	8,412.0	149.2	149.8	-41.02	942.0	6,461.4	496.1	284.8	211.25	2.348		
14,300.0	8,788.8	13,964.6	8,413.9	151.6	152.2	-40.95	941.8	6,561.4	496.6	282.2	214.37	2.316		
14,400.0	8,791.5	14,064.6	8,415.7	154.0	154.6	-40.88	941.6	6,661.4	497.1	279.7	217.46	2.286		
14,500.0	8,794.2	14,164.6	8,417.6	156.4	157.0	-40.81	941.4	6,761.4	497.7	277.2	220.54	2.257		
14,600.0	8,797.0	14,264.6	8,419.4	158.8	159.3	-40.73	941.2	6,861.3	498.3	274.7	223.60	2.229		
14,614.8	8,797.4	14,279.4	8,419.7	159.1	159.7	-40.72	941.1	6,876.1	498.4	274.4	224.05	2.225		
14,700.0	8,799.8	14,364.6	8,421.3	161.2	161.7	-40.65	941.0	6,961.3	499.0	272.3	226.65	2.202		
14,800.0	8,802.7	14,464.6	8,423.2	163.6	164.1	-40.57	940.8	7,061.3	499.7	270.0	229.69	2.175		
14,900.0	8,805.5	14,564.6	8,425.0	166.0	166.5	-40.49	940.6	7,161.3	500.3	267.6	232.72	2.150		
15,000.0	8,808.3	14,664.6	8,426.9	168.4	168.9	-40.41	940.4	7,261.2	501.0	265.2	235.75	2.125		
15,100.0	8,811.1	14,764.6	8,428.8	170.8	171.3	-40.33	940.2	7,361.2	501.6	262.9	238.77	2.101		
15,200.0	8,813.9	14,864.6	8,430.6	173.2	173.7	-40.25	940.0	7,461.2	502.3	260.5	241.79	2.077		
15,300.0	8,816.8	14,964.6	8,432.5	175.6	176.1	-40.17	939.8	7,561.2	503.0	258.2	244.80	2.055		
15,400.0	8,819.6	15,064.6	8,434.3	178.0	178.5	-40.09	939.6	7,661.2	503.6	255.8	247.80	2.032		
15,500.0	8,822.4	15,164.6	8,436.2	180.4	180.9	-40.01	939.4	7,761.1	504.3	253.5	250.79	2.011		
15,600.0	8,825.2	15,264.6	8,438.1	182.8	183.3	-39.93	939.2	7,861.1	504.9	251.2	253.79	1.990		
15,700.0	8,828.0	15,364.6	8,439.9	185.2	185.7	-39.85	939.0	7,961.1	505.6	248.8	256.77	1.969		
15,800.0	8,830.8	15,464.5	8,441.8	187.6	188.2	-39.77	938.8	8,061.1	506.3	246.5	259.75	1.949		
15,900.0	8,833.7	15,564.5	8,443.7	190.0	190.6	-39.69	938.6	8,161.0	506.9	244.2	262.72	1.930		
16,000.0	8,836.5	15,664.5	8,445.5	192.4	193.0	-39.62	938.4	8,261.0	507.6	241.9	265.68	1.911		
16,100.0	8,839.3	15,764.5	8,447.4	194.8	195.4	-39.54	938.2	8,361.0	508.3	239.6	268.64	1.892		
16,200.0	8,842.1	15,864.5	8,449.2	197.2	197.8	-39.46	938.0	8,461.0	509.0	237.4	271.59	1.874		
16,300.0	8,844.9	15,964.5	8,451.1	199.6	200.2	-39.38	937.8	8,561.0	509.6	235.1	274.54	1.856		
16,400.0	8,847.8	16,064.5	8,453.0	202.0	202.6	-39.31	937.6	8,660.9	510.3	232.8	277.48	1.839		
16,500.0	8,850.6	16,164.5	8,454.8	204.4	205.0	-39.23	937.4	8,760.9	511.0	230.6	280.41	1.822		
16,600.0	8,853.4	16,264.5	8,456.7	206.8	207.4	-39.15	937.2	8,860.9	511.6	228.3	283.33	1.806		
16,700.0	8,856.2	16,364.5	8,458.6	209.3	209.9	-39.08	937.0	8,960.9	512.3	226.1	286.25	1.790		
16,800.0	8,859.0	16,464.5	8,460.4	211.7	212.3	-39.00	936.8	9,060.8	513.0	223.8	289.16	1.774		
16,900.0	8,861.8	16,564.5	8,462.3	214.1	214.7	-38.92	936.6	9,160.8	513.7	221.6	292.07	1.759		
17,000.0	8,864.7	16,664.5	8,464.1	216.5	217.1	-38.85	936.4	9,260.8	514.4	219.4	294.97	1.744		
17,100.0	8,867.5	16,764.5	8,466.0	218.9	219.5	-38.77	936.2	9,360.8	515.0	217.2	297.86	1.729		
17,200.0	8,870.3	16,864.5	8,467.9	221.3	221.9	-38.70	936.0	9,460.8	515.7	215.0	300.74	1.715		
17,300.0	8,873.1	16,964.5	8,469.7	223.8	224.4	-38.62	935.8	9,560.7	516.4	212.8	303.62	1.701		
17,400.0	8,875.9	17,064.5	8,471.6	226.2	226.8	-38.54	935.6	9,660.7	517.1	210.6	306.49	1.687		
17,500.0	8,878.8	17,164.5	8,473.5	228.6	229.2	-38.47	935.4	9,760.7	517.8	208.4	309.36	1.674		
17,600.0	8,881.6	17,264.5	8,475.3	231.0	231.6	-38.39	935.2	9,860.7	518.4	206.2	312.22	1.661		
17,700.0	8,884.4	17,364.5	8,477.2	233.4	234.0	-38.32	935.0	9,960.6	519.1	204.1	315.07	1.648		
17,800.0	8,887.2	17,464.5	8,479.0	235.9	236.5	-38.25	934.8	10,060.6	519.8	201.9	317.91	1.635		
17,900.0	8,890.0	17,564.5	8,480.9	238.3	238.9	-38.17	934.6	10,160.6	520.5	199.7	320.75	1.623		
18,000.0	8,892.8	17,664.4	8,482.8	240.7	241.3	-38.10	934.4	10,260.6	521.2	197.6	323.58	1.611		
18,100.0	8,895.7	17,764.4	8,484.6	243.1	243.7	-38.02	934.2	10,360.6	521.9	195.5	326.41	1.599		
18,200.0	8,898.5	17,864.4	8,486.5	245.5	246.2	-37.95	934.0	10,460.5	522.6	193.3	329.22	1.587		
18,300.0	8,901.3	17,964.4	8,488.4	248.0	248.6	-37.88	933.8	10,560.5	523.3	191.2	332.04	1.576		
18,400.0	8,904.1	18,064.4	8,490.2	250.4	251.0	-37.80	933.6	10,660.5	523.9	189.1	334.84	1.565		
18,500.0	8,906.9	18,164.4	8,492.1	252.8	253.4	-37.73	933.4	10,760.5	524.6	187.0	337.64	1.554		
18,600.0	8,909.8	18,264.4	8,493.9	255.2	255.9	-37.66	933.2	10,860.4	525.3	184.9	340.43	1.543		
18,700.0	8,912.6	18,364.4	8,495.8	257.7	258.3	-37.58	933.0	10,960.4	526.0	182.8	343.21	1.533		
18,800.0	8,915.4	18,464.4	8,497.7	260.1	260.7	-37.51	932.8	11,060.4	526.7	180.7	345.99	1.522		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design	Dr Ellis - Dr Ellis #123H - Wellbore #2 - State Plan #1 - On Lease											Offset Site Error:	0.0 usft
Survey Program:	0-MWD											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,900.0	8,918.2	18,564.4	8,499.5	262.5	263.1	-37.44	932.6	11,160.4	527.4	178.6	348.76	1.512	
18,963.5	8,920.0	18,616.8	8,500.5	264.1	264.4	-37.40	932.5	11,212.7	528.0	177.5	350.45	1.507 SF	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	-0.04	139.5	-0.1	139.5					
100.0	100.0	100.0	100.0	0.1	0.1	-0.04	139.5	-0.1	139.5	139.2	0.26	544.127		
200.0	200.0	200.0	200.0	0.5	0.5	-0.04	139.5	-0.1	139.5	138.5	0.97	143.297		
300.0	300.0	300.0	300.0	0.8	0.8	-0.04	139.5	-0.1	139.5	137.8	1.69	82.514		
400.0	400.0	400.0	400.0	1.2	1.2	-0.04	139.5	-0.1	139.5	137.1	2.41	57.938		
500.0	500.0	500.0	500.0	1.6	1.6	-0.04	139.5	-0.1	139.5	136.3	3.12	44.642		
600.0	599.9	600.1	599.9	1.9	1.9	-53.65	139.5	-0.1	136.8	133.0	3.84	35.624		
660.0	659.5	659.5	659.5	2.2	2.1	-56.16	139.5	-0.1	132.9	128.6	4.28	31.086		
700.0	699.1	700.9	699.1	2.3	2.3	-58.19	139.5	-0.1	129.9	125.3	4.57	28.402		
800.0	798.1	801.9	798.1	2.7	2.6	-63.66	139.5	-0.1	123.0	117.7	5.31	23.170		
900.0	897.1	902.9	897.1	3.1	3.0	-69.70	139.5	-0.1	117.5	111.4	6.06	19.381		
1,000.0	996.2	996.2	996.2	3.5	3.3	-76.25	139.5	-0.1	113.4	106.6	6.80	16.683		
1,100.0	1,095.2	1,102.8	1,097.2	3.9	3.7	-82.52	139.2	1.9	109.6	102.0	7.57	14.483		
1,200.0	1,194.2	1,203.5	1,196.4	4.3	4.1	-88.68	138.7	4.8	106.5	98.2	8.32	12.807		
1,300.0	1,293.3	1,304.2	1,295.7	4.7	4.4	-95.12	138.3	7.7	104.8	95.7	9.07	11.553		
1,377.1	1,369.6	1,372.4	1,372.2	5.0	4.6	-100.19	138.0	10.0	104.3	94.7	9.61	10.856 CC		
1,400.0	1,392.3	1,405.0	1,394.9	5.1	4.8	-101.69	137.9	10.6	104.4	94.6	9.82	10.635 ES		
1,500.0	1,491.3	1,505.7	1,494.1	5.5	5.1	-108.23	137.5	13.5	105.4	94.8	10.55	9.986		
1,600.0	1,590.3	1,606.4	1,593.3	5.9	5.5	-114.56	137.0	16.4	107.8	96.5	11.29	9.549		
1,700.0	1,689.4	1,707.1	1,692.6	6.3	5.8	-120.55	136.6	19.3	111.4	99.4	12.01	9.278		
1,800.0	1,788.4	1,807.9	1,791.8	6.7	6.2	-126.11	136.2	22.2	116.2	103.5	12.72	9.133		
1,900.0	1,887.4	1,908.6	1,891.0	7.1	6.5	-131.19	135.7	25.1	122.0	108.5	13.43	9.082		
2,000.0	1,986.4	2,009.3	1,990.2	7.6	6.9	-135.79	135.3	28.0	128.7	114.5	14.14	9.101		
2,100.0	2,085.5	2,089.9	2,089.5	8.0	7.2	-139.91	134.9	30.9	136.1	121.3	14.77	9.213		
2,200.0	2,184.5	2,189.2	2,188.7	8.4	7.5	-143.59	134.5	33.8	144.1	128.7	15.47	9.316		
2,300.0	2,283.5	2,288.5	2,287.9	8.8	7.9	-146.88	134.0	36.7	152.7	136.5	16.17	9.444		
2,400.0	2,382.5	2,387.7	2,387.1	9.2	8.2	-149.80	133.6	39.6	161.7	144.9	16.87	9.586		
2,500.0	2,481.6	2,487.0	2,486.4	9.6	8.6	-152.42	133.2	42.5	171.2	153.6	17.58	9.737		
2,600.0	2,580.6	2,586.3	2,585.6	10.1	8.9	-154.76	132.7	45.4	180.9	162.6	18.28	9.893		
2,700.0	2,679.6	2,685.5	2,684.8	10.5	9.3	-156.86	132.3	48.3	190.9	171.9	18.99	10.050		
2,800.0	2,778.7	2,784.8	2,784.0	10.9	9.7	-158.74	131.9	51.2	201.1	181.4	19.70	10.207		
2,900.0	2,877.7	2,884.1	2,883.3	11.3	10.0	-160.45	131.5	54.1	211.5	191.1	20.41	10.361		
3,000.0	2,976.7	2,983.3	2,982.5	11.7	10.4	-161.99	131.0	57.0	222.1	201.0	21.13	10.513		
3,100.0	3,075.7	3,082.6	3,081.7	12.1	10.7	-163.39	130.6	59.9	232.8	211.0	21.84	10.660		
3,200.0	3,174.8	3,181.9	3,180.9	12.6	11.1	-164.67	130.2	62.8	243.7	221.1	22.56	10.803		
3,300.0	3,273.8	3,281.1	3,280.2	13.0	11.4	-165.84	129.7	65.7	254.7	231.4	23.28	10.942		
3,400.0	3,372.8	3,380.4	3,379.4	13.4	11.8	-166.92	129.3	68.6	265.7	241.7	23.99	11.075		
3,500.0	3,471.8	3,479.7	3,478.6	13.8	12.2	-167.90	128.9	71.5	276.9	252.2	24.71	11.204		
3,600.0	3,570.9	3,578.9	3,577.8	14.2	12.5	-168.81	128.5	74.4	288.1	262.7	25.43	11.329		
3,700.0	3,669.9	3,678.2	3,677.0	14.7	12.9	-169.65	128.0	77.3	299.4	273.3	26.15	11.448		
3,800.0	3,768.9	3,777.5	3,776.3	15.1	13.2	-170.43	127.6	80.3	310.8	283.9	26.88	11.563		
3,900.0	3,867.9	3,876.7	3,875.5	15.5	13.6	-171.16	127.2	83.2	322.2	294.6	27.60	11.674		
4,000.0	3,967.0	3,976.0	3,974.7	15.9	13.9	-171.84	126.7	86.1	333.6	305.3	28.32	11.781		
4,100.0	4,066.0	4,075.3	4,073.9	16.3	14.3	-172.47	126.3	89.0	345.1	316.1	29.04	11.883		
4,200.0	4,165.0	4,174.5	4,173.2	16.7	14.7	-173.06	125.9	91.9	356.7	326.9	29.77	11.982		
4,300.0	4,264.1	4,273.8	4,272.4	17.2	15.0	-173.61	125.5	94.8	368.2	337.7	30.49	12.077		
4,400.0	4,363.1	4,373.1	4,371.6	17.6	15.4	-174.13	125.0	97.7	379.8	348.6	31.22	12.168		
4,500.0	4,462.1	4,472.3	4,470.8	18.0	15.7	-174.62	124.6	100.6	391.5	359.5	31.94	12.256		
4,600.0	4,561.1	4,571.6	4,570.1	18.4	16.1	-175.08	124.2	103.5	403.1	370.5	32.66	12.341		
4,700.0	4,660.2	4,670.9	4,669.3	18.8	16.4	-175.52	123.7	106.4	414.8	381.4	33.39	12.423		
4,800.0	4,759.2	4,770.1	4,768.5	19.2	16.8	-175.93	123.3	109.3	426.5	392.4	34.12	12.502		
4,900.0	4,858.2	4,869.4	4,867.7	19.7	17.2	-176.32	122.9	112.2	438.2	403.4	34.84	12.578		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,969.8	4,968.0	20.1	17.5	-176.69	122.5	115.1	450.0	414.4	35.58	12.648		
5,100.0	5,056.3	5,086.2	5,084.4	20.5	17.9	-176.70	126.0	118.7	459.6	423.2	36.39	12.630		
5,200.0	5,155.3	5,203.0	5,200.6	20.9	18.3	-176.01	136.6	122.7	465.6	428.5	37.16	12.531		
5,300.0	5,254.3	5,319.4	5,315.6	21.3	18.7	-174.65	154.2	126.9	468.1	430.2	37.88	12.358		
5,400.0	5,353.4	5,434.5	5,428.0	21.8	19.1	-172.62	178.5	131.5	467.3	428.7	38.57	12.115		
5,500.0	5,452.4	5,547.5	5,536.7	22.2	19.5	-169.93	208.9	136.2	463.9	424.6	39.27	11.812		
5,600.0	5,551.4	5,662.3	5,645.0	22.6	19.9	-166.38	246.7	141.3	458.3	418.4	39.99	11.462		
5,700.0	5,650.4	5,777.9	5,749.9	23.0	20.4	-161.53	294.7	147.1	450.1	409.4	40.79	11.037		
5,800.0	5,749.5	5,884.7	5,842.0	23.4	20.8	-155.75	348.2	153.0	441.2	399.4	41.80	10.555		
5,900.0	5,848.5	5,979.8	5,919.7	23.9	21.3	-149.52	402.8	158.7	434.3	391.3	43.02	10.096		
5,970.7	5,918.5	6,040.1	5,968.1	24.1	21.5	-145.35	438.6	162.4	432.8	388.9	43.90	9.859		
6,000.0	5,947.5	6,065.0	5,988.1	24.3	21.7	-143.62	453.4	163.9	433.0	388.8	44.24	9.789		
6,100.0	6,046.5	6,150.2	6,056.4	24.7	22.1	-137.76	504.0	169.2	438.0	392.7	45.33	9.664		
6,200.0	6,145.6	6,235.4	6,124.8	25.1	22.6	-132.05	554.6	174.4	449.1	402.8	46.26	9.707		
6,300.0	6,244.6	6,320.6	6,193.1	25.5	23.1	-126.60	605.2	179.6	465.8	418.8	47.06	9.900		
6,400.0	6,343.6	6,405.8	6,261.5	25.9	23.6	-121.48	655.8	184.8	487.6	439.9	47.72	10.218		
6,500.0	6,442.6	6,509.0	6,329.8	26.4	24.2	-116.74	706.3	190.0	513.9	465.5	48.41	10.615		
6,600.0	6,541.7	6,576.2	6,398.2	26.8	24.6	-112.38	756.9	195.3	543.9	495.1	48.82	11.141		
6,700.0	6,640.7	6,661.4	6,466.6	27.2	25.2	-108.42	807.5	200.5	577.1	527.8	49.31	11.705		
6,800.0	6,739.7	6,746.6	6,534.9	27.6	25.8	-104.83	858.1	205.7	613.0	563.2	49.78	12.314		
6,900.0	6,838.8	6,831.8	6,603.3	28.0	26.4	-101.58	908.7	210.9	651.1	600.9	50.26	12.957		
7,000.0	6,937.8	6,917.0	6,671.6	28.5	27.0	-98.66	959.3	216.1	691.1	640.4	50.74	13.621		
7,100.0	7,036.8	7,002.2	6,740.0	28.9	27.6	-96.02	1,009.9	221.3	732.7	681.5	51.24	14.299		
7,200.0	7,135.8	7,087.4	6,808.3	29.3	28.2	-93.63	1,060.5	226.6	775.6	723.8	51.76	14.983		
7,300.0	7,234.9	7,172.6	6,876.7	29.7	28.9	-91.47	1,111.1	231.8	819.5	767.2	52.30	15.668		
7,400.0	7,333.9	7,257.8	6,945.0	30.1	29.5	-89.52	1,161.7	237.0	864.4	811.6	52.86	16.352		
7,500.0	7,432.9	7,343.0	7,013.4	30.5	30.2	-87.74	1,212.3	242.2	910.1	856.7	53.44	17.030		
7,583.1	7,515.2	7,437.6	7,089.6	30.9	30.9	-85.98	1,267.9	248.0	948.5	893.9	54.58	17.378		
7,600.0	7,531.9	7,480.4	7,125.2	31.0	31.3	-85.42	1,291.6	250.4	955.8	900.4	55.41	17.248		
7,700.0	7,631.2	7,765.9	7,382.1	31.4	33.2	-83.18	1,413.8	263.0	989.2	929.2	59.99	16.490		
7,800.0	7,730.7	8,090.1	7,700.0	31.8	34.6	-83.12	1,471.3	268.9	1,002.5	940.0	62.54	16.031		
7,900.0	7,830.5	8,307.2	7,914.4	32.1	35.3	-82.47	1,478.5	294.1	998.1	935.1	62.99	15.845		
8,000.0	7,930.4	8,476.8	8,066.6	32.5	36.0	-78.53	1,496.8	365.3	985.8	922.6	63.14	15.613		
8,100.0	8,030.4	8,598.9	8,159.4	32.8	36.6	-73.81	1,516.5	441.8	971.4	907.7	63.64	15.264		
8,116.4	8,046.8	8,614.8	8,170.3	32.8	36.7	-21.02	1,519.4	453.2	969.2	905.5	63.76	15.200		
8,200.0	8,130.4	8,682.7	8,212.5	33.1	37.0	-17.87	1,532.6	504.6	960.2	895.7	64.50	14.887		
8,216.6	8,147.0	8,694.0	8,218.9	33.1	37.1	-17.31	1,534.9	513.6	958.9	894.2	64.65	14.831		
8,250.0	8,180.4	8,715.7	8,230.7	33.3	37.2	-106.48	1,539.4	531.2	957.0	892.0	64.98	14.728		
8,281.7	8,211.9	8,735.7	8,241.0	33.4	37.3	-105.55	1,543.7	547.9	956.4	891.1	65.30	14.647		
8,300.0	8,230.1	8,747.1	8,246.6	33.4	37.4	-104.99	1,546.2	557.5	956.6	891.1	65.48	14.609		
8,350.0	8,279.2	8,777.6	8,260.5	33.6	37.6	-103.31	1,552.9	583.7	959.0	893.0	66.00	14.530		
8,400.0	8,327.3	8,807.3	8,272.6	33.9	37.8	-101.45	1,559.6	610.0	964.0	897.5	66.52	14.493		
8,450.0	8,374.0	8,836.3	8,283.2	34.1	38.0	-99.42	1,566.4	636.2	971.4	904.4	67.03	14.493		
8,500.0	8,419.0	8,864.8	8,292.1	34.4	38.2	-97.22	1,573.1	662.4	981.1	913.5	67.52	14.529		
8,550.0	8,461.9	8,892.8	8,299.6	34.7	38.4	-94.89	1,579.8	688.5	992.7	924.6	68.01	14.595		
8,600.0	8,502.4	8,920.5	8,305.7	35.1	38.6	-92.44	1,586.5	714.7	1,006.0	937.5	68.50	14.685		
8,650.0	8,540.2	8,950.0	8,310.8	35.4	38.8	-89.83	1,593.7	742.8	1,020.7	951.7	69.01	14.791		
8,700.0	8,575.0	8,975.0	8,313.9	35.8	39.0	-87.31	1,599.9	766.9	1,036.7	967.1	69.52	14.912		
8,750.0	8,606.6	9,000.0	8,315.9	36.2	39.2	-84.75	1,606.1	791.0	1,053.5	983.5	70.06	15.038		
8,800.0	8,634.7	9,037.0	8,317.1	36.7	39.6	-81.87	1,615.3	826.7	1,071.1	1,000.4	70.70	15.150		
8,850.0	8,659.0	9,103.8	8,318.4	37.2	40.2	-78.56	1,630.8	891.8	1,088.0	1,016.4	71.55	15.207		
8,900.0	8,679.5	9,174.3	8,319.8	37.7	40.9	-75.72	1,645.6	960.7	1,103.3	1,030.8	72.54	15.211		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,950.0	8,695.9	9,247.9	8,321.2	38.2	41.7	-73.42	1,659.1	1,033.0	1,116.7	1,043.0	73.65	15.162		
9,000.0	8,708.1	9,323.9	8,322.7	38.8	42.5	-71.68	1,671.2	1,108.0	1,127.8	1,052.9	74.89	15.059		
9,050.0	8,716.1	9,401.8	8,324.2	39.4	43.4	-70.50	1,681.5	1,185.2	1,136.4	1,060.2	76.25	14.904		
9,100.0	8,719.7	9,480.9	8,325.7	40.0	44.4	-69.89	1,689.8	1,263.9	1,142.3	1,064.6	77.73	14.697		
9,116.6	8,720.0	9,507.4	8,326.1	40.2	44.8	-69.80	1,692.1	1,290.2	1,143.7	1,065.4	78.22	14.620		
9,200.0	8,720.0	9,640.5	8,328.6	41.3	46.6	-70.06	1,699.9	1,423.1	1,147.8	1,067.0	80.85	14.197		
9,300.0	8,720.0	9,800.7	8,331.5	42.7	48.9	-70.21	1,701.2	1,583.2	1,148.1	1,064.0	84.05	13.659		
9,400.0	8,720.2	9,960.5	8,334.4	44.2	51.4	-70.21	1,693.5	1,742.8	1,143.1	1,055.8	87.27	13.098		
9,500.0	8,720.3	10,064.6	8,336.2	45.7	53.0	-70.14	1,685.2	1,846.6	1,135.1	1,044.6	90.51	12.541		
9,600.0	8,720.6	10,164.3	8,337.9	47.4	54.7	-70.08	1,677.2	1,945.9	1,127.2	1,033.3	93.86	12.009		
9,700.0	8,720.8	10,264.0	8,339.7	49.1	56.4	-70.01	1,669.2	2,045.3	1,119.2	1,021.9	97.31	11.502		
9,800.0	8,721.2	10,363.7	8,341.4	50.9	58.2	-69.94	1,661.3	2,144.6	1,111.3	1,010.5	100.85	11.020		
9,900.0	8,721.5	10,463.3	8,343.2	52.7	60.1	-69.86	1,653.3	2,243.9	1,103.4	999.0	104.47	10.562		
10,000.0	8,722.0	10,563.0	8,344.9	54.6	62.0	-69.78	1,645.3	2,343.3	1,095.6	987.4	108.16	10.129		
10,100.0	8,722.4	10,662.7	8,346.7	56.5	63.9	-69.70	1,637.3	2,442.6	1,087.7	975.8	111.91	9.720		
10,200.0	8,723.0	10,762.4	8,348.4	58.4	65.9	-69.61	1,629.3	2,542.0	1,079.9	964.2	115.71	9.332		
10,300.0	8,723.5	10,862.0	8,350.1	60.4	67.9	-69.52	1,621.4	2,641.3	1,072.0	952.5	119.57	8.966		
10,400.0	8,724.2	10,961.7	8,351.9	62.5	69.9	-69.43	1,613.4	2,740.7	1,064.3	940.8	123.46	8.620		
10,500.0	8,724.9	11,061.4	8,353.6	64.5	72.0	-69.33	1,605.4	2,840.0	1,056.5	929.1	127.40	8.293		
10,600.0	8,725.6	11,161.1	8,355.4	66.6	74.1	-69.23	1,597.4	2,939.4	1,048.7	917.4	131.37	7.983		
10,700.0	8,726.4	11,260.8	8,357.1	68.7	76.2	-69.12	1,589.4	3,038.7	1,041.0	905.6	135.36	7.690		
10,800.0	8,727.2	11,360.5	8,358.9	70.9	78.3	-69.01	1,581.5	3,138.1	1,033.3	893.9	139.39	7.413		
10,900.0	8,728.1	11,460.1	8,360.6	73.0	80.5	-68.89	1,573.5	3,237.4	1,025.6	882.2	143.43	7.150		
11,000.0	8,729.0	11,559.8	8,362.3	75.2	82.7	-68.77	1,565.5	3,336.8	1,017.9	870.4	147.50	6.901		
11,100.0	8,730.0	11,659.5	8,364.1	77.4	84.9	-68.65	1,557.5	3,436.1	1,010.3	858.7	151.58	6.665		
11,200.0	8,731.1	11,759.2	8,365.8	79.6	87.1	-68.52	1,549.6	3,535.5	1,002.7	847.0	155.67	6.441		
11,300.0	8,732.2	11,858.9	8,367.6	81.8	89.3	-68.39	1,541.6	3,634.8	995.1	835.3	159.78	6.228		
11,400.0	8,733.3	11,958.6	8,369.3	84.0	91.5	-68.25	1,533.6	3,734.2	987.5	823.6	163.89	6.025		
11,500.0	8,734.5	12,058.3	8,371.1	86.2	93.7	-68.11	1,525.6	3,833.5	980.0	811.9	168.01	5.833		
11,600.0	8,735.8	12,157.9	8,372.8	88.5	96.0	-67.96	1,517.6	3,932.9	972.4	800.3	172.14	5.649		
11,700.0	8,737.1	12,257.6	8,374.5	90.8	98.2	-67.80	1,509.7	4,032.2	964.9	788.7	176.26	5.474		
11,800.0	8,738.4	12,357.3	8,376.3	93.0	100.5	-67.65	1,501.7	4,131.6	957.5	777.1	180.39	5.308		
11,900.0	8,739.8	12,457.0	8,378.0	95.3	102.8	-67.48	1,493.7	4,230.9	950.0	765.5	184.51	5.149		
12,000.0	8,741.3	12,556.7	8,379.8	97.6	105.1	-67.31	1,485.7	4,330.3	942.6	754.0	188.64	4.997		
12,100.0	8,742.8	12,656.4	8,381.5	99.9	107.4	-67.14	1,477.7	4,429.6	935.2	742.5	192.75	4.852		
12,200.0	8,744.3	12,756.1	8,383.3	102.2	109.7	-66.96	1,469.8	4,529.0	927.9	731.0	196.86	4.713		
12,300.0	8,745.9	12,855.7	8,385.0	104.5	112.0	-66.77	1,461.8	4,628.3	920.5	719.6	200.97	4.580		
12,400.0	8,747.6	12,955.4	8,386.7	106.8	114.3	-66.58	1,453.8	4,727.7	913.2	708.2	205.06	4.453		
12,500.0	8,749.3	13,055.1	8,388.5	109.1	116.6	-66.38	1,445.8	4,827.0	906.0	696.8	209.14	4.332		
12,600.0	8,751.1	13,154.8	8,390.2	111.5	118.9	-66.18	1,437.8	4,926.4	898.7	685.5	213.21	4.215		
12,700.0	8,752.9	13,254.5	8,392.0	113.8	121.3	-65.97	1,429.9	5,025.7	891.5	674.2	217.26	4.103		
12,800.0	8,754.7	13,354.2	8,393.7	116.1	123.6	-65.75	1,421.9	5,125.1	884.3	663.0	221.30	3.996		
12,900.0	8,756.6	13,453.9	8,395.5	118.5	125.9	-65.53	1,413.9	5,224.4	877.2	651.9	225.32	3.893		
13,000.0	8,758.6	13,553.5	8,397.2	120.8	128.3	-65.30	1,405.9	5,323.8	870.1	640.8	229.32	3.794		
13,100.0	8,760.6	13,653.2	8,398.9	123.2	130.6	-65.06	1,397.9	5,423.1	863.0	629.7	233.30	3.699		
13,200.0	8,762.7	13,752.9	8,400.7	125.5	133.0	-64.82	1,390.0	5,522.5	856.0	618.7	237.26	3.608		
13,300.0	8,764.8	13,852.6	8,402.4	127.9	135.3	-64.56	1,382.0	5,621.8	849.0	607.8	241.19	3.520		
13,400.0	8,767.0	13,952.3	8,404.2	130.3	137.7	-64.31	1,374.0	5,721.2	842.0	596.9	245.10	3.435		
13,500.0	8,769.2	14,052.0	8,405.9	132.6	140.0	-64.04	1,366.0	5,820.5	835.1	586.1	248.97	3.354		
13,600.0	8,771.5	14,151.7	8,407.7	135.0	142.4	-63.77	1,358.1	5,919.9	828.2	575.4	252.82	3.276		
13,700.0	8,773.8	14,251.4	8,409.4	137.4	144.8	-63.49	1,350.1	6,019.2	821.4	564.7	256.64	3.201		
13,800.0	8,776.2	14,351.0	8,411.1	139.7	147.1	-63.20	1,342.1	6,118.6	814.6	554.2	260.42	3.128		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.0	8,778.6	14,450.7	8,412.9	142.1	149.5	-62.90	1,334.1	6,217.9	807.8	543.7	264.17	3.058		
14,000.0	8,781.1	14,550.4	8,414.6	144.5	151.9	-62.59	1,326.1	6,317.3	801.1	533.2	267.87	2.991		
14,100.0	8,783.6	14,650.1	8,416.4	146.9	154.3	-62.28	1,318.2	6,416.6	794.5	522.9	271.54	2.926		
14,200.0	8,786.2	14,749.8	8,418.1	149.2	156.6	-61.96	1,310.2	6,516.0	787.8	512.7	275.17	2.863		
14,300.0	8,788.8	14,849.5	8,419.9	151.6	159.0	-61.63	1,302.2	6,615.3	781.3	502.5	278.75	2.803		
14,400.0	8,791.5	14,949.1	8,421.6	154.0	161.4	-61.29	1,294.2	6,714.7	774.8	492.5	282.28	2.745		
14,500.0	8,794.2	15,048.8	8,423.3	156.4	163.8	-60.94	1,286.2	6,814.0	768.3	482.5	285.77	2.689		
14,600.0	8,797.0	15,148.5	8,425.1	158.8	166.2	-60.58	1,278.3	6,913.4	761.9	472.7	289.20	2.634		
14,614.8	8,797.4	15,163.2	8,425.3	159.1	166.5	-60.53	1,277.1	6,928.0	760.9	471.2	289.70	2.627		
14,700.0	8,799.8	15,248.2	8,426.8	161.2	168.5	-60.22	1,270.3	7,012.7	755.5	462.9	292.58	2.582		
14,800.0	8,802.7	15,347.9	8,428.6	163.6	170.9	-59.85	1,262.3	7,112.1	749.2	453.3	295.91	2.532		
14,900.0	8,805.5	15,447.5	8,430.3	166.0	173.3	-59.47	1,254.3	7,211.4	742.9	443.7	299.19	2.483		
15,000.0	8,808.3	15,547.2	8,432.1	168.4	175.7	-59.09	1,246.3	7,310.7	736.6	434.2	302.42	2.436		
15,100.0	8,811.1	15,646.9	8,433.8	170.8	178.1	-58.70	1,238.4	7,410.1	730.4	424.8	305.59	2.390		
15,200.0	8,813.9	15,746.6	8,435.5	173.2	180.5	-58.30	1,230.4	7,509.4	724.2	415.5	308.71	2.346		
15,300.0	8,816.8	15,846.3	8,437.3	175.6	182.9	-57.90	1,222.4	7,608.8	718.0	406.3	311.76	2.303		
15,400.0	8,819.6	15,945.9	8,439.0	178.0	185.3	-57.49	1,214.4	7,708.1	711.9	397.1	314.76	2.262		
15,500.0	8,822.4	16,045.6	8,440.8	180.4	187.7	-57.07	1,206.5	7,807.5	705.8	388.1	317.69	2.222		
15,600.0	8,825.2	16,145.3	8,442.5	182.8	190.1	-56.65	1,198.5	7,906.8	699.8	379.2	320.55	2.183		
15,700.0	8,828.0	16,245.0	8,444.3	185.2	192.5	-56.21	1,190.5	8,006.2	693.7	370.4	323.34	2.146		
15,800.0	8,830.8	16,344.7	8,446.0	187.6	194.9	-55.77	1,182.5	8,105.5	687.8	361.7	326.06	2.109		
15,900.0	8,833.7	16,444.4	8,447.7	190.0	197.3	-55.33	1,174.5	8,204.9	681.8	353.1	328.71	2.074		
16,000.0	8,836.5	16,544.0	8,449.5	192.4	199.7	-54.87	1,166.6	8,304.2	675.9	344.7	331.28	2.040		
16,100.0	8,839.3	16,643.7	8,451.2	194.8	202.1	-54.41	1,158.6	8,403.6	670.1	336.3	333.77	2.008		
16,200.0	8,842.1	16,743.4	8,453.0	197.2	204.5	-53.94	1,150.6	8,502.9	664.3	328.1	336.17	1.976		
16,300.0	8,844.9	16,843.1	8,454.7	199.6	206.9	-53.46	1,142.6	8,602.2	658.5	320.1	338.49	1.946		
16,400.0	8,847.8	16,942.8	8,456.5	202.0	209.3	-52.97	1,134.6	8,701.6	652.8	312.1	340.72	1.916		
16,500.0	8,850.6	17,042.4	8,458.2	204.4	211.8	-52.48	1,126.7	8,800.9	647.2	304.3	342.86	1.888		
16,600.0	8,853.4	17,142.1	8,459.9	206.8	214.2	-51.97	1,118.7	8,900.3	641.6	296.7	344.90	1.860		
16,700.0	8,856.2	17,241.8	8,461.7	209.3	216.6	-51.46	1,110.7	8,999.6	636.0	289.2	346.84	1.834		
16,800.0	8,859.0	17,341.5	8,463.4	211.7	219.0	-50.94	1,102.7	9,099.0	630.5	281.8	348.68	1.808		
16,900.0	8,861.8	17,441.2	8,465.2	214.1	221.4	-50.40	1,094.8	9,198.3	625.0	274.6	350.42	1.784		
17,000.0	8,864.7	17,540.8	8,466.9	216.5	223.8	-49.86	1,086.8	9,297.7	619.6	267.6	352.04	1.760		
17,100.0	8,867.5	17,640.5	8,468.7	218.9	226.2	-49.31	1,078.8	9,397.0	614.3	260.7	353.55	1.737		
17,200.0	8,870.3	17,740.2	8,470.4	221.3	228.6	-48.75	1,070.8	9,496.4	609.0	254.1	354.94	1.716		
17,300.0	8,873.1	17,839.9	8,472.1	223.8	231.1	-48.18	1,062.8	9,595.7	603.8	247.6	356.21	1.695		
17,400.0	8,875.9	17,939.6	8,473.9	226.2	233.5	-47.60	1,054.9	9,695.0	598.6	241.2	357.36	1.675		
17,500.0	8,878.8	18,039.2	8,475.6	228.6	235.9	-47.01	1,046.9	9,794.4	593.5	235.1	358.38	1.656		
17,600.0	8,881.6	18,138.9	8,477.4	231.0	238.3	-46.41	1,038.9	9,893.7	588.5	229.2	359.27	1.638		
17,700.0	8,884.4	18,238.6	8,479.1	233.4	240.7	-45.80	1,030.9	9,993.1	583.5	223.5	360.02	1.621		
17,800.0	8,887.2	18,338.3	8,480.9	235.9	243.1	-45.18	1,022.9	10,092.4	578.6	217.9	360.64	1.604		
17,900.0	8,890.0	18,438.0	8,482.6	238.3	245.6	-44.55	1,015.0	10,191.8	573.7	212.6	361.11	1.589		
18,000.0	8,892.8	18,537.6	8,484.3	240.7	248.0	-43.91	1,007.0	10,291.1	569.0	207.5	361.43	1.574		
18,100.0	8,895.7	18,637.3	8,486.1	243.1	250.4	-43.26	999.0	10,390.5	564.3	202.7	361.60	1.560		
18,200.0	8,898.5	18,737.0	8,487.8	245.5	252.8	-42.60	991.0	10,489.8	559.6	198.0	361.62	1.548		
18,300.0	8,901.3	18,836.7	8,489.6	248.0	255.2	-41.92	983.1	10,589.2	555.1	193.6	361.47	1.536		
18,400.0	8,904.1	18,936.4	8,491.3	250.4	257.7	-41.24	975.1	10,688.5	550.6	189.5	361.17	1.525		
18,500.0	8,906.9	19,036.1	8,493.0	252.8	260.1	-40.54	967.1	10,787.9	546.2	185.5	360.70	1.514		
18,600.0	8,909.8	19,135.7	8,494.8	255.2	262.5	-39.83	959.1	10,887.2	541.9	181.9	360.06	1.505		
18,700.0	8,912.6	19,235.4	8,496.5	257.7	264.9	-39.12	951.1	10,986.5	537.7	178.5	359.26	1.497 Level 3		
18,800.0	8,915.4	19,335.1	8,498.3	260.1	267.4	-38.39	943.2	11,085.9	533.6	175.3	358.27	1.489 Level 3		
18,900.0	8,918.2	19,434.8	8,500.0	262.5	269.8	-37.65	935.2	11,185.2	529.5	172.4	357.11	1.483 Level 3		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design		Dr Ellis - Dr Ellis #123H - Wellbore #2 - State Plan #2 - Off Lease										Offset Site Error:	0.0 usft
Survey Program:		0-MWD										Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,948.5	8,919.6	19,462.2	8,500.5	263.7	270.4	-37.44	933.0	11,212.6	528.0	170.6	357.42	1.477 Level 3, SF	
18,963.5	8,920.0	19,462.2	8,500.5	264.1	270.4	-37.44	933.0	11,212.6	528.2	170.7	357.56	1.477 Level 3	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 137-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	82.23	780.9	5,720.2	5,773.3					
100.0	100.0	68.1	68.1	0.1	0.1	82.23	780.7	5,720.2	5,773.2	5,773.0	0.23	N/A		
200.0	200.0	164.6	164.6	0.5	0.3	82.24	779.7	5,720.4	5,773.3	5,772.5	0.78	7,394.046		
300.0	300.0	280.6	280.5	0.8	0.7	82.25	778.4	5,720.6	5,773.3	5,771.8	1.56	3,711.205		
381.7	381.7	350.8	350.7	1.1	1.0	82.26	777.6	5,720.6	5,773.3	5,771.1	2.10	2,748.468		
400.0	400.0	366.4	366.4	1.2	1.0	82.26	777.4	5,720.7	5,773.3	5,771.0	2.22	2,597.962		
500.0	500.0	460.2	460.2	1.6	1.4	82.27	776.4	5,720.9	5,773.4	5,770.4	2.92	1,979.184		
600.0	599.9	560.3	560.3	1.9	1.7	30.32	775.9	5,721.1	5,769.8	5,766.1	3.63	1,587.800		
660.0	659.5	621.7	621.7	2.2	1.9	30.51	775.6	5,721.3	5,764.0	5,759.9	4.08	1,413.040		
700.0	699.1	662.5	662.5	2.3	2.1	30.54	775.4	5,721.3	5,759.2	5,754.8	4.37	1,317.111		
800.0	798.1	757.7	757.7	2.7	2.4	30.61	774.9	5,721.5	5,747.3	5,742.2	5.07	1,133.681		
900.0	897.1	851.2	851.1	3.1	2.8	30.68	774.7	5,721.7	5,735.5	5,729.7	5.77	994.770		
1,000.0	996.2	956.3	956.2	3.5	3.1	30.76	774.5	5,722.0	5,723.7	5,717.2	6.51	879.539		
1,100.0	1,095.2	1,063.6	1,063.5	3.9	3.5	30.84	774.3	5,722.1	5,711.8	5,704.6	7.26	786.746		
1,200.0	1,194.2	1,168.2	1,168.1	4.3	3.9	30.92	774.1	5,722.1	5,699.8	5,691.8	8.00	712.038		
1,300.0	1,293.3	1,272.5	1,272.5	4.7	4.3	31.00	773.7	5,722.0	5,687.7	5,679.0	8.75	650.150		
1,400.0	1,392.3	1,376.0	1,376.0	5.1	4.6	31.07	773.4	5,721.8	5,675.6	5,666.1	9.49	598.209		
1,500.0	1,491.3	1,473.4	1,473.3	5.5	5.0	31.15	773.2	5,721.6	5,663.4	5,653.1	10.21	554.830		
1,600.0	1,590.3	1,568.0	1,567.9	5.9	5.3	31.22	772.9	5,721.4	5,651.2	5,640.3	10.92	517.561		
1,700.0	1,689.4	1,649.6	1,649.6	6.3	5.6	31.28	772.7	5,721.4	5,639.3	5,627.7	11.58	486.841		
1,800.0	1,788.4	1,726.2	1,726.2	6.7	5.8	31.34	772.7	5,721.7	5,627.7	5,615.5	12.23	460.166		
1,900.0	1,887.4	1,782.0	1,782.0	7.1	6.0	31.38	772.8	5,722.1	5,616.6	5,603.8	12.81	438.599		
2,000.0	1,986.4	1,850.7	1,850.7	7.6	6.3	31.42	773.7	5,722.9	5,606.1	5,592.7	13.42	417.773		
2,100.0	2,085.5	1,904.9	1,904.9	8.0	6.5	31.45	775.5	5,724.0	5,596.5	5,582.5	13.98	400.193		
2,200.0	2,184.5	1,969.0	1,968.8	8.4	6.7	31.46	778.7	5,725.6	5,587.6	5,573.1	14.58	383.177		
2,300.0	2,283.5	2,030.6	2,030.3	8.8	6.9	31.48	782.0	5,727.6	5,579.5	5,564.3	15.17	367.697		
2,400.0	2,382.5	2,105.5	2,105.1	9.2	7.1	31.50	785.4	5,730.4	5,571.8	5,556.0	15.81	352.400		
2,500.0	2,481.6	2,183.0	2,182.5	9.6	7.4	31.54	788.0	5,733.7	5,564.5	5,548.0	16.46	338.090		
2,600.0	2,580.6	2,265.9	2,265.2	10.1	7.7	31.59	789.9	5,737.6	5,557.6	5,540.4	17.13	324.459		
2,700.0	2,679.6	2,348.9	2,348.1	10.5	8.0	31.64	791.0	5,741.9	5,550.9	5,533.1	17.80	311.852		
2,800.0	2,778.7	2,434.3	2,433.3	10.9	8.3	31.71	791.3	5,746.6	5,544.6	5,526.1	18.48	299.980		
2,900.0	2,877.7	2,512.5	2,511.5	11.3	8.6	31.78	790.9	5,751.3	5,538.6	5,519.4	19.14	289.328		
3,000.0	2,976.7	3,205.1	3,202.8	11.7	11.0	32.13	809.1	5,756.8	5,530.1	5,508.2	21.82	253.454		
3,100.0	3,075.7	3,307.4	3,304.7	12.1	11.3	32.13	816.2	5,751.3	5,513.6	5,491.1	22.55	244.539		
3,200.0	3,174.8	3,427.4	3,424.3	12.6	11.7	32.12	824.6	5,744.5	5,497.0	5,473.6	23.33	235.608		
3,300.0	3,273.8	3,506.9	3,503.4	13.0	12.0	32.12	830.2	5,739.8	5,480.1	5,456.1	23.99	228.398		
3,400.0	3,372.8	3,557.0	3,553.3	13.4	12.2	32.12	834.1	5,737.1	5,463.9	5,439.4	24.57	222.404		
3,500.0	3,471.8	3,622.5	3,618.5	13.8	12.4	32.10	840.0	5,734.0	5,448.5	5,423.3	25.19	216.283		
3,600.0	3,570.9	3,707.7	3,703.1	14.2	12.7	32.07	849.3	5,730.5	5,433.7	5,407.8	25.88	209.964		
3,700.0	3,669.9	3,835.0	3,829.4	14.7	13.2	32.01	863.5	5,724.8	5,418.6	5,391.9	26.70	202.925		
3,800.0	3,768.9	3,907.9	3,901.8	15.1	13.4	31.98	871.9	5,721.5	5,403.5	5,376.2	27.36	197.524		
3,900.0	3,867.9	3,931.0	3,924.7	15.5	13.5	31.96	874.6	5,720.5	5,389.2	5,361.4	27.85	193.515		
4,000.0	3,967.0	3,985.9	3,979.2	15.9	13.7	31.93	881.7	5,718.7	5,375.8	5,347.4	28.45	188.984		
4,100.0	4,066.0	4,025.0	4,017.8	16.3	13.9	31.90	887.3	5,718.1	5,363.8	5,334.8	28.99	185.037		
4,200.0	4,165.0	4,134.6	4,126.3	16.7	14.3	31.81	903.3	5,716.7	5,352.4	5,322.6	29.77	179.777		
4,300.0	4,264.1	4,240.4	4,230.9	17.2	14.7	31.73	918.6	5,715.0	5,340.5	5,309.9	30.55	174.831		
4,400.0	4,363.1	4,306.0	4,295.8	17.6	14.9	31.68	927.9	5,714.1	5,328.9	5,297.8	31.18	170.891		
4,500.0	4,462.1	4,339.2	4,328.7	18.0	15.0	31.66	932.5	5,714.0	5,318.3	5,286.6	31.71	167.742		
4,600.0	4,561.1	4,370.8	4,360.0	18.4	15.2	31.63	936.8	5,714.4	5,309.0	5,276.8	32.22	164.782		
4,700.0	4,660.2	4,412.4	4,401.2	18.8	15.3	31.61	942.5	5,715.4	5,301.0	5,268.2	32.76	161.795		
4,800.0	4,759.2	4,533.2	4,520.9	19.2	15.8	31.53	958.8	5,718.3	5,293.0	5,259.4	33.60	157.537		
4,900.0	4,858.2	4,610.2	4,597.1	19.7	16.1	31.48	969.4	5,720.2	5,285.2	5,250.9	34.27	154.204		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 137-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,679.0	4,665.2	20.1	16.3	31.43	978.9	5,722.4	5,278.0	5,243.1	34.92	151.146		
5,100.0	5,056.3	4,721.5	4,707.3	20.5	16.5	31.41	984.5	5,724.1	5,271.6	5,236.1	35.46	148.644		
5,200.0	5,155.3	4,773.0	4,758.3	20.9	16.7	31.38	991.0	5,726.7	5,266.2	5,230.2	36.04	146.121		
5,300.0	5,254.3	5,181.8	5,165.4	21.3	18.2	31.37	1,023.6	5,742.4	5,261.2	5,223.3	37.88	138.893		
5,400.0	5,353.4	5,285.1	5,268.5	21.8	18.6	31.39	1,029.5	5,742.6	5,250.2	5,211.5	38.63	135.894		
5,500.0	5,452.4	5,357.0	5,340.2	22.2	18.8	31.40	1,034.0	5,743.0	5,239.6	5,200.3	39.29	133.366		
5,600.0	5,551.4	5,447.4	5,430.4	22.6	19.1	31.40	1,040.6	5,743.8	5,229.4	5,189.4	40.00	130.723		
5,700.0	5,650.4	5,591.7	5,574.4	23.0	19.7	31.41	1,050.5	5,744.4	5,218.7	5,177.8	40.90	127.603		
5,800.0	5,749.5	5,662.5	5,645.0	23.4	19.9	31.41	1,055.0	5,744.6	5,207.8	5,166.2	41.55	125.342		
5,900.0	5,848.5	5,708.0	5,690.4	23.9	20.1	31.42	1,058.2	5,745.0	5,197.7	5,155.6	42.11	123.419		
6,000.0	5,947.5	5,757.1	5,739.3	24.3	20.3	31.42	1,062.0	5,745.9	5,188.6	5,145.9	42.69	121.539		
6,100.0	6,046.5	5,802.0	5,784.0	24.7	20.4	31.41	1,065.9	5,747.3	5,180.7	5,137.4	43.25	119.787		
6,200.0	6,145.6	5,837.1	5,819.0	25.1	20.6	31.40	1,069.3	5,748.7	5,173.9	5,130.1	43.77	118.208		
6,300.0	6,244.6	5,895.0	5,876.5	25.5	20.8	31.39	1,075.1	5,751.9	5,168.4	5,124.0	44.37	116.486		
6,400.0	6,343.6	5,936.5	5,917.7	25.9	21.0	31.38	1,079.1	5,754.5	5,163.7	5,118.8	44.90	115.000		
6,500.0	6,442.6	6,014.8	5,995.6	26.4	21.2	31.39	1,085.1	5,760.0	5,159.7	5,114.1	45.57	113.223		
6,600.0	6,541.7	6,126.6	6,106.9	26.8	21.7	31.42	1,091.4	5,768.5	5,156.0	5,109.6	46.36	111.216		
6,700.0	6,640.7	6,402.7	6,382.1	27.2	22.6	31.73	1,085.3	5,785.9	5,149.8	5,102.2	47.68	108.011		
6,800.0	6,739.7	6,701.4	6,680.2	27.6	23.6	32.15	1,071.0	5,796.4	5,142.0	5,093.1	48.99	104.959		
6,900.0	6,838.8	6,866.0	6,844.8	28.0	24.1	32.31	1,068.5	5,796.5	5,130.1	5,080.2	49.89	102.819		
7,000.0	6,937.8	6,922.0	6,900.8	28.5	24.3	32.36	1,068.2	5,796.2	5,117.8	5,067.3	50.49	101.356		
7,100.0	7,036.8	6,984.7	6,963.5	28.9	24.5	32.42	1,068.2	5,796.2	5,106.3	5,055.2	51.11	99.902		
7,200.0	7,135.8	7,035.8	7,014.6	29.3	24.7	32.46	1,068.3	5,796.9	5,095.8	5,044.1	51.70	98.571		
7,300.0	7,234.9	7,109.0	7,087.8	29.7	24.9	32.52	1,068.8	5,798.5	5,086.2	5,033.8	52.35	97.159		
7,400.0	7,333.9	7,198.7	7,177.5	30.1	25.3	32.58	1,069.9	5,800.6	5,076.9	5,023.8	53.05	95.694		
7,500.0	7,432.9	7,319.0	7,297.7	30.5	25.7	32.67	1,071.9	5,803.3	5,067.5	5,013.7	53.86	94.095		
7,583.1	7,515.2	7,615.5	7,594.1	30.9	26.7	32.85	1,077.5	5,800.8	5,055.9	5,000.8	55.08	91.793		
7,600.0	7,531.9	7,625.6	7,604.1	31.0	26.7	32.84	1,077.7	5,800.5	5,053.6	4,998.4	55.18	91.577		
7,700.0	7,631.2	7,710.9	7,689.5	31.4	27.0	32.78	1,079.6	5,798.9	5,041.6	4,985.8	55.87	90.237		
7,800.0	7,730.7	7,827.8	7,806.2	31.8	27.5	32.73	1,083.1	5,796.2	5,031.5	4,974.9	56.64	88.841		
7,900.0	7,830.5	7,920.3	7,898.7	32.1	27.8	32.66	1,086.4	5,793.9	5,023.6	4,966.3	57.32	87.634		
8,000.0	7,930.4	8,035.3	8,013.6	32.5	28.2	32.62	1,088.7	5,791.4	5,017.9	4,959.8	58.06	86.424		
8,100.0	8,030.4	8,262.2	8,240.3	32.8	29.0	32.54	1,093.4	5,782.2	5,012.2	4,953.1	59.06	84.867		
8,116.4	8,046.8	8,280.8	8,258.9	32.8	29.0	84.59	1,093.8	5,781.2	5,011.4	4,952.2	59.18	84.686		
8,200.0	8,130.4	8,390.9	8,368.8	33.1	29.4	84.56	1,096.4	5,775.4	5,007.2	4,947.4	59.80	83.732		
8,216.6	8,147.0	8,415.4	8,393.3	33.1	29.5	84.55	1,096.9	5,774.0	5,006.3	4,946.3	59.93	83.535		
8,250.0	8,180.4	8,455.2	8,432.9	33.3	29.6	-5.55	1,097.7	5,771.7	5,003.4	4,943.2	60.17	83.154		
8,300.0	8,230.1	8,513.4	8,491.0	33.4	29.8	-5.65	1,098.7	5,768.2	4,995.5	4,935.0	60.53	82.528		
8,350.0	8,279.2	8,547.7	8,525.3	33.6	29.9	-5.80	1,099.4	5,766.2	4,983.4	4,922.5	60.84	81.908		
8,400.0	8,327.3	8,581.8	8,559.3	33.9	30.1	-6.00	1,100.3	5,764.3	4,967.2	4,906.1	61.15	81.234		
8,450.0	8,374.0	8,620.5	8,597.9	34.1	30.2	-6.27	1,101.5	5,762.1	4,947.1	4,885.6	61.46	80.494		
8,500.0	8,419.0	8,673.0	8,650.3	34.4	30.4	-6.64	1,103.3	5,759.2	4,923.1	4,861.3	61.79	79.669		
8,550.0	8,461.9	8,722.2	8,699.4	34.7	30.6	-7.11	1,105.3	5,756.3	4,895.3	4,833.2	62.11	78.816		
8,600.0	8,502.4	8,768.0	8,745.1	35.1	30.7	-7.71	1,107.0	5,753.6	4,864.0	4,801.6	62.41	77.942		
8,650.0	8,540.2	8,810.3	8,787.3	35.4	30.9	-8.48	1,108.3	5,751.0	4,829.4	4,766.7	62.67	77.055		
8,700.0	8,575.0	8,834.3	8,811.2	35.8	30.9	-9.43	1,109.0	5,749.6	4,791.8	4,728.9	62.88	76.200		
8,750.0	8,606.6	8,859.9	8,836.8	36.2	31.0	-10.70	1,109.7	5,748.1	4,751.6	4,688.5	63.08	75.328		
8,800.0	8,634.7	8,882.4	8,859.3	36.7	31.1	-12.44	1,110.2	5,746.8	4,709.0	4,645.7	63.24	74.458		
8,850.0	8,659.0	8,897.8	8,874.6	37.2	31.2	-14.88	1,110.5	5,746.0	4,664.3	4,601.0	63.37	73.602		
8,900.0	8,679.5	8,909.6	8,886.3	37.7	31.2	-18.55	1,110.8	5,745.3	4,618.0	4,554.5	63.47	72.758		
8,950.0	8,695.9	8,918.6	8,895.4	38.2	31.2	-24.58	1,111.0	5,744.8	4,570.3	4,506.7	63.54	71.926		
9,000.0	8,708.1	8,925.0	8,901.8	38.8	31.3	-35.72	1,111.1	5,744.5	4,521.5	4,457.9	63.58	71.112		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 137-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	8,928.6	8,905.3	39.4	31.3	-59.06	1,111.2	5,744.3	4,472.2	4,408.6	63.60	70.317		
9,100.0	8,719.7	8,929.2	8,906.0	40.0	31.3	-100.30	1,111.2	5,744.3	4,422.5	4,358.9	63.59	69.546		
9,116.6	8,720.0	8,928.8	8,905.6	40.2	31.3	-113.66	1,111.2	5,744.3	4,406.0	4,342.4	63.58	69.295		
9,200.0	8,720.0	8,925.9	8,902.7	41.3	31.3	-113.20	1,111.2	5,744.5	4,323.2	4,259.7	63.54	68.044		
9,300.0	8,720.0	8,922.5	8,899.2	42.7	31.3	-112.65	1,111.1	5,744.6	4,224.0	4,160.6	63.48	66.538		
9,400.0	8,720.2	8,918.9	8,895.7	44.2	31.2	-112.10	1,111.0	5,744.8	4,124.9	4,061.4	63.43	65.028		
9,500.0	8,720.3	8,915.4	8,892.2	45.7	31.2	-111.54	1,110.9	5,745.0	4,025.7	3,962.3	63.39	63.512		
9,600.0	8,720.6	8,911.9	8,888.7	47.4	31.2	-110.99	1,110.9	5,745.2	3,926.6	3,863.3	63.34	61.991		
9,700.0	8,720.8	8,908.3	8,885.1	49.1	31.2	-110.43	1,110.8	5,745.4	3,827.5	3,764.2	63.30	60.464		
9,800.0	8,721.2	8,904.7	8,881.5	50.9	31.2	-109.87	1,110.7	5,745.6	3,728.5	3,665.2	63.27	58.932		
9,900.0	8,721.5	8,901.1	8,877.9	52.7	31.2	-109.31	1,110.6	5,745.8	3,629.5	3,566.3	63.24	57.393		
10,000.0	8,722.0	8,897.5	8,874.3	54.6	31.2	-108.75	1,110.5	5,746.0	3,530.6	3,467.4	63.22	55.847		
10,100.0	8,722.4	8,893.8	8,870.6	56.5	31.2	-108.18	1,110.5	5,746.2	3,431.7	3,368.5	63.21	54.294		
10,200.0	8,723.0	8,891.0	8,867.8	58.4	31.1	-107.71	1,110.4	5,746.4	3,332.9	3,269.7	63.20	52.733		
10,300.0	8,723.5	8,886.3	8,863.1	60.4	31.1	-107.04	1,110.3	5,746.6	3,234.2	3,170.9	63.21	51.164		
10,400.0	8,724.2	8,881.6	8,858.4	62.5	31.1	-106.37	1,110.2	5,746.9	3,135.5	3,072.2	63.23	49.587		
10,500.0	8,724.9	8,876.9	8,853.8	64.5	31.1	-105.71	1,110.1	5,747.2	3,036.9	2,973.6	63.27	47.999		
10,600.0	8,725.6	8,872.2	8,849.1	66.6	31.1	-105.04	1,110.0	5,747.4	2,938.3	2,875.0	63.32	46.401		
10,700.0	8,726.4	8,867.6	8,844.5	68.7	31.1	-104.38	1,109.8	5,747.7	2,839.9	2,776.5	63.40	44.792		
10,800.0	8,727.2	8,863.0	8,839.8	70.9	31.0	-103.73	1,109.7	5,748.0	2,741.6	2,678.1	63.51	43.170		
10,900.0	8,728.1	8,858.3	8,835.2	73.0	31.0	-103.07	1,109.6	5,748.2	2,643.4	2,579.7	63.64	41.536		
11,000.0	8,729.0	8,853.7	8,830.6	75.2	31.0	-102.42	1,109.5	5,748.5	2,545.3	2,481.5	63.81	39.888		
11,100.0	8,730.0	8,849.1	8,826.0	77.4	31.0	-101.77	1,109.4	5,748.8	2,447.3	2,383.3	64.03	38.225		
11,200.0	8,731.1	8,844.5	8,821.5	79.6	31.0	-101.13	1,109.3	5,749.0	2,349.6	2,285.3	64.29	36.546		
11,300.0	8,732.2	8,840.0	8,816.9	81.8	31.0	-100.49	1,109.1	5,749.3	2,252.0	2,187.3	64.62	34.850		
11,400.0	8,733.3	8,835.4	8,812.4	84.0	31.0	-99.86	1,109.0	5,749.6	2,154.6	2,089.5	65.02	33.138		
11,500.0	8,734.5	8,830.9	8,807.8	86.2	30.9	-99.23	1,108.9	5,749.8	2,057.4	1,991.9	65.51	31.408		
11,600.0	8,735.8	8,826.4	8,803.3	88.5	30.9	-98.61	1,108.8	5,750.1	1,960.5	1,894.4	66.10	29.659		
11,700.0	8,737.1	8,821.9	8,798.8	90.8	30.9	-97.99	1,108.6	5,750.4	1,864.0	1,797.1	66.82	27.894		
11,800.0	8,738.4	8,817.4	8,794.3	93.0	30.9	-97.37	1,108.5	5,750.6	1,767.8	1,700.1	67.70	26.112		
11,900.0	8,739.8	8,812.9	8,789.9	95.3	30.9	-96.76	1,108.4	5,750.9	1,672.0	1,603.3	68.76	24.316		
12,000.0	8,741.3	8,808.4	8,785.4	97.6	30.9	-96.16	1,108.2	5,751.2	1,576.8	1,506.7	70.05	22.509		
12,100.0	8,742.8	8,805.1	8,782.1	99.9	30.8	-95.69	1,108.1	5,751.4	1,482.1	1,410.5	71.61	20.696		
12,200.0	8,744.3	8,800.2	8,777.2	102.2	30.8	-95.05	1,108.0	5,751.7	1,388.2	1,314.7	73.51	18.885		
12,300.0	8,745.9	8,795.3	8,772.4	104.5	30.8	-94.41	1,107.8	5,752.0	1,295.2	1,219.4	75.82	17.083		
12,400.0	8,747.6	8,790.6	8,767.6	106.8	30.8	-93.80	1,107.7	5,752.2	1,203.3	1,124.7	78.62	15.305		
12,500.0	8,749.3	8,785.9	8,762.9	109.1	30.8	-93.19	1,107.6	5,752.5	1,112.8	1,030.7	82.03	13.565		
12,600.0	8,751.1	8,781.3	8,758.4	111.5	30.8	-92.60	1,107.4	5,752.8	1,024.0	937.8	86.19	11.881		
12,700.0	8,752.9	8,776.8	8,753.8	113.8	30.7	-92.02	1,107.3	5,753.1	937.4	846.2	91.25	10.274		
12,800.0	8,754.7	8,772.3	8,749.4	116.1	30.7	-91.46	1,107.1	5,753.3	853.8	756.4	97.39	8.767		
12,900.0	8,756.6	8,767.9	8,745.0	118.5	30.7	-90.91	1,107.0	5,753.6	774.1	669.2	104.82	7.385		
13,000.0	8,758.6	8,763.6	8,740.7	120.8	30.7	-90.37	1,106.8	5,753.9	699.5	585.8	113.67	6.154		
13,100.0	8,760.6	8,759.4	8,736.5	123.2	30.7	-89.85	1,106.7	5,754.1	632.0	508.0	123.95	5.099		
13,200.0	8,762.7	8,755.3	8,732.4	125.5	30.7	-89.35	1,106.5	5,754.4	574.0	438.7	135.32	4.242		
13,300.0	8,764.8	8,751.2	8,728.3	127.9	30.7	-88.85	1,106.4	5,754.6	528.7	381.9	146.80	3.601		
13,400.0	8,767.0	8,747.2	8,724.3	130.3	30.6	-88.37	1,106.2	5,754.8	499.5	342.9	156.64	3.189		
13,500.0	8,769.2	8,743.2	8,720.4	132.6	30.6	-87.91	1,106.1	5,755.1	489.4	326.6	162.75	3.007		
13,500.2	8,769.2	8,743.2	8,720.4	132.6	30.6	-87.91	1,106.1	5,755.1	489.4	326.6	162.76	3.007 CC, ES, SF		
13,600.0	8,771.5	8,739.4	8,716.5	135.0	30.6	-87.46	1,106.0	5,755.3	499.4	335.5	163.88	3.047		
13,700.0	8,773.8	8,735.6	8,712.7	137.4	30.6	-87.03	1,105.8	5,755.5	528.5	368.1	160.42	3.295		
13,800.0	8,776.2	8,731.8	8,709.0	139.7	30.6	-86.61	1,105.7	5,755.8	573.8	419.8	154.02	3.725		
13,900.0	8,778.6	8,728.2	8,705.4	142.1	30.6	-86.20	1,105.5	5,756.0	631.8	485.4	146.39	4.316		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 137-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	8,781.1	8,724.6	8,701.8	144.5	30.6	-85.81	1,105.4	5,756.2	699.3	560.5	138.72	5.041		
14,100.0	8,783.6	8,721.1	8,698.3	146.9	30.6	-85.43	1,105.3	5,756.4	773.8	642.2	131.62	5.879		
14,200.0	8,786.2	8,717.6	8,694.9	149.2	30.5	-85.07	1,105.1	5,756.6	853.6	728.3	125.31	6.812		
14,300.0	8,788.8	8,714.3	8,691.5	151.6	30.5	-84.72	1,105.0	5,756.8	937.2	817.4	119.80	7.823		
14,400.0	8,791.5	8,711.0	8,688.2	154.0	30.5	-84.38	1,104.9	5,757.0	1,023.8	908.8	115.04	8.900		
14,500.0	8,794.2	10,582.3	9,747.7	156.4	41.3	-153.79	1,100.6	6,750.5	1,097.2	995.9	101.28	10.833		
14,598.7	8,797.0	10,657.0	9,748.8	158.8	42.4	-153.79	1,100.0	6,825.2	1,095.8	992.5	103.34	10.604		
14,600.0	8,797.0	10,657.8	9,748.8	158.8	42.4	-153.80	1,100.0	6,826.0	1,095.8	992.5	103.37	10.601		
14,614.8	8,797.4	10,667.1	9,749.1	159.1	42.5	-153.80	1,099.9	6,835.2	1,095.9	992.2	103.69	10.569		
14,700.0	8,799.8	10,723.0	9,752.0	161.2	43.3	-153.82	1,099.9	6,891.1	1,097.6	992.1	105.45	10.409		
14,800.0	8,802.7	10,849.8	9,758.4	163.6	45.3	-153.90	1,099.7	7,017.7	1,099.6	992.4	107.23	10.254		
14,900.0	8,805.5	10,954.3	9,761.3	166.0	47.0	-153.88	1,099.9	7,122.2	1,099.7	990.3	109.36	10.056		
15,000.0	8,808.3	11,048.7	9,764.1	168.4	48.6	-153.81	1,101.4	7,216.6	1,100.5	988.8	111.69	9.854		
15,100.0	8,811.1	11,136.4	9,766.5	170.8	50.1	-153.70	1,103.6	7,304.2	1,101.6	987.4	114.15	9.650		
15,200.0	8,813.9	11,224.8	9,769.7	173.2	51.7	-153.50	1,108.2	7,392.4	1,104.6	987.7	116.90	9.449		
15,300.0	8,816.8	11,363.0	9,773.7	175.6	54.3	-153.33	1,111.7	7,530.5	1,105.9	986.4	119.53	9.252		
15,400.0	8,819.6	11,485.8	9,774.7	178.0	56.6	-153.23	1,112.5	7,653.3	1,104.4	982.4	122.01	9.051		
15,442.5	8,820.8	11,501.1	9,774.9	179.0	56.9	-153.21	1,112.9	7,668.6	1,104.0	980.9	123.13	8.966		
15,500.0	8,822.4	11,529.5	9,775.5	180.4	57.4	-153.16	1,113.9	7,697.0	1,104.7	980.1	124.63	8.864		
15,600.0	8,825.2	11,614.5	9,779.5	182.8	59.1	-152.91	1,119.9	7,781.6	1,109.4	981.8	127.63	8.692		
15,700.0	8,828.0	11,803.4	9,778.1	185.2	62.8	-152.33	1,129.0	7,970.2	1,107.7	976.1	131.58	8.418		
15,800.0	8,830.8	11,922.7	9,774.3	187.6	65.3	-152.07	1,130.7	8,089.5	1,103.2	968.5	134.65	8.193		
15,900.0	8,833.7	12,019.6	9,771.1	190.0	67.2	-151.97	1,129.7	8,186.3	1,097.3	959.8	137.41	7.985		
16,000.0	8,836.5	12,091.2	9,771.7	192.4	68.7	-152.13	1,125.3	8,257.8	1,092.9	953.4	139.48	7.835		
16,100.0	8,839.3	12,160.8	9,774.8	194.8	70.2	-152.34	1,121.3	8,327.1	1,091.5	950.2	141.34	7.723		
16,104.1	8,839.4	12,164.0	9,774.9	194.9	70.3	-152.35	1,121.2	8,330.3	1,091.5	950.1	141.41	7.719		
16,200.0	8,842.1	12,243.6	9,779.6	197.2	71.9	-152.56	1,118.0	8,409.8	1,092.4	949.3	143.12	7.633		
16,300.0	8,844.9	12,407.6	9,787.5	199.6	75.4	-153.02	1,109.6	8,573.3	1,092.4	948.4	143.98	7.587		
16,400.0	8,847.8	12,478.0	9,789.2	202.0	77.0	-153.25	1,104.4	8,643.5	1,089.0	943.3	145.73	7.473		
16,437.0	8,848.8	12,500.3	9,790.3	202.9	77.4	-153.33	1,102.9	8,665.7	1,088.6	942.3	146.38	7.437		
16,500.0	8,850.6	12,553.8	9,793.8	204.4	78.6	-153.54	1,099.5	8,718.9	1,088.9	941.7	147.24	7.396		
16,600.0	8,853.4	12,661.5	9,800.6	206.8	80.9	-153.93	1,093.0	8,826.3	1,089.4	941.1	148.34	7.344		
16,652.3	8,854.9	12,722.6	9,803.8	208.1	82.3	-154.14	1,089.2	8,887.1	1,089.2	940.3	148.89	7.315		
16,700.0	8,856.2	12,747.7	9,805.4	209.3	82.8	-154.22	1,088.0	8,912.2	1,089.5	939.7	149.77	7.275		
16,800.0	8,859.0	12,818.0	9,810.7	211.7	84.4	-154.41	1,085.4	8,982.2	1,092.2	940.7	151.42	7.213		
16,900.0	8,861.8	12,894.0	9,817.8	214.1	86.0	-154.59	1,083.9	9,057.9	1,097.3	944.2	153.05	7.169		
17,000.0	8,864.7	13,036.8	9,830.6	216.5	89.2	-154.86	1,082.1	9,200.1	1,102.7	948.0	154.66	7.130		
17,100.0	8,867.5	13,209.7	9,832.8	218.9	93.1	-154.88	1,080.5	9,373.0	1,100.4	943.5	156.95	7.011		
17,200.0	8,870.3	13,302.9	9,830.2	221.3	95.2	-154.72	1,081.1	9,466.1	1,095.7	935.8	159.93	6.851		
17,300.0	8,873.1	13,366.0	9,829.9	223.8	96.6	-154.62	1,082.2	9,529.2	1,093.6	930.8	162.78	6.718		
17,304.1	8,873.2	13,366.0	9,829.9	223.9	96.6	-154.62	1,082.2	9,529.2	1,093.6	930.7	162.87	6.714		
17,400.0	8,875.9	13,421.9	9,831.6	226.2	97.8	-154.55	1,083.8	9,585.0	1,095.2	929.8	165.36	6.623		
17,500.0	8,878.8	13,494.3	9,836.8	228.6	99.5	-154.47	1,086.8	9,657.2	1,100.7	932.8	167.90	6.556		
17,600.0	8,881.6	13,608.4	9,844.2	231.0	102.0	-154.31	1,092.2	9,770.9	1,106.1	935.0	171.06	6.466		
17,700.0	8,884.4	13,707.3	9,849.0	233.4	104.3	-154.04	1,098.8	9,869.5	1,110.8	936.3	174.55	6.364		
17,800.0	8,887.2	13,851.4	9,853.5	235.9	107.5	-153.55	1,109.7	10,013.1	1,114.8	935.5	179.23	6.220		
17,900.0	8,890.0	13,950.3	9,854.1	238.3	109.8	-153.20	1,116.0	10,111.8	1,115.7	932.6	183.14	6.092		
18,000.0	8,892.8	14,020.9	9,855.0	240.7	111.4	-152.90	1,121.9	10,182.1	1,118.2	931.5	186.76	5.987		
18,100.0	8,895.7	14,163.1	9,856.7	243.1	114.6	-152.35	1,132.8	10,323.8	1,120.4	928.6	191.81	5.841		
18,200.0	8,898.5	14,307.9	9,859.5	245.5	117.9	-152.48	1,129.2	10,468.5	1,118.6	924.8	193.74	5.774		
18,300.0	8,901.3	14,384.5	9,861.0	248.0	119.7	-152.63	1,125.4	10,545.1	1,115.6	919.9	195.71	5.700		
18,400.0	8,904.1	18,400.0	9,864.7	250.4	212.5	-153.00	1,117.4	10,658.8	1,112.8	867.9	244.91	4.544		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design										Dr. Lana White - Dr. Lana White #203H - Wellbore #2 - Actual				Offset Site Error:		0.0 usft
Survey Program: 137-MWD														Offset Well Error:		0.0 usft
Reference		Offset		Semi Major Axis			Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
18,500.0	8,906.9	14,575.8	9,867.4	252.8	124.1	-153.30	1,111.1	10,735.7	1,110.0	912.1	197.86	5.610				
18,533.2	8,907.9	14,598.0	9,868.8	253.6	124.6	-153.39	1,109.5	10,757.7	1,109.8	911.5	198.29	5.597				
18,600.0	8,909.8	14,659.5	9,872.8	255.2	126.1	-153.63	1,105.4	10,819.0	1,110.1	911.2	198.89	5.581				
18,700.0	8,912.6	14,768.7	9,879.2	257.7	128.6	-153.99	1,099.1	10,927.9	1,110.4	910.6	199.76	5.559				
18,743.1	8,913.8	14,808.3	9,881.2	258.7	129.5	-154.11	1,097.0	10,967.4	1,110.2	909.9	200.29	5.543				
18,800.0	8,915.4	14,857.5	9,883.5	260.1	130.7	-154.21	1,095.3	11,011.4	1,110.5	909.3	201.29	5.517				
18,900.0	8,918.2	14,920.0	9,887.1	262.5	132.1	-154.33	1,093.4	11,078.8	1,112.2	909.2	202.95	5.480				
18,963.5	8,920.0	14,920.0	9,887.1	264.1	132.1	-154.33	1,093.4	11,078.8	1,116.6	912.8	203.75	5.480				

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 133-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	82.48	750.8	5,690.4	5,739.8					
100.0	100.0	56.7	56.7	0.1	0.1	82.48	750.8	5,690.4	5,739.8	5,739.6	0.21	N/A		
200.0	200.0	144.9	144.9	0.5	0.2	82.48	751.0	5,690.7	5,740.1	5,739.4	0.72	8,017.285		
300.0	300.0	255.2	255.2	0.8	0.6	82.48	750.8	5,691.0	5,740.3	5,738.8	1.46	3,925.871		
400.0	400.0	361.9	361.9	1.2	1.0	82.49	750.7	5,691.3	5,740.6	5,738.4	2.20	2,610.070		
500.0	500.0	430.8	430.8	1.6	1.2	82.49	750.6	5,691.6	5,741.0	5,738.2	2.80	2,047.323		
600.0	599.9	500.0	500.0	1.9	1.5	30.51	750.6	5,692.2	5,738.1	5,734.7	3.41	1,683.481		
660.0	659.5	566.9	566.9	2.2	1.7	30.68	750.6	5,693.0	5,733.0	5,729.1	3.87	1,480.528		
700.0	699.1	611.7	611.7	2.3	1.9	30.72	750.5	5,693.5	5,728.6	5,724.4	4.18	1,370.454		
800.0	798.1	718.3	718.2	2.7	2.3	30.79	750.4	5,694.4	5,717.5	5,712.6	4.92	1,162.060		
900.0	897.1	814.7	814.7	3.1	2.6	30.87	750.2	5,695.3	5,706.4	5,700.7	5.63	1,013.606		
1,000.0	996.2	1,163.1	1,163.0	3.5	3.8	31.12	749.9	5,691.5	5,693.8	5,686.6	7.19	792.067		
1,100.0	1,095.2	1,298.5	1,298.3	3.9	4.3	31.20	750.5	5,686.0	5,677.8	5,669.8	8.01	708.631		
1,200.0	1,194.2	1,388.0	1,387.7	4.3	4.6	31.26	750.8	5,682.3	5,661.8	5,653.2	8.69	651.734		
1,300.0	1,293.3	1,473.7	1,473.4	4.7	4.9	31.32	751.1	5,678.9	5,646.1	5,636.7	9.35	603.557		
1,400.0	1,392.3	1,558.4	1,558.0	5.1	5.2	31.37	751.4	5,675.8	5,630.6	5,620.6	10.02	561.858		
1,500.0	1,491.3	1,634.6	1,634.2	5.5	5.4	31.43	751.8	5,673.2	5,615.4	5,604.7	10.66	526.671		
1,600.0	1,590.3	1,704.3	1,703.8	5.9	5.7	31.47	752.0	5,671.2	5,600.6	5,589.4	11.28	496.383		
1,700.0	1,689.4	1,782.0	1,781.5	6.3	5.9	31.53	752.3	5,669.3	5,586.4	5,574.5	11.93	468.188		
1,800.0	1,788.4	1,849.4	1,848.9	6.7	6.2	31.57	752.6	5,668.1	5,572.7	5,560.2	12.55	444.095		
1,900.0	1,887.4	1,925.4	1,924.9	7.1	6.5	31.63	752.8	5,666.9	5,559.4	5,546.2	13.20	421.322		
2,000.0	1,986.4	1,969.0	1,968.5	7.6	6.6	31.66	752.9	5,666.4	5,546.6	5,532.9	13.73	403.921		
2,100.0	2,085.5	2,036.3	2,035.7	8.0	6.8	31.71	752.6	5,666.2	5,534.5	5,520.2	14.35	385.702		
2,200.0	2,184.5	2,088.3	2,087.7	8.4	7.0	31.76	751.7	5,666.8	5,523.5	5,508.5	14.91	370.337		
2,300.0	2,283.5	2,156.0	2,155.4	8.8	7.3	31.83	750.1	5,668.1	5,513.2	5,497.6	15.53	354.921		
2,400.0	2,382.5	2,239.5	2,238.9	9.2	7.5	31.92	747.6	5,670.0	5,503.3	5,487.1	16.21	339.552		
2,500.0	2,481.6	2,311.9	2,311.2	9.6	7.8	32.01	745.0	5,672.0	5,493.7	5,476.9	16.84	326.140		
2,600.0	2,580.6	2,374.5	2,373.7	10.1	8.0	32.10	741.5	5,674.1	5,484.8	5,467.3	17.45	314.330		
2,700.0	2,679.6	2,437.0	2,435.9	10.5	8.2	32.20	736.6	5,676.9	5,476.5	5,458.5	18.05	303.346		
2,800.0	2,778.7	2,507.1	2,505.7	10.9	8.5	32.32	730.6	5,680.5	5,468.9	5,450.3	18.69	292.654		
2,900.0	2,877.7	2,668.4	2,666.3	11.3	9.1	32.58	718.5	5,688.1	5,461.2	5,441.6	19.65	277.968		
3,000.0	2,976.7	2,825.1	2,822.6	11.7	9.6	32.81	708.4	5,693.4	5,452.2	5,431.6	20.59	264.783		
3,100.0	3,075.7	2,918.9	2,916.1	12.1	10.0	32.95	702.6	5,696.2	5,442.9	5,421.6	21.31	255.358		
3,200.0	3,174.8	3,042.2	3,039.1	12.6	10.4	33.15	693.7	5,699.4	5,433.1	5,411.0	22.15	245.330		
3,300.0	3,273.8	3,121.6	3,118.1	13.0	10.7	33.29	686.7	5,701.7	5,423.6	5,400.7	22.82	237.621		
3,400.0	3,372.8	3,205.6	3,201.8	13.4	11.0	33.44	679.2	5,704.4	5,414.4	5,390.8	23.52	230.188		
3,500.0	3,471.8	3,297.4	3,293.1	13.8	11.3	33.60	670.9	5,707.5	5,405.4	5,381.1	24.25	222.924		
3,600.0	3,570.9	3,393.8	3,389.2	14.2	11.7	33.78	662.2	5,710.8	5,396.5	5,371.5	24.99	215.924		
3,700.0	3,669.9	3,480.8	3,475.7	14.7	12.0	33.93	654.3	5,713.9	5,387.8	5,362.1	25.70	209.610		
3,800.0	3,768.9	3,571.6	3,566.1	15.1	12.4	34.09	646.5	5,717.3	5,379.4	5,352.9	26.43	203.529		
3,900.0	3,867.9	3,660.0	3,654.2	15.5	12.7	34.25	639.2	5,720.7	5,371.1	5,344.0	27.15	197.847		
4,000.0	3,967.0	3,762.1	3,755.8	15.9	13.1	34.42	631.3	5,724.6	5,362.9	5,335.0	27.92	192.116		
4,100.0	4,066.0	3,842.1	3,835.5	16.3	13.4	34.56	625.1	5,727.8	5,354.9	5,326.3	28.60	187.220		
4,200.0	4,165.0	3,923.0	3,916.1	16.7	13.7	34.69	618.8	5,731.3	5,347.4	5,318.1	29.29	182.543		
4,300.0	4,264.1	4,000.8	3,993.6	17.2	14.0	34.83	612.9	5,735.0	5,340.2	5,310.2	29.97	178.164		
4,400.0	4,363.1	4,085.5	4,077.9	17.6	14.3	34.97	606.5	5,739.3	5,333.4	5,302.7	30.68	173.846		
4,500.0	4,462.1	4,173.9	4,166.0	18.0	14.6	35.12	600.0	5,743.9	5,326.8	5,295.4	31.40	169.653		
4,600.0	4,561.1	4,269.9	4,261.6	18.4	15.0	35.28	593.0	5,749.1	5,320.4	5,288.3	32.15	165.506		
4,700.0	4,660.2	4,366.5	4,357.7	18.8	15.3	35.44	585.8	5,754.3	5,314.1	5,281.2	32.90	161.536		
4,800.0	4,759.2	4,473.4	4,464.3	19.2	15.8	35.62	578.0	5,760.0	5,307.8	5,274.1	33.69	157.562		
4,900.0	4,858.2	4,566.1	4,556.5	19.7	16.1	35.78	571.3	5,764.9	5,301.5	5,267.0	34.42	154.004		
5,000.0	4,957.2	4,653.5	4,643.7	20.1	16.4	35.93	565.0	5,769.7	5,295.4	5,260.2	35.14	150.682		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 133-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,056.3	4,744.1	4,733.8	20.5	16.8	36.08	558.3	5,774.8	5,289.5	5,253.6	35.87	147.451		
5,200.0	5,155.3	4,856.5	4,845.8	20.9	17.2	36.27	550.1	5,781.2	5,283.7	5,247.0	36.69	144.026		
5,300.0	5,254.3	4,982.1	4,970.8	21.3	17.7	36.48	541.1	5,787.7	5,277.5	5,239.9	37.55	140.555		
5,400.0	5,353.4	5,102.3	5,090.6	21.8	18.1	36.68	532.7	5,793.5	5,270.9	5,232.5	38.39	137.305		
5,500.0	5,452.4	5,241.3	5,229.2	22.2	18.7	36.91	523.4	5,799.3	5,263.7	5,224.4	39.30	133.954		
5,600.0	5,551.4	5,349.3	5,337.0	22.6	19.1	37.08	516.7	5,803.3	5,256.2	5,216.1	40.09	131.116		
5,700.0	5,650.4	5,464.9	5,452.2	23.0	19.5	37.27	509.7	5,807.3	5,248.4	5,207.5	40.91	128.303		
5,800.0	5,749.5	5,585.2	5,572.3	23.4	19.9	37.46	502.7	5,810.9	5,240.3	5,198.5	41.74	125.542		
5,900.0	5,848.5	5,700.5	5,687.3	23.9	20.4	37.63	496.2	5,814.0	5,231.8	5,189.3	42.56	122.939		
6,000.0	5,947.5	5,808.0	5,794.6	24.3	20.8	37.80	490.3	5,816.6	5,223.2	5,179.8	43.34	120.505		
6,100.0	6,046.5	5,910.6	5,897.0	24.7	21.1	37.96	484.7	5,819.0	5,214.4	5,170.3	44.11	118.202		
6,200.0	6,145.6	6,191.2	6,177.2	25.1	22.2	38.39	469.7	5,820.5	5,204.0	5,158.6	45.46	114.467		
6,300.0	6,244.6	6,264.1	6,250.1	25.5	22.4	38.50	466.0	5,819.9	5,192.2	5,146.1	46.13	112.544		
6,400.0	6,343.6	6,360.7	6,346.6	25.9	22.8	38.64	461.8	5,819.2	5,180.6	5,133.7	46.88	110.514		
6,500.0	6,442.6	6,467.1	6,452.9	26.4	23.2	38.78	458.7	5,818.4	5,169.0	5,121.3	47.64	108.490		
6,600.0	6,541.7	6,551.0	6,536.8	26.8	23.5	38.88	456.7	5,817.7	5,157.3	5,108.9	48.34	106.683		
6,700.0	6,640.7	6,623.2	6,609.0	27.2	23.7	38.97	455.2	5,817.3	5,146.0	5,097.0	49.00	105.012		
6,800.0	6,739.7	6,690.7	6,676.5	27.6	23.9	39.05	454.0	5,817.6	5,135.5	5,085.8	49.65	103.431		
6,900.0	6,838.8	6,769.3	6,755.0	28.0	24.2	39.14	452.6	5,818.2	5,125.5	5,075.2	50.33	101.832		
7,000.0	6,937.8	6,848.3	6,834.0	28.5	24.5	39.23	451.3	5,819.1	5,115.8	5,064.8	51.02	100.281		
7,100.0	7,036.8	6,901.9	6,887.6	28.9	24.7	39.30	450.5	5,820.1	5,106.9	5,055.3	51.61	98.944		
7,200.0	7,135.8	6,957.5	6,943.1	29.3	24.9	39.36	449.7	5,821.6	5,098.8	5,046.6	52.22	97.649		
7,300.0	7,234.9	7,018.0	7,003.6	29.7	25.1	39.43	448.8	5,823.8	5,091.6	5,038.8	52.83	96.376		
7,400.0	7,333.9	7,137.0	7,122.5	30.1	25.5	39.57	447.0	5,828.2	5,084.6	5,031.0	53.64	94.790		
7,500.0	7,432.9	7,251.4	7,236.8	30.5	25.9	39.70	445.5	5,832.1	5,077.3	5,022.8	54.44	93.271		
7,583.1	7,515.2	7,336.6	7,322.0	30.9	26.2	39.81	443.4	5,834.7	5,071.0	5,015.9	55.07	92.086		
7,600.0	7,531.9	7,352.1	7,337.5	31.0	26.3	39.82	443.0	5,835.2	5,069.7	5,014.5	55.19	91.858		
7,700.0	7,631.2	7,562.3	7,547.5	31.4	27.1	40.00	436.8	5,839.4	5,062.4	5,006.1	56.30	89.919		
7,800.0	7,730.7	7,731.1	7,716.3	31.8	27.7	40.08	434.3	5,839.3	5,054.8	4,997.5	57.23	88.323		
7,900.0	7,830.5	7,800.2	7,785.4	32.1	27.9	40.07	433.3	5,839.2	5,049.4	4,991.5	57.85	87.277		
8,000.0	7,930.4	7,865.4	7,850.5	32.5	28.1	40.09	431.7	5,839.5	5,046.7	4,988.2	58.46	86.334		
8,057.5	7,987.8	7,912.1	7,897.3	32.6	28.3	40.10	430.9	5,840.0	5,046.3	4,987.5	58.82	85.795		
8,100.0	8,030.4	7,946.7	7,931.9	32.8	28.4	40.11	430.7	5,840.4	5,046.5	4,987.4	59.09	85.409		
8,116.4	8,046.8	7,953.0	7,938.1	32.8	28.4	92.17	430.7	5,840.5	5,046.7	4,987.5	59.17	85.297		
8,200.0	8,130.4	8,001.6	7,986.8	33.1	28.6	92.17	431.1	5,841.4	5,048.2	4,988.6	59.61	84.684		
8,216.6	8,147.0	8,010.4	7,995.5	33.1	28.6	92.17	431.3	5,841.6	5,048.6	4,988.9	59.70	84.568		
8,250.0	8,180.4	8,027.9	8,013.1	33.3	28.7	2.10	431.6	5,842.1	5,048.5	4,988.6	59.87	84.321		
8,300.0	8,230.1	8,046.0	8,031.1	33.4	28.8	2.11	432.1	5,842.6	5,044.9	4,984.8	60.11	83.925		
8,350.0	8,279.2	8,088.1	8,073.2	33.6	28.9	2.13	433.4	5,844.0	5,037.1	4,976.7	60.43	83.357		
8,400.0	8,327.3	8,119.7	8,104.7	33.9	29.0	2.16	434.5	5,845.2	5,025.2	4,964.5	60.71	82.770		
8,450.0	8,374.0	8,168.4	8,153.3	34.1	29.2	2.21	436.5	5,847.2	5,009.3	4,948.3	61.05	82.050		
8,500.0	8,419.0	8,252.6	8,237.5	34.4	29.4	2.28	439.2	5,850.2	4,989.1	4,927.6	61.50	81.130		
8,550.0	8,461.9	8,550.0	8,295.8	34.7	30.4	2.39	440.7	5,851.8	4,964.6	4,901.9	62.64	79.251		
8,600.0	8,502.4	8,405.7	8,390.5	35.1	29.9	2.54	442.8	5,853.8	4,936.1	4,873.8	62.31	79.221		
8,650.0	8,540.2	8,650.0	8,471.7	35.4	30.7	2.75	444.1	5,854.6	4,903.7	4,840.4	63.24	77.539		
8,700.0	8,575.0	8,700.0	8,574.2	35.8	30.9	3.05	445.9	5,854.4	4,867.5	4,804.0	63.49	76.665		
8,750.0	8,606.6	8,672.0	8,656.7	36.2	30.8	3.43	447.8	5,853.4	4,828.3	4,764.8	63.48	76.062		
8,800.0	8,634.7	8,717.1	8,701.8	36.7	31.0	3.95	449.1	5,852.6	4,786.5	4,722.8	63.72	75.121		
8,850.0	8,659.0	8,764.2	8,748.8	37.2	31.1	4.71	450.6	5,851.6	4,742.3	4,678.4	63.94	74.171		
8,900.0	8,679.5	8,802.6	8,787.2	37.7	31.2	5.87	451.9	5,850.6	4,696.2	4,632.1	64.12	73.243		
8,950.0	8,695.9	8,816.9	8,801.5	38.2	31.3	7.80	452.3	5,850.2	4,648.5	4,584.3	64.23	72.375		
9,000.0	8,708.1	8,829.4	8,814.0	38.8	31.3	11.66	452.7	5,849.8	4,599.8	4,535.4	64.32	71.517		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 133-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	8,837.0	8,821.6	39.4	31.3	22.69	452.9	5,849.6	4,550.2	4,485.9	64.38	70.682		
9,100.0	8,719.7	8,839.5	8,824.1	40.0	31.3	91.70	453.0	5,849.5	4,500.3	4,435.9	64.41	69.872		
9,116.6	8,720.0	8,839.2	8,823.8	40.2	31.3	129.46	453.0	5,849.5	4,483.7	4,419.3	64.41	69.609		
9,200.0	8,720.0	8,836.4	8,821.0	41.3	31.3	128.46	452.9	5,849.6	4,400.4	4,336.0	64.43	68.296		
9,300.0	8,720.0	8,833.2	8,817.8	42.7	31.3	127.25	452.8	5,849.7	4,300.6	4,236.1	64.46	66.720		
9,400.0	8,720.2	8,830.0	8,814.6	44.2	31.3	126.04	452.7	5,849.8	4,200.7	4,136.2	64.49	65.141		
9,500.0	8,720.3	8,827.0	8,811.6	45.7	31.3	124.82	452.6	5,849.9	4,100.8	4,036.3	64.52	63.562		
9,600.0	8,720.6	8,824.0	8,808.6	47.4	31.3	123.60	452.5	5,850.0	4,000.9	3,936.4	64.55	61.980		
9,700.0	8,720.8	8,821.1	8,805.7	49.1	31.3	122.37	452.5	5,850.0	3,901.0	3,836.4	64.59	60.398		
9,800.0	8,721.2	8,818.2	8,802.8	50.9	31.3	121.15	452.4	5,850.1	3,801.2	3,736.5	64.63	58.814		
9,900.0	8,721.5	8,815.5	8,800.1	52.7	31.3	119.93	452.3	5,850.2	3,701.3	3,636.6	64.68	57.228		
10,000.0	8,722.0	8,812.8	8,797.4	54.6	31.3	118.72	452.2	5,850.3	3,601.4	3,536.7	64.73	55.642		
10,100.0	8,722.4	8,810.3	8,794.9	56.5	31.2	117.52	452.1	5,850.4	3,501.6	3,436.8	64.78	54.054		
10,200.0	8,723.0	8,813.1	8,797.7	58.4	31.3	117.83	452.3	5,850.3	3,401.7	3,336.8	64.84	52.461		
10,300.0	8,723.5	8,809.5	8,794.1	60.4	31.2	116.34	452.1	5,850.4	3,301.8	3,236.9	64.90	50.873		
10,400.0	8,724.2	8,806.0	8,790.6	62.5	31.2	114.88	452.0	5,850.5	3,202.0	3,137.0	64.97	49.283		
10,500.0	8,724.9	8,802.8	8,787.4	64.5	31.2	113.45	451.9	5,850.6	3,102.2	3,037.1	65.05	47.691		
10,600.0	8,725.6	8,799.7	8,784.3	66.6	31.2	112.07	451.8	5,850.6	3,002.3	2,937.2	65.13	46.099		
10,700.0	8,726.4	8,796.8	8,781.4	68.7	31.2	110.72	451.7	5,850.7	2,902.5	2,837.3	65.22	44.506		
10,800.0	8,727.2	8,794.0	8,778.6	70.9	31.2	109.42	451.6	5,850.8	2,802.7	2,737.4	65.31	42.911		
10,900.0	8,728.1	8,791.4	8,776.0	73.0	31.2	108.16	451.5	5,850.9	2,702.9	2,637.5	65.42	41.316		
11,000.0	8,729.0	8,788.9	8,773.6	75.2	31.2	106.95	451.4	5,850.9	2,603.1	2,537.6	65.54	39.720		
11,100.0	8,730.0	8,786.6	8,771.2	77.4	31.2	105.79	451.4	5,851.0	2,503.4	2,437.7	65.67	38.123		
11,200.0	8,731.1	8,784.4	8,769.1	79.6	31.2	104.68	451.3	5,851.1	2,403.6	2,337.8	65.81	36.525		
11,300.0	8,732.2	8,782.4	8,767.0	81.8	31.2	103.61	451.2	5,851.1	2,303.9	2,237.9	65.96	34.926		
11,400.0	8,733.3	8,780.4	8,765.1	84.0	31.2	102.59	451.2	5,851.2	2,204.1	2,138.0	66.14	33.326		
11,500.0	8,734.5	8,778.6	8,763.3	86.2	31.1	101.62	451.1	5,851.2	2,104.5	2,038.1	66.33	31.726		
11,600.0	8,735.8	8,776.9	8,761.6	88.5	31.1	100.70	451.0	5,851.3	2,004.8	1,938.2	66.55	30.124		
11,700.0	8,737.1	8,775.3	8,760.0	90.8	31.1	99.83	451.0	5,851.3	1,905.2	1,838.4	66.80	28.522		
11,800.0	8,738.4	8,773.8	8,758.5	93.0	31.1	99.01	450.9	5,851.3	1,805.6	1,738.5	67.08	26.918		
11,900.0	8,739.8	8,772.4	8,757.1	95.3	31.1	98.24	450.9	5,851.4	1,706.0	1,638.6	67.40	25.313		
12,000.0	8,741.3	8,771.1	8,755.8	97.6	31.1	97.51	450.8	5,851.4	1,606.6	1,538.8	67.77	23.707		
12,100.0	8,742.8	8,770.0	8,754.6	99.9	31.1	96.84	450.8	5,851.4	1,507.1	1,438.9	68.20	22.099		
12,200.0	8,744.3	8,768.8	8,753.5	102.2	31.1	96.21	450.8	5,851.5	1,407.8	1,339.1	68.71	20.490		
12,300.0	8,745.9	8,767.8	8,752.5	104.5	31.1	95.62	450.7	5,851.5	1,308.6	1,239.2	69.31	18.880		
12,400.0	8,747.6	8,766.9	8,751.5	106.8	31.1	95.08	450.7	5,851.5	1,209.4	1,139.4	70.04	17.268		
12,500.0	8,749.3	8,766.0	8,750.7	109.1	31.1	94.58	450.7	5,851.5	1,110.5	1,039.5	70.94	15.655		
12,600.0	8,751.1	8,765.2	8,749.9	111.5	31.1	94.13	450.7	5,851.6	1,011.7	939.7	72.05	14.041		
12,700.0	8,752.9	8,764.5	8,749.2	113.8	31.1	93.72	450.6	5,851.6	913.2	839.8	73.48	12.429		
12,800.0	8,754.7	8,763.9	8,748.6	116.1	31.1	93.36	450.6	5,851.6	815.1	739.8	75.33	10.821		
12,900.0	8,756.6	8,763.3	8,748.0	118.5	31.1	93.03	450.6	5,851.6	717.5	639.7	77.81	9.221		
13,000.0	8,758.6	8,762.9	8,747.5	120.8	31.1	92.75	450.6	5,851.6	620.7	539.5	81.23	7.641		
13,100.0	8,760.6	8,762.4	8,747.1	123.2	31.1	92.50	450.6	5,851.6	525.0	438.9	86.13	6.096		
13,200.0	8,762.7	8,762.1	8,746.7	125.5	31.1	92.30	450.5	5,851.6	431.4	337.9	93.44	4.616		
13,300.0	8,764.8	8,761.8	8,746.4	127.9	31.1	92.13	450.5	5,851.6	341.3	236.5	104.85	3.255		
13,400.0	8,767.0	8,761.5	8,746.2	130.3	31.1	92.00	450.5	5,851.6	258.7	135.6	123.08	2.102		
13,500.0	8,769.2	8,761.3	8,746.0	132.6	31.1	91.91	450.5	5,851.6	193.2	43.9	149.29	1.294 Level 3		
13,597.9	8,771.4	8,761.2	8,745.8	134.9	31.1	91.86	450.5	5,851.6	166.5	1.1	165.40	1.007 Level 2, CC, ES, SF		
13,600.0	8,771.5	8,761.2	8,745.8	135.0	31.1	91.86	450.5	5,851.6	166.5	1.2	165.36	1.007 Level 2		
13,700.0	8,773.8	8,761.1	8,745.8	137.4	31.1	91.84	450.5	5,851.7	195.3	49.5	145.80	1.340 Level 3		
13,800.0	8,776.2	8,761.1	8,745.7	139.7	31.1	91.86	450.5	5,851.7	261.8	143.1	118.68	2.206		
13,900.0	8,778.6	8,761.1	8,745.8	142.1	31.1	91.91	450.5	5,851.7	344.9	244.4	100.48	3.433		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 133-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	8,781.1	8,761.2	8,745.8	144.5	31.1	92.00	450.5	5,851.6	435.2	345.8	89.35	4.870		
14,100.0	8,783.6	8,761.3	8,745.9	146.9	31.1	92.12	450.5	5,851.6	528.9	446.5	82.40	6.420		
14,200.0	8,786.2	8,761.5	8,746.1	149.2	31.1	92.27	450.5	5,851.6	624.7	546.8	77.88	8.021		
14,300.0	8,788.8	8,761.7	8,746.3	151.6	31.1	92.46	450.5	5,851.6	721.5	646.7	74.83	9.642		
14,400.0	8,791.5	8,761.9	8,746.6	154.0	31.1	92.68	450.5	5,851.6	819.1	746.4	72.71	11.265		
14,500.0	8,794.2	8,762.2	8,746.9	156.4	31.1	92.93	450.6	5,851.6	917.3	846.1	71.20	12.883		
14,600.0	8,797.0	8,762.6	8,747.2	158.8	31.1	93.22	450.6	5,851.6	1,015.8	945.7	70.10	14.490		
14,614.8	8,797.4	8,762.6	8,747.3	159.1	31.1	93.26	450.6	5,851.6	1,030.3	960.4	69.97	14.726		
14,700.0	8,799.8	8,762.9	8,747.6	161.2	31.1	93.37	450.6	5,851.6	1,114.5	1,045.3	69.29	16.086		
14,800.0	8,802.7	10,750.3	9,919.4	163.6	44.0	166.71	344.1	6,935.4	1,185.3	1,104.1	81.26	14.587		
14,900.0	8,805.5	10,845.7	9,927.5	166.0	45.4	166.32	334.4	7,029.9	1,193.2	1,109.8	83.48	14.293		
15,000.0	8,808.3	11,017.2	9,938.4	168.4	48.2	166.02	326.5	7,200.8	1,197.7	1,112.2	85.49	14.011		
15,100.0	8,811.1	11,120.9	9,943.5	170.8	49.9	165.98	324.9	7,304.4	1,200.2	1,113.0	87.14	13.772		
15,200.0	8,813.9	11,263.9	9,944.4	173.2	52.4	165.88	323.4	7,447.3	1,197.6	1,108.7	88.92	13.469		
15,300.0	8,816.8	11,361.7	9,945.5	175.6	54.1	165.94	324.9	7,545.1	1,195.5	1,105.1	90.43	13.221		
15,400.0	8,819.6	11,443.8	9,947.2	178.0	55.6	166.06	327.6	7,627.2	1,194.1	1,102.3	91.81	13.006		
15,500.0	8,822.4	11,548.5	9,951.2	180.4	57.6	166.34	333.3	7,731.6	1,193.7	1,100.9	92.85	12.857		
15,600.0	8,825.2	11,774.8	9,945.1	182.8	61.9	166.74	344.5	7,957.2	1,186.8	1,093.4	93.47	12.698		
15,700.0	8,828.0	11,836.3	9,940.6	185.2	63.1	166.68	344.8	8,018.5	1,176.9	1,081.6	95.33	12.346		
15,800.0	8,830.8	11,895.0	9,938.2	187.6	64.3	166.63	344.5	8,077.2	1,170.3	1,073.1	97.20	12.040		
15,900.0	8,833.7	11,944.0	9,937.6	190.0	65.3	166.53	343.0	8,126.2	1,167.3	1,068.2	99.13	11.776		
15,927.7	8,834.4	11,966.4	9,937.8	190.6	65.7	166.49	342.1	8,148.6	1,167.1	1,067.4	99.72	11.705		
16,000.0	8,836.5	12,003.8	9,939.1	192.4	66.5	166.43	340.7	8,186.0	1,168.2	1,067.1	101.07	11.558		
16,100.0	8,839.3	12,136.7	9,946.2	194.8	69.2	166.23	335.7	8,318.6	1,172.2	1,068.8	103.33	11.344		
16,200.0	8,842.1	12,222.2	9,948.9	197.2	71.0	166.13	333.4	8,404.0	1,173.1	1,067.7	105.33	11.137		
16,300.0	8,844.9	12,301.8	9,953.1	199.6	72.7	166.17	333.7	8,483.5	1,175.3	1,068.4	106.94	10.991		
16,400.0	8,847.8	12,508.1	9,956.5	202.0	77.1	166.10	332.6	8,689.5	1,174.6	1,065.7	108.98	10.778		
16,500.0	8,850.6	12,578.3	9,954.3	204.4	78.6	165.90	329.4	8,759.6	1,170.0	1,058.6	111.32	10.510		
16,600.0	8,853.4	12,645.3	9,954.0	206.8	80.0	165.72	326.2	8,826.5	1,168.0	1,054.4	113.58	10.284		
16,617.0	8,853.9	12,656.5	9,954.1	207.3	80.3	165.69	325.4	8,837.7	1,168.0	1,054.0	113.99	10.246		
16,700.0	8,856.2	12,719.9	9,955.2	209.3	81.7	165.40	319.6	8,900.8	1,168.9	1,052.7	116.24	10.056		
16,800.0	8,859.0	12,795.0	9,955.7	211.7	83.3	164.93	309.9	8,975.3	1,170.6	1,051.2	119.36	9.807		
16,900.0	8,861.8	12,845.0	9,957.4	214.1	84.4	164.58	302.3	9,024.7	1,175.8	1,053.8	121.98	9.640		
17,000.0	8,864.7	12,889.0	9,961.8	216.5	85.4	164.29	295.3	9,067.9	1,186.7	1,062.5	124.20	9.555		
17,100.0	8,867.5	12,951.1	9,970.9	218.9	86.7	163.99	286.7	9,128.7	1,201.6	1,075.1	126.57	9.494		
17,200.0	8,870.3	13,249.6	9,998.6	221.3	93.3	163.30	265.7	9,424.6	1,210.7	1,078.5	132.26	9.154		
17,300.0	8,873.1	13,378.1	9,996.6	223.8	96.2	162.77	255.6	9,552.6	1,208.7	1,072.7	136.04	8.885		
17,400.0	8,875.9	13,448.0	9,996.0	226.2	97.8	162.51	250.6	9,622.3	1,207.2	1,068.4	138.87	8.694		
17,404.1	8,876.1	13,450.8	9,996.0	226.3	97.9	162.50	250.4	9,625.2	1,207.2	1,068.3	138.98	8.687		
17,500.0	8,878.8	13,527.9	9,997.2	228.6	99.6	162.26	245.3	9,702.0	1,208.0	1,066.3	141.68	8.526		
17,600.0	8,881.6	13,629.0	9,999.8	231.0	101.9	161.97	238.9	9,803.0	1,209.7	1,064.9	144.74	8.357		
17,700.0	8,884.4	13,735.9	10,002.6	233.4	104.3	161.78	234.6	9,909.7	1,210.7	1,063.2	147.51	8.208		
17,800.0	8,887.2	13,849.7	10,005.1	235.9	106.9	161.62	231.3	10,023.5	1,211.0	1,060.8	150.18	8.064		
17,807.8	8,887.4	13,858.7	10,005.2	236.0	107.1	161.60	230.8	10,032.4	1,211.0	1,060.5	150.43	8.050		
17,900.0	8,890.0	13,905.7	10,007.2	238.3	108.2	161.56	229.6	10,079.4	1,212.7	1,060.4	152.29	7.963		
18,000.0	8,892.8	14,059.0	10,016.0	240.7	111.6	161.73	231.7	10,232.4	1,215.6	1,061.6	153.95	7.896		
18,100.0	8,895.7	14,190.2	10,017.5	243.1	114.6	161.97	237.9	10,363.4	1,212.3	1,057.2	155.10	7.817		
18,200.0	8,898.5	14,304.7	10,018.6	245.5	117.2	162.29	245.4	10,477.6	1,208.6	1,052.6	155.93	7.751		
18,300.0	8,901.3	14,447.8	10,014.2	248.0	120.5	162.38	250.0	10,620.5	1,201.9	1,044.4	157.48	7.632		
18,400.0	8,904.1	14,515.1	10,011.4	250.4	122.0	162.34	250.6	10,687.8	1,195.0	1,035.2	159.77	7.480		
18,500.0	8,906.9	14,579.9	10,010.2	252.8	123.5	162.29	250.3	10,752.6	1,190.7	1,028.6	162.05	7.348		
18,600.0	8,909.8	14,647.8	10,011.3	255.2	125.1	162.26	250.0	10,820.5	1,189.5	1,025.4	164.13	7.247		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 133-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,700.0	8,912.6	14,784.0	10,013.0	257.7	128.2	162.18	248.7	10,956.7	1,188.4	1,021.8	166.60	7.133	
18,800.0	8,915.4	14,869.0	10,013.3	260.1	130.2	162.22	250.3	11,041.7	1,185.5	1,017.1	168.45	7.038	
18,874.7	8,917.5	14,922.0	10,014.3	261.9	131.4	162.30	251.9	11,094.6	1,184.4	1,014.7	169.62	6.982	
18,900.0	8,918.2	14,922.0	10,014.3	262.5	131.4	162.30	251.9	11,094.6	1,184.6	1,014.6	170.01	6.968	
18,963.5	8,920.0	14,922.0	10,014.3	264.1	131.4	162.30	251.9	11,094.6	1,187.7	1,017.0	170.72	6.957	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	82.48	750.8	5,690.4	5,739.8					
100.0	100.0	69.0	69.0	0.1	0.1	82.48	750.8	5,690.4	5,739.7	5,739.5	0.22	N/A		
200.0	200.0	169.0	169.0	0.5	0.4	82.48	750.8	5,690.4	5,739.7	5,738.8	0.86	6,657.607		
300.0	300.0	269.0	269.0	0.8	0.7	82.48	750.8	5,690.4	5,739.7	5,738.1	1.58	3,634.859		
400.0	400.0	369.0	369.0	1.2	1.1	82.48	750.8	5,690.4	5,739.7	5,737.4	2.30	2,499.852		
500.0	500.0	469.0	469.0	1.6	1.5	82.48	750.8	5,690.4	5,739.7	5,736.7	3.01	1,905.004		
600.0	599.9	568.9	568.9	1.9	1.8	30.54	750.8	5,690.4	5,735.9	5,732.2	3.73	1,538.210		
660.0	659.5	628.5	628.5	2.2	2.0	30.72	750.8	5,690.4	5,730.1	5,725.9	4.17	1,374.755		
700.0	699.1	668.1	668.1	2.3	2.2	30.75	750.8	5,690.4	5,725.3	5,720.8	4.46	1,284.453		
800.0	798.1	767.1	767.1	2.7	2.5	30.82	750.8	5,690.4	5,713.3	5,708.1	5.17	1,105.096		
900.0	897.1	866.1	866.1	3.1	2.9	30.89	750.8	5,690.4	5,701.3	5,695.4	5.89	968.245		
1,000.0	996.2	965.2	965.2	3.5	3.2	30.96	750.8	5,690.4	5,689.3	5,682.7	6.61	860.641		
1,100.0	1,095.2	1,064.2	1,064.2	3.9	3.6	31.04	750.8	5,690.4	5,677.4	5,670.0	7.34	773.939		
1,200.0	1,194.2	1,163.2	1,163.2	4.3	3.9	31.11	750.8	5,690.4	5,665.4	5,657.4	8.06	702.654		
1,300.0	1,293.3	1,262.3	1,262.3	4.7	4.3	31.18	750.8	5,690.4	5,653.5	5,644.7	8.79	643.048		
1,400.0	1,392.3	1,361.3	1,361.3	5.1	4.6	31.25	750.8	5,690.4	5,641.6	5,632.0	9.52	592.490		
1,500.0	1,491.3	1,460.3	1,460.3	5.5	5.0	31.33	750.8	5,690.4	5,629.6	5,619.4	10.25	549.080		
1,600.0	1,590.3	1,559.3	1,559.3	5.9	5.4	31.40	750.8	5,690.4	5,617.7	5,606.7	10.98	511.410		
1,700.0	1,689.4	1,658.4	1,658.4	6.3	5.7	31.47	750.8	5,690.4	5,605.8	5,594.1	11.72	478.419		
1,800.0	1,788.4	1,757.4	1,757.4	6.7	6.1	31.55	750.8	5,690.4	5,593.9	5,581.5	12.45	449.289		
1,900.0	1,887.4	1,856.4	1,856.4	7.1	6.4	31.62	750.8	5,690.4	5,582.0	5,568.8	13.18	423.384		
2,000.0	1,986.4	1,955.4	1,955.4	7.6	6.8	31.70	750.8	5,690.4	5,570.1	5,556.2	13.92	400.197		
2,100.0	2,085.5	2,043.9	2,043.9	8.0	7.1	31.77	750.6	5,690.4	5,558.3	5,543.7	14.61	380.488		
2,200.0	2,184.5	2,123.5	2,123.5	8.4	7.4	31.84	749.6	5,690.8	5,546.8	5,531.6	15.26	363.526		
2,300.0	2,283.5	2,203.0	2,203.0	8.8	7.6	31.92	747.4	5,691.7	5,535.7	5,519.8	15.90	348.157		
2,400.0	2,382.5	2,282.4	2,282.3	9.2	7.9	32.02	744.3	5,692.8	5,524.9	5,508.4	16.54	333.956		
2,500.0	2,481.6	2,361.6	2,361.3	9.6	8.1	32.12	740.1	5,694.4	5,514.5	5,497.3	17.19	320.805		
2,600.0	2,580.6	2,448.3	2,439.2	10.1	8.4	32.24	735.0	5,696.4	5,504.5	5,486.7	17.86	308.148		
2,700.0	2,679.6	2,538.0	2,537.3	10.5	8.7	32.39	727.9	5,699.1	5,494.7	5,476.2	18.55	296.226		
2,800.0	2,778.7	2,636.4	2,635.4	10.9	9.1	32.54	720.8	5,701.8	5,485.0	5,465.7	19.27	284.675		
2,900.0	2,877.7	2,734.8	2,733.5	11.3	9.4	32.70	713.7	5,704.5	5,475.3	5,455.3	19.99	273.912		
3,000.0	2,976.7	2,833.3	2,831.6	11.7	9.7	32.85	706.6	5,707.2	5,465.6	5,444.9	20.71	263.862		
3,100.0	3,075.7	2,931.7	2,929.8	12.1	10.1	33.01	699.4	5,709.9	5,456.0	5,434.6	21.44	254.462		
3,200.0	3,174.8	3,030.1	3,027.9	12.6	10.4	33.17	692.3	5,712.6	5,446.4	5,424.2	22.17	245.653		
3,300.0	3,273.8	3,128.5	3,126.0	13.0	10.8	33.32	685.2	5,715.3	5,436.9	5,414.0	22.90	237.384		
3,400.0	3,372.8	3,226.9	3,224.1	13.4	11.1	33.48	678.1	5,718.1	5,427.4	5,403.7	23.64	229.609		
3,500.0	3,471.8	3,325.3	3,322.2	13.8	11.5	33.64	671.0	5,720.8	5,417.9	5,393.5	24.37	222.287		
3,600.0	3,570.9	3,423.7	3,420.3	14.2	11.8	33.79	663.8	5,723.5	5,408.5	5,383.4	25.11	215.381		
3,700.0	3,669.9	3,522.1	3,518.5	14.7	12.2	33.95	656.7	5,726.2	5,399.1	5,373.3	25.85	208.858		
3,800.0	3,768.9	3,620.6	3,616.6	15.1	12.5	34.11	649.6	5,728.9	5,389.8	5,363.2	26.59	202.687		
3,900.0	3,867.9	3,719.0	3,714.7	15.5	12.9	34.27	642.5	5,731.6	5,380.5	5,353.2	27.33	196.843		
4,000.0	3,967.0	3,817.4	3,812.8	15.9	13.3	34.43	635.4	5,734.3	5,371.3	5,343.2	28.08	191.300		
4,100.0	4,066.0	3,915.8	3,910.9	16.3	13.6	34.59	628.2	5,737.0	5,362.0	5,333.2	28.82	186.036		
4,200.0	4,165.0	4,014.2	4,009.0	16.7	14.0	34.75	621.1	5,739.7	5,352.9	5,323.3	29.57	181.033		
4,300.0	4,264.1	4,112.6	4,107.2	17.2	14.3	34.92	614.0	5,742.4	5,343.8	5,313.5	30.32	176.270		
4,400.0	4,363.1	4,211.0	4,205.3	17.6	14.7	35.08	606.9	5,745.2	5,334.7	5,303.6	31.06	171.733		
4,500.0	4,462.1	4,309.4	4,303.4	18.0	15.1	35.24	599.8	5,747.9	5,325.7	5,293.8	31.81	167.405		
4,600.0	4,561.1	4,407.9	4,401.5	18.4	15.4	35.40	592.6	5,750.6	5,316.7	5,284.1	32.56	163.273		
4,700.0	4,660.2	4,506.3	4,499.6	18.8	15.8	35.57	585.5	5,753.3	5,307.7	5,274.4	33.31	159.324		
4,800.0	4,759.2	4,604.7	4,597.8	19.2	16.1	35.73	578.4	5,756.0	5,298.8	5,264.8	34.07	155.547		
4,900.0	4,858.2	4,703.1	4,695.9	19.7	16.5	35.90	571.3	5,758.7	5,290.0	5,255.2	34.82	151.930		
5,000.0	4,957.2	4,801.5	4,794.0	20.1	16.9	36.06	564.2	5,761.4	5,281.2	5,245.6	35.57	148.465		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,056.3	4,900.1	4,892.1	20.5	17.2	36.23	557.0	5,764.1	5,272.4	5,236.1	36.33	145.140		
5,200.0	5,155.3	4,998.3	4,990.2	20.9	17.6	36.40	549.9	5,766.8	5,263.7	5,226.6	37.08	141.952		
5,300.0	5,254.3	5,103.2	5,088.3	21.3	18.0	36.56	542.8	5,769.5	5,255.0	5,217.1	37.86	138.801		
5,400.0	5,353.4	5,195.2	5,186.5	21.8	18.3	36.73	535.7	5,772.3	5,246.4	5,207.8	38.59	135.944		
5,500.0	5,452.4	5,306.4	5,284.6	22.2	18.7	36.90	528.6	5,775.0	5,237.8	5,198.4	39.40	132.951		
5,600.0	5,551.4	5,408.0	5,382.7	22.6	19.1	37.07	521.4	5,777.7	5,229.3	5,189.1	40.17	130.192		
5,700.0	5,650.4	5,509.6	5,480.8	23.0	19.5	37.24	514.3	5,780.4	5,220.8	5,179.8	40.94	127.537		
5,800.0	5,749.5	5,588.8	5,578.9	23.4	19.8	37.41	507.2	5,783.1	5,212.3	5,170.7	41.62	125.228		
5,900.0	5,848.5	5,687.2	5,677.0	23.9	20.2	37.58	500.1	5,785.8	5,203.9	5,161.5	42.38	122.787		
6,000.0	5,947.5	5,785.6	5,775.2	24.3	20.5	37.75	493.0	5,788.5	5,195.6	5,152.4	43.14	120.431		
6,100.0	6,046.5	5,884.1	5,873.3	24.7	20.9	37.92	485.8	5,791.2	5,187.3	5,143.4	43.90	118.157		
6,200.0	6,145.6	5,982.5	5,971.4	25.1	21.3	38.09	478.7	5,793.9	5,179.0	5,134.4	44.66	115.960		
6,300.0	6,244.6	6,125.5	6,114.2	25.5	21.8	38.33	469.9	5,797.3	5,170.4	5,124.8	45.57	113.454		
6,400.0	6,343.6	6,272.0	6,260.4	25.9	22.3	38.53	464.3	5,799.4	5,160.9	5,114.4	46.48	111.038		
6,500.0	6,442.6	6,419.0	6,407.5	26.4	22.8	38.70	462.3	5,800.2	5,150.6	5,103.2	47.37	108.734		
6,600.0	6,541.7	6,522.2	6,510.7	26.8	23.2	38.80	462.2	5,800.2	5,139.7	5,091.6	48.10	106.849		
6,700.0	6,640.7	6,621.2	6,609.7	27.2	23.5	38.89	462.2	5,800.2	5,128.8	5,080.0	48.82	105.048		
6,800.0	6,739.7	6,720.3	6,708.7	27.6	23.8	38.99	462.2	5,800.2	5,117.9	5,068.4	49.55	103.297		
6,900.0	6,838.8	6,819.3	6,807.8	28.0	24.2	39.09	462.2	5,800.2	5,107.1	5,056.8	50.27	101.595		
7,000.0	6,937.8	6,918.3	6,906.8	28.5	24.5	39.19	462.2	5,800.2	5,096.2	5,045.2	50.99	99.940		
7,100.0	7,036.8	7,017.3	7,005.8	28.9	24.8	39.29	462.2	5,800.2	5,085.4	5,033.7	51.72	98.329		
7,200.0	7,135.8	7,116.4	7,104.8	29.3	25.2	39.39	462.2	5,800.2	5,074.6	5,022.2	52.44	96.762		
7,300.0	7,234.9	7,215.4	7,203.9	29.7	25.5	39.48	462.2	5,800.2	5,063.8	5,010.6	53.17	95.237		
7,400.0	7,333.9	7,314.4	7,302.9	30.1	25.8	39.58	462.2	5,800.2	5,053.0	4,999.1	53.90	93.752		
7,500.0	7,432.9	7,413.4	7,401.9	30.5	26.2	39.69	462.2	5,800.2	5,042.3	4,987.6	54.63	92.305		
7,583.1	7,515.2	7,504.2	7,484.2	30.9	26.5	39.77	462.2	5,800.2	5,033.3	4,978.1	55.26	91.084		
7,600.0	7,531.9	7,512.5	7,500.9	31.0	26.5	39.77	462.2	5,800.2	5,031.6	4,976.2	55.35	90.896		
7,700.0	7,631.2	7,611.7	7,600.2	31.4	26.8	39.77	462.2	5,800.2	5,022.2	4,966.1	56.08	89.558		
7,800.0	7,730.7	7,711.3	7,699.7	31.8	27.2	39.77	462.2	5,800.2	5,014.8	4,958.0	56.79	88.305		
7,900.0	7,830.5	7,811.0	7,799.5	32.1	27.5	39.76	462.2	5,800.2	5,009.4	4,951.9	57.49	87.135		
8,000.0	7,930.4	7,910.9	7,899.4	32.5	27.9	39.76	462.2	5,800.2	5,006.1	4,947.9	58.18	86.044		
8,100.0	8,030.4	8,010.9	7,999.4	32.8	28.2	39.76	462.2	5,800.2	5,004.7	4,945.9	58.86	85.030		
8,116.4	8,046.8	8,027.3	8,015.8	32.8	28.3	91.83	462.2	5,800.2	5,004.7	4,945.7	58.97	84.871		
8,200.0	8,130.4	8,110.9	8,099.4	33.1	28.5	91.83	462.2	5,800.2	5,004.7	4,945.2	59.52	84.078		
8,216.6	8,147.0	8,127.5	8,116.0	33.1	28.6	91.83	462.2	5,800.2	5,004.7	4,945.1	59.64	83.922		
8,250.0	8,180.4	8,160.9	8,149.4	33.3	28.7	1.77	462.2	5,800.2	5,003.7	4,943.9	59.86	83.591		
8,300.0	8,230.1	8,210.6	8,199.1	33.4	28.9	1.79	462.2	5,800.2	4,998.7	4,938.5	60.20	83.033		
8,350.0	8,279.2	8,259.7	8,248.2	33.6	29.0	1.82	462.2	5,800.2	4,989.3	4,928.7	60.55	82.405		
8,400.0	8,327.3	8,307.8	8,296.3	33.9	29.2	1.88	462.2	5,800.2	4,975.6	4,914.7	60.89	81.716		
8,450.0	8,374.0	8,354.5	8,343.0	34.1	29.4	1.95	462.2	5,800.2	4,957.9	4,896.6	61.23	80.975		
8,500.0	8,419.0	8,400.5	8,388.0	34.4	29.5	2.04	462.2	5,800.2	4,936.1	4,874.5	61.56	80.183		
8,550.0	8,461.9	8,442.4	8,430.9	34.7	29.7	2.16	462.2	5,800.2	4,910.5	4,848.6	61.87	79.363		
8,600.0	8,502.4	8,482.9	8,471.4	35.1	29.8	2.31	462.2	5,800.2	4,881.2	4,819.1	62.17	78.509		
8,650.0	8,540.2	8,520.7	8,509.2	35.4	29.9	2.51	462.2	5,800.2	4,848.6	4,786.1	62.46	77.632		
8,700.0	8,575.0	8,555.6	8,544.0	35.8	30.1	2.77	462.2	5,800.2	4,812.7	4,750.0	62.72	76.739		
8,750.0	8,606.6	8,587.1	8,575.6	36.2	30.2	3.11	462.2	5,800.2	4,774.0	4,711.0	62.95	75.836		
8,800.0	8,634.7	8,615.2	8,603.7	36.7	30.3	3.56	462.2	5,800.2	4,732.6	4,669.5	63.16	74.931		
8,850.0	8,659.0	8,639.6	8,628.0	37.2	30.3	4.20	462.2	5,800.2	4,689.0	4,625.7	63.34	74.027		
8,900.0	8,679.5	8,660.0	8,648.5	37.7	30.4	5.15	462.2	5,800.2	4,643.4	4,579.9	63.49	73.131		
8,950.0	8,695.9	8,676.4	8,664.9	38.2	30.5	6.69	462.2	5,800.2	4,596.3	4,532.6	63.62	72.247		
9,000.0	8,708.1	8,688.7	8,677.1	38.8	30.5	9.55	462.2	5,800.2	4,547.8	4,484.1	63.71	71.380		
9,050.0	8,716.1	8,703.4	8,685.1	39.4	30.6	16.50	462.2	5,800.2	4,498.5	4,434.7	63.80	70.507		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.0	8,719.7	8,700.2	8,688.7	40.0	30.6	50.15	462.2	5,800.2	4,448.7	4,384.9	63.82	69.708		
9,116.6	8,720.0	8,700.5	8,689.0	40.2	30.6	90.00	462.2	5,800.2	4,432.1	4,368.2	63.83	69.440		
9,200.0	8,720.0	8,700.5	8,689.0	41.3	30.6	89.31	462.2	5,800.2	4,348.7	4,284.9	63.86	68.102		
9,300.0	8,720.0	8,700.6	8,689.0	42.7	30.6	88.52	462.2	5,800.2	4,248.8	4,184.9	63.89	66.497		
9,400.0	8,720.2	8,700.7	8,689.2	44.2	30.6	87.77	462.2	5,800.2	4,148.9	4,084.9	63.94	64.892		
9,500.0	8,720.3	8,700.9	8,689.3	45.7	30.6	87.06	462.2	5,800.2	4,048.9	3,985.0	63.98	63.285		
9,600.0	8,720.6	8,701.1	8,689.6	47.4	30.6	86.38	462.2	5,800.2	3,949.0	3,885.0	64.03	61.678		
9,700.0	8,720.8	8,701.4	8,689.8	49.1	30.6	85.75	462.2	5,800.2	3,849.1	3,785.0	64.08	60.071		
9,800.0	8,721.2	8,701.7	8,690.2	50.9	30.6	85.15	462.2	5,800.2	3,749.2	3,685.1	64.13	58.463		
9,900.0	8,721.5	8,702.1	8,690.5	52.7	30.6	84.59	462.2	5,800.2	3,649.3	3,585.1	64.19	56.854		
10,000.0	8,722.0	8,702.5	8,691.0	54.6	30.6	84.07	462.2	5,800.2	3,549.4	3,485.1	64.25	55.246		
10,100.0	8,722.4	8,703.0	8,691.4	56.5	30.6	83.59	462.2	5,800.2	3,449.5	3,385.2	64.31	53.636		
10,200.0	8,723.0	8,703.5	8,692.0	58.4	30.6	83.15	462.2	5,800.2	3,349.6	3,285.2	64.38	52.027		
10,300.0	8,723.5	8,704.1	8,692.5	60.4	30.6	82.74	462.2	5,800.2	3,249.7	3,185.2	64.46	50.418		
10,400.0	8,724.2	8,704.7	8,693.2	62.5	30.6	82.38	462.2	5,800.2	3,149.8	3,085.3	64.53	48.808		
10,500.0	8,724.9	8,705.4	8,693.9	64.5	30.6	82.05	462.2	5,800.2	3,049.9	2,985.3	64.62	47.198		
10,600.0	8,725.6	8,706.1	8,694.6	66.6	30.6	81.76	462.2	5,800.2	2,950.1	2,885.4	64.71	45.588		
10,700.0	8,726.4	8,706.9	8,695.4	68.7	30.6	81.51	462.2	5,800.2	2,850.2	2,785.4	64.81	43.978		
10,800.0	8,727.2	8,707.7	8,696.2	70.9	30.6	81.29	462.2	5,800.2	2,750.4	2,685.4	64.92	42.369		
10,900.0	8,728.1	8,708.6	8,697.1	73.0	30.6	81.11	462.2	5,800.2	2,650.5	2,585.5	65.03	40.759		
11,000.0	8,729.0	8,709.6	8,698.0	75.2	30.6	80.97	462.2	5,800.2	2,550.7	2,485.6	65.15	39.149		
11,100.0	8,730.0	8,710.6	8,699.0	77.4	30.6	80.87	462.2	5,800.2	2,450.9	2,385.6	65.29	37.540		
11,200.0	8,731.1	8,711.6	8,700.1	79.6	30.6	80.80	462.2	5,800.2	2,351.1	2,285.7	65.44	35.930		
11,300.0	8,732.2	8,712.7	8,701.2	81.8	30.6	80.77	462.2	5,800.2	2,251.4	2,185.8	65.60	34.320		
11,400.0	8,733.3	8,713.8	8,702.3	84.0	30.6	80.78	462.2	5,800.2	2,151.6	2,085.8	65.78	32.711		
11,500.0	8,734.5	8,715.0	8,703.5	86.2	30.6	80.82	462.2	5,800.2	2,051.9	1,985.9	65.97	31.101		
11,600.0	8,735.8	8,716.3	8,704.8	88.5	30.6	80.90	462.2	5,800.2	1,952.2	1,886.0	66.20	29.491		
11,700.0	8,737.1	8,717.6	8,706.1	90.8	30.6	81.02	462.2	5,800.2	1,852.5	1,786.1	66.44	27.881		
11,800.0	8,738.4	8,718.9	8,707.4	93.0	30.6	81.18	462.2	5,800.2	1,752.9	1,686.2	66.72	26.271		
11,900.0	8,739.8	8,720.3	8,708.8	95.3	30.6	81.37	462.2	5,800.2	1,653.3	1,586.3	67.04	24.660		
12,000.0	8,741.3	8,721.8	8,710.3	97.6	30.6	81.60	462.2	5,800.2	1,553.8	1,486.4	67.41	23.049		
12,100.0	8,742.8	8,723.3	8,711.8	99.9	30.6	81.87	462.2	5,800.2	1,454.4	1,386.5	67.84	21.437		
12,200.0	8,744.3	8,724.9	8,713.3	102.2	30.6	82.17	462.2	5,800.2	1,355.0	1,286.6	68.35	19.824		
12,300.0	8,745.9	8,726.5	8,714.9	104.5	30.6	82.51	462.2	5,800.2	1,255.7	1,186.7	68.95	18.211		
12,400.0	8,747.6	8,728.1	8,716.6	106.8	30.7	82.89	462.2	5,800.2	1,156.5	1,086.9	69.69	16.596		
12,500.0	8,749.3	8,729.8	8,718.3	109.1	30.7	83.31	462.2	5,800.2	1,057.5	986.9	70.59	14.981		
12,600.0	8,751.1	8,731.6	8,720.1	111.5	30.7	83.77	462.2	5,800.2	958.7	887.0	71.73	13.366		
12,700.0	8,752.9	8,733.4	8,721.9	113.8	30.7	84.26	462.2	5,800.2	860.2	787.0	73.19	11.753		
12,800.0	8,754.7	8,735.3	8,723.7	116.1	30.7	84.80	462.2	5,800.2	762.1	687.0	75.13	10.143		
12,900.0	8,756.6	8,737.2	8,725.6	118.5	30.7	85.37	462.2	5,800.2	664.5	586.7	77.77	8.544		
13,000.0	8,758.6	8,739.1	8,727.6	120.8	30.7	85.98	462.2	5,800.2	567.7	486.2	81.50	6.966		
13,100.0	8,760.6	8,741.2	8,729.6	123.2	30.7	86.63	462.2	5,800.2	472.3	385.3	87.00	5.429		
13,200.0	8,762.7	8,743.2	8,731.7	125.5	30.7	87.32	462.2	5,800.2	379.3	283.7	95.54	3.970		
13,300.0	8,764.8	8,745.3	8,733.8	127.9	30.7	88.05	462.2	5,800.2	290.9	181.4	109.46	2.658		
13,400.0	8,767.0	8,747.5	8,736.0	130.3	30.7	88.81	462.2	5,800.2	213.0	80.8	132.21	1.611		
13,500.0	8,769.2	8,749.7	8,738.2	132.6	30.7	89.61	462.2	5,800.2	161.6	2.0	159.53	1.013 Level 2		
13,546.4	8,770.3	8,750.8	8,739.3	133.7	30.7	90.00	462.2	5,800.2	154.8	-9.2	163.96	0.944 Level 1, CC, ES, SF		
13,600.0	8,771.5	8,752.0	8,740.5	135.0	30.7	90.46	462.2	5,800.2	163.8	7.6	156.21	1.048 Level 2		
13,700.0	8,773.8	8,754.3	8,742.8	137.4	30.7	91.34	462.2	5,800.2	218.0	91.6	126.40	1.725		
13,800.0	8,776.2	8,756.7	8,745.2	139.7	30.7	92.25	462.2	5,800.2	297.1	193.3	103.80	2.862		
13,900.0	8,778.6	8,759.1	8,747.6	142.1	30.8	93.21	462.2	5,800.2	385.9	295.5	90.43	4.268		
14,000.0	8,781.1	8,761.6	8,750.1	144.5	30.8	94.20	462.2	5,800.2	479.2	396.7	82.47	5.811		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	8,783.6	8,764.1	8,752.6	146.9	30.8	95.22	462.2	5,800.2	574.7	497.2	77.51	7.414		
14,200.0	8,786.2	8,766.7	8,755.2	149.2	30.8	96.28	462.2	5,800.2	671.5	597.2	74.30	9.038		
14,300.0	8,788.8	8,769.3	8,757.8	151.6	30.8	97.37	462.2	5,800.2	769.1	697.0	72.14	10.662		
14,400.0	8,791.5	8,772.0	8,760.5	154.0	30.8	98.49	462.2	5,800.2	867.3	796.7	70.64	12.278		
14,500.0	8,794.2	8,774.8	8,763.2	156.4	30.8	99.65	462.2	5,800.2	965.8	896.2	69.57	13.882		
14,600.0	8,797.0	8,777.5	8,766.0	158.8	30.8	100.83	462.2	5,800.2	1,064.6	995.8	68.81	15.473		
14,614.8	8,797.4	8,778.0	8,766.4	159.1	30.8	101.01	462.2	5,800.2	1,079.2	1,010.5	68.71	15.706		
14,700.0	8,799.8	8,780.4	8,768.8	161.2	30.8	101.86	462.2	5,800.2	1,163.6	1,095.4	68.24	17.050		
14,800.0	8,802.7	10,883.2	9,927.3	163.6	45.2	167.13	351.5	7,000.8	1,186.7	1,106.2	80.47	14.747		
14,900.0	8,805.5	10,982.8	9,929.8	166.0	46.7	166.70	342.4	7,100.0	1,188.4	1,105.6	82.78	14.356		
15,000.0	8,808.3	11,082.4	9,932.2	168.4	48.4	166.27	333.2	7,199.1	1,190.2	1,105.0	85.17	13.974		
15,100.0	8,811.1	11,197.0	9,935.0	170.8	50.3	165.89	325.2	7,313.3	1,191.5	1,104.0	87.52	13.614		
15,200.0	8,813.9	11,303.3	9,937.6	173.2	52.2	165.78	322.7	7,419.6	1,191.7	1,102.3	89.38	13.333		
15,300.0	8,816.8	11,403.2	9,940.1	175.6	54.0	165.69	320.8	7,519.5	1,191.8	1,100.6	91.22	13.065		
15,400.0	8,819.6	11,503.2	9,942.5	178.0	55.9	165.60	318.9	7,619.4	1,191.9	1,098.8	93.09	12.803		
15,500.0	8,822.4	11,603.2	9,944.9	180.4	57.8	165.51	316.9	7,719.4	1,192.0	1,097.0	94.99	12.549		
15,600.0	8,825.2	11,703.2	9,947.4	182.8	59.7	165.42	315.0	7,819.3	1,192.1	1,095.2	96.91	12.301		
15,700.0	8,828.0	11,803.2	9,949.8	185.2	61.7	165.33	313.1	7,919.2	1,192.2	1,093.3	98.85	12.060		
15,800.0	8,830.8	11,903.2	9,952.3	187.6	63.7	165.24	311.2	8,019.2	1,192.3	1,091.4	100.82	11.825		
15,900.0	8,833.7	12,003.1	9,954.7	190.0	65.7	165.15	309.3	8,119.1	1,192.4	1,089.6	102.81	11.597		
16,000.0	8,836.5	12,103.1	9,957.2	192.4	67.8	165.06	307.4	8,219.0	1,192.5	1,087.6	104.82	11.376		
16,100.0	8,839.3	12,203.1	9,959.6	194.8	69.8	164.97	305.4	8,319.0	1,192.6	1,085.7	106.86	11.161		
16,200.0	8,842.1	12,303.1	9,962.0	197.2	71.9	164.88	303.5	8,418.9	1,192.7	1,083.8	108.91	10.952		
16,300.0	8,844.9	12,403.1	9,964.5	199.6	74.0	164.79	301.6	8,518.8	1,192.8	1,081.8	110.97	10.749		
16,400.0	8,847.8	12,503.1	9,966.9	202.0	76.2	164.70	299.7	8,618.8	1,192.9	1,079.9	113.06	10.551		
16,500.0	8,850.6	12,603.0	9,969.4	204.4	78.3	164.61	297.8	8,718.7	1,193.1	1,077.9	115.16	10.360		
16,600.0	8,853.4	12,703.0	9,971.8	206.8	80.5	164.53	295.8	8,818.7	1,193.2	1,075.9	117.28	10.174		
16,700.0	8,856.2	12,803.0	9,974.3	209.3	82.7	164.44	293.9	8,918.6	1,193.3	1,073.9	119.41	9.993		
16,800.0	8,859.0	12,903.0	9,976.7	211.7	84.9	164.35	292.0	9,018.5	1,193.4	1,071.9	121.56	9.817		
16,900.0	8,861.8	13,003.0	9,979.1	214.1	87.1	164.26	290.1	9,118.5	1,193.6	1,069.8	123.73	9.647		
17,000.0	8,864.7	13,103.0	9,981.6	216.5	89.3	164.17	288.2	9,218.4	1,193.7	1,067.8	125.91	9.481		
17,100.0	8,867.5	13,202.9	9,984.0	218.9	91.5	164.08	286.2	9,318.3	1,193.8	1,065.7	128.10	9.320		
17,200.0	8,870.3	13,302.9	9,986.5	221.3	93.7	163.99	284.3	9,418.3	1,194.0	1,063.7	130.31	9.163		
17,300.0	8,873.1	13,402.9	9,988.9	223.8	96.0	163.90	282.4	9,518.2	1,194.1	1,061.6	132.53	9.010		
17,400.0	8,875.9	13,502.9	9,991.4	226.2	98.2	163.81	280.5	9,618.1	1,194.3	1,059.5	134.76	8.862		
17,500.0	8,878.8	13,602.9	9,993.8	228.6	100.5	163.72	278.6	9,718.1	1,194.4	1,057.4	137.01	8.718		
17,600.0	8,881.6	13,702.8	9,996.2	231.0	102.7	163.63	276.7	9,818.0	1,194.6	1,055.3	139.27	8.577		
17,700.0	8,884.4	13,802.8	9,998.7	233.4	105.0	163.54	274.7	9,917.9	1,194.7	1,053.2	141.54	8.441		
17,800.0	8,887.2	13,902.8	10,001.1	235.9	107.3	163.46	272.8	10,017.9	1,194.9	1,051.1	143.83	8.308		
17,900.0	8,890.0	14,002.8	10,003.6	238.3	109.6	163.37	270.9	10,117.8	1,195.1	1,048.9	146.12	8.178		
18,000.0	8,892.8	14,102.8	10,006.0	240.7	111.8	163.28	269.0	10,217.7	1,195.2	1,046.8	148.43	8.052		
18,100.0	8,895.7	14,202.8	10,008.5	243.1	114.1	163.19	267.1	10,317.7	1,195.4	1,044.6	150.76	7.929		
18,200.0	8,898.5	14,302.7	10,010.9	245.5	116.4	163.10	265.1	10,417.6	1,195.6	1,042.5	153.09	7.810		
18,300.0	8,901.3	14,402.7	10,013.3	248.0	118.7	163.01	263.2	10,517.5	1,195.7	1,040.3	155.44	7.693		
18,400.0	8,904.1	14,502.7	10,015.8	250.4	121.0	162.92	261.3	10,617.5	1,195.9	1,038.1	157.79	7.579		
18,500.0	8,906.9	14,602.7	10,018.2	252.8	123.4	162.83	259.4	10,717.4	1,196.1	1,035.9	160.16	7.468		
18,600.0	8,909.8	14,702.7	10,020.7	255.2	125.7	162.74	257.5	10,817.3	1,196.3	1,033.7	162.54	7.360		
18,700.0	8,912.6	14,802.7	10,023.1	257.7	128.0	162.65	255.5	10,917.3	1,196.5	1,031.5	164.93	7.254		
18,800.0	8,915.4	14,902.6	10,025.6	260.1	130.3	162.57	253.6	11,017.2	1,196.7	1,029.3	167.34	7.151		
18,800.0	8,915.4	14,902.7	10,025.6	260.1	130.3	162.57	253.6	11,017.2	1,196.7	1,029.3	167.34	7.151		
18,900.0	8,918.2	14,974.5	10,027.3	262.5	132.0	162.50	252.2	11,089.0	1,197.2	1,027.7	169.48	7.064		
18,963.5	8,920.0	14,974.5	10,027.3	264.1	132.0	162.50	252.2	11,089.0	1,200.5	1,030.3	170.13	7.056		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 40-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	0.0	82.19	780.8	5,690.2	5,743.6					
100.0	100.0	29.3	29.3	0.1	0.0	82.19	780.7	5,690.3	5,743.7	5,743.6	0.15	N/A		
200.0	200.0	146.4	146.4	0.5	0.4	82.20	780.0	5,691.2	5,744.5	5,743.6	0.89	6,437.193		
300.0	300.0	273.2	273.2	0.8	0.8	82.20	779.9	5,691.4	5,744.6	5,742.9	1.69	3,402.888		
400.0	400.0	399.6	399.6	1.2	1.3	82.20	779.4	5,691.0	5,744.2	5,741.7	2.49	2,310.823		
500.0	500.0	496.4	496.3	1.6	1.6	82.21	778.9	5,690.6	5,743.7	5,740.5	3.18	1,804.539		
600.0	599.9	593.6	593.6	1.9	2.0	30.27	778.3	5,690.2	5,739.5	5,735.6	3.89	1,476.975		
660.0	659.5	651.7	651.7	2.2	2.2	30.46	778.1	5,690.0	5,733.3	5,729.0	4.32	1,327.865		
700.0	699.1	690.3	690.3	2.3	2.3	30.49	777.9	5,689.8	5,728.4	5,723.8	4.60	1,244.802		
800.0	798.1	771.3	771.3	2.7	2.6	30.56	777.5	5,689.7	5,716.1	5,710.9	5.25	1,089.593		
900.0	897.1	853.3	853.3	3.1	2.9	30.62	777.0	5,689.9	5,704.2	5,698.3	5.90	966.781		
1,000.0	996.2	944.9	944.8	3.5	3.2	30.69	776.3	5,690.2	5,692.5	5,685.9	6.59	863.507		
1,100.0	1,095.2	1,038.2	1,038.2	3.9	3.5	30.77	775.6	5,690.7	5,680.9	5,673.6	7.29	778.890		
1,200.0	1,194.2	1,136.8	1,136.8	4.3	3.9	30.85	775.0	5,691.2	5,669.4	5,661.4	8.02	707.283		
1,300.0	1,293.3	1,236.6	1,236.5	4.7	4.2	30.92	774.5	5,691.8	5,657.9	5,649.1	8.74	647.109		
1,400.0	1,392.3	1,341.4	1,341.4	5.1	4.6	31.01	774.0	5,692.3	5,646.3	5,636.8	9.49	594.912		
1,500.0	1,491.3	1,441.5	1,441.4	5.5	5.0	31.08	773.6	5,692.6	5,634.7	5,624.4	10.22	551.177		
1,600.0	1,590.3	1,533.3	1,533.3	5.9	5.3	31.16	773.3	5,693.0	5,623.1	5,612.2	10.93	514.609		
1,700.0	1,689.4	1,623.4	1,623.3	6.3	5.6	31.23	773.0	5,693.6	5,611.7	5,600.1	11.62	482.744		
1,800.0	1,788.4	1,709.7	1,709.7	6.7	5.9	31.29	772.8	5,694.2	5,600.5	5,588.2	12.31	455.018		
1,900.0	1,887.4	1,782.0	1,782.0	7.1	6.2	31.35	772.7	5,694.9	5,589.6	5,576.6	12.94	431.827		
2,000.0	1,986.4	1,864.9	1,864.9	7.6	6.5	31.41	772.7	5,696.0	5,579.0	5,565.4	13.62	409.716		
2,100.0	2,085.5	1,936.2	1,936.2	8.0	6.7	31.47	772.5	5,697.4	5,569.0	5,554.7	14.25	390.807		
2,200.0	2,184.5	2,006.3	2,006.3	8.4	7.0	31.53	772.2	5,699.1	5,559.5	5,544.6	14.88	373.610		
2,300.0	2,283.5	2,075.4	2,075.3	8.8	7.2	31.59	771.7	5,701.2	5,550.5	5,535.0	15.51	357.900		
2,400.0	2,382.5	2,156.0	2,155.8	9.2	7.5	31.66	770.9	5,704.1	5,542.1	5,525.9	16.18	342.585		
2,500.0	2,481.6	2,401.1	2,400.7	9.6	8.4	31.93	763.8	5,709.4	5,531.4	5,514.0	17.43	317.432		
2,600.0	2,580.6	2,470.7	2,470.2	10.1	8.6	32.01	761.2	5,710.5	5,520.7	5,502.7	18.06	305.668		
2,700.0	2,679.6	2,549.6	2,549.1	10.5	8.9	32.10	758.4	5,712.1	5,510.6	5,491.9	18.73	294.216		
2,800.0	2,778.7	2,681.5	2,681.0	10.9	9.4	32.24	754.8	5,714.5	5,500.3	5,480.7	19.58	280.856		
2,900.0	2,877.7	2,776.5	2,775.9	11.3	9.7	32.34	752.8	5,715.9	5,489.7	5,469.4	20.31	270.313		
3,000.0	2,976.7	2,874.8	2,874.1	11.7	10.1	32.44	750.8	5,717.4	5,479.3	5,458.2	21.05	260.354		
3,100.0	3,075.7	2,973.4	2,972.8	12.1	10.4	32.53	749.1	5,718.9	5,468.8	5,447.0	21.78	251.054		
3,200.0	3,174.8	3,064.6	3,064.0	12.6	10.8	32.62	747.7	5,720.2	5,458.4	5,435.9	22.50	242.642		
3,300.0	3,273.8	3,149.9	3,149.2	13.0	11.1	32.71	746.2	5,721.7	5,448.2	5,425.0	23.19	234.960		
3,400.0	3,372.8	3,235.0	3,234.3	13.4	11.4	32.79	744.8	5,723.5	5,438.3	5,414.4	23.88	227.741		
3,500.0	3,471.8	3,330.8	3,330.0	13.8	11.7	32.88	743.5	5,725.6	5,428.6	5,404.0	24.61	220.608		
3,600.0	3,570.9	3,432.1	3,431.3	14.2	12.1	32.98	742.2	5,727.7	5,418.9	5,393.6	25.35	213.723		
3,700.0	3,669.9	3,536.6	3,535.8	14.7	12.5	33.08	741.0	5,729.9	5,409.2	5,383.1	26.11	207.145		
3,800.0	3,768.9	3,636.5	3,635.6	15.1	12.8	33.17	739.9	5,731.9	5,399.4	5,372.5	26.86	201.053		
3,900.0	3,867.9	3,734.8	3,733.9	15.5	13.2	33.27	738.9	5,733.8	5,389.6	5,362.0	27.59	195.326		
4,000.0	3,967.0	3,831.9	3,831.0	15.9	13.5	33.36	737.9	5,735.8	5,379.9	5,351.5	28.33	189.926		
4,100.0	4,066.0	4,100.0	3,984.1	16.3	14.5	33.50	736.5	5,738.5	5,370.0	5,340.3	29.65	181.082		
4,200.0	4,165.0	4,193.6	4,192.7	16.7	14.8	33.69	734.6	5,737.7	5,357.5	5,327.2	30.32	176.672		
4,300.0	4,264.1	4,289.6	4,288.6	17.2	15.1	33.78	733.7	5,736.7	5,344.8	5,313.8	31.04	172.189		
4,400.0	4,363.1	4,341.4	4,340.5	17.6	15.3	33.83	733.0	5,736.4	5,332.6	5,301.0	31.62	168.631		
4,500.0	4,462.1	4,401.0	4,400.0	18.0	15.5	33.90	731.5	5,736.9	5,321.4	5,289.2	32.23	165.104		
4,600.0	4,561.1	4,427.1	4,426.1	18.4	15.6	33.93	730.6	5,737.4	5,311.2	5,278.5	32.73	162.279		
4,700.0	4,660.2	4,471.1	4,470.0	18.8	15.8	33.99	728.9	5,738.6	5,302.1	5,268.8	33.28	159.296		
4,800.0	4,759.2	4,520.9	4,519.8	19.2	16.0	34.05	726.8	5,740.5	5,294.0	5,260.2	33.86	156.356		
4,900.0	4,858.2	4,587.0	4,585.7	19.7	16.2	34.15	723.3	5,743.7	5,286.8	5,252.3	34.49	153.287		
5,000.0	4,957.2	4,647.1	4,645.6	20.1	16.4	34.24	719.7	5,747.0	5,280.3	5,245.2	35.10	150.440		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 40-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,056.3	4,730.7	4,728.9	20.5	16.7	34.37	714.4	5,751.9	5,274.3	5,238.5	35.79	147.350		
5,200.0	5,155.3	4,846.9	4,844.6	20.9	17.2	34.56	706.9	5,758.8	5,268.3	5,231.7	36.61	143.904		
5,300.0	5,254.3	4,954.8	4,952.1	21.3	17.6	34.73	700.1	5,764.8	5,262.0	5,224.6	37.40	140.711		
5,400.0	5,353.4	5,082.9	5,079.8	21.8	18.0	34.93	691.9	5,771.5	5,255.5	5,217.2	38.26	137.375		
5,500.0	5,452.4	5,282.7	5,279.0	22.2	18.8	35.25	679.5	5,779.1	5,247.4	5,208.0	39.37	133.290		
5,600.0	5,551.4	5,337.6	5,333.8	22.6	19.0	35.33	676.2	5,781.0	5,239.1	5,199.1	39.97	131.085		
5,700.0	5,650.4	5,432.2	5,428.3	23.0	19.3	35.48	670.8	5,784.7	5,231.3	5,190.6	40.71	128.514		
5,800.0	5,749.5	5,559.4	5,555.1	23.4	19.8	35.67	663.7	5,789.3	5,223.4	5,181.8	41.56	125.684		
5,900.0	5,848.5	5,676.5	5,672.0	23.9	20.2	35.85	657.2	5,793.0	5,214.9	5,172.6	42.38	123.059		
6,000.0	5,947.5	5,775.4	5,770.7	24.3	20.6	36.00	651.7	5,795.9	5,206.4	5,163.3	43.13	120.709		
6,100.0	6,046.5	5,874.5	5,869.6	24.7	20.9	36.15	646.2	5,798.9	5,197.9	5,154.0	43.89	118.437		
6,200.0	6,145.6	5,998.0	5,992.9	25.1	21.4	36.34	639.2	5,802.4	5,189.3	5,144.6	44.73	116.020		
6,300.0	6,244.6	6,141.9	6,136.5	25.5	21.9	36.56	631.8	5,805.3	5,179.9	5,134.3	45.63	113.512		
6,400.0	6,343.6	6,253.0	6,247.5	25.9	22.3	36.72	626.4	5,806.9	5,170.0	5,123.6	46.43	111.359		
6,500.0	6,442.6	6,415.4	6,409.7	26.4	22.9	36.93	620.6	5,807.8	5,159.2	5,111.8	47.38	108.895		
6,600.0	6,541.7	6,495.8	6,490.1	26.8	23.2	37.03	619.0	5,807.9	5,148.2	5,100.1	48.07	107.109		
6,700.0	6,640.7	6,581.3	6,575.7	27.2	23.5	37.12	617.6	5,808.5	5,137.7	5,088.9	48.77	105.348		
6,800.0	6,739.7	6,688.3	6,682.6	27.6	23.9	37.24	615.9	5,809.1	5,127.1	5,077.5	49.54	103.493		
6,900.0	6,838.8	6,776.8	6,771.1	28.0	24.2	37.35	614.4	5,809.6	5,116.6	5,066.3	50.25	101.814		
7,000.0	6,937.8	6,873.9	6,868.2	28.5	24.6	37.46	612.7	5,810.4	5,106.3	5,055.3	51.00	100.131		
7,100.0	7,036.8	6,962.0	6,956.3	28.9	24.9	37.56	611.3	5,811.1	5,095.9	5,044.2	51.71	98.551		
7,200.0	7,135.8	7,031.5	7,025.8	29.3	25.1	37.63	610.4	5,812.0	5,086.1	5,033.8	52.36	97.135		
7,300.0	7,234.9	7,100.1	7,094.4	29.7	25.4	37.71	609.8	5,813.3	5,076.9	5,023.9	53.01	95.776		
7,400.0	7,333.9	7,221.2	7,215.4	30.1	25.8	37.82	609.7	5,815.6	5,067.8	5,013.9	53.82	94.167		
7,500.0	7,432.9	7,288.6	7,282.8	30.5	26.0	37.89	609.8	5,816.9	5,058.8	5,004.3	54.46	92.898		
7,583.1	7,515.2	7,344.7	7,338.9	30.9	26.2	37.94	609.8	5,818.4	5,051.8	4,996.8	54.99	91.874		
7,600.0	7,531.9	7,356.1	7,350.3	31.0	26.3	37.94	609.8	5,818.7	5,050.4	4,995.3	55.09	91.670		
7,700.0	7,631.2	7,444.1	7,438.2	31.4	26.6	37.96	609.7	5,821.6	5,044.0	4,988.2	55.79	90.411		
7,800.0	7,730.7	7,606.2	7,600.3	31.8	27.2	38.02	609.9	5,825.9	5,039.1	4,982.4	56.71	88.857		
7,900.0	7,830.5	7,711.4	7,705.5	32.1	27.5	38.03	610.3	5,827.8	5,035.5	4,978.0	57.44	87.669		
8,000.0	7,930.4	7,825.2	7,819.2	32.5	27.9	38.05	610.3	5,830.0	5,034.0	4,975.8	58.18	86.524		
8,100.0	8,030.4	8,100.0	8,101.1	32.8	28.9	38.09	608.3	5,831.1	5,033.1	4,973.7	59.45	84.667		
8,116.4	8,046.8	8,116.4	8,191.3	32.8	28.9	90.17	606.9	5,827.5	5,032.6	4,973.2	59.42	84.693		
8,200.0	8,130.4	8,332.7	8,326.6	33.1	29.7	90.17	606.9	5,821.7	5,028.8	4,968.4	60.35	83.321		
8,216.6	8,147.0	8,347.4	8,341.2	33.1	29.7	90.17	606.9	5,821.0	5,028.0	4,967.6	60.46	83.164		
8,250.0	8,180.4	8,376.7	8,370.5	33.3	29.8	0.11	606.8	5,819.7	5,025.6	4,964.9	60.67	82.832		
8,300.0	8,230.1	8,420.4	8,414.2	33.4	29.9	0.12	606.5	5,817.8	5,018.4	4,957.4	60.99	82.275		
8,350.0	8,279.2	8,469.8	8,463.5	33.6	30.1	0.13	606.2	5,815.7	5,006.9	4,945.5	61.33	81.632		
8,400.0	8,327.3	8,518.0	8,511.7	33.9	30.3	0.13	605.8	5,813.6	4,991.2	4,929.5	61.67	80.932		
8,450.0	8,374.0	8,564.6	8,558.2	34.1	30.4	0.14	605.6	5,811.6	4,971.4	4,909.4	62.00	80.183		
8,500.0	8,419.0	8,609.4	8,603.0	34.4	30.6	0.15	605.4	5,809.7	4,947.7	4,885.3	62.32	79.392		
8,550.0	8,461.9	8,655.4	8,649.0	34.7	30.7	0.17	605.3	5,807.6	4,920.2	4,857.5	62.63	78.558		
8,600.0	8,502.4	8,698.6	8,692.1	35.1	30.9	0.18	605.4	5,805.7	4,889.1	4,826.2	62.92	77.699		
8,650.0	8,540.2	8,729.3	8,722.8	35.4	31.0	0.19	605.5	5,804.3	4,854.8	4,791.6	63.18	76.846		
8,700.0	8,575.0	8,756.9	8,750.4	35.8	31.1	0.21	605.7	5,803.1	4,817.5	4,754.1	63.40	75.980		
8,750.0	8,606.6	8,781.8	8,775.2	36.2	31.1	0.23	605.8	5,802.1	4,777.4	4,713.8	63.61	75.106		
8,800.0	8,634.7	8,803.4	8,796.8	36.7	31.2	0.27	606.0	5,801.2	4,734.9	4,671.1	63.79	74.229		
8,850.0	8,659.0	8,821.6	8,815.0	37.2	31.3	0.32	606.1	5,800.5	4,690.3	4,626.4	63.94	73.356		
8,900.0	8,679.5	8,836.6	8,830.0	37.7	31.3	0.39	606.2	5,799.9	4,643.9	4,579.9	64.06	72.490		
8,950.0	8,695.9	8,848.4	8,841.8	38.2	31.4	0.53	606.3	5,799.4	4,596.1	4,532.0	64.16	71.636		
9,000.0	8,708.1	8,856.8	8,850.2	38.8	31.4	0.80	606.3	5,799.1	4,547.2	4,483.0	64.23	70.797		
9,050.0	8,716.1	8,861.7	8,855.1	39.4	31.4	1.70	606.3	5,798.9	4,497.6	4,433.3	64.27	69.978		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 40-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,100.0	8,719.7	8,863.2	8,856.5	40.0	31.4	164.90	606.3	5,798.9	4,447.7	4,383.4	64.29	69.181		
9,116.6	8,720.0	8,862.9	8,856.2	40.2	31.4	176.42	606.3	5,798.9	4,431.0	4,366.8	64.29	68.922		
9,200.0	8,720.0	8,860.3	8,853.7	41.3	31.4	176.31	606.3	5,799.0	4,347.7	4,283.4	64.29	67.629		
9,300.0	8,720.0	8,857.2	8,850.6	42.7	31.4	176.18	606.3	5,799.1	4,247.8	4,183.5	64.29	66.076		
9,400.0	8,720.2	8,854.2	8,847.6	44.2	31.4	176.04	606.3	5,799.2	4,147.9	4,083.6	64.29	64.522		
9,500.0	8,720.3	8,851.2	8,844.6	45.7	31.4	175.90	606.3	5,799.3	4,047.9	3,983.7	64.29	62.968		
9,600.0	8,720.6	8,848.2	8,841.6	47.4	31.4	175.74	606.3	5,799.4	3,948.0	3,883.7	64.29	61.412		
9,700.0	8,720.8	8,845.2	8,838.6	49.1	31.3	175.58	606.2	5,799.5	3,848.1	3,783.8	64.29	59.855		
9,800.0	8,721.2	8,842.2	8,835.6	50.9	31.3	175.41	606.2	5,799.7	3,748.1	3,683.8	64.29	58.297		
9,900.0	8,721.5	8,839.3	8,832.7	52.7	31.3	175.22	606.2	5,799.8	3,648.2	3,583.9	64.30	56.738		
10,000.0	8,722.0	8,836.3	8,829.7	54.6	31.3	175.03	606.2	5,799.9	3,548.3	3,483.9	64.31	55.178		
10,100.0	8,722.4	8,833.4	8,826.8	56.5	31.3	174.82	606.2	5,800.0	3,448.3	3,384.0	64.31	53.618		
10,200.0	8,723.0	8,830.5	8,823.9	58.4	31.3	174.59	606.2	5,800.1	3,348.4	3,284.1	64.32	52.057		
10,300.0	8,723.5	8,827.7	8,821.0	60.4	31.3	174.36	606.1	5,800.2	3,248.4	3,184.1	64.33	50.495		
10,400.0	8,724.2	8,824.8	8,818.2	62.5	31.3	174.10	606.1	5,800.3	3,148.5	3,084.1	64.34	48.933		
10,500.0	8,724.9	8,822.0	8,815.3	64.5	31.3	173.83	606.1	5,800.5	3,048.5	2,984.2	64.35	47.371		
10,600.0	8,725.6	8,819.1	8,812.5	66.6	31.3	173.53	606.1	5,800.6	2,948.6	2,884.2	64.37	45.808		
10,700.0	8,726.4	8,816.3	8,809.7	68.7	31.2	173.22	606.1	5,800.7	2,848.6	2,784.3	64.38	44.245		
10,800.0	8,727.2	8,813.6	8,806.9	70.9	31.2	172.88	606.1	5,800.8	2,748.7	2,684.3	64.40	42.682		
10,900.0	8,728.1	8,810.8	8,804.2	73.0	31.2	172.51	606.0	5,800.9	2,648.7	2,584.3	64.42	41.119		
11,000.0	8,729.0	8,808.1	8,801.4	75.2	31.2	172.11	606.0	5,801.0	2,548.8	2,484.4	64.44	39.556		
11,100.0	8,730.0	8,805.3	8,798.7	77.4	31.2	171.68	606.0	5,801.1	2,448.8	2,384.4	64.46	37.992		
11,200.0	8,731.1	8,802.6	8,796.0	79.6	31.2	171.20	606.0	5,801.2	2,348.9	2,284.4	64.48	36.429		
11,300.0	8,732.2	8,800.0	8,793.4	81.8	31.2	170.69	606.0	5,801.3	2,248.9	2,184.4	64.50	34.866		
11,400.0	8,733.3	8,797.4	8,790.8	84.0	31.2	170.13	605.9	5,801.4	2,149.0	2,084.5	64.53	33.304		
11,500.0	8,734.5	8,794.7	8,788.1	86.2	31.2	169.50	605.9	5,801.6	2,049.0	1,984.5	64.55	31.741		
11,600.0	8,735.8	8,792.0	8,785.4	88.5	31.2	168.80	605.9	5,801.7	1,949.1	1,884.5	64.58	30.179		
11,700.0	8,737.1	8,789.4	8,782.8	90.8	31.2	168.03	605.9	5,801.8	1,849.1	1,784.5	64.61	28.618		
11,800.0	8,738.4	8,786.8	8,780.2	93.0	31.1	167.16	605.9	5,801.9	1,749.2	1,684.5	64.65	27.057		
11,900.0	8,739.8	8,784.2	8,777.6	95.3	31.1	166.20	605.9	5,802.0	1,649.2	1,584.5	64.68	25.497		
12,000.0	8,741.3	8,781.6	8,775.1	97.6	31.1	165.11	605.8	5,802.1	1,549.2	1,484.5	64.72	23.937		
12,100.0	8,742.8	8,779.1	8,772.5	99.9	31.1	163.87	605.8	5,802.2	1,449.3	1,384.5	64.76	22.379		
12,200.0	8,744.3	8,776.6	8,770.1	102.2	31.1	162.47	605.8	5,802.3	1,349.3	1,284.5	64.81	20.821		
12,300.0	8,745.9	8,774.2	8,767.6	104.5	31.1	160.86	605.8	5,802.4	1,249.3	1,184.5	64.85	19.264		
12,400.0	8,747.6	8,771.7	8,765.2	106.8	31.1	159.00	605.8	5,802.5	1,149.4	1,084.5	64.91	17.708		
12,500.0	8,749.3	8,769.3	8,762.8	109.1	31.1	156.83	605.8	5,802.6	1,049.4	984.5	64.97	16.153		
12,600.0	8,751.1	8,766.9	8,760.4	111.5	31.1	154.28	605.7	5,802.7	949.5	884.4	65.03	14.600		
12,700.0	8,752.9	8,764.6	8,758.0	113.8	31.1	151.27	605.7	5,802.8	849.5	784.4	65.11	13.047		
12,800.0	8,754.7	8,762.3	8,755.7	116.1	31.1	147.68	605.7	5,802.9	749.5	684.3	65.20	11.496		
12,900.0	8,756.6	8,760.0	8,753.4	118.5	31.1	143.36	605.7	5,803.0	649.6	584.3	65.31	9.946		
13,000.0	8,758.6	8,757.7	8,751.2	120.8	31.1	138.16	605.7	5,803.1	549.6	484.2	65.46	8.397		
13,100.0	8,760.6	8,755.5	8,749.0	123.2	31.0	131.89	605.7	5,803.2	449.7	384.0	65.66	6.849		
13,200.0	8,762.7	8,753.3	8,746.8	125.5	31.0	124.41	605.7	5,803.3	349.7	283.8	65.97	5.301		
13,300.0	8,764.8	8,751.2	8,744.6	127.9	31.0	115.68	605.6	5,803.4	249.8	183.3	66.57	3.753		
13,400.0	8,767.0	8,749.1	8,742.5	130.3	31.0	105.88	605.6	5,803.5	150.0	81.9	68.16	2.201		
13,500.0	8,769.2	8,747.0	8,740.4	132.6	31.0	95.49	605.6	5,803.6	50.9	-28.7	79.62	0.639 Level 1		
13,549.6	8,770.3	8,745.9	8,739.4	133.8	31.0	90.32	605.6	5,803.6	11.4	-153.1	164.48	0.069 Level 1, CC, ES, SF		
13,600.0	8,771.5	8,744.9	8,738.4	135.0	31.0	85.18	605.6	5,803.7	51.6	-19.4	71.05	0.727 Level 1		
13,700.0	8,773.8	8,742.9	8,736.3	137.4	31.0	75.59	605.6	5,803.8	150.8	86.2	64.61	2.333		
13,800.0	8,776.2	8,740.9	8,734.4	139.7	31.0	67.13	605.6	5,803.8	250.6	186.1	64.52	3.884		
13,900.0	8,778.6	8,738.9	8,732.4	142.1	31.0	59.93	605.6	5,803.9	350.5	285.8	64.64	5.422		
14,000.0	8,781.1	8,737.0	8,730.5	144.5	31.0	53.94	605.6	5,804.0	450.4	385.6	64.77	6.954		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 40-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	8,783.6	8,735.1	8,728.6	146.9	31.0	48.99	605.6	5,804.1	550.4	485.5	64.89	8.482		
14,200.0	8,786.2	8,733.3	8,726.8	149.2	31.0	44.91	605.5	5,804.2	650.3	585.4	64.99	10.008		
14,300.0	8,788.8	8,731.5	8,725.0	151.6	31.0	41.54	605.5	5,804.2	750.3	685.2	65.08	11.530		
14,400.0	8,791.5	8,729.7	8,723.2	154.0	31.0	38.73	605.5	5,804.3	850.3	785.1	65.16	13.049		
14,500.0	8,794.2	8,728.0	8,721.5	156.4	31.0	36.39	605.5	5,804.4	950.3	885.0	65.24	14.566		
14,600.0	8,797.0	8,726.3	8,719.8	158.8	31.0	34.43	605.5	5,804.5	1,050.2	984.9	65.32	16.080		
14,614.8	8,797.4	8,726.0	8,719.5	159.1	30.9	34.16	605.5	5,804.5	1,065.0	999.7	65.33	16.303		
14,700.0	8,799.8	8,724.6	8,718.1	161.2	30.9	32.06	605.5	5,804.6	1,150.2	1,084.8	65.39	17.591		
14,800.0	8,802.7	8,722.9	8,716.4	163.6	30.9	29.85	605.5	5,804.6	1,250.2	1,184.8	65.46	19.099		
14,900.0	8,805.5	8,721.2	8,714.7	166.0	30.9	27.89	605.5	5,804.7	1,350.2	1,284.7	65.53	20.604		
15,000.0	8,808.3	8,719.5	8,713.0	168.4	30.9	26.14	605.5	5,804.8	1,450.2	1,384.6	65.60	22.107		
15,100.0	8,811.1	8,717.8	8,711.2	170.8	30.9	24.58	605.5	5,804.9	1,550.2	1,484.5	65.67	23.606		
15,200.0	8,813.9	8,716.0	8,709.5	173.2	30.9	23.17	605.5	5,804.9	1,650.1	1,584.4	65.74	25.103		
15,300.0	8,816.8	8,714.2	8,707.7	175.6	30.9	21.89	605.5	5,805.0	1,750.1	1,684.3	65.80	26.596		
15,400.0	8,819.6	8,712.5	8,705.9	178.0	30.9	20.74	605.4	5,805.1	1,850.1	1,784.2	65.87	28.087		
15,500.0	8,822.4	8,710.7	8,704.1	180.4	30.9	19.69	605.4	5,805.2	1,950.1	1,884.2	65.94	29.575		
15,600.0	8,825.2	12,581.0	10,823.6	182.8	61.3	-179.40	636.4	7,814.7	2,029.8	1,951.4	78.48	25.866		
15,648.6	8,826.6	12,611.0	10,824.4	183.9	61.9	-179.43	635.3	7,844.6	2,029.7	1,950.6	79.11	25.656		
15,700.0	8,828.0	12,640.8	10,825.4	185.2	62.5	-179.47	633.9	7,874.4	2,030.0	1,950.2	79.79	25.441		
15,800.0	8,830.8	12,705.0	10,828.4	187.6	63.7	-179.55	630.9	7,938.4	2,031.8	1,950.7	81.12	25.049		
15,900.0	8,833.7	12,778.4	10,832.9	190.0	65.2	-179.63	628.0	8,011.7	2,035.2	1,952.7	82.45	24.684		
16,000.0	8,836.5	12,843.3	10,837.9	192.4	66.4	-179.68	626.3	8,076.4	2,040.1	1,956.4	83.78	24.352		
16,100.0	8,839.3	12,923.1	10,845.5	194.8	68.0	-179.71	625.3	8,155.7	2,046.8	1,961.7	85.12	24.047		
16,200.0	8,842.1	13,219.4	10,862.0	197.2	74.0	-179.70	625.3	8,451.4	2,050.9	1,964.3	86.68	23.661		
16,300.0	8,844.9	13,318.1	10,861.7	199.6	76.1	-179.73	624.1	8,550.1	2,047.8	1,959.8	88.07	23.251		
16,400.0	8,847.8	13,403.5	10,862.4	202.0	77.9	-179.70	625.1	8,635.5	2,045.7	1,956.3	89.46	22.867		
16,500.0	8,850.6	13,534.7	10,862.7	204.4	80.6	-179.67	625.9	8,766.7	2,043.2	1,952.3	90.91	22.476		
16,600.0	8,853.4	13,614.1	10,862.3	206.8	82.3	-179.64	626.9	8,846.1	2,040.0	1,947.7	92.30	22.101		
16,700.0	8,856.2	13,687.3	10,863.1	209.3	83.9	-179.56	629.7	8,919.3	2,038.2	1,944.5	93.69	21.754		
16,783.0	8,858.5	13,747.0	10,864.3	211.3	85.2	-179.49	632.2	8,978.9	2,037.6	1,942.7	94.85	21.483		
16,800.0	8,859.0	13,747.0	10,864.3	211.7	85.2	-179.49	632.2	8,978.9	2,037.7	1,942.6	95.06	21.436		
16,900.0	8,861.8	13,801.0	10,866.5	214.1	86.3	-179.43	634.3	9,032.8	2,039.2	1,942.8	96.41	21.152		
17,000.0	8,864.7	13,845.2	10,869.7	216.5	87.3	-179.39	635.7	9,076.8	2,043.7	1,946.0	97.72	20.915		
17,100.0	8,867.5	13,929.9	10,877.3	218.9	89.1	-179.36	636.8	9,161.2	2,049.9	1,950.8	99.12	20.681		
17,200.0	8,870.3	14,097.2	10,890.5	221.3	92.8	-179.44	633.8	9,327.9	2,055.1	1,954.4	100.74	20.399		
17,300.0	8,873.1	14,193.5	10,896.1	223.8	94.9	-179.56	629.6	9,423.9	2,058.1	1,955.9	102.18	20.141		
17,400.0	8,875.9	14,294.4	10,902.6	226.2	97.1	-179.64	626.5	9,524.6	2,061.7	1,958.1	103.65	19.892		
17,500.0	8,878.8	14,505.0	10,909.0	228.6	101.8	-179.94	615.5	9,734.7	2,061.3	1,955.9	105.39	19.560		
17,574.0	8,880.8	14,537.3	10,909.3	230.4	102.6	180.00	613.2	9,767.0	2,060.3	1,953.9	106.39	19.365		
17,600.0	8,881.6	14,544.8	10,909.5	231.0	102.7	179.98	612.7	9,774.4	2,060.5	1,953.7	106.73	19.305		
17,700.0	8,884.4	14,600.0	10,913.5	233.4	104.0	179.91	610.2	9,829.4	2,063.8	1,955.7	108.08	19.094		
17,800.0	8,887.2	14,751.9	10,922.7	235.9	107.4	179.72	603.1	9,980.9	2,067.8	1,958.0	109.74	18.842		
17,900.0	8,890.0	14,904.2	10,926.2	238.3	110.8	179.54	596.3	10,132.9	2,067.4	1,956.0	111.39	18.559		
18,000.0	8,892.8	15,009.7	10,925.8	240.7	113.2	179.48	594.2	10,238.4	2,064.1	1,951.2	112.91	18.282		
18,074.0	8,894.9	15,039.4	10,926.4	242.5	113.9	179.47	593.7	10,268.1	2,063.3	1,949.4	113.90	18.115		
18,100.0	8,895.7	15,073.0	10,927.7	243.1	114.6	179.46	593.4	10,301.6	2,063.8	1,949.4	114.31	18.053		
18,107.5	8,895.9	15,073.0	10,927.7	243.3	114.6	179.46	593.4	10,301.6	2,063.7	1,949.3	114.41	18.039		
18,200.0	8,898.5	15,094.3	10,928.9	245.5	115.1	179.46	593.3	10,322.9	2,065.6	1,950.0	115.55	17.876		
18,300.0	8,901.3	18,300.0	10,936.9	248.0	188.0	179.50	594.7	10,431.3	2,070.2	1,930.8	139.35	14.856		
18,400.0	8,904.1	15,326.2	10,942.4	250.4	120.4	179.47	593.4	10,554.3	2,071.7	1,953.1	118.66	17.459		
18,500.0	8,906.9	15,508.1	10,945.1	252.8	124.6	179.27	586.0	10,735.9	2,069.4	1,949.0	120.46	17.179		
18,600.0	8,909.8	15,566.6	10,946.4	255.2	125.9	179.27	585.8	10,794.4	2,068.6	1,946.8	121.85	16.976		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design Dr. Lana White - Dr. Lana White #223H - Wellbore #2 - Actual												Offset Site Error:	0.0 usft
Survey Program: 40-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
18,650.7	8,911.2	15,617.3	10,947.8	256.5	127.1	179.27	586.1	10,845.2	2,068.6	1,946.0	122.61	16.871	
18,700.0	8,912.6	15,611.0	10,947.6	257.7	126.9	179.27	586.1	10,838.8	2,069.3	1,946.2	123.16	16.802	
18,800.0	8,915.4	15,611.0	10,947.6	260.1	126.9	179.27	586.1	10,838.8	2,074.4	1,950.2	124.19	16.704	
18,900.0	8,918.2	15,611.0	10,947.6	262.5	126.9	179.27	586.1	10,838.8	2,084.2	1,959.2	125.04	16.668	
18,963.5	8,920.0	15,611.0	10,947.6	264.1	126.9	179.27	586.1	10,838.8	2,093.0	1,967.5	125.50	16.677	

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 224-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	44.54	567.4	558.4	796.1					
100.0	100.0	97.6	97.6	0.1	0.2	44.50	568.0	558.1	796.3	796.0	0.28	2,808.924		
200.0	200.0	194.2	194.2	0.5	0.3	44.36	569.8	557.2	797.0	796.2	0.79	1,003.636		
300.0	300.0	295.4	295.3	0.8	0.6	44.14	572.6	555.6	797.8	796.4	1.46	547.324		
400.0	400.0	398.9	398.7	1.2	1.0	43.88	575.4	553.4	798.3	796.1	2.19	364.602		
500.0	500.0	507.5	507.3	1.6	1.4	43.63	577.6	550.7	798.1	795.2	2.94	271.428		
600.0	599.9	604.4	604.2	1.9	1.7	-8.68	578.7	548.6	793.1	789.5	3.64	217.893		
660.0	659.5	660.5	660.2	2.2	1.9	-8.83	578.9	548.3	786.3	782.2	4.06	193.673		
700.0	699.1	697.8	697.5	2.3	2.0	-8.87	578.8	548.5	780.9	776.5	4.33	180.155		
800.0	798.1	787.5	787.3	2.7	2.3	-8.89	578.1	550.2	767.8	762.9	4.99	153.823		
900.0	897.1	862.8	862.5	3.1	2.6	-8.81	578.0	553.7	757.2	751.6	5.61	135.091		
1,000.0	996.2	938.5	937.9	3.5	2.9	-8.66	579.0	559.6	749.7	743.5	6.22	120.444		
1,100.0	1,095.2	1,022.9	1,021.8	3.9	3.2	-8.40	581.1	568.5	745.0	738.1	6.88	108.210		
1,200.0	1,194.2	1,110.5	1,108.7	4.3	3.5	-8.05	583.6	579.6	742.0	734.5	7.56	98.185		
1,300.0	1,293.3	1,206.5	1,203.6	4.7	3.8	-7.59	586.5	593.3	740.4	732.1	8.27	89.537		
1,400.0	1,392.3	1,307.6	1,303.7	5.1	4.2	-7.12	589.6	607.6	738.8	729.8	9.00	82.060		
1,500.0	1,491.3	1,402.6	1,397.7	5.5	4.6	-6.68	592.8	621.0	737.3	727.6	9.72	75.857		
1,600.0	1,590.3	1,495.5	1,489.5	5.9	5.0	-6.26	596.6	634.6	736.8	726.4	10.43	70.653		
1,600.8	1,591.1	1,496.2	1,490.2	5.9	5.0	-6.26	596.6	634.7	736.8	726.4	10.43	70.616		
1,700.0	1,689.4	1,591.0	1,583.8	6.3	5.4	-5.85	601.1	649.1	737.2	726.0	11.15	66.107		
1,800.0	1,788.4	1,687.7	1,679.2	6.7	5.8	-5.46	606.4	663.6	738.0	726.1	11.88	62.131		
1,900.0	1,887.4	1,782.4	1,772.7	7.1	6.2	-5.12	612.2	678.0	739.4	726.8	12.60	58.693		
2,000.0	1,986.4	1,876.6	1,865.6	7.6	6.6	-4.81	618.6	692.6	741.6	728.3	13.32	55.699		
2,100.0	2,085.5	1,981.7	1,969.0	8.0	7.0	-4.46	625.9	709.0	744.0	730.0	14.09	52.822		
2,200.0	2,184.5	2,088.9	2,074.8	8.4	7.5	-4.05	632.2	725.5	745.5	730.6	14.87	50.148		
2,300.0	2,283.5	2,181.2	2,165.8	8.8	7.9	-3.66	637.2	740.1	747.1	731.5	15.58	47.955		
2,400.0	2,382.5	2,274.5	2,257.6	9.2	8.3	-3.23	642.5	755.6	749.5	733.3	16.29	46.003		
2,500.0	2,481.6	2,367.7	2,349.3	9.6	8.7	-2.82	648.4	771.8	752.9	735.9	17.01	44.266		
2,600.0	2,580.6	2,461.5	2,441.3	10.1	9.1	-2.43	655.2	788.4	757.2	739.5	17.73	42.719		
2,700.0	2,679.6	2,564.4	2,542.3	10.5	9.6	-2.14	664.0	805.6	761.7	743.2	18.49	41.202		
2,800.0	2,778.7	2,669.2	2,645.5	10.9	10.1	-2.06	674.8	821.1	765.8	746.5	19.26	39.760		
2,900.0	2,877.7	2,773.1	2,747.8	11.3	10.5	-2.04	685.7	835.3	769.1	749.1	20.02	38.409		
3,000.0	2,976.7	2,875.0	2,848.3	11.7	11.0	-1.99	695.9	849.1	772.1	751.4	20.78	37.164		
3,100.0	3,075.7	2,980.1	2,951.9	12.1	11.4	-1.96	706.2	863.0	774.7	753.1	21.54	35.958		
3,200.0	3,174.8	3,083.7	3,054.2	12.6	11.9	-1.94	716.2	876.0	776.6	754.3	22.31	34.818		
3,300.0	3,273.8	3,183.2	3,152.5	13.0	12.3	-1.91	725.5	888.6	778.4	755.4	23.05	33.777		
3,400.0	3,372.8	3,283.9	3,251.9	13.4	12.7	-1.85	734.7	901.6	780.2	756.4	23.79	32.795		
3,500.0	3,471.8	3,386.8	3,353.6	13.8	13.1	-1.78	743.8	914.7	781.8	757.2	24.55	31.846		
3,600.0	3,570.9	3,486.5	3,452.1	14.2	13.6	-1.72	752.4	927.1	783.1	757.8	25.29	30.962		
3,700.0	3,669.9	3,583.0	3,547.5	14.7	14.0	-1.66	761.0	939.5	784.7	758.7	26.02	30.159		
3,800.0	3,768.9	3,680.0	3,643.2	15.1	14.4	-1.59	769.8	952.2	786.7	760.0	26.75	29.413		
3,900.0	3,867.9	3,777.4	3,739.3	15.5	14.8	-1.50	778.7	965.5	789.1	761.6	27.48	28.716		
4,000.0	3,967.0	3,872.0	3,832.5	15.9	15.3	-1.38	787.2	978.9	791.9	763.7	28.20	28.084		
4,100.0	4,066.0	3,964.3	3,923.4	16.3	15.7	-1.18	795.1	993.4	795.6	766.7	28.90	27.527		
4,200.0	4,165.0	4,063.5	4,020.7	16.7	16.1	-0.89	803.1	1,010.2	800.1	770.4	29.65	26.988		
4,300.0	4,264.1	4,169.8	4,125.3	17.2	16.6	-0.59	811.5	1,027.7	804.0	773.6	30.43	26.419		
4,400.0	4,363.1	4,275.5	4,229.3	17.6	17.1	-0.33	819.7	1,044.1	807.1	775.9	31.21	25.860		
4,500.0	4,462.1	4,380.9	4,333.3	18.0	17.5	-0.11	827.9	1,059.6	809.6	777.6	31.99	25.311		
4,600.0	4,561.1	4,479.8	4,430.9	18.4	18.0	0.06	835.8	1,073.6	811.8	779.1	32.73	24.804		
4,700.0	4,660.2	4,577.8	4,527.6	18.8	18.4	0.19	844.1	1,087.4	814.2	780.7	33.46	24.330		
4,800.0	4,759.2	4,679.7	4,628.1	19.2	18.9	0.31	853.0	1,101.5	816.6	782.4	34.22	23.864		
4,900.0	4,858.2	4,782.0	4,729.1	19.7	19.3	0.42	861.9	1,115.4	818.8	783.8	34.98	23.409		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 224-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,887.4	4,833.1	20.1	19.8	0.50	870.9	1,129.1	820.4	784.7	35.75	22.951		
5,100.0	5,056.3	4,994.3	4,938.9	20.5	20.2	0.57	880.0	1,142.2	821.4	784.9	36.52	22.491		
5,200.0	5,155.3	5,106.0	5,049.5	20.9	20.7	0.60	889.0	1,154.6	821.2	783.9	37.31	22.011		
5,300.0	5,254.3	5,215.7	5,158.4	21.3	21.1	0.61	897.3	1,165.3	819.6	781.6	38.08	21.523		
5,400.0	5,353.4	5,323.8	5,265.8	21.8	21.5	0.60	905.0	1,174.9	817.0	778.2	38.84	21.035		
5,500.0	5,452.4	5,429.8	5,371.2	22.2	22.0	0.58	912.0	1,183.5	813.5	773.9	39.59	20.548		
5,600.0	5,551.4	5,535.2	5,476.1	22.6	22.4	0.57	918.5	1,191.5	809.4	769.0	40.34	20.065		
5,700.0	5,650.4	5,625.7	5,566.2	23.0	22.7	0.59	923.8	1,198.8	805.4	764.3	41.05	19.619		
5,800.0	5,749.5	5,715.8	5,655.6	23.4	23.1	0.70	928.9	1,207.6	802.7	760.9	41.76	19.222		
5,900.0	5,848.5	5,818.1	5,757.2	23.9	23.5	0.87	934.4	1,218.5	800.5	758.0	42.50	18.834		
6,000.0	5,947.5	5,923.3	5,861.7	24.3	23.9	1.03	939.9	1,229.1	797.8	754.6	43.25	18.445		
6,100.0	6,046.5	6,047.1	5,984.9	24.7	24.4	1.21	945.1	1,239.8	793.3	749.2	44.03	18.016		
6,200.0	6,145.6	6,167.7	6,105.2	25.1	24.8	1.41	947.9	1,247.5	785.8	741.0	44.76	17.555		
6,300.0	6,244.6	6,285.4	6,222.8	25.5	25.2	1.64	948.7	1,252.9	776.0	730.5	45.46	17.070		
6,400.0	6,343.6	6,389.6	6,327.0	25.9	25.5	1.84	948.4	1,256.5	764.6	718.4	46.16	16.564		
6,500.0	6,442.6	6,493.1	6,430.5	26.4	25.9	2.03	948.0	1,259.4	752.7	705.9	46.86	16.063		
6,600.0	6,541.7	6,596.9	6,534.2	26.8	26.2	2.20	947.5	1,261.5	740.2	692.7	47.56	15.566		
6,700.0	6,640.7	6,699.8	6,637.1	27.2	26.5	2.35	947.0	1,263.0	727.2	678.9	48.25	15.072		
6,800.0	6,739.7	6,797.6	6,734.9	27.6	26.8	2.47	946.6	1,264.0	713.9	664.9	48.96	14.581		
6,900.0	6,838.8	7,381.7	7,248.8	28.0	27.6	-12.54	936.8	1,038.0	665.3	627.4	37.92	17.546		
7,000.0	6,937.8	7,554.8	7,339.4	28.5	27.9	-30.75	943.2	891.1	591.9	554.9	37.04	15.982		
7,100.0	7,036.8	7,596.1	7,355.2	28.9	28.0	-36.45	944.1	853.0	518.5	477.5	40.94	12.666		
7,200.0	7,135.8	7,626.6	7,366.3	29.3	28.1	-40.92	944.9	824.6	453.3	407.4	45.89	9.878		
7,300.0	7,234.9	7,653.6	7,375.7	29.7	28.2	-45.01	945.6	799.3	400.9	349.6	51.32	7.813		
7,400.0	7,333.9	7,679.4	7,384.0	30.1	28.3	-49.03	946.4	774.8	367.1	311.1	55.96	6.560		
7,485.1	7,418.2	7,694.3	7,388.1	30.5	28.4	-51.38	946.8	760.6	357.4	299.6	57.73	6.190 CC, ES, SF		
7,500.0	7,432.9	7,696.4	7,388.7	30.5	28.4	-51.71	946.9	758.5	357.7	299.9	57.75	6.193		
7,583.1	7,515.2	7,706.2	7,391.1	30.9	28.4	-53.26	947.2	749.0	370.3	314.0	56.26	6.581		
7,600.0	7,531.9	7,707.9	7,391.5	31.0	28.4	-53.59	947.2	747.4	375.1	319.4	55.68	6.736		
7,700.0	7,631.2	7,717.1	7,393.6	31.4	28.5	-55.62	947.5	738.5	417.0	365.9	51.04	8.170		
7,800.0	7,730.7	7,725.1	7,395.2	31.8	28.5	-57.86	947.7	730.6	477.4	431.6	45.82	10.418		
7,900.0	7,830.5	7,732.4	7,396.6	32.1	28.6	-60.41	948.0	723.4	550.2	509.0	41.18	13.359		
8,000.0	7,930.4	7,753.0	7,399.9	32.5	28.7	-65.52	948.6	703.1	631.3	593.7	37.68	16.757		
8,100.0	8,030.4	7,753.0	7,399.9	32.8	28.7	-67.84	948.6	703.1	717.2	682.6	34.64	20.707		
8,116.4	8,046.8	7,753.0	7,399.9	32.8	28.7	-16.20	948.6	703.1	731.7	697.5	34.21	21.388		
8,200.0	8,130.4	7,753.0	7,399.9	33.1	28.7	-16.20	948.6	703.1	806.7	774.4	32.30	24.975		
8,216.6	8,147.0	7,753.0	7,399.9	33.1	28.7	-16.20	948.6	703.1	821.8	789.8	31.96	25.709		
8,250.0	8,180.4	7,753.0	7,399.9	33.3	28.7	-98.80	948.6	703.1	852.4	821.0	31.34	27.199		
8,300.0	8,230.1	7,753.0	7,399.9	33.4	28.7	-86.45	948.6	703.1	898.7	868.2	30.52	29.451		
8,350.0	8,279.2	7,753.0	7,399.9	33.6	28.7	-73.72	948.6	703.1	945.4	915.5	29.82	31.699		
8,400.0	8,327.3	7,753.0	7,399.9	33.9	28.7	-61.94	948.6	703.1	991.9	962.7	29.25	33.911		
8,450.0	8,374.0	7,753.0	7,399.9	34.1	28.7	-51.93	948.6	703.1	1,038.1	1,009.3	28.79	36.052		
8,500.0	8,419.0	7,753.0	7,399.9	34.4	28.7	-43.85	948.6	703.1	1,083.5	1,055.0	28.45	38.084		
8,550.0	8,461.9	7,753.0	7,399.9	34.7	28.7	-37.48	948.6	703.1	1,128.0	1,099.8	28.22	39.972		
8,600.0	8,502.4	7,753.0	7,399.9	35.1	28.7	-32.48	948.6	703.1	1,171.4	1,143.3	28.11	41.679		
8,650.0	8,540.2	7,753.0	7,399.9	35.4	28.7	-28.54	948.6	703.1	1,213.4	1,185.3	28.10	43.176		
8,700.0	8,575.0	7,716.6	7,393.5	35.8	28.5	-24.43	947.5	739.0	1,252.0	1,224.4	27.62	45.337		
8,750.0	8,606.6	7,708.3	7,391.6	36.2	28.4	-21.95	947.2	747.0	1,290.0	1,262.3	27.67	46.626		
8,800.0	8,634.7	7,699.5	7,389.5	36.7	28.4	-19.94	947.0	755.6	1,325.8	1,298.0	27.81	47.683		
8,850.0	8,659.0	7,658.0	7,377.2	37.2	28.2	-17.88	945.7	795.2	1,361.0	1,333.5	27.45	49.587		
8,900.0	8,679.5	7,658.0	7,377.2	37.7	28.2	-16.73	945.7	795.2	1,391.5	1,363.6	27.92	49.848		
8,950.0	8,695.9	7,658.0	7,377.2	38.2	28.2	-15.77	945.7	795.2	1,419.9	1,391.4	28.50	49.825		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 224-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.0	8,708.1	7,658.0	7,377.2	38.8	28.2	-14.96	945.7	795.2	1,445.9	1,416.7	29.19	49.544		
9,050.0	8,716.1	7,639.3	7,370.8	39.4	28.1	-14.17	945.2	812.7	1,469.4	1,439.8	29.58	49.681		
9,100.0	8,719.7	7,614.7	7,362.1	40.0	28.0	-13.51	944.6	835.7	1,489.8	1,459.9	29.92	49.798		
9,116.6	8,720.0	7,606.4	7,359.0	40.2	28.0	-13.32	944.4	843.4	1,495.8	1,465.8	30.04	49.798		
9,200.0	8,720.0	7,563.0	7,342.6	41.3	27.9	-13.13	943.4	883.6	1,526.2	1,495.5	30.67	49.763		
9,300.0	8,720.0	7,563.0	7,342.6	42.7	27.9	-13.13	943.4	883.6	1,566.4	1,533.8	32.60	48.053		
9,400.0	8,720.2	7,513.2	7,321.3	44.2	27.8	-12.89	942.0	928.6	1,609.1	1,575.7	33.43	48.139		
9,500.0	8,720.3	7,468.0	7,298.7	45.7	27.7	-12.63	940.2	967.7	1,656.7	1,622.4	34.32	48.269		
9,600.0	8,720.6	7,468.0	7,298.7	47.4	27.7	-12.63	940.2	967.7	1,706.6	1,670.4	36.19	47.156		
9,700.0	8,720.8	7,468.0	7,298.7	49.1	27.7	-12.64	940.2	967.7	1,760.9	1,722.9	37.98	46.363		
9,800.0	8,721.2	7,415.7	7,269.4	50.9	27.6	-12.31	938.1	1,010.9	1,816.6	1,778.0	38.57	47.095		
9,900.0	8,721.5	7,373.0	7,243.3	52.7	27.6	-12.05	936.5	1,044.7	1,876.0	1,836.6	39.33	47.700		
10,000.0	8,722.0	7,373.0	7,243.3	54.6	27.6	-12.05	936.5	1,044.7	1,937.1	1,896.3	40.88	47.384		
10,100.0	8,722.4	7,373.0	7,243.3	56.5	27.6	-12.06	936.5	1,044.7	2,001.5	1,959.2	42.33	47.288		
10,200.0	8,723.0	7,332.5	7,216.8	58.4	27.6	-11.81	935.3	1,075.2	2,067.1	2,024.1	42.94	48.141		
10,300.0	8,723.5	7,315.2	7,204.9	60.4	27.6	-11.71	934.9	1,087.8	2,135.2	2,091.3	43.91	48.626		
10,400.0	8,724.2	7,277.0	7,177.6	62.5	27.6	-11.50	934.4	1,114.5	2,205.7	2,161.3	44.47	49.595		
10,500.0	8,724.9	7,277.0	7,177.6	64.5	27.6	-11.50	934.4	1,114.5	2,277.2	2,231.6	45.60	49.938		
10,600.0	8,725.6	7,277.0	7,177.6	66.6	27.6	-11.51	934.4	1,114.5	2,350.7	2,304.1	46.64	50.405		
10,700.0	8,726.4	7,277.0	7,177.6	68.7	27.6	-11.52	934.4	1,114.5	2,426.2	2,378.6	47.59	50.979		
10,800.0	8,727.2	7,277.0	7,177.6	70.9	27.6	-11.52	934.4	1,114.5	2,503.4	2,454.9	48.47	51.647		
10,900.0	8,728.1	7,237.4	7,147.4	73.0	27.5	-11.31	934.2	1,140.1	2,580.3	2,531.5	48.78	52.901		
11,000.0	8,729.0	7,227.6	7,139.6	75.2	27.5	-11.26	934.2	1,146.1	2,659.6	2,610.1	49.43	53.804		
11,100.0	8,730.0	7,182.0	7,102.0	77.4	27.5	-11.02	934.4	1,171.9	2,741.6	2,691.9	49.62	55.250		
11,200.0	8,731.1	7,182.0	7,102.0	79.6	27.5	-11.03	934.4	1,171.9	2,822.4	2,772.1	50.31	56.096		
11,300.0	8,732.2	7,182.0	7,102.0	81.8	27.5	-11.03	934.4	1,171.9	2,904.5	2,853.5	50.96	56.999		
11,400.0	8,733.3	7,182.0	7,102.0	84.0	27.5	-11.04	934.4	1,171.9	2,987.7	2,936.2	51.55	57.953		
11,500.0	8,734.5	7,182.0	7,102.0	86.2	27.5	-11.05	934.4	1,171.9	3,071.9	3,019.8	52.11	58.952		
11,600.0	8,735.8	7,182.0	7,102.0	88.5	27.5	-11.06	934.4	1,171.9	3,157.1	3,104.5	52.63	59.993		
11,700.0	8,737.1	7,182.0	7,102.0	90.8	27.5	-11.07	934.4	1,171.9	3,243.2	3,190.1	53.11	61.069		
11,800.0	8,738.4	7,182.0	7,102.0	93.0	27.5	-11.08	934.4	1,171.9	3,330.0	3,276.5	53.56	62.178		
11,900.0	8,739.8	7,182.0	7,102.0	95.3	27.5	-11.09	934.4	1,171.9	3,417.6	3,363.6	53.98	63.316		
12,000.0	8,741.3	7,182.0	7,102.0	97.6	27.5	-11.10	934.4	1,171.9	3,505.9	3,451.5	54.37	64.481		
12,100.0	8,742.8	7,182.0	7,102.0	99.9	27.5	-11.11	934.4	1,171.9	3,594.8	3,540.1	54.74	65.670		
12,200.0	8,744.3	7,138.2	7,064.0	102.2	27.5	-10.90	935.3	1,193.5	3,682.3	3,627.6	54.78	67.227		
12,300.0	8,745.9	7,132.5	7,058.9	104.5	27.5	-10.88	935.5	1,196.1	3,771.9	3,716.8	55.08	68.483		
12,400.0	8,747.6	7,087.0	7,017.6	106.8	27.4	-10.70	937.4	1,215.0	3,863.5	3,808.4	55.11	70.108		
12,500.0	8,749.3	7,087.0	7,017.6	109.1	27.4	-10.71	937.4	1,215.0	3,953.5	3,898.1	55.43	71.331		
12,600.0	8,751.1	7,087.0	7,017.6	111.5	27.4	-10.72	937.4	1,215.0	4,044.0	3,988.3	55.73	72.570		
12,700.0	8,752.9	7,087.0	7,017.6	113.8	27.4	-10.73	937.4	1,215.0	4,135.0	4,079.0	56.01	73.825		
12,800.0	8,754.7	7,087.0	7,017.6	116.1	27.4	-10.74	937.4	1,215.0	4,226.4	4,170.1	56.28	75.093		
12,900.0	8,756.6	7,087.0	7,017.6	118.5	27.4	-10.76	937.4	1,215.0	4,318.2	4,261.7	56.54	76.373		
13,000.0	8,758.6	7,087.0	7,017.6	120.8	27.4	-10.77	937.4	1,215.0	4,410.4	4,353.6	56.79	77.665		
13,100.0	8,760.6	7,087.0	7,017.6	123.2	27.4	-10.78	937.4	1,215.0	4,502.9	4,445.9	57.02	78.968		
13,200.0	8,762.7	7,087.0	7,017.6	125.5	27.4	-10.80	937.4	1,215.0	4,595.8	4,538.5	57.25	80.279		
13,300.0	8,764.8	7,087.0	7,017.6	127.9	27.4	-10.81	937.4	1,215.0	4,689.0	4,631.5	57.46	81.599		
13,400.0	8,767.0	7,087.0	7,017.6	130.3	27.4	-10.83	937.4	1,215.0	4,782.4	4,724.7	57.67	82.927		
13,500.0	8,769.2	7,087.0	7,017.6	132.6	27.4	-10.84	937.4	1,215.0	4,876.2	4,818.3	57.87	84.261		
13,600.0	8,771.5	7,087.0	7,017.6	135.0	27.4	-10.86	937.4	1,215.0	4,970.2	4,912.1	58.06	85.602		
13,700.0	8,773.8	7,087.0	7,017.6	137.4	27.4	-10.87	937.4	1,215.0	5,064.4	5,006.2	58.25	86.948		
13,800.0	8,776.2	7,087.0	7,017.6	139.7	27.4	-10.89	937.4	1,215.0	5,158.9	5,100.5	58.43	88.299		
13,900.0	8,778.6	7,087.0	7,017.6	142.1	27.4	-10.91	937.4	1,215.0	5,253.6	5,195.0	58.60	89.654		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 224-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	8,781.1	7,087.0	7,017.6	144.5	27.4	-10.92	937.4	1,215.0	5,348.5	5,289.7	58.77	91.013		
14,100.0	8,783.6	7,087.0	7,017.6	146.9	27.4	-10.94	937.4	1,215.0	5,443.6	5,384.7	58.93	92.376		
14,200.0	8,786.2	7,087.0	7,017.6	149.2	27.4	-10.96	937.4	1,215.0	5,538.9	5,479.8	59.09	93.741		
14,300.0	8,788.8	7,045.1	6,978.4	151.6	27.4	-10.80	939.6	1,229.7	5,633.1	5,574.0	59.09	95.326		
14,400.0	8,791.5	7,041.7	6,975.2	154.0	27.4	-10.80	939.8	1,230.8	5,728.5	5,669.2	59.23	96.709		
14,500.0	8,794.2	7,038.3	6,972.0	156.4	27.4	-10.80	939.9	1,231.9	5,824.1	5,764.7	59.37	98.092		
14,600.0	8,797.0	7,035.1	6,969.0	158.8	27.4	-10.81	940.1	1,232.9	5,919.8	5,860.3	59.51	99.475		
14,614.8	8,797.4	7,034.6	6,968.5	159.1	27.4	-10.81	940.1	1,233.0	5,933.9	5,874.4	59.53	99.679		
14,700.0	8,799.8	6,991.0	6,926.7	161.2	27.3	-10.62	942.2	1,245.4	6,016.9	5,957.4	59.51	101.107		
14,800.0	8,802.7	6,991.0	6,926.7	163.6	27.3	-10.62	942.2	1,245.4	6,112.7	6,053.0	59.65	102.467		
14,900.0	8,805.5	6,991.0	6,926.7	166.0	27.3	-10.62	942.2	1,245.4	6,208.6	6,148.8	59.80	103.829		
15,000.0	8,808.3	6,991.0	6,926.7	168.4	27.3	-10.62	942.2	1,245.4	6,304.6	6,244.7	59.94	105.190		
15,100.0	8,811.1	6,991.0	6,926.7	170.8	27.3	-10.62	942.2	1,245.4	6,400.8	6,340.7	60.07	106.552		
15,200.0	8,813.9	6,991.0	6,926.7	173.2	27.3	-10.62	942.2	1,245.4	6,497.1	6,436.9	60.21	107.913		
15,300.0	8,816.8	6,991.0	6,926.7	175.6	27.3	-10.62	942.2	1,245.4	6,593.5	6,533.1	60.34	109.275		
15,400.0	8,819.6	6,991.0	6,926.7	178.0	27.3	-10.62	942.2	1,245.4	6,690.0	6,629.5	60.47	110.635		
15,500.0	8,822.4	6,991.0	6,926.7	180.4	27.3	-10.62	942.2	1,245.4	6,786.6	6,726.0	60.60	111.995		
15,600.0	8,825.2	6,991.0	6,926.7	182.8	27.3	-10.62	942.2	1,245.4	6,883.3	6,822.5	60.72	113.354		
15,700.0	8,828.0	6,991.0	6,926.7	185.2	27.3	-10.62	942.2	1,245.4	6,980.0	6,919.2	60.85	114.712		
15,800.0	8,830.8	6,991.0	6,926.7	187.6	27.3	-10.62	942.2	1,245.4	7,076.9	7,016.0	60.97	116.069		
15,900.0	8,833.7	6,991.0	6,926.7	190.0	27.3	-10.62	942.2	1,245.4	7,173.9	7,112.8	61.09	117.424		
16,000.0	8,836.5	6,991.0	6,926.7	192.4	27.3	-10.62	942.2	1,245.4	7,270.9	7,209.7	61.21	118.777		
16,100.0	8,839.3	6,991.0	6,926.7	194.8	27.3	-10.62	942.2	1,245.4	7,368.1	7,306.7	61.33	120.129		
16,200.0	8,842.1	6,991.0	6,926.7	197.2	27.3	-10.62	942.2	1,245.4	7,465.3	7,403.8	61.45	121.479		
16,300.0	8,844.9	6,991.0	6,926.7	199.6	27.3	-10.62	942.2	1,245.4	7,562.5	7,501.0	61.57	122.827		
16,400.0	8,847.8	6,991.0	6,926.7	202.0	27.3	-10.62	942.2	1,245.4	7,659.9	7,598.2	61.69	124.172		
16,500.0	8,850.6	6,991.0	6,926.7	204.4	27.3	-10.62	942.2	1,245.4	7,757.3	7,695.5	61.80	125.516		
16,600.0	8,853.4	6,991.0	6,926.7	206.8	27.3	-10.62	942.2	1,245.4	7,854.8	7,792.9	61.92	126.857		
16,700.0	8,856.2	6,991.0	6,926.7	209.3	27.3	-10.62	942.2	1,245.4	7,952.3	7,890.3	62.03	128.195		
16,800.0	8,859.0	6,991.0	6,926.7	211.7	27.3	-10.62	942.2	1,245.4	8,049.9	7,987.8	62.15	129.531		
16,900.0	8,861.8	6,991.0	6,926.7	214.1	27.3	-10.62	942.2	1,245.4	8,147.6	8,085.3	62.26	130.864		
17,000.0	8,864.7	6,991.0	6,926.7	216.5	27.3	-10.62	942.2	1,245.4	8,245.3	8,182.9	62.37	132.194		
17,100.0	8,867.5	6,991.0	6,926.7	218.9	27.3	-10.62	942.2	1,245.4	8,343.1	8,280.6	62.48	133.522		
17,200.0	8,870.3	6,991.0	6,926.7	221.3	27.3	-10.62	942.2	1,245.4	8,440.9	8,378.3	62.60	134.846		
17,300.0	8,873.1	6,991.0	6,926.7	223.8	27.3	-10.62	942.2	1,245.4	8,538.7	8,476.0	62.71	136.168		
17,400.0	8,875.9	6,991.0	6,926.7	226.2	27.3	-10.62	942.2	1,245.4	8,636.7	8,573.8	62.82	137.486		
17,500.0	8,878.8	6,991.0	6,926.7	228.6	27.3	-10.62	942.2	1,245.4	8,734.6	8,671.7	62.93	138.801		
17,600.0	8,881.6	6,991.0	6,926.7	231.0	27.3	-10.62	942.2	1,245.4	8,832.6	8,769.6	63.04	140.113		
17,700.0	8,884.4	6,991.0	6,926.7	233.4	27.3	-10.62	942.2	1,245.4	8,930.7	8,867.6	63.15	141.421		
17,800.0	8,887.2	6,991.0	6,926.7	235.9	27.3	-10.62	942.2	1,245.4	9,028.8	8,965.5	63.26	142.726		
17,900.0	8,890.0	6,991.0	6,926.7	238.3	27.3	-10.62	942.2	1,245.4	9,126.9	9,063.6	63.37	144.027		
18,000.0	8,892.8	6,991.0	6,926.7	240.7	27.3	-10.62	942.2	1,245.4	9,225.1	9,161.6	63.48	145.325		
18,100.0	8,895.7	6,991.0	6,926.7	243.1	27.3	-10.62	942.2	1,245.4	9,323.3	9,259.8	63.59	146.619		
18,200.0	8,898.5	6,991.0	6,926.7	245.5	27.3	-10.62	942.2	1,245.4	9,421.6	9,357.9	63.70	147.910		
18,300.0	8,901.3	6,991.0	6,926.7	248.0	27.3	-10.62	942.2	1,245.4	9,519.9	9,456.1	63.81	149.196		
18,400.0	8,904.1	6,991.0	6,926.7	250.4	27.3	-10.62	942.2	1,245.4	9,618.2	9,554.3	63.92	150.479		
18,500.0	8,906.9	6,991.0	6,926.7	252.8	27.3	-10.62	942.2	1,245.4	9,716.6	9,652.6	64.03	151.759		
18,600.0	8,909.8	6,991.0	6,926.7	255.2	27.3	-10.62	942.2	1,245.4	9,815.0	9,750.8	64.14	153.034		
18,700.0	8,912.6	6,991.0	6,926.7	257.7	27.3	-10.62	942.2	1,245.4	9,913.4	9,849.2	64.25	154.305		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-12.15	139.5	-30.0	142.7					
100.0	100.0	101.2	101.2	0.1	0.2	-12.24	139.4	-30.2	142.6	142.4	0.28	502.737		
200.0	200.0	201.5	201.5	0.5	0.3	-12.52	139.0	-30.9	142.4	141.6	0.80	178.892		
300.0	300.0	303.0	302.9	0.8	0.7	-12.88	138.2	-31.6	141.7	140.2	1.53	92.679		
400.0	400.0	403.4	403.4	1.2	1.0	-13.66	136.1	-33.1	140.1	137.9	2.25	62.323		
500.0	500.0	505.3	505.1	1.6	1.4	-15.10	133.0	-35.9	137.8	134.9	2.98	46.273		
600.0	599.9	606.4	606.2	1.9	1.8	-70.95	128.2	-38.9	132.6	128.9	3.71	35.761		
660.0	659.5	665.8	665.4	2.2	2.0	-75.17	125.1	-40.6	128.2	124.1	4.14	30.952		
700.0	699.1	703.9	703.5	2.3	2.1	-78.22	123.3	-41.5	125.6	121.2	4.43	28.373		
800.0	798.1	803.4	802.9	2.7	2.5	-85.05	121.1	-41.5	121.6	116.4	5.16	23.568		
900.0	897.1	908.6	907.9	3.1	2.9	-90.86	117.7	-35.7	115.2	109.3	5.91	19.493		
1,000.0	996.2	1,009.9	1,008.5	3.5	3.2	-96.16	112.5	-26.0	105.8	99.2	6.65	15.923		
1,100.0	1,095.2	1,110.4	1,108.4	3.9	3.6	-102.99	105.9	-16.2	96.4	89.1	7.39	13.055		
1,200.0	1,194.2	1,212.4	1,209.3	4.3	4.0	-111.38	97.7	-4.2	86.1	78.0	8.12	10.608		
1,300.0	1,293.3	1,311.7	1,307.2	4.7	4.3	-119.68	90.9	11.3	74.9	66.0	8.84	8.469		
1,400.0	1,392.3	1,409.9	1,404.0	5.1	4.7	-130.31	84.2	26.6	65.8	56.2	9.57	6.876		
1,500.0	1,491.3	1,507.8	1,500.6	5.5	5.1	-143.75	77.3	40.7	60.9	50.6	10.31	5.909		
1,600.0	1,590.3	1,607.6	1,599.2	5.9	5.5	-157.48	71.7	54.8	59.7	48.7	11.05	5.407		
1,600.9	1,591.2	1,608.5	1,600.1	5.9	5.5	-157.60	71.7	55.0	59.7	48.7	11.05	5.404 CC, ES		
1,700.0	1,689.4	1,706.0	1,696.5	6.3	5.9	-169.47	67.7	68.5	61.6	49.8	11.81	5.217 SF		
1,800.0	1,788.4	1,804.4	1,794.1	6.7	6.3	-179.43	63.8	80.8	67.0	54.4	12.60	5.318		
1,900.0	1,887.4	1,903.3	1,892.3	7.1	6.7	173.16	60.2	91.7	75.0	61.6	13.38	5.603		
2,000.0	1,986.4	2,002.6	1,990.6	7.6	7.1	165.40	55.0	104.8	83.9	69.7	14.20	5.906		
2,100.0	2,085.5	2,100.3	2,087.0	8.0	7.5	157.99	48.0	119.0	95.0	80.0	15.03	6.321		
2,200.0	2,184.5	2,198.5	2,184.0	8.4	8.0	152.33	40.4	132.7	108.1	92.2	15.86	6.816		
2,300.0	2,283.5	2,296.5	2,280.8	8.8	8.4	148.07	32.6	145.9	122.4	105.7	16.67	7.341		
2,400.0	2,382.5	2,395.1	2,378.1	9.2	8.8	144.68	24.3	159.1	137.7	120.2	17.49	7.872		
2,500.0	2,481.6	2,494.8	2,476.6	9.6	9.2	141.90	16.5	172.7	152.7	134.4	18.32	8.335		
2,600.0	2,580.6	2,594.1	2,574.7	10.1	9.7	139.81	9.3	185.9	167.6	148.5	19.14	8.755		
2,700.0	2,679.6	2,693.8	2,673.4	10.5	10.1	138.34	2.6	198.3	182.2	162.2	19.96	9.129		
2,800.0	2,778.7	2,793.3	2,772.0	10.9	10.5	137.38	-3.4	209.9	196.4	175.6	20.76	9.460		
2,900.0	2,877.7	2,893.2	2,871.1	11.3	10.9	136.35	-9.2	222.2	210.4	188.8	21.58	9.750		
3,000.0	2,976.7	2,993.7	2,970.2	11.7	11.4	134.65	-14.9	237.7	223.9	201.4	22.42	9.986		
3,100.0	3,075.7	3,093.2	3,068.3	12.1	11.8	133.08	-20.0	253.4	236.9	213.7	23.25	10.191		
3,200.0	3,174.8	3,193.1	3,166.9	12.6	12.2	131.77	-24.9	268.7	250.0	225.9	24.08	10.380		
3,300.0	3,273.8	3,292.7	3,265.3	13.0	12.6	130.73	-29.4	283.5	262.8	237.9	24.91	10.550		
3,400.0	3,372.8	3,392.3	3,363.8	13.4	13.1	129.93	-33.7	297.6	275.5	249.7	25.73	10.707		
3,500.0	3,471.8	3,492.0	3,462.5	13.8	13.5	129.35	-37.8	310.9	288.0	261.5	26.54	10.850		
3,600.0	3,570.9	3,593.0	3,562.7	14.2	13.9	129.01	-41.5	323.5	300.2	272.8	27.36	10.969		
3,700.0	3,669.9	3,693.3	3,662.3	14.7	14.3	128.90	-44.7	334.8	311.9	283.7	28.17	11.071		
3,800.0	3,768.9	3,791.0	3,759.4	15.1	14.7	128.91	-47.6	345.2	323.4	294.5	28.95	11.172		
3,900.0	3,867.9	3,883.0	3,850.7	15.5	15.1	128.78	-52.1	355.9	336.7	307.1	29.68	11.345		
4,000.0	3,967.0	3,982.8	3,949.5	15.9	15.5	128.53	-57.7	368.1	350.9	320.4	30.49	11.507		
4,100.0	4,066.0	4,083.7	4,049.6	16.3	15.9	128.37	-62.9	380.0	364.6	333.2	31.31	11.642		
4,200.0	4,165.0	4,183.9	4,149.0	16.7	16.3	128.37	-67.8	390.8	378.0	345.8	32.12	11.768		
4,300.0	4,264.1	4,281.9	4,246.4	17.2	16.7	128.45	-72.2	400.9	391.0	358.1	32.90	11.885		
4,400.0	4,363.1	4,376.5	4,340.1	17.6	17.1	128.24	-77.5	412.6	405.1	371.5	33.66	12.036		
4,500.0	4,462.1	4,474.3	4,436.9	18.0	17.5	127.88	-83.7	425.8	420.0	385.5	34.46	12.185		
4,600.0	4,561.1	4,573.5	4,535.0	18.4	18.0	127.51	-89.9	439.4	434.7	399.4	35.28	12.321		
4,700.0	4,660.2	4,672.6	4,632.9	18.8	18.4	127.19	-96.1	452.8	449.5	413.4	36.10	12.453		
4,800.0	4,759.2	4,771.8	4,731.1	19.2	18.8	126.94	-102.2	465.9	464.2	427.3	36.91	12.576		
4,900.0	4,858.2	4,871.7	4,830.0	19.7	19.2	126.78	-108.3	478.3	478.8	441.1	37.73	12.692		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,974.5	4,931.9	20.1	19.7	126.65	-114.1	491.0	493.0	454.4	38.57	12.781		
5,100.0	5,056.3	5,076.5	5,032.8	20.5	20.1	126.37	-119.0	504.8	506.4	466.9	39.41	12.849		
5,200.0	5,155.3	5,181.7	5,137.0	20.9	20.5	126.17	-123.2	518.5	519.0	478.7	40.27	12.888		
5,300.0	5,254.3	5,287.4	5,241.9	21.3	21.0	125.99	-126.1	532.1	530.3	489.2	41.12	12.896		
5,400.0	5,353.4	5,378.6	5,332.1	21.8	21.3	125.77	-129.0	544.5	542.1	500.2	41.88	12.944		
5,500.0	5,452.4	5,477.7	5,430.1	22.2	21.8	125.46	-132.6	558.8	554.4	511.7	42.70	12.984		
5,600.0	5,551.4	5,577.2	5,528.5	22.6	22.2	125.14	-136.2	573.3	566.7	523.2	43.52	13.020		
5,700.0	5,650.4	5,676.9	5,627.1	23.0	22.6	124.87	-139.9	587.5	579.0	534.7	44.35	13.056		
5,800.0	5,749.5	5,778.7	5,727.9	23.4	23.0	124.66	-143.2	601.4	591.0	545.8	45.18	13.079		
5,900.0	5,848.5	5,878.8	5,827.1	23.9	23.5	124.53	-146.3	614.4	602.7	556.7	46.00	13.101		
6,000.0	5,947.5	5,975.3	5,922.8	24.3	23.9	124.43	-149.3	626.7	614.4	567.6	46.79	13.132		
6,100.0	6,046.5	6,073.3	6,019.9	24.7	24.3	124.35	-153.1	639.1	626.9	579.3	47.59	13.173		
6,200.0	6,145.6	6,175.8	6,121.6	25.1	24.7	124.37	-156.6	650.9	638.8	590.4	48.42	13.195		
6,300.0	6,244.6	6,276.3	6,221.6	25.5	25.1	124.44	-159.9	661.8	650.6	601.4	49.22	13.218		
6,400.0	6,343.6	6,377.0	6,321.7	25.9	25.5	124.61	-162.9	671.6	662.1	612.1	50.02	13.237		
6,500.0	6,442.6	6,477.8	6,422.1	26.4	25.9	124.94	-165.9	679.5	673.4	622.6	50.80	13.256		
6,600.0	6,541.7	6,581.9	6,526.0	26.8	26.2	125.37	-168.6	686.4	684.4	632.8	51.60	13.263		
6,700.0	6,640.7	6,682.3	6,626.2	27.2	26.6	125.88	-170.7	691.7	694.8	642.5	52.36	13.270		
6,800.0	6,739.7	6,785.2	6,729.0	27.6	27.0	126.51	-172.6	695.7	705.0	651.9	53.12	13.272		
6,900.0	6,838.8	6,876.8	6,820.5	28.0	27.2	127.46	-174.2	694.2	715.2	661.4	53.75	13.305		
7,000.0	6,937.8	6,950.0	6,892.3	28.5	27.4	129.14	-177.5	680.9	728.7	674.5	54.16	13.455		
7,100.0	7,036.8	7,024.1	6,962.0	28.9	27.5	131.65	-182.2	656.1	746.4	692.0	54.37	13.727		
7,200.0	7,135.8	7,081.1	7,013.0	29.3	27.5	133.96	-186.1	631.0	768.6	714.4	54.24	14.170		
7,300.0	7,234.9	7,139.0	7,061.9	29.7	27.6	136.55	-191.8	600.7	798.1	744.2	53.89	14.810		
7,400.0	7,333.9	7,163.1	7,081.3	30.1	27.6	137.69	-194.8	586.6	834.5	781.6	52.85	15.790		
7,500.0	7,432.9	7,194.1	7,104.8	30.5	27.6	139.22	-199.1	567.0	878.2	826.6	51.66	16.999		
7,583.1	7,515.2	7,234.0	7,133.1	30.9	27.6	141.27	-205.4	539.5	920.2	869.3	50.82	18.106		
7,600.0	7,531.9	7,234.0	7,133.1	31.0	27.6	141.37	-205.4	539.5	928.9	878.4	50.50	18.394		
7,700.0	7,631.2	7,234.0	7,133.1	31.4	27.6	141.98	-205.4	539.5	984.3	935.7	48.53	20.280		
7,800.0	7,730.7	7,279.0	7,162.6	31.8	27.6	144.83	-213.4	506.6	1,042.8	995.4	47.39	22.007		
7,900.0	7,830.5	7,308.3	7,181.0	32.1	27.6	146.84	-219.0	484.4	1,104.3	1,058.4	45.96	24.029		
8,000.0	7,930.4	7,329.0	7,193.6	32.5	27.6	148.42	-223.2	468.5	1,168.1	1,123.8	44.39	26.313		
8,100.0	8,030.4	7,374.8	7,220.5	32.8	27.7	150.97	-232.7	432.7	1,233.5	1,190.1	43.40	28.419		
8,116.4	8,046.8	7,380.7	7,223.9	32.8	27.7	-156.63	-233.9	428.1	1,244.3	1,201.1	43.21	28.797		
8,200.0	8,130.4	7,409.6	7,240.4	33.1	27.7	-155.50	-240.1	405.1	1,300.6	1,258.4	42.26	30.777		
8,216.6	8,147.0	7,423.0	7,247.8	33.1	27.7	-154.98	-243.0	394.4	1,312.1	1,269.9	42.23	31.070		
8,250.0	8,180.4	7,423.0	7,247.8	33.3	27.7	111.95	-243.0	394.4	1,335.5	1,293.8	41.65	32.062		
8,300.0	8,230.1	7,423.0	7,247.8	33.4	27.7	106.84	-243.0	394.4	1,372.2	1,331.4	40.84	33.598		
8,350.0	8,279.2	7,423.0	7,247.8	33.6	27.7	101.04	-243.0	394.4	1,410.6	1,370.5	40.10	35.177		
8,400.0	8,327.3	7,423.0	7,247.8	33.9	27.7	94.63	-243.0	394.4	1,450.1	1,410.7	39.43	36.778		
8,450.0	8,374.0	7,423.0	7,247.8	34.1	27.7	87.77	-243.0	394.4	1,490.5	1,451.7	38.84	38.378		
8,500.0	8,419.0	7,423.0	7,247.8	34.4	27.7	80.72	-243.0	394.4	1,531.4	1,493.1	38.33	39.956		
8,550.0	8,461.9	7,423.0	7,247.8	34.7	27.7	73.74	-243.0	394.4	1,572.4	1,534.5	37.90	41.489		
8,600.0	8,502.4	7,423.0	7,247.8	35.1	27.7	67.08	-243.0	394.4	1,613.2	1,575.7	37.56	42.957		
8,650.0	8,540.2	7,423.0	7,247.8	35.4	27.7	60.93	-243.0	394.4	1,653.6	1,616.3	37.30	44.337		
8,700.0	8,575.0	7,423.0	7,247.8	35.8	27.7	55.41	-243.0	394.4	1,693.2	1,656.1	37.12	45.612		
8,750.0	8,606.6	7,423.0	7,247.8	36.2	27.7	50.54	-243.0	394.4	1,731.9	1,694.9	37.04	46.764		
8,800.0	8,634.7	7,423.0	7,247.8	36.7	27.7	46.30	-243.0	394.4	1,769.4	1,732.4	37.03	47.779		
8,850.0	8,659.0	7,423.0	7,247.8	37.2	27.7	42.65	-243.0	394.4	1,805.5	1,768.4	37.11	48.647		
8,900.0	8,679.5	7,423.0	7,247.8	37.7	27.7	39.51	-243.0	394.4	1,840.0	1,802.7	37.28	49.359		
8,950.0	8,695.9	7,423.0	7,247.8	38.2	27.7	36.83	-243.0	394.4	1,872.8	1,835.3	37.52	49.912		
9,000.0	8,708.1	7,389.8	7,229.1	38.8	27.7	33.82	-235.9	420.9	1,903.1	1,865.8	37.21	51.142		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	7,373.3	7,219.7	39.4	27.7	31.66	-232.4	433.9	1,931.2	1,893.9	37.30	51.779		
9,100.0	8,719.7	7,355.7	7,209.4	40.0	27.6	29.83	-228.7	447.7	1,956.7	1,919.3	37.43	52.271		
9,116.6	8,720.0	7,349.7	7,205.9	40.2	27.6	29.29	-227.4	452.5	1,964.6	1,927.2	37.49	52.407		
9,200.0	8,720.0	7,329.0	7,193.6	41.3	27.6	28.97	-223.2	468.5	2,004.5	1,966.5	38.00	52.747		
9,300.0	8,720.0	7,297.8	7,174.5	42.7	27.6	28.50	-216.9	492.4	2,054.8	2,016.3	38.53	53.330		
9,400.0	8,720.2	7,274.1	7,159.5	44.2	27.6	28.15	-212.5	510.2	2,107.8	2,068.6	39.21	53.756		
9,500.0	8,720.3	7,234.0	7,133.1	45.7	27.6	27.56	-205.4	539.5	2,163.7	2,124.1	39.61	54.629		
9,600.0	8,720.6	7,234.0	7,133.1	47.4	27.6	27.57	-205.4	539.5	2,221.5	2,180.8	40.70	54.586		
9,700.0	8,720.8	7,234.0	7,133.1	49.1	27.6	27.58	-205.4	539.5	2,282.3	2,240.5	41.75	54.665		
9,800.0	8,721.2	7,234.0	7,133.1	50.9	27.6	27.59	-205.4	539.5	2,345.7	2,303.0	42.76	54.860		
9,900.0	8,721.5	7,234.0	7,133.1	52.7	27.6	27.60	-205.4	539.5	2,411.7	2,368.0	43.72	55.165		
10,000.0	8,722.0	7,188.8	7,100.9	54.6	27.6	26.94	-198.3	570.5	2,477.3	2,433.3	43.95	56.365		
10,100.0	8,722.4	7,179.4	7,093.8	56.5	27.6	26.82	-197.0	576.5	2,546.5	2,501.8	44.70	56.967		
10,200.0	8,723.0	7,139.0	7,061.9	58.4	27.6	26.24	-191.8	600.7	2,618.8	2,573.8	44.97	58.230		
10,300.0	8,723.5	7,139.0	7,061.9	60.4	27.6	26.25	-191.8	600.7	2,690.8	2,645.0	45.79	58.765		
10,400.0	8,724.2	7,139.0	7,061.9	62.5	27.6	26.26	-191.8	600.7	2,764.6	2,718.1	46.56	59.380		
10,500.0	8,724.9	7,139.0	7,061.9	64.5	27.6	26.28	-191.8	600.7	2,840.1	2,792.8	47.28	60.068		
10,600.0	8,725.6	7,139.0	7,061.9	66.6	27.6	26.29	-191.8	600.7	2,917.0	2,869.1	47.96	60.821		
10,700.0	8,726.4	7,139.0	7,061.9	68.7	27.6	26.31	-191.8	600.7	2,995.4	2,946.8	48.60	61.634		
10,800.0	8,727.2	7,139.0	7,061.9	70.9	27.6	26.33	-191.8	600.7	3,075.0	3,025.8	49.20	62.501		
10,900.0	8,728.1	7,139.0	7,061.9	73.0	27.6	26.35	-191.8	600.7	3,155.8	3,106.0	49.76	63.417		
11,000.0	8,729.0	7,139.0	7,061.9	75.2	27.6	26.36	-191.8	600.7	3,237.7	3,187.4	50.29	64.377		
11,100.0	8,730.0	7,098.4	7,027.9	77.4	27.5	25.80	-187.6	622.5	3,318.9	3,268.5	50.38	65.882		
11,200.0	8,731.1	7,091.3	7,021.8	79.6	27.5	25.72	-187.0	626.0	3,402.1	3,351.3	50.79	66.982		
11,300.0	8,732.2	7,084.5	7,016.0	81.8	27.5	25.64	-186.4	629.3	3,486.2	3,435.0	51.19	68.106		
11,400.0	8,733.3	7,045.0	6,980.9	84.0	27.5	25.12	-183.5	647.5	3,572.1	3,520.8	51.26	69.683		
11,500.0	8,734.5	7,045.0	6,980.9	86.2	27.5	25.14	-183.5	647.5	3,657.2	3,605.5	51.69	70.756		
11,600.0	8,735.8	7,045.0	6,980.9	88.5	27.5	25.16	-183.5	647.5	3,743.1	3,691.0	52.09	71.858		
11,700.0	8,737.1	7,045.0	6,980.9	90.8	27.5	25.18	-183.5	647.5	3,829.7	3,777.2	52.47	72.986		
11,800.0	8,738.4	7,045.0	6,980.9	93.0	27.5	25.21	-183.5	647.5	3,916.9	3,864.1	52.83	74.138		
11,900.0	8,739.8	7,045.0	6,980.9	95.3	27.5	25.23	-183.5	647.5	4,004.8	3,951.6	53.18	75.312		
12,000.0	8,741.3	7,045.0	6,980.9	97.6	27.5	25.25	-183.5	647.5	4,093.2	4,039.7	53.50	76.505		
12,100.0	8,742.8	7,045.0	6,980.9	99.9	27.5	25.28	-183.5	647.5	4,182.2	4,128.4	53.81	77.716		
12,200.0	8,744.3	7,045.0	6,980.9	102.2	27.5	25.30	-183.5	647.5	4,271.7	4,217.6	54.11	78.945		
12,300.0	8,745.9	7,045.0	6,980.9	104.5	27.5	25.33	-183.5	647.5	4,361.7	4,307.3	54.39	80.188		
12,400.0	8,747.6	7,045.0	6,980.9	106.8	27.5	25.35	-183.5	647.5	4,452.1	4,397.5	54.66	81.445		
12,500.0	8,749.3	7,045.0	6,980.9	109.1	27.5	25.38	-183.5	647.5	4,543.0	4,488.0	54.92	82.715		
12,600.0	8,751.1	7,045.0	6,980.9	111.5	27.5	25.41	-183.5	647.5	4,634.2	4,579.0	55.17	83.997		
12,700.0	8,752.9	7,045.0	6,980.9	113.8	27.5	25.44	-183.5	647.5	4,725.8	4,670.4	55.41	85.289		
12,800.0	8,754.7	7,045.0	6,980.9	116.1	27.5	25.47	-183.5	647.5	4,817.8	4,762.1	55.64	86.591		
12,900.0	8,756.6	7,045.0	6,980.9	118.5	27.5	25.50	-183.5	647.5	4,910.1	4,854.2	55.86	87.902		
13,000.0	8,758.6	7,001.0	6,940.6	120.8	27.5	24.93	-180.8	664.8	5,000.8	4,945.0	55.81	89.609		
13,100.0	8,760.6	6,997.5	6,937.3	123.2	27.4	24.91	-180.6	666.0	5,093.4	5,037.4	56.00	90.957		
13,200.0	8,762.7	6,994.1	6,934.2	125.5	27.4	24.89	-180.4	667.2	5,186.3	5,130.1	56.18	92.311		
13,300.0	8,764.8	6,950.0	6,892.3	127.9	27.4	24.32	-177.5	680.9	5,281.0	5,224.9	56.13	94.088		
13,400.0	8,767.0	6,950.0	6,892.3	130.3	27.4	24.36	-177.5	680.9	5,374.1	5,317.8	56.33	95.412		
13,500.0	8,769.2	6,950.0	6,892.3	132.6	27.4	24.39	-177.5	680.9	5,467.5	5,411.0	56.52	96.741		
13,600.0	8,771.5	6,950.0	6,892.3	135.0	27.4	24.42	-177.5	680.9	5,561.2	5,504.5	56.70	98.076		
13,700.0	8,773.8	6,950.0	6,892.3	137.4	27.4	24.45	-177.5	680.9	5,655.1	5,598.2	56.88	99.415		
13,800.0	8,776.2	6,950.0	6,892.3	139.7	27.4	24.48	-177.5	680.9	5,749.2	5,692.1	57.06	100.759		
13,900.0	8,778.6	6,950.0	6,892.3	142.1	27.4	24.52	-177.5	680.9	5,843.5	5,786.2	57.23	102.107		
14,000.0	8,781.1	6,950.0	6,892.3	144.5	27.4	24.55	-177.5	680.9	5,938.0	5,880.6	57.40	103.457		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	8,783.6	6,950.0	6,892.3	146.9	27.4	24.59	-177.5	680.9	6,032.7	5,975.1	57.56	104.811		
14,200.0	8,786.2	6,950.0	6,892.3	149.2	27.4	24.63	-177.5	680.9	6,127.6	6,069.8	57.72	106.167		
14,300.0	8,788.8	6,950.0	6,892.3	151.6	27.4	24.66	-177.5	680.9	6,222.6	6,164.7	57.87	107.525		
14,400.0	8,791.5	6,950.0	6,892.3	154.0	27.4	24.70	-177.5	680.9	6,317.8	6,259.8	58.02	108.884		
14,500.0	8,794.2	6,950.0	6,892.3	156.4	27.4	24.74	-177.5	680.9	6,413.2	6,355.1	58.17	110.246		
14,600.0	8,797.0	6,950.0	6,892.3	158.8	27.4	24.78	-177.5	680.9	6,508.8	6,450.4	58.32	111.608		
14,614.8	8,797.4	6,950.0	6,892.3	159.1	27.4	24.79	-177.5	680.9	6,522.9	6,464.5	58.34	111.809		
14,700.0	8,799.8	6,950.0	6,892.3	161.2	27.4	24.79	-177.5	680.9	6,604.4	6,546.0	58.46	112.971		
14,800.0	8,802.7	6,950.0	6,892.3	163.6	27.4	24.79	-177.5	680.9	6,700.3	6,641.6	58.60	114.334		
14,900.0	8,805.5	6,950.0	6,892.3	166.0	27.4	24.79	-177.5	680.9	6,796.2	6,737.4	58.74	115.697		
15,000.0	8,808.3	6,950.0	6,892.3	168.4	27.4	24.79	-177.5	680.9	6,892.2	6,833.3	58.88	117.059		
15,100.0	8,811.1	6,950.0	6,892.3	170.8	27.4	24.79	-177.5	680.9	6,988.4	6,929.4	59.01	118.421		
15,200.0	8,813.9	6,950.0	6,892.3	173.2	27.4	24.79	-177.5	680.9	7,084.6	7,025.5	59.15	119.782		
15,300.0	8,816.8	6,950.0	6,892.3	175.6	27.4	24.79	-177.5	680.9	7,181.0	7,121.7	59.28	121.142		
15,400.0	8,819.6	6,950.0	6,892.3	178.0	27.4	24.79	-177.5	680.9	7,277.4	7,218.0	59.41	122.501		
15,500.0	8,822.4	6,950.0	6,892.3	180.4	27.4	24.79	-177.5	680.9	7,374.0	7,314.5	59.54	123.859		
15,600.0	8,825.2	6,950.0	6,892.3	182.8	27.4	24.79	-177.5	680.9	7,470.6	7,411.0	59.66	125.215		
15,700.0	8,828.0	6,950.0	6,892.3	185.2	27.4	24.79	-177.5	680.9	7,567.4	7,507.6	59.79	126.569		
15,800.0	8,830.8	6,950.0	6,892.3	187.6	27.4	24.79	-177.5	680.9	7,664.2	7,604.3	59.91	127.922		
15,900.0	8,833.7	6,950.0	6,892.3	190.0	27.4	24.79	-177.5	680.9	7,761.1	7,701.1	60.04	129.273		
16,000.0	8,836.5	6,950.0	6,892.3	192.4	27.4	24.79	-177.5	680.9	7,858.1	7,797.9	60.16	130.621		
16,100.0	8,839.3	6,950.0	6,892.3	194.8	27.4	24.79	-177.5	680.9	7,955.1	7,894.8	60.28	131.968		
16,200.0	8,842.1	6,950.0	6,892.3	197.2	27.4	24.79	-177.5	680.9	8,052.2	7,991.8	60.40	133.312		
16,300.0	8,844.9	6,950.0	6,892.3	199.6	27.4	24.79	-177.5	680.9	8,149.4	8,088.9	60.52	134.653		
16,400.0	8,847.8	6,950.0	6,892.3	202.0	27.4	24.79	-177.5	680.9	8,246.7	8,186.0	60.64	135.992		
16,500.0	8,850.6	6,950.0	6,892.3	204.4	27.4	24.79	-177.5	680.9	8,344.0	8,283.2	60.76	137.329		
16,600.0	8,853.4	6,950.0	6,892.3	206.8	27.4	24.79	-177.5	680.9	8,441.4	8,380.5	60.88	138.663		
16,700.0	8,856.2	6,950.0	6,892.3	209.3	27.4	24.79	-177.5	680.9	8,538.8	8,477.8	60.99	139.993		
16,800.0	8,859.0	6,950.0	6,892.3	211.7	27.4	24.79	-177.5	680.9	8,636.3	8,575.2	61.11	141.321		
16,900.0	8,861.8	6,950.0	6,892.3	214.1	27.4	24.79	-177.5	680.9	8,733.9	8,672.7	61.23	142.646		
17,000.0	8,864.7	6,950.0	6,892.3	216.5	27.4	24.79	-177.5	680.9	8,831.5	8,770.2	61.34	143.968		
17,100.0	8,867.5	6,950.0	6,892.3	218.9	27.4	24.79	-177.5	680.9	8,929.2	8,867.7	61.46	145.286		
17,200.0	8,870.3	6,950.0	6,892.3	221.3	27.4	24.79	-177.5	680.9	9,026.9	8,965.3	61.57	146.601		
17,300.0	8,873.1	6,950.0	6,892.3	223.8	27.4	24.79	-177.5	680.9	9,124.7	9,063.0	61.69	147.913		
17,400.0	8,875.9	6,950.0	6,892.3	226.2	27.4	24.79	-177.5	680.9	9,222.5	9,160.7	61.80	149.222		
17,500.0	8,878.8	6,950.0	6,892.3	228.6	27.4	24.79	-177.5	680.9	9,320.4	9,258.4	61.92	150.526		
17,600.0	8,881.6	6,950.0	6,892.3	231.0	27.4	24.79	-177.5	680.9	9,418.3	9,356.2	62.03	151.828		
17,700.0	8,884.4	6,950.0	6,892.3	233.4	27.4	24.79	-177.5	680.9	9,516.2	9,454.1	62.15	153.125		
17,800.0	8,887.2	6,950.0	6,892.3	235.9	27.4	24.79	-177.5	680.9	9,614.2	9,551.9	62.26	154.419		
17,900.0	8,890.0	6,950.0	6,892.3	238.3	27.4	24.79	-177.5	680.9	9,712.2	9,649.9	62.37	155.710		
18,000.0	8,892.8	6,950.0	6,892.3	240.7	27.4	24.79	-177.5	680.9	9,810.3	9,747.8	62.49	156.996		
18,100.0	8,895.7	6,950.0	6,892.3	243.1	27.4	24.79	-177.5	680.9	9,908.4	9,845.8	62.60	158.278		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design George - George #114H - Wellbore #3 - Altitude Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-12.15	139.5	-30.0	142.7					
100.0	100.0	101.2	101.2	0.1	0.1	-12.24	139.4	-30.2	142.6	142.4	0.26	552.596		
200.0	200.0	201.4	201.4	0.5	0.5	-12.52	139.0	-30.9	142.4	141.4	0.98	145.460		
300.0	300.0	303.0	302.9	0.8	0.9	-12.87	138.1	-31.6	141.7	140.0	1.70	83.213		
400.0	400.0	403.4	403.4	1.2	1.2	-13.66	136.1	-33.1	140.1	137.7	2.42	57.850		
500.0	500.0	505.3	505.1	1.6	1.6	-15.09	133.0	-35.9	137.8	134.7	3.15	43.726		
600.0	599.9	606.4	606.2	1.9	2.0	-70.95	128.2	-38.9	132.5	128.7	3.88	34.167		
660.0	659.5	665.8	665.4	2.2	2.2	-75.17	125.1	-40.6	128.2	123.9	4.31	29.713		
700.0	699.1	703.9	703.5	2.3	2.3	-78.22	123.3	-41.5	125.6	121.0	4.60	27.299		
800.0	798.1	803.4	802.9	2.7	2.7	-85.05	121.1	-41.5	121.6	116.2	5.33	22.800		
900.0	897.1	908.6	907.9	3.1	3.0	-90.86	117.7	-35.7	115.2	109.1	6.08	18.952		
1,000.0	996.2	1,009.9	1,008.5	3.5	3.4	-96.16	112.5	-26.0	105.8	99.0	6.81	15.530		
1,100.0	1,095.2	1,110.4	1,108.4	3.9	3.7	-103.01	105.9	-16.2	96.4	88.9	7.55	12.770		
1,200.0	1,194.2	1,212.4	1,209.3	4.3	4.1	-111.43	97.7	-4.2	86.1	77.8	8.28	10.398		
1,300.0	1,293.3	1,311.7	1,307.2	4.7	4.5	-119.75	90.8	11.3	74.9	65.9	9.00	8.317		
1,400.0	1,392.3	1,409.9	1,404.0	5.1	4.9	-130.38	84.1	26.6	65.8	56.1	9.73	6.764		
1,500.0	1,491.3	1,508.4	1,501.2	5.5	5.3	-142.73	78.5	41.3	60.4	49.9	10.46	5.775		
1,600.0	1,590.3	1,607.4	1,599.0	5.9	5.7	-155.57	74.0	55.7	58.3	47.1	11.20	5.206		
1,611.8	1,602.0	1,619.0	1,610.4	6.0	5.7	-157.08	73.5	57.4	58.3	47.0	11.28	5.163 CC, ES		
1,700.0	1,689.4	1,705.9	1,696.5	6.3	6.1	-167.95	69.9	69.4	59.8	47.8	11.96	4.999 SF		
1,800.0	1,788.4	1,804.4	1,794.1	6.7	6.5	-178.34	66.1	81.8	64.9	52.1	12.74	5.092		
1,900.0	1,887.4	1,903.1	1,892.2	7.1	6.9	173.96	62.5	92.6	72.7	59.2	13.53	5.378		
2,000.0	1,986.4	2,002.4	1,990.7	7.6	7.3	167.12	58.1	104.1	81.9	67.5	14.33	5.714		
2,100.0	2,085.5	2,101.4	2,088.7	8.0	7.7	160.69	52.8	116.9	92.0	76.9	15.15	6.076		
2,200.0	2,184.5	2,200.4	2,186.7	8.4	8.1	155.51	47.3	129.8	103.1	87.2	15.97	6.458		
2,300.0	2,283.5	2,300.6	2,284.7	8.8	8.5	151.35	41.9	142.7	114.9	98.1	16.79	6.843		
2,400.0	2,382.5	2,398.4	2,382.7	9.2	8.9	147.98	36.5	155.6	127.2	109.6	17.61	7.223		
2,500.0	2,481.6	2,502.6	2,480.7	9.6	9.3	145.21	31.0	168.5	139.8	121.4	18.45	7.580		
2,600.0	2,580.6	2,596.4	2,578.7	10.1	9.7	142.90	25.6	181.4	152.7	133.5	19.24	7.937		
2,700.0	2,679.6	2,695.4	2,676.7	10.5	10.2	140.95	20.2	194.3	165.8	145.7	20.05	8.269		
2,800.0	2,778.7	2,805.6	2,774.7	10.9	10.6	139.29	14.7	207.2	179.1	158.1	20.91	8.563		
2,900.0	2,877.7	2,906.6	2,872.7	11.3	11.0	137.85	9.3	220.1	192.4	170.7	21.73	8.856		
3,000.0	2,976.7	3,007.6	2,970.7	11.7	11.5	136.61	3.8	233.0	205.9	183.4	22.55	9.132		
3,100.0	3,075.7	3,108.6	3,068.7	12.1	11.9	135.51	-1.6	245.9	219.5	196.1	23.37	9.393		
3,200.0	3,174.8	3,209.6	3,166.7	12.6	12.3	134.55	-7.0	258.7	233.2	209.0	24.19	9.639		
3,300.0	3,273.8	3,289.4	3,264.7	13.0	12.6	133.69	-12.5	271.6	246.9	221.9	24.92	9.907		
3,400.0	3,372.8	3,388.3	3,362.7	13.4	13.1	132.92	-17.9	284.5	260.6	234.9	25.73	10.129		
3,500.0	3,471.8	3,487.3	3,460.7	13.8	13.5	132.23	-23.3	297.4	274.4	247.9	26.54	10.339		
3,600.0	3,570.9	3,586.3	3,558.7	14.2	13.9	131.60	-28.8	310.3	288.2	260.9	27.35	10.539		
3,700.0	3,669.9	3,685.3	3,656.7	14.7	14.3	131.04	-34.2	323.2	302.1	273.9	28.16	10.728		
3,800.0	3,768.9	3,784.3	3,754.7	15.1	14.7	130.52	-39.6	336.1	316.0	287.0	28.97	10.907		
3,900.0	3,867.9	3,883.3	3,852.7	15.5	15.2	130.04	-45.1	349.0	329.9	300.1	29.78	11.078		
4,000.0	3,967.0	3,982.3	3,950.7	15.9	15.6	129.61	-50.5	361.9	343.8	313.2	30.59	11.239		
4,100.0	4,066.0	4,081.3	4,048.7	16.3	16.0	129.21	-55.9	374.8	357.8	326.4	31.40	11.394		
4,200.0	4,165.0	4,180.3	4,146.7	16.7	16.4	128.83	-61.4	387.7	371.7	339.5	32.21	11.541		
4,300.0	4,264.1	4,279.3	4,244.7	17.2	16.8	128.49	-66.8	400.6	385.7	352.7	33.02	11.681		
4,400.0	4,363.1	4,378.3	4,342.7	17.6	17.2	128.17	-72.3	413.4	399.7	365.9	33.83	11.815		
4,500.0	4,462.1	4,477.3	4,440.7	18.0	17.7	127.87	-77.7	426.3	413.7	379.1	34.64	11.942		
4,600.0	4,561.1	4,576.3	4,538.7	18.4	18.1	127.59	-83.1	439.2	427.7	392.3	35.45	12.065		
4,700.0	4,660.2	4,675.2	4,636.7	18.8	18.5	127.33	-88.6	452.1	441.8	405.5	36.26	12.182		
4,800.0	4,759.2	4,774.2	4,734.7	19.2	18.9	127.08	-94.0	465.0	455.8	418.7	37.07	12.294		
4,900.0	4,858.2	4,873.2	4,832.7	19.7	19.3	126.85	-99.4	477.9	469.8	431.9	37.88	12.401		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,972.2	4,930.7	20.1	19.8	126.63	-104.9	490.8	483.9	445.2	38.70	12.505		
5,100.0	5,056.3	5,071.2	5,028.7	20.5	20.2	126.43	-110.3	503.7	497.9	458.4	39.51	12.604		
5,200.0	5,155.3	5,170.2	5,126.7	20.9	20.6	126.23	-115.7	516.6	512.0	471.7	40.32	12.699		
5,300.0	5,254.3	5,269.2	5,224.7	21.3	21.0	126.05	-121.2	529.5	526.0	484.9	41.13	12.791		
5,400.0	5,353.4	5,368.2	5,322.7	21.8	21.4	125.88	-126.6	542.4	540.1	498.2	41.94	12.879		
5,500.0	5,452.4	5,467.2	5,420.7	22.2	21.9	125.71	-132.1	555.3	554.2	511.4	42.75	12.964		
5,600.0	5,551.4	5,566.2	5,518.7	22.6	22.3	125.55	-137.5	568.1	568.3	524.7	43.56	13.046		
5,700.0	5,650.4	5,665.2	5,616.7	23.0	22.7	125.40	-142.9	581.0	582.3	538.0	44.37	13.125		
5,800.0	5,749.5	5,764.2	5,714.7	23.4	23.1	125.26	-148.4	593.9	596.4	551.3	45.18	13.201		
5,900.0	5,848.5	5,863.2	5,812.7	23.9	23.5	125.13	-153.8	606.8	610.5	564.5	45.99	13.274		
6,000.0	5,947.5	5,962.1	5,910.7	24.3	24.0	125.00	-159.2	619.7	624.6	577.8	46.80	13.346		
6,100.0	6,046.5	6,061.1	6,008.7	24.7	24.4	124.87	-164.7	632.6	638.7	591.1	47.61	13.414		
6,200.0	6,145.6	6,160.1	6,106.7	25.1	24.8	124.75	-170.1	645.5	652.8	604.4	48.43	13.481		
6,300.0	6,244.6	6,259.1	6,204.7	25.5	25.2	124.64	-175.5	658.4	666.9	617.7	49.24	13.545		
6,400.0	6,343.6	6,358.1	6,302.7	25.9	25.6	124.53	-181.0	671.3	681.0	631.0	50.05	13.607		
6,500.0	6,442.6	6,457.1	6,400.7	26.4	26.1	124.43	-186.4	684.2	695.1	644.3	50.86	13.668		
6,600.0	6,541.7	6,565.7	6,508.4	26.8	26.5	124.42	-191.9	697.1	708.7	656.9	51.74	13.697		
6,700.0	6,640.7	6,677.1	6,619.3	27.2	26.9	124.71	-195.8	706.4	720.6	668.0	52.61	13.698		
6,800.0	6,739.7	6,788.4	6,730.5	27.6	27.3	125.30	-198.1	711.8	730.9	677.5	53.43	13.680		
6,900.0	6,838.8	6,895.2	6,837.2	28.0	27.7	126.15	-198.7	713.1	739.7	685.5	54.17	13.654		
7,000.0	6,937.8	6,974.7	6,916.3	28.5	27.9	127.37	-200.0	706.0	749.7	695.0	54.72	13.701		
7,100.0	7,036.8	7,050.0	6,989.7	28.9	28.0	129.24	-203.2	689.5	763.0	707.9	55.11	13.845		
7,200.0	7,135.8	7,114.4	7,050.2	29.3	28.1	131.33	-207.3	667.9	780.8	725.5	55.27	14.127		
7,300.0	7,234.9	7,172.7	7,102.6	29.7	28.1	133.55	-212.1	642.8	803.9	748.7	55.16	14.573		
7,400.0	7,333.9	7,223.6	7,145.9	30.1	28.2	135.71	-217.1	616.7	833.1	778.4	54.75	15.216		
7,500.0	7,432.9	7,267.5	7,181.3	30.5	28.2	137.71	-222.0	591.1	868.8	814.8	54.04	16.078		
7,583.1	7,515.2	7,300.0	7,206.2	30.9	28.2	139.25	-225.9	570.6	903.4	850.1	53.24	16.967		
7,600.0	7,531.9	7,300.0	7,206.2	31.0	28.2	139.33	-225.9	570.6	911.0	858.0	52.96	17.200		
7,700.0	7,631.2	7,339.2	7,234.5	31.4	28.2	141.72	-230.9	544.0	958.1	906.2	51.84	18.480		
7,800.0	7,730.7	7,369.3	7,255.0	31.8	28.2	143.69	-235.1	522.3	1,009.3	958.8	50.47	19.997		
7,900.0	7,830.5	7,400.0	7,274.7	32.1	28.2	145.69	-239.5	499.2	1,064.1	1,015.0	49.04	21.696		
8,000.0	7,930.4	7,423.8	7,289.0	32.5	28.2	147.36	-243.0	480.6	1,122.1	1,074.6	47.47	23.636		
8,100.0	8,030.4	7,450.0	7,303.9	32.8	28.2	149.12	-247.1	459.4	1,182.9	1,136.9	45.95	25.742		
8,116.4	8,046.8	7,450.0	7,303.9	32.8	28.2	-158.71	-247.1	459.4	1,193.1	1,147.5	45.63	26.149		
8,200.0	8,130.4	7,465.0	7,311.9	33.1	28.3	-158.06	-249.5	447.0	1,246.7	1,202.4	44.27	28.158		
8,216.6	8,147.0	7,468.2	7,313.6	33.1	28.3	-157.92	-250.0	444.3	1,257.7	1,213.6	44.02	28.571		
8,250.0	8,180.4	7,474.2	7,316.8	33.3	28.3	109.42	-250.9	439.2	1,280.3	1,236.7	43.51	29.425		
8,300.0	8,230.1	7,481.7	7,320.6	33.4	28.3	105.00	-252.1	432.9	1,315.7	1,272.9	42.77	30.763		
8,350.0	8,279.2	7,500.0	7,329.5	33.6	28.3	100.67	-255.1	417.2	1,352.9	1,310.6	42.28	31.998		
8,400.0	8,327.3	7,500.0	7,329.5	33.9	28.3	94.82	-255.1	417.2	1,391.0	1,349.5	41.55	33.482		
8,450.0	8,374.0	7,500.0	7,329.5	34.1	28.3	88.54	-255.1	417.2	1,430.1	1,389.3	40.89	34.975		
8,500.0	8,419.0	7,500.0	7,329.5	34.4	28.3	82.03	-255.1	417.2	1,469.9	1,429.5	40.32	36.458		
8,550.0	8,461.9	7,500.0	7,329.5	34.7	28.3	75.51	-255.1	417.2	1,509.8	1,470.0	39.83	37.907		
8,600.0	8,502.4	7,500.0	7,329.5	35.1	28.3	69.21	-255.1	417.2	1,549.7	1,510.3	39.43	39.303		
8,650.0	8,540.2	7,500.0	7,329.5	35.4	28.3	63.29	-255.1	417.2	1,589.3	1,550.2	39.12	40.624		
8,700.0	8,575.0	7,500.0	7,329.5	35.8	28.3	57.88	-255.1	417.2	1,628.3	1,589.4	38.90	41.854		
8,750.0	8,606.6	7,481.2	7,320.3	36.2	28.3	52.23	-252.1	433.4	1,666.0	1,627.5	38.44	43.335		
8,800.0	8,634.7	7,475.4	7,317.4	36.7	28.3	47.85	-251.1	438.2	1,702.7	1,664.4	38.30	44.452		
8,850.0	8,659.0	7,468.9	7,314.0	37.2	28.3	44.03	-250.1	443.7	1,738.1	1,699.8	38.24	45.451		
8,900.0	8,679.5	7,450.0	7,303.9	37.7	28.2	40.41	-247.1	459.4	1,772.0	1,733.9	38.04	46.582		
8,950.0	8,695.9	7,450.0	7,303.9	38.2	28.2	37.81	-247.1	459.4	1,803.8	1,765.5	38.27	47.138		
9,000.0	8,708.1	7,450.0	7,303.9	38.8	28.2	35.58	-247.1	459.4	1,833.7	1,795.1	38.58	47.536		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design George - George #114H - Wellbore #3 - Altitude Plan #2													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	7,436.5	7,296.4	39.4	28.2	33.42	-245.0	470.4	1,861.5	1,822.8	38.72	48.076		
9,100.0	8,719.7	7,423.8	7,289.0	40.0	28.2	31.62	-243.0	480.6	1,887.0	1,848.0	38.95	48.444		
9,116.6	8,720.0	7,423.8	7,289.0	40.2	28.2	31.15	-243.0	480.6	1,894.9	1,855.8	39.12	48.440		
9,200.0	8,720.0	7,400.0	7,274.7	41.3	28.2	30.80	-239.5	499.2	1,935.3	1,895.7	39.58	48.893		
9,300.0	8,720.0	7,400.0	7,274.7	42.7	28.2	30.81	-239.5	499.2	1,986.5	1,945.9	40.67	48.843		
9,400.0	8,720.2	7,372.5	7,257.1	44.2	28.2	30.40	-235.5	520.0	2,040.6	1,999.4	41.27	49.447		
9,500.0	8,720.3	7,350.0	7,242.0	45.7	28.2	30.06	-232.4	536.4	2,097.7	2,055.7	41.95	50.001		
9,600.0	8,720.6	7,350.0	7,242.0	47.4	28.2	30.07	-232.4	536.4	2,157.4	2,114.4	43.01	50.166		
9,700.0	8,720.8	7,325.7	7,225.0	49.1	28.2	29.70	-229.2	553.4	2,219.4	2,175.8	43.62	50.885		
9,800.0	8,721.2	7,300.0	7,206.2	50.9	28.2	29.31	-225.9	570.6	2,284.0	2,239.8	44.18	51.692		
9,900.0	8,721.5	7,300.0	7,206.2	52.7	28.2	29.32	-225.9	570.6	2,350.4	2,305.2	45.13	52.079		
10,000.0	8,722.0	7,300.0	7,206.2	54.6	28.2	29.34	-225.9	570.6	2,419.1	2,373.1	46.03	52.559		
10,100.0	8,722.4	7,273.7	7,186.1	56.5	28.2	28.93	-222.7	587.4	2,489.3	2,442.8	46.49	53.546		
10,200.0	8,723.0	7,250.0	7,167.4	58.4	28.2	28.58	-220.0	601.6	2,561.5	2,514.6	46.96	54.542		
10,300.0	8,723.5	7,250.0	7,167.4	60.4	28.2	28.59	-220.0	601.6	2,635.1	2,587.3	47.74	55.198		
10,400.0	8,724.2	7,250.0	7,167.4	62.5	28.2	28.61	-220.0	601.6	2,710.3	2,661.9	48.47	55.922		
10,500.0	8,724.9	7,250.0	7,167.4	64.5	28.2	28.62	-220.0	601.6	2,787.2	2,738.0	49.15	56.710		
10,600.0	8,725.6	7,222.0	7,144.6	66.6	28.2	28.20	-216.9	617.5	2,864.7	2,815.2	49.45	57.937		
10,700.0	8,726.4	7,200.0	7,126.1	68.7	28.2	27.87	-214.7	629.2	2,943.9	2,894.1	49.80	59.118		
10,800.0	8,727.2	7,200.0	7,126.1	70.9	28.2	27.89	-214.7	629.2	3,023.9	2,973.6	50.38	60.019		
10,900.0	8,728.1	7,200.0	7,126.1	73.0	28.2	27.91	-214.7	629.2	3,105.1	3,054.2	50.93	60.966		
11,000.0	8,729.0	7,200.0	7,126.1	75.2	28.2	27.93	-214.7	629.2	3,187.4	3,136.0	51.45	61.954		
11,100.0	8,730.0	7,200.0	7,126.1	77.4	28.2	27.95	-214.7	629.2	3,270.7	3,218.8	51.93	62.979		
11,200.0	8,731.1	7,174.5	7,104.1	79.6	28.1	27.57	-212.3	641.9	3,354.3	3,302.2	52.13	64.339		
11,300.0	8,732.2	7,150.0	7,082.5	81.8	28.1	27.22	-210.1	653.2	3,439.4	3,387.0	52.34	65.718		
11,400.0	8,733.3	7,150.0	7,082.5	84.0	28.1	27.24	-210.1	653.2	3,524.6	3,471.9	52.76	66.808		
11,500.0	8,734.5	7,150.0	7,082.5	86.2	28.1	27.26	-210.1	653.2	3,610.7	3,557.5	53.16	67.925		
11,600.0	8,735.8	7,149.5	7,082.0	88.5	28.1	27.28	-210.1	653.4	3,697.4	3,643.9	53.53	69.074		
11,700.0	8,737.1	7,149.5	7,082.0	90.8	28.1	27.30	-210.1	653.4	3,784.9	3,731.0	53.89	70.239		
11,800.0	8,738.4	7,149.5	7,082.0	93.0	28.1	27.33	-210.1	653.4	3,873.0	3,818.7	54.22	71.425		
11,900.0	8,739.8	7,149.5	7,082.0	95.3	28.1	27.35	-210.1	653.4	3,961.6	3,907.1	54.54	72.630		
12,000.0	8,741.3	7,128.1	7,062.7	97.6	28.1	27.05	-208.4	662.5	4,050.4	3,995.7	54.68	74.073		
12,100.0	8,742.8	7,123.3	7,058.4	99.9	28.1	27.00	-208.0	664.4	4,139.9	4,084.9	54.94	75.353		
12,200.0	8,744.3	7,100.0	7,036.9	102.2	28.1	26.68	-206.3	673.3	4,230.1	4,175.1	55.05	76.846		
12,300.0	8,745.9	7,100.0	7,036.9	104.5	28.1	26.71	-206.3	673.3	4,320.4	4,265.0	55.32	78.096		
12,400.0	8,747.6	7,100.0	7,036.9	106.8	28.1	26.73	-206.3	673.3	4,411.0	4,355.4	55.58	79.358		
12,500.0	8,749.3	7,100.0	7,036.9	109.1	28.1	26.76	-206.3	673.3	4,502.1	4,446.3	55.83	80.633		
12,600.0	8,751.1	7,100.0	7,036.9	111.5	28.1	26.79	-206.3	673.3	4,593.6	4,537.5	56.08	81.918		
12,700.0	8,752.9	7,100.0	7,036.9	113.8	28.1	26.82	-206.3	673.3	4,685.4	4,629.1	56.31	83.213		
12,800.0	8,754.7	7,100.0	7,036.9	116.1	28.1	26.85	-206.3	673.3	4,777.6	4,721.0	56.53	84.517		
12,900.0	8,756.6	7,100.0	7,036.9	118.5	28.1	26.89	-206.3	673.3	4,870.1	4,813.3	56.74	85.830		
13,000.0	8,758.6	7,100.0	7,036.9	120.8	28.1	26.92	-206.3	673.3	4,962.9	4,905.9	56.95	87.150		
13,100.0	8,760.6	7,100.0	7,036.9	123.2	28.1	26.95	-206.3	673.3	5,056.0	4,998.8	57.15	88.476		
13,200.0	8,762.7	7,100.0	7,036.9	125.5	28.1	26.99	-206.3	673.3	5,149.4	5,092.0	57.34	89.809		
13,300.0	8,764.8	7,100.0	7,036.9	127.9	28.1	27.02	-206.3	673.3	5,243.0	5,185.5	57.52	91.147		
13,400.0	8,767.0	7,075.0	7,013.4	130.3	28.0	26.68	-204.6	681.9	5,336.3	5,278.7	57.56	92.709		
13,500.0	8,769.2	7,050.0	6,989.7	132.6	28.0	26.34	-203.2	689.5	5,430.7	5,373.1	57.60	94.289		
13,600.0	8,771.5	7,050.0	6,989.7	135.0	28.0	26.38	-203.2	689.5	5,524.8	5,467.0	57.77	95.632		
13,700.0	8,773.8	7,050.0	6,989.7	137.4	28.0	26.42	-203.2	689.5	5,619.1	5,561.1	57.94	96.978		
13,800.0	8,776.2	7,050.0	6,989.7	139.7	28.0	26.45	-203.2	689.5	5,713.6	5,655.5	58.11	98.328		
13,900.0	8,778.6	7,050.0	6,989.7	142.1	28.0	26.49	-203.2	689.5	5,808.3	5,750.0	58.27	99.681		
14,000.0	8,781.1	7,050.0	6,989.7	144.5	28.0	26.53	-203.2	689.5	5,903.2	5,844.7	58.43	101.037		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	8,783.6	7,050.0	6,989.7	146.9	28.0	26.57	-203.2	689.5	5,998.2	5,939.6	58.58	102.395		
14,200.0	8,786.2	7,050.0	6,989.7	149.2	28.0	26.61	-203.2	689.5	6,093.5	6,034.7	58.73	103.755		
14,300.0	8,788.8	7,050.0	6,989.7	151.6	28.0	26.65	-203.2	689.5	6,188.9	6,130.0	58.88	105.116		
14,400.0	8,791.5	7,050.0	6,989.7	154.0	28.0	26.69	-203.2	689.5	6,284.4	6,225.4	59.02	106.479		
14,500.0	8,794.2	7,050.0	6,989.7	156.4	28.0	26.74	-203.2	689.5	6,380.1	6,321.0	59.16	107.842		
14,600.0	8,797.0	7,050.0	6,989.7	158.8	28.0	26.78	-203.2	689.5	6,476.0	6,416.7	59.30	109.207		
14,614.8	8,797.4	7,050.0	6,989.7	159.1	28.0	26.79	-203.2	689.5	6,490.1	6,430.8	59.32	109.408		
14,700.0	8,799.8	7,050.0	6,989.7	161.2	28.0	26.79	-203.2	689.5	6,572.0	6,512.5	59.44	110.571		
14,800.0	8,802.7	7,050.0	6,989.7	163.6	28.0	26.79	-203.2	689.5	6,668.1	6,608.5	59.57	111.936		
14,900.0	8,805.5	7,050.0	6,989.7	166.0	28.0	26.79	-203.2	689.5	6,764.3	6,704.6	59.70	113.299		
15,000.0	8,808.3	7,050.0	6,989.7	168.4	28.0	26.79	-203.2	689.5	6,860.6	6,800.8	59.83	114.662		
15,100.0	8,811.1	7,050.0	6,989.7	170.8	28.0	26.79	-203.2	689.5	6,957.0	6,897.1	59.96	116.024		
15,200.0	8,813.9	7,050.0	6,989.7	173.2	28.0	26.79	-203.2	689.5	7,053.6	6,993.5	60.09	117.385		
15,300.0	8,816.8	7,050.0	6,989.7	175.6	28.0	26.79	-203.2	689.5	7,150.2	7,090.0	60.21	118.745		
15,400.0	8,819.6	7,050.0	6,989.7	178.0	28.0	26.79	-203.2	689.5	7,246.9	7,186.6	60.34	120.104		
15,500.0	8,822.4	7,050.0	6,989.7	180.4	28.0	26.79	-203.2	689.5	7,343.7	7,283.2	60.46	121.460		
15,600.0	8,825.2	7,050.0	6,989.7	182.8	28.0	26.79	-203.2	689.5	7,440.6	7,380.0	60.58	122.816		
15,700.0	8,828.0	7,026.4	6,966.9	185.2	28.0	26.44	-202.0	695.7	7,537.0	7,476.4	60.61	124.357		
15,800.0	8,830.8	7,024.9	6,965.5	187.6	28.0	26.41	-202.0	696.0	7,634.0	7,573.3	60.72	125.719		
15,900.0	8,833.7	7,023.4	6,964.0	190.0	28.0	26.39	-201.9	696.4	7,731.1	7,670.2	60.84	127.078		
16,000.0	8,836.5	7,000.0	6,941.2	192.4	27.9	26.05	-200.9	701.5	7,828.6	7,767.8	60.87	128.623		
16,100.0	8,839.3	7,000.0	6,941.2	194.8	27.9	26.05	-200.9	701.5	7,925.8	7,864.8	60.98	129.964		
16,200.0	8,842.1	7,000.0	6,941.2	197.2	27.9	26.05	-200.9	701.5	8,023.0	7,961.9	61.10	131.303		
16,300.0	8,844.9	7,000.0	6,941.2	199.6	27.9	26.05	-200.9	701.5	8,120.2	8,059.0	61.22	132.640		
16,400.0	8,847.8	7,000.0	6,941.2	202.0	27.9	26.05	-200.9	701.5	8,217.6	8,156.2	61.34	133.973		
16,500.0	8,850.6	7,000.0	6,941.2	204.4	27.9	26.05	-200.9	701.5	8,315.0	8,253.5	61.45	135.305		
16,600.0	8,853.4	7,000.0	6,941.2	206.8	27.9	26.05	-200.9	701.5	8,412.4	8,350.9	61.57	136.633		
16,700.0	8,856.2	7,000.0	6,941.2	209.3	27.9	26.05	-200.9	701.5	8,509.9	8,448.3	61.68	137.959		
16,800.0	8,859.0	7,000.0	6,941.2	211.7	27.9	26.05	-200.9	701.5	8,607.5	8,545.7	61.80	139.282		
16,900.0	8,861.8	7,000.0	6,941.2	214.1	27.9	26.05	-200.9	701.5	8,705.1	8,643.2	61.91	140.601		
17,000.0	8,864.7	7,000.0	6,941.2	216.5	27.9	26.05	-200.9	701.5	8,802.8	8,740.8	62.03	141.918		
17,100.0	8,867.5	7,000.0	6,941.2	218.9	27.9	26.05	-200.9	701.5	8,900.6	8,838.4	62.14	143.231		
17,200.0	8,870.3	7,000.0	6,941.2	221.3	27.9	26.05	-200.9	701.5	8,998.4	8,936.1	62.25	144.541		
17,300.0	8,873.1	7,000.0	6,941.2	223.8	27.9	26.05	-200.9	701.5	9,096.2	9,033.8	62.37	145.848		
17,400.0	8,875.9	7,000.0	6,941.2	226.2	27.9	26.05	-200.9	701.5	9,194.1	9,131.6	62.48	147.151		
17,500.0	8,878.8	7,000.0	6,941.2	228.6	27.9	26.05	-200.9	701.5	9,292.0	9,229.4	62.59	148.451		
17,600.0	8,881.6	7,000.0	6,941.2	231.0	27.9	26.05	-200.9	701.5	9,390.0	9,327.3	62.71	149.747		
17,700.0	8,884.4	7,000.0	6,941.2	233.4	27.9	26.05	-200.9	701.5	9,488.0	9,425.2	62.82	151.040		
17,800.0	8,887.2	7,000.0	6,941.2	235.9	27.9	26.05	-200.9	701.5	9,586.0	9,523.1	62.93	152.329		
17,900.0	8,890.0	7,000.0	6,941.2	238.3	27.9	26.05	-200.9	701.5	9,684.1	9,621.1	63.04	153.614		
18,000.0	8,892.8	7,000.0	6,941.2	240.7	27.9	26.05	-200.9	701.5	9,782.2	9,719.1	63.15	154.896		
18,100.0	8,895.7	7,000.0	6,941.2	243.1	27.9	26.05	-200.9	701.5	9,880.4	9,817.2	63.27	156.173		
18,200.0	8,898.5	7,000.0	6,941.2	245.5	27.9	26.05	-200.9	701.5	9,978.6	9,915.2	63.38	157.447		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design George - George #114H - Wellbore #3 - Altitude Plan #3 (ST)													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	0.0	0.0	-12.15	139.5	-30.0	142.7					
100.0	100.0	101.2	101.2	0.1	0.1	-12.24	139.4	-30.2	142.6	142.4	0.26	546.600		
200.0	200.0	201.4	201.4	0.5	0.5	-12.52	139.0	-30.9	142.4	141.4	0.98	145.482		
300.0	300.0	303.0	302.9	0.8	0.9	-12.88	138.2	-31.6	141.7	140.0	1.70	83.224		
400.0	400.0	403.4	403.4	1.2	1.2	-13.66	136.1	-33.1	140.1	137.7	2.42	57.859		
500.0	500.0	505.3	505.1	1.6	1.6	-15.10	133.0	-35.9	137.8	134.7	3.15	43.733		
600.0	599.9	606.4	606.2	1.9	2.0	-70.95	128.2	-38.9	132.6	128.7	3.88	34.172		
660.0	659.5	665.8	665.4	2.2	2.2	-75.17	125.1	-40.6	128.2	123.9	4.31	29.718		
700.0	699.1	703.9	703.5	2.3	2.3	-78.22	123.3	-41.5	125.6	121.0	4.60	27.303		
800.0	798.1	803.4	802.9	2.7	2.7	-85.05	121.1	-41.5	121.6	116.2	5.33	22.802		
900.0	897.1	908.6	907.9	3.1	3.0	-90.86	117.7	-35.7	115.2	109.1	6.08	18.956		
1,000.0	996.2	1,009.9	1,008.5	3.5	3.4	-96.16	112.5	-26.0	105.8	99.0	6.81	15.533		
1,100.0	1,095.2	1,110.4	1,108.4	3.9	3.7	-102.99	105.9	-16.2	96.4	88.9	7.55	12.773		
1,200.0	1,194.2	1,212.4	1,209.3	4.3	4.1	-111.38	97.7	-4.2	86.1	77.8	8.28	10.398		
1,300.0	1,293.3	1,311.7	1,307.2	4.7	4.5	-119.68	90.9	11.3	74.9	65.9	9.00	8.316		
1,400.0	1,392.3	1,409.9	1,404.0	5.1	4.9	-130.31	84.2	26.6	65.8	56.1	9.73	6.762		
1,500.0	1,491.3	1,507.8	1,500.6	5.5	5.3	-143.75	77.3	40.7	60.9	50.4	10.47	5.818		
1,600.0	1,590.3	1,607.4	1,599.0	5.9	5.7	-157.47	71.7	54.8	59.7	48.5	11.20	5.332		
1,600.9	1,591.2	1,608.3	1,599.9	5.9	5.7	-157.58	71.7	54.9	59.7	48.5	11.21	5.329 CC, ES		
1,700.0	1,689.4	1,706.0	1,696.5	6.3	6.1	-169.47	67.7	68.5	61.6	49.7	11.97	5.148 SF		
1,800.0	1,788.4	1,804.4	1,794.1	6.7	6.5	-179.43	63.8	80.8	67.0	54.2	12.75	5.253		
1,900.0	1,887.4	1,903.3	1,892.3	7.1	6.9	173.16	60.2	91.7	75.0	61.4	13.54	5.539		
2,000.0	1,986.4	2,002.6	1,990.6	7.6	7.3	165.40	55.0	104.8	83.9	69.5	14.35	5.843		
2,100.0	2,085.5	2,100.3	2,087.0	8.0	7.7	157.99	48.0	119.0	95.0	79.8	15.18	6.257		
2,200.0	2,184.5	2,198.5	2,184.0	8.4	8.1	152.33	40.4	132.7	108.1	92.1	16.01	6.752		
2,300.0	2,283.5	2,296.5	2,280.8	8.8	8.5	148.07	32.6	145.9	122.4	105.6	16.82	7.275		
2,400.0	2,382.5	2,395.1	2,378.1	9.2	9.0	144.68	24.3	159.1	137.7	120.1	17.64	7.805		
2,500.0	2,481.6	2,494.8	2,476.6	9.6	9.4	141.90	16.5	172.7	152.7	134.3	18.47	8.268		
2,600.0	2,580.6	2,594.1	2,574.7	10.1	9.8	139.81	9.3	185.9	167.6	148.3	19.29	8.687		
2,700.0	2,679.6	2,693.8	2,673.4	10.5	10.2	138.34	2.6	198.3	182.2	162.1	20.11	9.061		
2,800.0	2,778.7	2,793.3	2,772.0	10.9	10.6	137.38	-3.4	209.9	196.4	175.5	20.91	9.393		
2,900.0	2,877.7	2,893.2	2,871.1	11.3	11.1	136.35	-9.2	222.2	210.4	188.7	21.73	9.684		
3,000.0	2,976.7	2,993.7	2,970.2	11.7	11.5	134.65	-14.9	237.7	223.9	201.3	22.57	9.920		
3,100.0	3,075.7	3,093.2	3,068.3	12.1	11.9	133.08	-20.0	253.4	236.9	213.6	23.40	10.127		
3,200.0	3,174.8	3,193.1	3,166.9	12.6	12.4	131.77	-24.9	268.7	250.0	225.7	24.23	10.317		
3,300.0	3,273.8	3,292.7	3,265.3	13.0	12.8	130.73	-29.4	283.5	262.8	237.7	25.05	10.489		
3,400.0	3,372.8	3,392.3	3,363.8	13.4	13.2	129.93	-33.7	297.6	275.5	249.6	25.88	10.646		
3,500.0	3,471.8	3,492.0	3,462.5	13.8	13.6	129.35	-37.8	310.9	288.0	261.3	26.69	10.791		
3,600.0	3,570.9	3,593.0	3,562.7	14.2	14.0	129.01	-41.5	323.5	300.2	272.7	27.51	10.911		
3,700.0	3,669.9	3,693.3	3,662.3	14.7	14.4	128.90	-44.7	334.8	311.9	283.5	28.31	11.014		
3,800.0	3,768.9	3,791.0	3,759.4	15.1	14.8	128.91	-47.6	345.2	323.4	294.3	29.09	11.116		
3,900.0	3,867.9	3,883.0	3,850.7	15.5	15.2	128.78	-52.1	355.9	336.7	306.9	29.83	11.289		
4,000.0	3,967.0	3,982.8	3,949.5	15.9	15.6	128.53	-57.7	368.1	350.9	320.3	30.64	11.452		
4,100.0	4,066.0	4,083.7	4,049.6	16.3	16.0	128.37	-62.9	380.0	364.6	333.1	31.46	11.588		
4,200.0	4,165.0	4,183.9	4,149.0	16.7	16.5	128.37	-67.8	390.8	378.0	345.7	32.26	11.715		
4,300.0	4,264.1	4,281.9	4,246.4	17.2	16.8	128.45	-72.2	400.9	391.0	358.0	33.04	11.834		
4,400.0	4,363.1	4,376.5	4,340.1	17.6	17.2	128.24	-77.5	412.6	405.1	371.3	33.81	11.984		
4,500.0	4,462.1	4,474.3	4,436.9	18.0	17.7	127.88	-83.7	425.8	420.0	385.4	34.61	12.134		
4,600.0	4,561.1	4,573.5	4,535.0	18.4	18.1	127.51	-89.9	439.4	434.7	399.3	35.43	12.271		
4,700.0	4,660.2	4,672.6	4,632.9	18.8	18.5	127.19	-96.1	452.8	449.5	413.3	36.24	12.403		
4,800.0	4,759.2	4,771.8	4,731.1	19.2	18.9	126.94	-102.2	465.9	464.2	427.1	37.06	12.527		
4,900.0	4,858.2	4,871.7	4,830.0	19.7	19.4	126.78	-108.3	478.3	478.8	440.9	37.87	12.643		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design George - George #114H - Wellbore #3 - Altitude Plan #3 (ST)													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,974.5	4,931.9	20.1	19.8	126.65	-114.1	491.0	493.0	454.3	38.71	12.734		
5,100.0	5,056.3	5,076.5	5,032.8	20.5	20.2	126.37	-119.0	504.8	506.4	466.8	39.55	12.802		
5,200.0	5,155.3	5,181.7	5,137.0	20.9	20.7	126.17	-123.2	518.5	519.0	478.5	40.41	12.842		
5,300.0	5,254.3	5,286.0	5,240.4	21.3	21.1	126.00	-126.1	531.9	530.4	489.1	41.26	12.855		
5,400.0	5,353.4	5,378.6	5,332.1	21.8	21.5	125.77	-129.0	544.5	542.1	500.1	42.02	12.900		
5,500.0	5,452.4	5,477.7	5,430.1	22.2	21.9	125.46	-132.6	558.8	554.4	511.6	42.84	12.940		
5,600.0	5,551.4	5,577.2	5,528.5	22.6	22.3	125.14	-136.2	573.3	566.7	523.0	43.67	12.977		
5,700.0	5,650.4	5,676.9	5,627.1	23.0	22.8	124.87	-139.9	587.5	579.0	534.5	44.49	13.014		
5,800.0	5,749.5	5,778.7	5,727.9	23.4	23.2	124.66	-143.2	601.4	591.0	545.6	45.33	13.038		
5,900.0	5,848.5	5,878.8	5,827.1	23.9	23.6	124.53	-146.3	614.4	602.7	556.5	46.15	13.061		
6,000.0	5,947.5	5,975.3	5,922.8	24.3	24.0	124.43	-149.3	626.7	614.4	567.5	46.93	13.092		
6,100.0	6,046.5	6,073.3	6,019.9	24.7	24.4	124.35	-153.1	639.1	626.9	579.2	47.73	13.134		
6,200.0	6,145.6	6,175.8	6,121.6	25.1	24.8	124.37	-156.6	650.9	638.8	590.3	48.56	13.156		
6,300.0	6,244.6	6,276.3	6,221.6	25.5	25.2	124.44	-159.9	661.8	650.6	601.2	49.36	13.180		
6,400.0	6,343.6	6,377.0	6,321.7	25.9	25.6	124.61	-162.9	671.6	662.1	612.0	50.16	13.200		
6,500.0	6,442.6	6,477.8	6,422.1	26.4	26.0	124.94	-165.9	679.5	673.4	622.5	50.95	13.219		
6,600.0	6,541.7	6,581.9	6,526.0	26.8	26.4	125.37	-168.6	686.4	684.4	632.6	51.74	13.227		
6,700.0	6,640.7	6,682.3	6,626.2	27.2	26.7	125.88	-170.7	691.7	694.8	642.3	52.50	13.234		
6,800.0	6,739.7	6,785.2	6,729.0	27.6	27.1	126.51	-172.6	695.7	705.0	651.8	53.26	13.236		
6,900.0	6,838.8	6,876.8	6,820.5	28.0	27.4	127.46	-174.2	694.2	715.2	661.3	53.91	13.267		
7,000.0	6,937.8	6,943.8	6,886.3	28.5	27.5	128.96	-177.1	686.6	728.7	674.4	54.26	13.430		
7,100.0	7,036.8	7,024.1	6,962.0	28.9	27.6	131.65	-182.2	656.1	746.4	691.8	54.52	13.690		
7,200.0	7,135.8	7,081.1	7,013.0	29.3	27.7	133.96	-186.1	631.0	768.6	714.2	54.39	14.133		
7,300.0	7,234.9	7,125.9	7,051.2	29.7	27.7	135.95	-190.4	608.0	797.9	744.1	53.87	14.813		
7,400.0	7,333.9	7,163.1	7,081.3	30.1	27.7	137.69	-194.8	586.6	834.5	781.5	52.99	15.749		
7,500.0	7,432.9	7,194.1	7,104.8	30.5	27.7	139.22	-199.1	567.0	878.2	826.4	51.80	16.955		
7,583.1	7,515.2	7,216.4	7,120.9	30.9	27.7	140.36	-202.5	552.0	919.7	869.1	50.64	18.162		
7,600.0	7,531.9	7,225.0	7,126.9	31.0	27.8	140.90	-203.9	545.9	928.7	878.3	50.47	18.401		
7,700.0	7,631.2	7,250.0	7,143.7	31.4	27.8	142.78	-208.1	527.9	984.1	935.1	48.96	20.100		
7,800.0	7,730.7	7,279.0	7,162.6	31.8	27.8	144.83	-213.4	506.6	1,042.8	995.3	47.50	21.955		
7,900.0	7,830.5	7,308.3	7,181.0	32.1	27.8	146.84	-219.0	484.4	1,104.3	1,058.2	46.06	23.973		
8,000.0	7,930.4	7,338.6	7,199.3	32.5	27.8	148.83	-225.2	461.0	1,168.1	1,123.4	44.70	26.134		
8,100.0	8,030.4	7,374.8	7,220.5	32.8	27.8	150.97	-232.7	432.7	1,233.5	1,190.0	43.50	28.354		
8,116.4	8,046.8	7,380.7	7,223.9	32.8	27.8	-156.63	-233.9	428.1	1,244.3	1,201.0	43.31	28.732		
8,200.0	8,130.4	7,409.6	7,240.4	33.1	27.8	-155.50	-240.1	405.1	1,300.6	1,258.3	42.35	30.709		
8,216.6	8,147.0	7,415.2	7,243.5	33.1	27.8	-155.28	-241.3	400.6	1,312.1	1,269.9	42.17	31.114		
8,250.0	8,180.4	7,423.0	7,247.8	33.3	27.8	111.95	-243.0	394.4	1,335.5	1,293.7	41.75	31.990		
8,300.0	8,230.1	7,433.4	7,253.5	33.4	27.8	107.35	-245.3	386.0	1,372.1	1,331.0	41.14	33.351		
8,350.0	8,279.2	7,440.2	7,257.2	33.6	27.8	101.98	-246.8	380.5	1,410.3	1,369.7	40.53	34.796		
8,400.0	8,327.3	7,450.0	7,262.3	33.9	27.8	96.25	-249.0	372.4	1,449.7	1,409.6	40.05	36.196		
8,450.0	8,374.0	7,450.0	7,262.3	34.1	27.8	89.49	-249.0	372.4	1,489.9	1,450.4	39.45	37.762		
8,500.0	8,419.0	7,450.0	7,262.3	34.4	27.8	82.47	-249.0	372.4	1,530.7	1,491.7	38.94	39.309		
8,550.0	8,461.9	7,450.0	7,262.3	34.7	27.8	75.45	-249.0	372.4	1,571.6	1,533.1	38.51	40.813		
8,600.0	8,502.4	7,450.0	7,262.3	35.1	27.8	68.70	-249.0	372.4	1,612.5	1,574.4	38.16	42.255		
8,650.0	8,540.2	7,450.0	7,262.3	35.4	27.8	62.42	-249.0	372.4	1,653.0	1,615.1	37.90	43.615		
8,700.0	8,575.0	7,450.0	7,262.3	35.8	27.8	56.75	-249.0	372.4	1,692.8	1,655.1	37.73	44.872		
8,750.0	8,606.6	7,439.9	7,257.0	36.2	27.8	51.28	-246.7	380.7	1,731.6	1,694.2	37.44	46.250		
8,800.0	8,634.7	7,434.4	7,254.0	36.7	27.8	46.74	-245.5	385.2	1,769.3	1,731.9	37.33	47.394		
8,850.0	8,659.0	7,423.0	7,247.8	37.2	27.8	42.65	-243.0	394.4	1,805.5	1,768.3	37.19	48.544		
8,900.0	8,679.5	7,423.0	7,247.8	37.7	27.8	39.51	-243.0	394.4	1,840.0	1,802.7	37.36	49.254		
8,950.0	8,695.9	7,405.0	7,237.8	38.2	27.8	36.38	-239.1	408.8	1,872.6	1,835.3	37.26	50.261		
9,000.0	8,708.1	7,400.0	7,234.9	38.8	27.8	34.04	-238.1	412.8	1,903.1	1,865.6	37.48	50.770		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design George - George #114H - Wellbore #3 - Altitude Plan #3 (ST)													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	7,373.3	7,219.7	39.4	27.8	31.66	-232.4	433.9	1,931.2	1,893.8	37.38	51.668		
9,100.0	8,719.7	7,355.7	7,209.4	40.0	27.8	29.83	-228.7	447.7	1,956.7	1,919.2	37.51	52.159		
9,116.6	8,720.0	7,349.7	7,205.9	40.2	27.8	29.29	-227.4	452.5	1,964.6	1,927.1	37.57	52.293		
9,200.0	8,720.0	7,329.0	7,193.6	41.3	27.8	28.97	-223.2	468.5	2,004.5	1,966.4	38.09	52.631		
9,300.0	8,720.0	7,300.0	7,175.9	42.7	27.8	28.54	-217.4	490.7	2,054.8	2,016.2	38.66	53.156		
9,400.0	8,720.2	7,274.1	7,159.5	44.2	27.8	28.15	-212.5	510.2	2,107.8	2,068.5	39.30	53.635		
9,500.0	8,720.3	7,250.0	7,143.7	45.7	27.8	27.80	-208.1	527.9	2,163.5	2,123.5	39.98	54.115		
9,600.0	8,720.6	7,234.0	7,133.1	47.4	27.8	27.57	-205.4	539.5	2,221.5	2,180.7	40.79	54.460		
9,700.0	8,720.8	7,225.0	7,126.9	49.1	27.8	27.45	-203.9	545.9	2,282.0	2,240.3	41.70	54.727		
9,800.0	8,721.2	7,200.0	7,109.2	50.9	27.7	27.09	-200.0	563.1	2,345.0	2,302.7	42.31	55.423		
9,900.0	8,721.5	7,200.0	7,109.2	52.7	27.7	27.10	-200.0	563.1	2,410.1	2,366.8	43.30	55.664		
10,000.0	8,722.0	7,188.8	7,100.9	54.6	27.7	26.94	-198.3	570.5	2,477.3	2,433.2	44.06	56.225		
10,100.0	8,722.4	7,175.0	7,090.5	56.5	27.7	26.75	-196.4	579.3	2,546.5	2,501.7	44.75	56.907		
10,200.0	8,723.0	7,175.0	7,090.5	58.4	27.7	26.76	-196.4	579.3	2,617.5	2,571.9	45.60	57.404		
10,300.0	8,723.5	7,161.9	7,080.3	60.4	27.7	26.59	-194.6	587.3	2,690.1	2,643.9	46.22	58.206		
10,400.0	8,724.2	7,150.0	7,070.8	62.5	27.7	26.42	-193.1	594.4	2,764.4	2,717.5	46.82	59.044		
10,500.0	8,724.9	7,150.0	7,070.8	64.5	27.7	26.44	-193.1	594.4	2,840.0	2,792.5	47.54	59.742		
10,600.0	8,725.6	7,139.0	7,061.9	66.6	27.7	26.29	-191.8	600.7	2,917.0	2,868.9	48.08	60.671		
10,700.0	8,726.4	7,139.0	7,061.9	68.7	27.7	26.31	-191.8	600.7	2,995.4	2,946.6	48.72	61.481		
10,800.0	8,727.2	7,121.5	7,047.4	70.9	27.7	26.07	-189.9	610.4	3,074.7	3,025.5	49.12	62.594		
10,900.0	8,728.1	7,100.0	7,029.3	73.0	27.7	25.78	-187.8	621.6	3,155.3	3,105.8	49.46	63.798		
11,000.0	8,729.0	7,100.0	7,029.3	75.2	27.7	25.80	-187.8	621.6	3,236.6	3,186.6	50.01	64.724		
11,100.0	8,730.0	7,100.0	7,029.3	77.4	27.7	25.82	-187.8	621.6	3,318.9	3,268.4	50.52	65.693		
11,200.0	8,731.1	7,100.0	7,029.3	79.6	27.7	25.84	-187.8	621.6	3,402.2	3,351.2	51.01	66.700		
11,300.0	8,732.2	7,100.0	7,029.3	81.8	27.7	25.86	-187.8	621.6	3,486.4	3,435.0	51.47	67.742		
11,400.0	8,733.3	7,078.0	7,010.3	84.0	27.7	25.57	-185.9	632.5	3,571.0	3,519.3	51.70	69.077		
11,500.0	8,734.5	7,071.8	7,004.8	86.2	27.7	25.51	-185.4	635.4	3,656.5	3,604.4	52.06	70.241		
11,600.0	8,735.8	7,050.0	6,985.4	88.5	27.7	25.23	-183.8	645.3	3,742.9	3,690.6	52.26	71.616		
11,700.0	8,737.1	7,050.0	6,985.4	90.8	27.7	25.25	-183.8	645.3	3,829.6	3,776.9	52.64	72.743		
11,800.0	8,738.4	7,050.0	6,985.4	93.0	27.7	25.27	-183.8	645.3	3,916.9	3,863.9	53.01	73.895		
11,900.0	8,739.8	7,050.0	6,985.4	95.3	27.7	25.30	-183.8	645.3	4,004.8	3,951.4	53.35	75.067		
12,000.0	8,741.3	7,045.0	6,980.9	97.6	27.7	25.25	-183.5	647.5	4,093.2	4,039.6	53.64	76.313		
12,100.0	8,742.8	7,045.0	6,980.9	99.9	27.7	25.28	-183.5	647.5	4,182.2	4,128.3	53.95	77.521		
12,200.0	8,744.3	7,045.0	6,980.9	102.2	27.7	25.30	-183.5	647.5	4,271.7	4,217.5	54.25	78.746		
12,300.0	8,745.9	7,045.0	6,980.9	104.5	27.7	25.33	-183.5	647.5	4,361.7	4,307.2	54.53	79.987		
12,400.0	8,747.6	7,024.8	6,962.6	106.8	27.6	25.08	-182.3	655.8	4,451.7	4,397.1	54.66	81.440		
12,500.0	8,749.3	7,020.5	6,958.6	109.1	27.6	25.05	-182.0	657.5	4,542.4	4,487.5	54.90	82.744		
12,600.0	8,751.1	7,000.0	6,939.7	111.5	27.6	24.80	-180.7	665.1	4,633.7	4,578.6	55.02	84.225		
12,700.0	8,752.9	7,000.0	6,939.7	113.8	27.6	24.83	-180.7	665.1	4,724.9	4,669.7	55.26	85.501		
12,800.0	8,754.7	7,000.0	6,939.7	116.1	27.6	24.85	-180.7	665.1	4,816.6	4,761.1	55.50	86.787		
12,900.0	8,756.6	7,000.0	6,939.7	118.5	27.6	24.88	-180.7	665.1	4,908.5	4,852.8	55.73	88.082		
13,000.0	8,758.6	7,000.0	6,939.7	120.8	27.6	24.91	-180.7	665.1	5,000.8	4,944.9	55.95	89.386		
13,100.0	8,760.6	7,000.0	6,939.7	123.2	27.6	24.94	-180.7	665.1	5,093.4	5,037.3	56.16	90.698		
13,200.0	8,762.7	7,000.0	6,939.7	125.5	27.6	24.97	-180.7	665.1	5,186.3	5,130.0	56.36	92.017		
13,300.0	8,764.8	7,000.0	6,939.7	127.9	27.6	25.01	-180.7	665.1	5,279.5	5,222.9	56.56	93.342		
13,400.0	8,767.0	7,000.0	6,939.7	130.3	27.6	25.04	-180.7	665.1	5,372.9	5,316.2	56.75	94.673		
13,500.0	8,769.2	7,000.0	6,939.7	132.6	27.6	25.07	-180.7	665.1	5,466.6	5,409.7	56.94	96.010		
13,600.0	8,771.5	7,000.0	6,939.7	135.0	27.6	25.10	-180.7	665.1	5,560.5	5,503.4	57.12	97.351		
13,700.0	8,773.8	7,000.0	6,939.7	137.4	27.6	25.14	-180.7	665.1	5,654.7	5,597.4	57.29	98.696		
13,800.0	8,776.2	6,976.1	6,917.2	139.7	27.6	24.84	-179.2	673.2	5,748.5	5,691.2	57.34	100.254		
13,900.0	8,778.6	6,973.5	6,914.7	142.1	27.6	24.84	-179.0	674.0	5,842.9	5,785.4	57.49	101.627		
14,000.0	8,781.1	6,950.0	6,892.3	144.5	27.5	24.55	-177.5	680.9	5,938.0	5,880.4	57.54	103.199		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design George - George #114H - Wellbore #3 - Altitude Plan #3 (ST)													Offset Site Error:	0.0 usft
Survey Program: 0-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	8,783.6	6,950.0	6,892.3	146.9	27.5	24.59	-177.5	680.9	6,032.7	5,975.0	57.70	104.549		
14,200.0	8,786.2	6,950.0	6,892.3	149.2	27.5	24.63	-177.5	680.9	6,127.6	6,069.7	57.86	105.902		
14,300.0	8,788.8	6,950.0	6,892.3	151.6	27.5	24.66	-177.5	680.9	6,222.6	6,164.6	58.02	107.257		
14,400.0	8,791.5	6,950.0	6,892.3	154.0	27.5	24.70	-177.5	680.9	6,317.8	6,259.7	58.17	108.613		
14,500.0	8,794.2	6,950.0	6,892.3	156.4	27.5	24.74	-177.5	680.9	6,413.2	6,354.9	58.32	109.971		
14,600.0	8,797.0	6,950.0	6,892.3	158.8	27.5	24.78	-177.5	680.9	6,508.8	6,450.3	58.46	111.330		
14,614.8	8,797.4	6,950.0	6,892.3	159.1	27.5	24.79	-177.5	680.9	6,522.9	6,464.4	58.49	111.531		
14,700.0	8,799.8	6,950.0	6,892.3	161.2	27.5	24.79	-177.5	680.9	6,604.4	6,545.8	58.61	112.690		
14,800.0	8,802.7	6,950.0	6,892.3	163.6	27.5	24.79	-177.5	680.9	6,700.3	6,641.5	58.75	114.049		
14,900.0	8,805.5	6,950.0	6,892.3	166.0	27.5	24.79	-177.5	680.9	6,796.2	6,737.3	58.89	115.409		
15,000.0	8,808.3	6,950.0	6,892.3	168.4	27.5	24.79	-177.5	680.9	6,892.2	6,833.2	59.02	116.768		
15,100.0	8,811.1	6,950.0	6,892.3	170.8	27.5	24.79	-177.5	680.9	6,988.4	6,929.2	59.16	118.127		
15,200.0	8,813.9	6,950.0	6,892.3	173.2	27.5	24.79	-177.5	680.9	7,084.6	7,025.3	59.29	119.485		
15,300.0	8,816.8	6,950.0	6,892.3	175.6	27.5	24.79	-177.5	680.9	7,181.0	7,121.6	59.42	120.842		
15,400.0	8,819.6	6,950.0	6,892.3	178.0	27.5	24.79	-177.5	680.9	7,277.4	7,217.9	59.55	122.197		
15,500.0	8,822.4	6,950.0	6,892.3	180.4	27.5	24.79	-177.5	680.9	7,374.0	7,314.3	59.68	123.552		
15,600.0	8,825.2	6,950.0	6,892.3	182.8	27.5	24.79	-177.5	680.9	7,470.6	7,410.8	59.81	124.905		
15,700.0	8,828.0	6,950.0	6,892.3	185.2	27.5	24.79	-177.5	680.9	7,567.4	7,507.4	59.94	126.256		
15,800.0	8,830.8	6,950.0	6,892.3	187.6	27.5	24.79	-177.5	680.9	7,664.2	7,604.1	60.06	127.605		
15,900.0	8,833.7	6,950.0	6,892.3	190.0	27.5	24.79	-177.5	680.9	7,761.1	7,700.9	60.19	128.953		
16,000.0	8,836.5	6,938.0	6,880.8	192.4	27.5	24.62	-176.8	684.0	7,857.9	7,797.6	60.26	130.398		
16,100.0	8,839.3	6,937.0	6,879.8	194.8	27.5	24.61	-176.7	684.3	7,954.9	7,894.5	60.38	131.749		
16,200.0	8,842.1	6,925.0	6,868.1	197.2	27.5	24.44	-176.1	687.0	8,052.1	7,991.7	60.45	133.194		
16,300.0	8,844.9	6,925.0	6,868.1	199.6	27.5	24.44	-176.1	687.0	8,149.3	8,088.7	60.58	134.531		
16,400.0	8,847.8	6,925.0	6,868.1	202.0	27.5	24.44	-176.1	687.0	8,246.5	8,185.8	60.70	135.865		
16,500.0	8,850.6	6,925.0	6,868.1	204.4	27.5	24.44	-176.1	687.0	8,343.7	8,282.9	60.82	137.197		
16,600.0	8,853.4	6,925.0	6,868.1	206.8	27.5	24.44	-176.1	687.0	8,441.0	8,380.1	60.93	138.526		
16,700.0	8,856.2	6,925.0	6,868.1	209.3	27.5	24.44	-176.1	687.0	8,538.4	8,477.4	61.05	139.853		
16,800.0	8,859.0	6,925.0	6,868.1	211.7	27.5	24.44	-176.1	687.0	8,635.9	8,574.7	61.17	141.177		
16,900.0	8,861.8	6,925.0	6,868.1	214.1	27.5	24.44	-176.1	687.0	8,733.4	8,672.1	61.29	142.497		
17,000.0	8,864.7	6,925.0	6,868.1	216.5	27.5	24.44	-176.1	687.0	8,830.9	8,769.5	61.40	143.815		
17,100.0	8,867.5	6,925.0	6,868.1	218.9	27.5	24.44	-176.1	687.0	8,928.6	8,867.0	61.52	145.129		
17,200.0	8,870.3	6,925.0	6,868.1	221.3	27.5	24.44	-176.1	687.0	9,026.2	8,964.6	61.64	146.440		
17,300.0	8,873.1	6,925.0	6,868.1	223.8	27.5	24.44	-176.1	687.0	9,123.9	9,062.2	61.75	147.748		
17,400.0	8,875.9	6,925.0	6,868.1	226.2	27.5	24.44	-176.1	687.0	9,221.7	9,159.8	61.87	149.053		
17,500.0	8,878.8	6,925.0	6,868.1	228.6	27.5	24.44	-176.1	687.0	9,319.5	9,257.5	61.98	150.354		
17,600.0	8,881.6	6,925.0	6,868.1	231.0	27.5	24.44	-176.1	687.0	9,417.4	9,355.3	62.10	151.651		
17,700.0	8,884.4	6,925.0	6,868.1	233.4	27.5	24.44	-176.1	687.0	9,515.3	9,453.1	62.21	152.945		
17,800.0	8,887.2	6,925.0	6,868.1	235.9	27.5	24.44	-176.1	687.0	9,613.2	9,550.9	62.33	154.236		
17,900.0	8,890.0	6,925.0	6,868.1	238.3	27.5	24.44	-176.1	687.0	9,711.2	9,648.8	62.44	155.522		
18,000.0	8,892.8	6,925.0	6,868.1	240.7	27.5	24.44	-176.1	687.0	9,809.2	9,746.7	62.56	156.805		
18,100.0	8,895.7	6,925.0	6,868.1	243.1	27.5	24.44	-176.1	687.0	9,907.3	9,844.6	62.67	158.084		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.0 usft
Survey Program: 197-MWD, 9318-MWD												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	1.0	1.0	0.0	0.0	-12.15	139.5	-30.0	142.7				
100.0	100.0	101.2	101.2	0.1	0.2	-12.24	139.4	-30.2	142.6	142.4	0.28	502.737	
200.0	200.0	201.5	201.5	0.5	0.3	-12.52	139.0	-30.9	142.4	141.6	0.80	178.892	
300.0	300.0	303.0	302.9	0.8	0.7	-12.88	138.2	-31.6	141.7	140.2	1.53	92.679	
400.0	400.0	403.4	403.4	1.2	1.0	-13.66	136.1	-33.1	140.1	137.9	2.25	62.323	
500.0	500.0	505.3	505.1	1.6	1.4	-15.10	133.0	-35.9	137.8	134.9	2.98	46.273	
600.0	599.9	606.4	606.2	1.9	1.8	-70.95	128.2	-38.9	132.6	128.9	3.71	35.761	
660.0	659.5	665.8	665.4	2.2	2.0	-75.17	125.1	-40.6	128.2	124.1	4.14	30.952	
700.0	699.1	703.9	703.5	2.3	2.1	-78.22	123.3	-41.5	125.6	121.2	4.43	28.373	
800.0	798.1	803.4	802.9	2.7	2.5	-85.05	121.1	-41.5	121.6	116.4	5.16	23.568	
900.0	897.1	908.6	907.9	3.1	2.9	-90.86	117.7	-35.7	115.2	109.3	5.91	19.493	
1,000.0	996.2	1,009.9	1,008.5	3.5	3.2	-96.16	112.5	-26.0	105.8	99.2	6.65	15.923	
1,100.0	1,095.2	1,110.4	1,108.4	3.9	3.6	-102.99	105.9	-16.2	96.4	89.1	7.39	13.055	
1,200.0	1,194.2	1,212.4	1,209.3	4.3	4.0	-111.38	97.7	-4.2	86.1	78.0	8.12	10.608	
1,300.0	1,293.3	1,311.7	1,307.2	4.7	4.3	-119.68	90.9	11.3	74.9	66.0	8.84	8.469	
1,400.0	1,392.3	1,409.9	1,404.0	5.1	4.7	-130.31	84.2	26.6	65.8	56.2	9.57	6.876	
1,500.0	1,491.3	1,507.8	1,500.6	5.5	5.1	-143.75	77.3	40.7	60.9	50.6	10.31	5.909	
1,600.0	1,590.3	1,607.6	1,599.2	5.9	5.5	-157.48	71.7	54.8	59.7	48.7	11.05	5.407	
1,600.9	1,591.2	1,608.5	1,600.1	5.9	5.5	-157.60	71.7	55.0	59.7	48.7	11.05	5.404 CC, ES	
1,700.0	1,689.4	1,706.0	1,696.5	6.3	5.9	-169.47	67.7	68.5	61.6	49.8	11.81	5.217 SF	
1,800.0	1,788.4	1,804.4	1,794.1	6.7	6.3	-179.43	63.8	80.8	67.0	54.4	12.60	5.318	
1,900.0	1,887.4	1,903.3	1,892.3	7.1	6.7	173.16	60.2	91.7	75.0	61.6	13.38	5.603	
2,000.0	1,986.4	2,002.6	1,990.6	7.6	7.1	165.40	55.0	104.8	83.9	69.7	14.20	5.906	
2,100.0	2,085.5	2,100.3	2,087.0	8.0	7.5	157.99	48.0	119.0	95.0	80.0	15.03	6.321	
2,200.0	2,184.5	2,198.5	2,184.0	8.4	8.0	152.33	40.4	132.7	108.1	92.2	15.86	6.816	
2,300.0	2,283.5	2,296.5	2,280.8	8.8	8.4	148.07	32.6	145.9	122.4	105.7	16.67	7.341	
2,400.0	2,382.5	2,395.1	2,378.1	9.2	8.8	144.68	24.3	159.1	137.7	120.2	17.49	7.872	
2,500.0	2,481.6	2,494.8	2,476.6	9.6	9.2	141.90	16.5	172.7	152.7	134.4	18.32	8.335	
2,600.0	2,580.6	2,594.1	2,574.7	10.1	9.7	139.81	9.3	185.9	167.6	148.5	19.14	8.755	
2,700.0	2,679.6	2,693.8	2,673.4	10.5	10.1	138.34	2.6	198.3	182.2	162.2	19.96	9.129	
2,800.0	2,778.7	2,793.3	2,772.0	10.9	10.5	137.38	-3.4	209.9	196.4	175.6	20.76	9.460	
2,900.0	2,877.7	2,893.2	2,871.1	11.3	10.9	136.35	-9.2	222.2	210.4	188.8	21.58	9.750	
3,000.0	2,976.7	2,993.7	2,970.2	11.7	11.4	134.65	-14.9	237.7	223.9	201.4	22.42	9.986	
3,100.0	3,075.7	3,093.2	3,068.3	12.1	11.8	133.08	-20.0	253.4	236.9	213.7	23.25	10.191	
3,200.0	3,174.8	3,193.1	3,166.9	12.6	12.2	131.77	-24.9	268.7	250.0	225.9	24.08	10.380	
3,300.0	3,273.8	3,292.7	3,265.3	13.0	12.6	130.73	-29.4	283.5	262.8	237.9	24.91	10.550	
3,400.0	3,372.8	3,392.3	3,363.8	13.4	13.1	129.93	-33.7	297.6	275.5	249.7	25.73	10.707	
3,500.0	3,471.8	3,492.0	3,462.5	13.8	13.5	129.35	-37.8	310.9	288.0	261.5	26.54	10.850	
3,600.0	3,570.9	3,593.0	3,562.7	14.2	13.9	129.01	-41.5	323.5	300.2	272.8	27.36	10.969	
3,700.0	3,669.9	3,693.3	3,662.3	14.7	14.3	128.90	-44.7	334.8	311.9	283.7	28.17	11.071	
3,800.0	3,768.9	3,791.0	3,759.4	15.1	14.7	128.91	-47.6	345.2	323.4	294.5	28.95	11.172	
3,900.0	3,867.9	3,883.0	3,850.7	15.5	15.1	128.78	-52.1	355.9	336.7	307.1	29.68	11.344	
4,000.0	3,967.0	3,982.8	3,949.5	15.9	15.5	128.53	-57.7	368.1	350.9	320.4	30.49	11.507	
4,100.0	4,066.0	4,083.7	4,049.6	16.3	15.9	128.37	-62.9	380.0	364.6	333.2	31.31	11.642	
4,200.0	4,165.0	4,183.9	4,149.0	16.7	16.3	128.37	-67.8	390.8	378.0	345.8	32.12	11.768	
4,300.0	4,264.1	4,281.9	4,246.4	17.2	16.7	128.45	-72.2	400.9	391.0	358.1	32.90	11.885	
4,400.0	4,363.1	4,376.5	4,340.1	17.6	17.1	128.24	-77.5	412.6	405.1	371.5	33.66	12.036	
4,500.0	4,462.1	4,474.3	4,436.9	18.0	17.5	127.88	-83.7	425.8	420.0	385.5	34.46	12.185	
4,600.0	4,561.1	4,573.5	4,535.0	18.4	18.0	127.51	-89.9	439.4	434.7	399.4	35.28	12.321	
4,700.0	4,660.2	4,672.6	4,632.9	18.8	18.4	127.19	-96.1	452.8	449.5	413.4	36.10	12.452	
4,800.0	4,759.2	4,771.8	4,731.1	19.2	18.8	126.94	-102.2	465.9	464.2	427.3	36.91	12.576	
4,900.0	4,858.2	4,871.7	4,830.0	19.7	19.2	126.78	-108.3	478.3	478.8	441.1	37.73	12.691	

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD, 9318-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,974.5	4,931.9	20.1	19.7	126.65	-114.1	491.0	493.0	454.4	38.57	12.781		
5,100.0	5,056.3	5,076.5	5,032.8	20.5	20.1	126.37	-119.0	504.8	506.4	466.9	39.41	12.849		
5,200.0	5,155.3	5,181.7	5,137.0	20.9	20.5	126.17	-123.2	518.5	519.0	478.7	40.27	12.888		
5,300.0	5,254.3	5,287.4	5,241.9	21.3	21.0	125.99	-126.1	532.1	530.3	489.2	41.12	12.896		
5,400.0	5,353.4	5,378.6	5,332.1	21.8	21.3	125.77	-129.0	544.5	542.1	500.2	41.88	12.944		
5,500.0	5,452.4	5,477.7	5,430.1	22.2	21.8	125.46	-132.6	558.8	554.4	511.7	42.70	12.984		
5,600.0	5,551.4	5,577.2	5,528.5	22.6	22.2	125.14	-136.2	573.3	566.7	523.2	43.52	13.020		
5,700.0	5,650.4	5,676.9	5,627.1	23.0	22.6	124.87	-139.9	587.5	579.0	534.7	44.35	13.056		
5,800.0	5,749.5	5,778.7	5,727.9	23.4	23.0	124.66	-143.2	601.4	591.0	545.8	45.18	13.079		
5,900.0	5,848.5	5,878.8	5,827.1	23.9	23.5	124.53	-146.3	614.4	602.7	556.7	46.00	13.101		
6,000.0	5,947.5	5,975.3	5,922.8	24.3	23.9	124.43	-149.3	626.7	614.4	567.6	46.79	13.131		
6,100.0	6,046.5	6,073.3	6,019.9	24.7	24.3	124.35	-153.1	639.1	626.9	579.3	47.59	13.173		
6,200.0	6,145.6	6,175.8	6,121.6	25.1	24.7	124.37	-156.6	650.9	638.8	590.4	48.42	13.195		
6,300.0	6,244.6	6,276.3	6,221.6	25.5	25.1	124.44	-159.9	661.8	650.6	601.4	49.22	13.218		
6,400.0	6,343.6	6,377.0	6,321.7	25.9	25.5	124.61	-162.9	671.6	662.1	612.1	50.02	13.237		
6,500.0	6,442.6	6,477.8	6,422.1	26.4	25.9	124.94	-165.9	679.5	673.4	622.6	50.80	13.256		
6,600.0	6,541.7	6,581.9	6,526.0	26.8	26.2	125.37	-168.6	686.4	684.4	632.8	51.60	13.263		
6,700.0	6,640.7	6,682.3	6,626.2	27.2	26.6	125.88	-170.7	691.7	694.8	642.5	52.36	13.270		
6,800.0	6,739.7	6,785.2	6,729.0	27.6	27.0	126.51	-172.6	695.7	705.0	651.9	53.12	13.272		
6,900.0	6,838.8	6,876.8	6,820.5	28.0	27.2	127.46	-174.2	694.2	715.2	661.4	53.75	13.305		
7,000.0	6,937.8	6,950.0	6,892.3	28.5	27.4	129.14	-177.5	680.9	728.7	674.5	54.16	13.455		
7,100.0	7,036.8	7,024.1	6,962.0	28.9	27.5	131.65	-182.2	656.1	746.4	692.0	54.37	13.727		
7,200.0	7,135.8	7,081.1	7,013.0	29.3	27.5	133.96	-186.1	631.0	768.6	714.4	54.24	14.170		
7,300.0	7,234.9	7,139.0	7,061.9	29.7	27.6	136.55	-191.8	600.7	798.1	744.2	53.89	14.809		
7,400.0	7,333.9	7,163.1	7,081.3	30.1	27.6	137.69	-194.8	586.6	834.5	781.6	52.85	15.790		
7,500.0	7,432.9	7,194.1	7,104.8	30.5	27.6	139.22	-199.1	567.0	878.2	826.6	51.67	16.999		
7,583.1	7,515.2	7,234.0	7,133.1	30.9	27.6	141.27	-205.4	539.5	920.2	869.3	50.82	18.106		
7,600.0	7,531.9	7,234.0	7,133.1	31.0	27.6	141.37	-205.4	539.5	928.9	878.4	50.50	18.393		
7,700.0	7,631.2	7,234.0	7,133.1	31.4	27.6	141.98	-205.4	539.5	984.3	935.7	48.53	20.280		
7,800.0	7,730.7	7,279.0	7,162.6	31.8	27.6	144.83	-213.4	506.6	1,042.8	995.4	47.39	22.006		
7,900.0	7,830.5	7,308.3	7,181.0	32.1	27.6	146.84	-219.0	484.4	1,104.3	1,058.4	45.96	24.029		
8,000.0	7,930.4	7,329.0	7,193.6	32.5	27.6	148.42	-223.2	468.5	1,168.1	1,123.7	44.39	26.313		
8,100.0	8,030.4	7,374.8	7,220.5	32.8	27.7	150.97	-232.7	432.7	1,233.5	1,190.1	43.40	28.418		
8,116.4	8,046.8	7,380.7	7,223.9	32.8	27.7	-156.63	-233.9	428.1	1,244.3	1,201.1	43.21	28.797		
8,200.0	8,130.4	7,409.6	7,240.4	33.1	27.7	-155.50	-240.1	405.1	1,300.6	1,258.4	42.26	30.777		
8,216.6	8,147.0	7,423.0	7,247.8	33.1	27.7	-154.98	-243.0	394.4	1,312.1	1,269.9	42.23	31.070		
8,250.0	8,180.4	7,423.0	7,247.8	33.3	27.7	111.95	-243.0	394.4	1,335.5	1,293.8	41.65	32.062		
8,300.0	8,230.1	7,423.0	7,247.8	33.4	27.7	106.84	-243.0	394.4	1,372.2	1,331.4	40.84	33.598		
8,350.0	8,279.2	7,423.0	7,247.8	33.6	27.7	101.04	-243.0	394.4	1,410.6	1,370.5	40.10	35.177		
8,400.0	8,327.3	7,423.0	7,247.8	33.9	27.7	94.63	-243.0	394.4	1,450.1	1,410.7	39.43	36.777		
8,450.0	8,374.0	7,423.0	7,247.8	34.1	27.7	87.77	-243.0	394.4	1,490.5	1,451.7	38.84	38.378		
8,500.0	8,419.0	7,423.0	7,247.8	34.4	27.7	80.72	-243.0	394.4	1,531.4	1,493.1	38.33	39.956		
8,550.0	8,461.9	7,423.0	7,247.8	34.7	27.7	73.74	-243.0	394.4	1,572.4	1,534.5	37.90	41.489		
8,600.0	8,502.4	7,423.0	7,247.8	35.1	27.7	67.08	-243.0	394.4	1,613.2	1,575.7	37.56	42.956		
8,650.0	8,540.2	7,423.0	7,247.8	35.4	27.7	60.93	-243.0	394.4	1,653.6	1,616.3	37.30	44.337		
8,700.0	8,575.0	7,423.0	7,247.8	35.8	27.7	55.41	-243.0	394.4	1,693.2	1,656.1	37.12	45.611		
8,750.0	8,606.6	7,423.0	7,247.8	36.2	27.7	50.54	-243.0	394.4	1,731.9	1,694.9	37.04	46.763		
8,800.0	8,634.7	7,423.0	7,247.8	36.7	27.7	46.30	-243.0	394.4	1,769.4	1,732.4	37.03	47.779		
8,850.0	8,659.0	7,423.0	7,247.8	37.2	27.7	42.65	-243.0	394.4	1,805.5	1,768.4	37.11	48.647		
8,900.0	8,679.5	7,423.0	7,247.8	37.7	27.7	39.51	-243.0	394.4	1,840.0	1,802.7	37.28	49.359		
8,950.0	8,695.9	7,423.0	7,247.8	38.2	27.7	36.83	-243.0	394.4	1,872.8	1,835.3	37.52	49.912		
9,000.0	8,708.1	7,389.8	7,229.1	38.8	27.7	33.82	-235.9	420.9	1,903.1	1,865.8	37.21	51.142		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD, 9318-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,050.0	8,716.1	7,373.3	7,219.7	39.4	27.7	31.66	-232.4	433.9	1,931.2	1,893.9	37.30	51.778		
9,100.0	8,719.7	7,355.7	7,209.4	40.0	27.6	29.83	-228.7	447.7	1,956.7	1,919.3	37.43	52.271		
9,116.6	8,720.0	7,349.7	7,205.9	40.2	27.6	29.29	-227.4	452.5	1,964.6	1,927.2	37.49	52.406		
9,200.0	8,720.0	7,329.0	7,193.6	41.3	27.6	28.97	-223.2	468.5	2,004.5	1,966.5	38.00	52.747		
9,300.0	8,720.0	7,297.8	7,174.5	42.7	27.6	28.50	-216.9	492.4	2,054.8	2,016.3	38.53	53.330		
9,400.0	8,720.2	7,274.1	7,159.5	44.2	27.6	28.15	-212.5	510.2	2,107.8	2,068.6	39.21	53.755		
9,500.0	8,720.3	7,234.0	7,133.1	45.7	27.6	27.56	-205.4	539.5	2,163.7	2,124.1	39.61	54.629		
9,600.0	8,720.6	7,234.0	7,133.1	47.4	27.6	27.57	-205.4	539.5	2,221.5	2,180.8	40.70	54.586		
9,700.0	8,720.8	7,234.0	7,133.1	49.1	27.6	27.58	-205.4	539.5	2,282.3	2,240.5	41.75	54.665		
9,800.0	8,721.2	7,234.0	7,133.1	50.9	27.6	27.59	-205.4	539.5	2,345.7	2,303.0	42.76	54.860		
9,900.0	8,721.5	7,234.0	7,133.1	52.7	27.6	27.60	-205.4	539.5	2,411.7	2,368.0	43.72	55.164		
10,000.0	8,722.0	7,188.8	7,100.9	54.6	27.6	26.94	-198.3	570.5	2,477.3	2,433.3	43.95	56.365		
10,100.0	8,722.4	7,179.4	7,093.8	56.5	27.6	26.82	-197.0	576.5	2,546.5	2,501.8	44.70	56.967		
10,200.0	8,723.0	7,139.0	7,061.9	58.4	27.6	26.24	-191.8	600.7	2,618.8	2,573.8	44.97	58.230		
10,300.0	8,723.5	7,139.0	7,061.9	60.4	27.6	26.25	-191.8	600.7	2,690.8	2,645.0	45.79	58.765		
10,400.0	8,724.2	7,139.0	7,061.9	62.5	27.6	26.26	-191.8	600.7	2,764.6	2,718.1	46.56	59.380		
10,500.0	8,724.9	7,139.0	7,061.9	64.5	27.6	26.28	-191.8	600.7	2,840.1	2,792.8	47.28	60.067		
10,600.0	8,725.6	7,139.0	7,061.9	66.6	27.6	26.29	-191.8	600.7	2,917.0	2,869.1	47.96	60.821		
10,700.0	8,726.4	7,139.0	7,061.9	68.7	27.6	26.31	-191.8	600.7	2,995.4	2,946.8	48.60	61.634		
10,800.0	8,727.2	7,139.0	7,061.9	70.9	27.6	26.33	-191.8	600.7	3,075.0	3,025.8	49.20	62.501		
10,900.0	8,728.1	7,139.0	7,061.9	73.0	27.6	26.35	-191.8	600.7	3,155.8	3,106.0	49.76	63.417		
11,000.0	8,729.0	7,139.0	7,061.9	75.2	27.6	26.36	-191.8	600.7	3,237.7	3,187.4	50.29	64.377		
11,100.0	8,730.0	7,098.4	7,027.9	77.4	27.5	25.80	-187.6	622.5	3,318.9	3,268.5	50.38	65.882		
11,200.0	8,731.1	7,091.3	7,021.8	79.6	27.5	25.72	-187.0	626.0	3,402.1	3,351.3	50.79	66.981		
11,300.0	8,732.2	7,084.5	7,016.0	81.8	27.5	25.64	-186.4	629.3	3,486.2	3,435.0	51.19	68.105		
11,400.0	8,733.3	7,045.0	6,980.9	84.0	27.5	25.12	-183.5	647.5	3,572.1	3,520.8	51.26	69.683		
11,500.0	8,734.5	7,045.0	6,980.9	86.2	27.5	25.14	-183.5	647.5	3,657.2	3,605.5	51.69	70.756		
11,600.0	8,735.8	7,045.0	6,980.9	88.5	27.5	25.16	-183.5	647.5	3,743.1	3,691.0	52.09	71.858		
11,700.0	8,737.1	7,045.0	6,980.9	90.8	27.5	25.18	-183.5	647.5	3,829.7	3,777.2	52.47	72.986		
11,800.0	8,738.4	7,045.0	6,980.9	93.0	27.5	25.21	-183.5	647.5	3,916.9	3,864.1	52.83	74.138		
11,900.0	8,739.8	7,045.0	6,980.9	95.3	27.5	25.23	-183.5	647.5	4,004.8	3,951.6	53.18	75.311		
12,000.0	8,741.3	7,045.0	6,980.9	97.6	27.5	25.25	-183.5	647.5	4,093.2	4,039.7	53.50	76.505		
12,100.0	8,742.8	7,045.0	6,980.9	99.9	27.5	25.28	-183.5	647.5	4,182.2	4,128.4	53.81	77.716		
12,200.0	8,744.3	7,045.0	6,980.9	102.2	27.5	25.30	-183.5	647.5	4,271.7	4,217.6	54.11	78.944		
12,300.0	8,745.9	7,045.0	6,980.9	104.5	27.5	25.33	-183.5	647.5	4,361.7	4,307.3	54.39	80.188		
12,400.0	8,747.6	7,045.0	6,980.9	106.8	27.5	25.35	-183.5	647.5	4,452.1	4,397.5	54.66	81.445		
12,500.0	8,749.3	7,045.0	6,980.9	109.1	27.5	25.38	-183.5	647.5	4,543.0	4,488.0	54.92	82.715		
12,600.0	8,751.1	7,045.0	6,980.9	111.5	27.5	25.41	-183.5	647.5	4,634.2	4,579.0	55.17	83.997		
12,700.0	8,752.9	7,045.0	6,980.9	113.8	27.5	25.44	-183.5	647.5	4,725.8	4,670.4	55.41	85.289		
12,800.0	8,754.7	7,045.0	6,980.9	116.1	27.5	25.47	-183.5	647.5	4,817.8	4,762.1	55.64	86.591		
12,900.0	8,756.6	7,045.0	6,980.9	118.5	27.5	25.50	-183.5	647.5	4,910.1	4,854.2	55.86	87.901		
13,000.0	8,758.6	7,001.0	6,940.6	120.8	27.5	24.93	-180.8	664.8	5,000.8	4,945.0	55.81	89.608		
13,100.0	8,760.6	6,997.5	6,937.3	123.2	27.4	24.91	-180.6	666.0	5,093.4	5,037.4	56.00	90.957		
13,200.0	8,762.7	6,994.1	6,934.2	125.5	27.4	24.89	-180.4	667.2	5,186.3	5,130.1	56.18	92.311		
13,300.0	8,764.8	6,950.0	6,892.3	127.9	27.4	24.32	-177.5	680.9	5,281.0	5,224.9	56.13	94.088		
13,400.0	8,767.0	6,950.0	6,892.3	130.3	27.4	24.36	-177.5	680.9	5,374.1	5,317.8	56.33	95.411		
13,500.0	8,769.2	6,950.0	6,892.3	132.6	27.4	24.39	-177.5	680.9	5,467.5	5,411.0	56.52	96.741		
13,600.0	8,771.5	6,950.0	6,892.3	135.0	27.4	24.42	-177.5	680.9	5,561.2	5,504.5	56.70	98.076		
13,700.0	8,773.8	6,950.0	6,892.3	137.4	27.4	24.45	-177.5	680.9	5,655.1	5,598.2	56.88	99.415		
13,800.0	8,776.2	6,950.0	6,892.3	139.7	27.4	24.48	-177.5	680.9	5,749.2	5,692.1	57.06	100.759		
13,900.0	8,778.6	6,950.0	6,892.3	142.1	27.4	24.52	-177.5	680.9	5,843.5	5,786.2	57.23	102.106		
14,000.0	8,781.1	6,950.0	6,892.3	144.5	27.4	24.55	-177.5	680.9	5,938.0	5,880.6	57.40	103.457		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 197-MWD, 9318-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.0	8,783.6	6,950.0	6,892.3	146.9	27.4	24.59	-177.5	680.9	6,032.7	5,975.1	57.56	104.810		
14,200.0	8,786.2	6,950.0	6,892.3	149.2	27.4	24.63	-177.5	680.9	6,127.6	6,069.8	57.72	106.166		
14,300.0	8,788.8	6,950.0	6,892.3	151.6	27.4	24.66	-177.5	680.9	6,222.6	6,164.7	57.87	107.524		
14,400.0	8,791.5	6,950.0	6,892.3	154.0	27.4	24.70	-177.5	680.9	6,317.8	6,259.8	58.02	108.884		
14,500.0	8,794.2	6,950.0	6,892.3	156.4	27.4	24.74	-177.5	680.9	6,413.2	6,355.1	58.17	110.245		
14,600.0	8,797.0	6,950.0	6,892.3	158.8	27.4	24.78	-177.5	680.9	6,508.8	6,450.4	58.32	111.608		
14,614.8	8,797.4	6,950.0	6,892.3	159.1	27.4	24.79	-177.5	680.9	6,522.9	6,464.5	58.34	111.809		
14,700.0	8,799.8	6,950.0	6,892.3	161.2	27.4	24.79	-177.5	680.9	6,604.4	6,546.0	58.46	112.971		
14,800.0	8,802.7	6,950.0	6,892.3	163.6	27.4	24.79	-177.5	680.9	6,700.3	6,641.6	58.60	114.334		
14,900.0	8,805.5	6,950.0	6,892.3	166.0	27.4	24.79	-177.5	680.9	6,796.2	6,737.4	58.74	115.697		
15,000.0	8,808.3	6,950.0	6,892.3	168.4	27.4	24.79	-177.5	680.9	6,892.2	6,833.3	58.88	117.059		
15,100.0	8,811.1	6,950.0	6,892.3	170.8	27.4	24.79	-177.5	680.9	6,988.4	6,929.4	59.01	118.421		
15,200.0	8,813.9	6,950.0	6,892.3	173.2	27.4	24.79	-177.5	680.9	7,084.6	7,025.5	59.15	119.782		
15,300.0	8,816.8	6,950.0	6,892.3	175.6	27.4	24.79	-177.5	680.9	7,181.0	7,121.7	59.28	121.142		
15,400.0	8,819.6	6,950.0	6,892.3	178.0	27.4	24.79	-177.5	680.9	7,277.4	7,218.0	59.41	122.501		
15,500.0	8,822.4	6,950.0	6,892.3	180.4	27.4	24.79	-177.5	680.9	7,374.0	7,314.5	59.54	123.859		
15,600.0	8,825.2	6,950.0	6,892.3	182.8	27.4	24.79	-177.5	680.9	7,470.6	7,411.0	59.66	125.215		
15,700.0	8,828.0	6,950.0	6,892.3	185.2	27.4	24.79	-177.5	680.9	7,567.4	7,507.6	59.79	126.569		
15,800.0	8,830.8	6,950.0	6,892.3	187.6	27.4	24.79	-177.5	680.9	7,664.2	7,604.3	59.91	127.922		
15,900.0	8,833.7	6,950.0	6,892.3	190.0	27.4	24.79	-177.5	680.9	7,761.1	7,701.1	60.04	129.272		
16,000.0	8,836.5	6,950.0	6,892.3	192.4	27.4	24.79	-177.5	680.9	7,858.1	7,797.9	60.16	130.621		
16,100.0	8,839.3	6,950.0	6,892.3	194.8	27.4	24.79	-177.5	680.9	7,955.1	7,894.8	60.28	131.967		
16,200.0	8,842.1	6,950.0	6,892.3	197.2	27.4	24.79	-177.5	680.9	8,052.2	7,991.8	60.40	133.312		
16,300.0	8,844.9	6,950.0	6,892.3	199.6	27.4	24.79	-177.5	680.9	8,149.4	8,088.9	60.52	134.653		
16,400.0	8,847.8	6,950.0	6,892.3	202.0	27.4	24.79	-177.5	680.9	8,246.7	8,186.0	60.64	135.992		
16,500.0	8,850.6	6,950.0	6,892.3	204.4	27.4	24.79	-177.5	680.9	8,344.0	8,283.2	60.76	137.329		
16,600.0	8,853.4	6,950.0	6,892.3	206.8	27.4	24.79	-177.5	680.9	8,441.4	8,380.5	60.88	138.662		
16,700.0	8,856.2	6,950.0	6,892.3	209.3	27.4	24.79	-177.5	680.9	8,538.8	8,477.8	60.99	139.993		
16,800.0	8,859.0	6,950.0	6,892.3	211.7	27.4	24.79	-177.5	680.9	8,636.3	8,575.2	61.11	141.321		
16,900.0	8,861.8	6,950.0	6,892.3	214.1	27.4	24.79	-177.5	680.9	8,733.9	8,672.7	61.23	142.646		
17,000.0	8,864.7	6,950.0	6,892.3	216.5	27.4	24.79	-177.5	680.9	8,831.5	8,770.2	61.34	143.967		
17,100.0	8,867.5	6,950.0	6,892.3	218.9	27.4	24.79	-177.5	680.9	8,929.2	8,867.7	61.46	145.286		
17,200.0	8,870.3	6,950.0	6,892.3	221.3	27.4	24.79	-177.5	680.9	9,026.9	8,965.3	61.57	146.601		
17,300.0	8,873.1	6,950.0	6,892.3	223.8	27.4	24.79	-177.5	680.9	9,124.7	9,063.0	61.69	147.913		
17,400.0	8,875.9	6,950.0	6,892.3	226.2	27.4	24.79	-177.5	680.9	9,222.5	9,160.7	61.80	149.221		
17,500.0	8,878.8	6,950.0	6,892.3	228.6	27.4	24.79	-177.5	680.9	9,320.4	9,258.4	61.92	150.526		
17,600.0	8,881.6	6,950.0	6,892.3	231.0	27.4	24.79	-177.5	680.9	9,418.3	9,356.2	62.03	151.827		
17,700.0	8,884.4	6,950.0	6,892.3	233.4	27.4	24.79	-177.5	680.9	9,516.2	9,454.1	62.15	153.125		
17,800.0	8,887.2	6,950.0	6,892.3	235.9	27.4	24.79	-177.5	680.9	9,614.2	9,551.9	62.26	154.419		
17,900.0	8,890.0	6,950.0	6,892.3	238.3	27.4	24.79	-177.5	680.9	9,712.2	9,649.9	62.37	155.709		
18,000.0	8,892.8	6,950.0	6,892.3	240.7	27.4	24.79	-177.5	680.9	9,810.3	9,747.8	62.49	156.996		
18,100.0	8,895.7	6,950.0	6,892.3	243.1	27.4	24.79	-177.5	680.9	9,908.4	9,845.8	62.60	158.278		

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 225-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.9	0.9	0.0	0.0	42.99	566.9	528.5	775.1					
100.0	100.0	90.6	90.6	0.1	0.2	42.99	567.4	528.9	775.7	775.5	0.28	2,729.630		
200.0	200.0	180.4	180.3	0.5	0.3	42.99	568.7	530.1	777.7	777.0	0.78	995.883		
300.0	300.0	273.4	273.3	0.8	0.5	42.98	571.0	532.0	780.9	779.6	1.38	565.381		
400.0	400.0	369.6	369.5	1.2	0.9	42.93	574.1	534.1	784.7	782.6	2.09	376.356		
500.0	500.0	465.4	465.2	1.6	1.2	42.86	577.8	536.1	789.0	786.2	2.79	283.093		
600.0	599.9	559.9	559.5	1.9	1.6	-9.35	582.1	538.2	789.6	786.1	3.48	226.819		
660.0	659.5	619.2	618.7	2.2	1.8	-9.53	585.0	539.6	786.0	782.1	3.92	200.693		
700.0	699.1	658.6	658.1	2.3	1.9	-9.65	587.1	540.5	782.6	778.4	4.20	186.129		
800.0	798.1	767.4	766.7	2.7	2.3	-9.97	592.1	542.8	773.8	768.8	4.95	156.224		
900.0	897.1	877.9	877.2	3.1	2.7	-10.19	595.2	545.2	763.5	757.8	5.71	133.723		
1,000.0	996.2	956.0	955.2	3.5	3.0	-10.29	597.4	548.0	754.3	747.9	6.35	118.724		
1,100.0	1,095.2	1,038.7	1,037.7	3.9	3.3	-10.34	600.6	552.8	747.2	740.2	7.02	106.497		
1,200.0	1,194.2	1,135.9	1,134.5	4.3	3.7	-10.33	604.7	559.9	741.6	733.9	7.73	95.889		
1,300.0	1,293.3	1,234.4	1,232.7	4.7	4.1	-10.27	608.7	567.7	736.2	727.7	8.46	87.037		
1,400.0	1,392.3	1,337.0	1,334.8	5.1	4.4	-10.19	612.6	576.0	730.6	721.4	9.20	79.429		
1,500.0	1,491.3	1,439.5	1,437.0	5.5	4.8	-10.12	616.3	583.8	724.7	714.8	9.94	72.911		
1,600.0	1,590.3	1,521.7	1,518.8	5.9	5.1	-10.06	620.0	591.0	720.1	709.4	10.61	67.872		
1,700.0	1,689.4	1,607.0	1,603.5	6.3	5.5	-9.98	624.9	599.6	717.4	706.1	11.29	63.567		
1,783.2	1,771.7	1,678.6	1,674.5	6.7	5.8	-9.88	629.9	607.9	716.7	704.9	11.85	60.467		
1,800.0	1,788.4	1,693.1	1,688.8	6.7	5.8	-9.86	630.9	609.8	716.8	704.8	11.97	59.892		
1,900.0	1,887.4	1,779.2	1,773.8	7.1	6.2	-9.69	637.6	621.6	718.1	705.4	12.64	56.791		
2,000.0	1,986.4	1,879.0	1,872.1	7.6	6.6	-9.44	645.8	636.5	720.5	707.1	13.39	53.823		
2,100.0	2,085.5	1,981.9	1,973.6	8.0	7.0	-9.18	654.0	651.6	722.6	708.5	14.15	51.085		
2,200.0	2,184.5	2,087.3	2,077.6	8.4	7.5	-8.96	662.3	666.3	724.2	709.3	14.92	48.549		
2,300.0	2,283.5	2,192.7	2,181.9	8.8	7.9	-8.82	670.7	679.7	725.0	709.3	15.69	46.214		
2,400.0	2,382.5	2,288.9	2,277.0	9.2	8.3	-8.64	678.0	692.4	725.8	709.4	16.42	44.213		
2,500.0	2,481.6	2,387.9	2,374.7	9.6	8.7	-8.40	685.1	706.2	726.8	709.7	17.16	42.365		
2,600.0	2,580.6	2,489.3	2,474.8	10.1	9.2	-8.16	692.3	720.2	727.8	709.9	17.91	40.639		
2,700.0	2,679.6	2,586.9	2,571.3	10.5	9.6	-7.96	699.5	733.4	728.8	710.1	18.65	39.086		
2,800.0	2,778.7	2,680.5	2,663.7	10.9	10.0	-7.82	707.5	746.0	730.4	711.1	19.36	37.729		
2,900.0	2,877.7	2,776.9	2,758.8	11.3	10.4	-7.74	716.6	758.9	732.8	712.7	20.09	36.479		
3,000.0	2,976.7	2,875.0	2,855.5	11.7	10.8	-7.68	726.4	772.1	735.6	714.8	20.83	35.320		
3,100.0	3,075.7	2,975.8	2,954.9	12.1	11.3	-7.61	736.4	785.7	738.4	716.8	21.58	34.219		
3,200.0	3,174.8	3,076.1	3,053.8	12.6	11.7	-7.54	746.2	799.3	741.1	718.8	22.33	33.190		
3,300.0	3,273.8	3,175.9	3,152.1	13.0	12.1	-7.48	756.1	812.7	743.8	720.7	23.08	32.233		
3,400.0	3,372.8	3,275.3	3,250.2	13.4	12.6	-7.43	766.2	825.9	746.6	722.7	23.82	31.340		
3,500.0	3,471.8	3,374.3	3,347.8	13.8	13.0	-7.41	776.4	839.0	749.4	724.9	24.57	30.507		
3,600.0	3,570.9	3,477.8	3,449.9	14.2	13.4	-7.40	787.2	852.4	752.2	726.9	25.33	29.695		
3,700.0	3,669.9	3,585.0	3,555.7	14.7	13.9	-7.41	798.0	865.5	754.2	728.1	26.12	28.878		
3,800.0	3,768.9	3,674.5	3,644.1	15.1	14.3	-7.43	807.0	876.4	756.1	729.3	26.81	28.201		
3,900.0	3,867.9	3,758.8	3,727.0	15.5	14.7	-7.39	816.1	888.3	760.0	732.6	27.47	27.668		
4,000.0	3,967.0	3,851.4	3,817.8	15.9	15.1	-7.29	826.8	903.1	765.7	737.6	28.17	27.178		
4,100.0	4,066.0	3,952.1	3,916.5	16.3	15.6	-7.16	838.4	919.4	771.6	742.6	28.93	26.667		
4,200.0	4,165.0	4,056.7	4,019.0	16.7	16.0	-7.04	850.2	936.1	777.1	747.4	29.72	26.153		
4,300.0	4,264.1	4,163.7	4,124.2	17.2	16.5	-6.95	862.0	952.2	781.8	751.3	30.51	25.624		
4,400.0	4,363.1	4,269.7	4,228.5	17.6	17.0	-6.89	873.4	967.2	785.7	754.4	31.30	25.104		
4,500.0	4,462.1	4,375.5	4,332.7	18.0	17.5	-6.86	884.4	981.5	788.8	756.7	32.08	24.588		
4,600.0	4,561.1	4,475.1	4,430.9	18.4	17.9	-6.84	894.7	994.5	791.6	758.8	32.83	24.113		
4,700.0	4,660.2	4,575.2	4,529.6	18.8	18.4	-6.83	905.2	1,007.6	794.4	760.8	33.58	23.658		
4,800.0	4,759.2	4,677.3	4,630.3	19.2	18.8	-6.84	915.8	1,020.6	797.0	762.7	34.34	23.210		
4,900.0	4,858.2	4,779.6	4,731.3	19.7	19.3	-6.85	926.3	1,033.5	799.4	764.3	35.10	22.774		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 225-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,957.2	4,882.3	4,832.7	20.1	19.7	-6.78	935.9	1,046.9	801.4	765.6	35.86	22.346		
5,100.0	5,056.3	4,987.8	4,936.8	20.5	20.2	-6.61	944.5	1,061.3	803.1	766.4	36.64	21.919		
5,200.0	5,155.3	5,097.4	5,045.2	20.9	20.6	-6.43	952.5	1,075.5	803.7	766.2	37.43	21.473		
5,300.0	5,254.3	5,205.8	5,152.5	21.3	21.1	-6.27	959.7	1,088.6	803.1	764.9	38.20	21.022		
5,400.0	5,353.4	5,313.5	5,259.4	21.8	21.5	-6.12	966.3	1,100.7	801.6	762.6	38.97	20.568		
5,500.0	5,452.4	5,410.2	5,355.4	22.2	21.9	-6.00	972.1	1,111.2	799.7	760.0	39.70	20.142		
5,600.0	5,551.4	5,505.5	5,449.8	22.6	22.3	-5.89	978.3	1,121.8	798.4	758.0	40.43	19.749		
5,700.0	5,650.4	5,602.5	5,546.0	23.0	22.7	-5.79	985.0	1,132.9	797.6	756.4	41.16	19.378		
5,800.0	5,749.5	5,699.8	5,642.3	23.4	23.1	-5.68	991.9	1,144.3	797.1	755.2	41.89	19.029		
5,900.0	5,848.5	5,803.4	5,745.0	23.9	23.6	-5.55	999.2	1,156.5	796.6	754.0	42.65	18.679		
6,000.0	5,947.5	5,908.1	5,848.7	24.3	24.0	-5.41	1,006.0	1,168.6	795.6	752.2	43.41	18.329		
6,100.0	6,046.5	6,017.6	5,957.5	24.7	24.4	-5.27	1,012.5	1,180.5	793.7	749.5	44.18	17.966		
6,200.0	6,145.6	6,125.9	6,065.0	25.1	24.9	-5.13	1,018.1	1,191.2	790.6	745.7	44.94	17.593		
6,300.0	6,244.6	6,231.6	6,170.1	25.5	25.3	-4.99	1,022.9	1,201.1	786.7	741.0	45.69	17.219		
6,400.0	6,343.6	6,343.6	6,281.7	25.9	25.7	-4.85	1,027.3	1,210.7	781.8	735.3	46.43	16.836		
6,500.0	6,442.6	6,460.9	6,398.6	26.4	26.1	-4.72	1,030.5	1,218.8	774.8	727.6	47.17	16.426		
6,600.0	6,541.7	6,574.8	6,512.4	26.8	26.5	-4.61	1,032.3	1,224.7	765.8	717.9	47.88	15.995		
6,700.0	6,640.7	6,688.1	6,625.6	27.2	26.9	-4.50	1,032.6	1,229.1	754.9	706.4	48.56	15.545		
6,800.0	6,739.7	6,785.7	6,723.1	27.6	27.2	-4.47	1,033.2	1,231.8	743.5	694.2	49.28	15.086		
6,900.0	6,838.8	6,890.0	6,827.4	28.0	27.5	-4.54	1,034.5	1,233.8	731.8	681.8	49.98	14.642		
7,000.0	6,937.8	7,001.6	6,939.0	28.5	27.9	-4.73	1,036.0	1,233.6	718.8	668.1	50.63	14.196		
7,100.0	7,036.8	7,108.4	7,045.8	28.9	28.2	-5.04	1,037.3	1,231.4	704.2	652.9	51.29	13.731		
7,200.0	7,135.8	7,212.4	7,149.7	29.3	28.5	-5.39	1,038.4	1,228.3	688.9	636.9	51.95	13.262		
7,300.0	7,234.9	7,310.5	7,247.7	29.7	28.8	-5.74	1,039.2	1,225.0	673.2	620.5	52.64	12.788		
7,400.0	7,333.9	7,407.2	7,344.4	30.1	29.1	-6.08	1,039.9	1,222.2	657.7	604.4	53.35	12.329		
7,500.0	7,432.9	7,502.8	7,439.9	30.5	29.3	-6.36	1,040.3	1,220.1	642.7	588.6	54.06	11.888		
7,583.1	7,515.2	7,582.1	7,519.3	30.9	29.6	-6.53	1,040.4	1,219.3	630.6	576.0	54.65	11.538		
7,600.0	7,531.9	7,598.2	7,535.4	31.0	29.6	-6.55	1,040.3	1,219.2	628.2	573.5	54.77	11.469		
7,700.0	7,631.2	7,697.4	7,634.6	31.4	29.9	-6.66	1,040.1	1,218.9	615.8	560.3	55.46	11.103		
7,800.0	7,730.7	8,086.7	7,996.6	31.8	30.5	-15.54	1,029.7	1,103.5	585.3	536.4	48.99	11.948		
7,900.0	7,830.5	8,340.5	8,172.5	32.1	30.7	-34.29	998.9	927.0	528.3	484.6	43.70	12.091		
8,000.0	7,930.4	8,403.4	8,203.0	32.5	30.8	-41.21	989.0	872.9	463.7	416.0	47.71	9.719		
8,100.0	8,030.4	8,453.0	8,225.3	32.8	30.9	-47.18	981.0	829.3	409.2	356.0	53.19	7.693		
8,116.4	8,046.8	8,460.3	8,228.4	32.8	30.9	3.96	979.8	822.8	401.6	347.4	54.16	7.414		
8,200.0	8,130.4	8,496.0	8,243.7	33.1	31.0	-1.14	974.3	791.0	369.8	310.8	58.96	6.271		
8,216.6	8,147.0	8,502.8	8,246.6	33.1	31.0	-2.14	973.3	784.9	365.0	305.2	59.83	6.101		
8,250.0	8,180.4	8,515.3	8,251.8	33.3	31.1	-94.87	971.4	773.7	357.3	295.8	61.42	5.817		
8,300.0	8,230.1	8,527.8	8,256.8	33.4	31.1	-97.42	969.6	762.5	351.0	287.7	63.25	5.549		
8,318.7	8,248.5	8,531.0	8,258.1	33.5	31.1	-97.99	969.1	759.5	350.5	286.8	63.71	5.501 CC, ES		
8,350.0	8,279.2	8,535.4	8,259.9	33.6	31.1	-98.54	968.6	755.6	351.9	287.8	64.14	5.487 SF		
8,400.0	8,327.3	8,539.7	8,261.5	33.9	31.2	-98.39	968.0	751.7	360.4	296.4	63.99	5.632		
8,450.0	8,374.0	8,540.9	8,262.0	34.1	31.2	-96.97	967.9	750.5	375.9	313.0	62.94	5.972		
8,500.0	8,419.0	8,539.4	8,261.4	34.4	31.2	-94.32	968.0	751.9	397.6	336.3	61.31	6.485		
8,550.0	8,461.9	8,535.5	8,259.9	34.7	31.1	-90.52	968.5	755.4	424.3	364.9	59.41	7.142		
8,600.0	8,502.4	8,520.0	8,253.7	35.1	31.1	-84.22	970.7	769.5	455.1	397.9	57.23	7.953		
8,650.0	8,540.2	8,520.0	8,253.7	35.4	31.1	-79.81	970.7	769.5	488.4	432.6	55.75	8.760		
8,700.0	8,575.0	8,507.9	8,248.7	35.8	31.1	-73.34	972.5	780.3	523.6	469.3	54.22	9.656		
8,750.0	8,606.6	8,490.8	8,241.5	36.2	31.0	-66.41	975.1	795.6	559.7	506.8	52.89	10.581		
8,800.0	8,634.7	8,471.4	8,233.3	36.7	31.0	-59.79	978.1	813.0	595.9	544.1	51.82	11.498		
8,850.0	8,659.0	8,449.8	8,223.9	37.2	30.9	-53.79	981.5	832.1	631.7	580.7	51.02	12.383		
8,900.0	8,679.5	8,425.0	8,212.9	37.7	30.8	-48.49	985.5	854.0	666.6	616.2	50.41	13.225		
8,950.0	8,695.9	8,401.6	8,202.2	38.2	30.8	-44.14	989.3	874.4	700.3	650.2	50.12	13.972		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 225-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.0	8,708.1	8,375.8	8,190.0	38.8	30.8	-40.44	993.4	896.8	732.3	682.3	49.99	14.650		
9,050.0	8,716.1	8,348.9	8,176.7	39.4	30.7	-37.37	997.6	919.8	762.5	712.5	50.02	15.245		
9,100.0	8,719.7	8,329.0	8,166.7	40.0	30.7	-34.97	1,000.7	936.7	790.7	740.3	50.43	15.679		
9,116.6	8,720.0	8,329.0	8,166.7	40.2	30.7	-34.35	1,000.7	936.7	799.8	749.0	50.79	15.745		
9,200.0	8,720.0	8,290.7	8,145.8	41.3	30.7	-33.77	1,006.4	968.3	845.8	794.3	51.51	16.422		
9,300.0	8,720.0	8,260.3	8,127.4	42.7	30.7	-33.25	1,010.7	992.1	905.7	853.1	52.67	17.196		
9,400.0	8,720.2	8,234.0	8,110.2	44.2	30.6	-32.76	1,014.4	1,011.7	970.0	916.2	53.80	18.032		
9,500.0	8,720.3	8,234.0	8,110.2	45.7	30.6	-32.78	1,014.4	1,011.7	1,039.1	983.7	55.42	18.751		
9,600.0	8,720.6	8,185.4	8,075.6	47.4	30.6	-31.76	1,020.3	1,045.2	1,109.7	1,054.0	55.67	19.934		
9,700.0	8,720.8	8,138.0	8,038.5	49.1	30.6	-30.65	1,025.0	1,074.3	1,185.3	1,129.4	55.85	21.222		
9,800.0	8,721.2	8,138.0	8,038.5	50.9	30.6	-30.66	1,025.0	1,074.3	1,261.5	1,204.4	57.04	22.114		
9,900.0	8,721.5	8,117.8	8,022.1	52.7	30.6	-30.19	1,026.8	1,085.8	1,340.7	1,283.0	57.66	23.253		
10,000.0	8,722.0	8,074.5	7,986.6	54.6	30.5	-29.23	1,030.8	1,110.4	1,421.0	1,363.3	57.76	24.603		
10,100.0	8,722.4	8,043.0	7,960.6	56.5	30.5	-28.58	1,033.9	1,128.0	1,502.3	1,444.2	58.07	25.871		
10,200.0	8,723.0	8,043.0	7,960.6	58.4	30.5	-28.60	1,033.9	1,128.0	1,585.2	1,526.4	58.85	26.938		
10,300.0	8,723.5	8,000.4	7,924.8	60.4	30.5	-27.71	1,037.3	1,150.7	1,668.5	1,609.6	58.87	28.343		
10,400.0	8,724.2	7,983.9	7,910.5	62.5	30.5	-27.36	1,038.2	1,158.9	1,753.5	1,694.3	59.26	29.591		
10,500.0	8,724.9	7,947.0	7,877.8	64.5	30.4	-26.52	1,039.2	1,176.1	1,840.1	1,780.8	59.29	31.037		
10,600.0	8,725.6	7,947.0	7,877.8	66.6	30.4	-26.54	1,039.2	1,176.1	1,926.9	1,867.0	59.84	32.202		
10,700.0	8,726.4	7,947.0	7,877.8	68.7	30.4	-26.57	1,039.2	1,176.1	2,014.9	1,954.6	60.32	33.402		
10,800.0	8,727.2	7,947.0	7,877.8	70.9	30.4	-26.59	1,039.2	1,176.1	2,104.1	2,043.3	60.75	34.633		
10,900.0	8,728.1	7,947.0	7,877.8	73.0	30.4	-26.62	1,039.2	1,176.1	2,194.2	2,133.0	61.14	35.889		
11,000.0	8,729.0	7,947.0	7,877.8	75.2	30.4	-26.65	1,039.2	1,176.1	2,285.1	2,223.6	61.48	37.168		
11,100.0	8,730.0	7,947.0	7,877.8	77.4	30.4	-26.68	1,039.2	1,176.1	2,376.8	2,315.0	61.79	38.467		
11,200.0	8,731.1	7,947.0	7,877.8	79.6	30.4	-26.71	1,039.2	1,176.1	2,469.1	2,407.1	62.07	39.783		
11,300.0	8,732.2	7,947.0	7,877.8	81.8	30.4	-26.75	1,039.2	1,176.1	2,562.1	2,499.7	62.32	41.113		
11,400.0	8,733.3	7,904.7	7,839.0	84.0	30.4	-25.76	1,039.6	1,192.7	2,653.0	2,590.8	62.14	42.691		
11,500.0	8,734.5	7,900.5	7,835.0	86.2	30.4	-25.69	1,039.6	1,194.1	2,746.4	2,684.1	62.33	44.060		
11,600.0	8,735.8	7,896.5	7,831.2	88.5	30.4	-25.63	1,039.7	1,195.4	2,840.2	2,777.7	62.51	45.436		
11,700.0	8,737.1	7,892.8	7,827.7	90.8	30.4	-25.57	1,039.7	1,196.6	2,934.4	2,871.8	62.68	46.820		
11,800.0	8,738.4	7,852.0	7,788.4	93.0	30.3	-24.65	1,039.9	1,207.4	3,031.0	2,968.4	62.51	48.487		
11,900.0	8,739.8	7,852.0	7,788.4	95.3	30.3	-24.68	1,039.9	1,207.4	3,125.5	3,062.8	62.70	49.852		
12,000.0	8,741.3	7,852.0	7,788.4	97.6	30.3	-24.72	1,039.9	1,207.4	3,220.4	3,157.5	62.87	51.224		
12,100.0	8,742.8	7,852.0	7,788.4	99.9	30.3	-24.76	1,039.9	1,207.4	3,315.6	3,252.6	63.03	52.602		
12,200.0	8,744.3	7,852.0	7,788.4	102.2	30.3	-24.80	1,039.9	1,207.4	3,411.1	3,347.9	63.18	53.987		
12,300.0	8,745.9	7,852.0	7,788.4	104.5	30.3	-24.84	1,039.9	1,207.4	3,506.8	3,443.5	63.33	55.377		
12,400.0	8,747.6	7,852.0	7,788.4	106.8	30.3	-24.88	1,039.9	1,207.4	3,602.8	3,539.4	63.46	56.771		
12,500.0	8,749.3	7,852.0	7,788.4	109.1	30.3	-24.93	1,039.9	1,207.4	3,699.1	3,635.5	63.59	58.169		
12,600.0	8,751.1	7,852.0	7,788.4	111.5	30.3	-24.97	1,039.9	1,207.4	3,795.5	3,731.8	63.72	59.570		
12,700.0	8,752.9	7,852.0	7,788.4	113.8	30.3	-25.02	1,039.9	1,207.4	3,892.1	3,828.3	63.83	60.974		
12,800.0	8,754.7	7,852.0	7,788.4	116.1	30.3	-25.07	1,039.9	1,207.4	3,988.9	3,925.0	63.95	62.380		
12,900.0	8,756.6	7,852.0	7,788.4	118.5	30.3	-25.12	1,039.9	1,207.4	4,085.9	4,021.8	64.05	63.789		
13,000.0	8,758.6	7,852.0	7,788.4	120.8	30.3	-25.17	1,039.9	1,207.4	4,183.0	4,118.9	64.16	65.199		
13,100.0	8,760.6	7,852.0	7,788.4	123.2	30.3	-25.22	1,039.9	1,207.4	4,280.3	4,216.0	64.26	66.610		
13,200.0	8,762.7	7,852.0	7,788.4	125.5	30.3	-25.28	1,039.9	1,207.4	4,377.7	4,313.3	64.36	68.022		
13,300.0	8,764.8	7,852.0	7,788.4	127.9	30.3	-25.33	1,039.9	1,207.4	4,475.2	4,410.8	64.45	69.434		
13,400.0	8,767.0	7,852.0	7,788.4	130.3	30.3	-25.39	1,039.9	1,207.4	4,572.8	4,508.3	64.55	70.847		
13,500.0	8,769.2	7,852.0	7,788.4	132.6	30.3	-25.45	1,039.9	1,207.4	4,670.6	4,606.0	64.64	72.260		
13,600.0	8,771.5	7,852.0	7,788.4	135.0	30.3	-25.51	1,039.9	1,207.4	4,768.4	4,703.7	64.72	73.673		
13,700.0	8,773.8	7,852.0	7,788.4	137.4	30.3	-25.57	1,039.9	1,207.4	4,866.4	4,801.6	64.81	75.085		
13,800.0	8,776.2	7,852.0	7,788.4	139.7	30.3	-25.63	1,039.9	1,207.4	4,964.4	4,899.5	64.90	76.497		
13,900.0	8,778.6	7,852.0	7,788.4	142.1	30.3	-25.70	1,039.9	1,207.4	5,062.6	4,997.6	64.98	77.908		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.0 usft
Survey Program: 225-MWD													Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.0	8,781.1	7,852.0	7,788.4	144.5	30.3	-25.77	1,039.9	1,207.4	5,160.8	5,095.7	65.06	79.318		
14,100.0	8,783.6	7,852.0	7,788.4	146.9	30.3	-25.84	1,039.9	1,207.4	5,259.0	5,193.9	65.15	80.727		
14,200.0	8,786.2	7,852.0	7,788.4	149.2	30.3	-25.91	1,039.9	1,207.4	5,357.4	5,292.2	65.23	82.135		
14,300.0	8,788.8	7,852.0	7,788.4	151.6	30.3	-25.98	1,039.9	1,207.4	5,455.8	5,390.5	65.31	83.541		
14,400.0	8,791.5	7,852.0	7,788.4	154.0	30.3	-26.05	1,039.9	1,207.4	5,554.3	5,488.9	65.39	84.946		
14,500.0	8,794.2	7,852.0	7,788.4	156.4	30.3	-26.13	1,039.9	1,207.4	5,652.9	5,587.4	65.47	86.349		
14,600.0	8,797.0	7,852.0	7,788.4	158.8	30.3	-26.20	1,039.9	1,207.4	5,751.5	5,685.9	65.54	87.750		
14,614.8	8,797.4	7,852.0	7,788.4	159.1	30.3	-26.22	1,039.9	1,207.4	5,766.0	5,700.5	65.56	87.956		
14,700.0	8,799.8	7,852.0	7,788.4	161.2	30.3	-26.22	1,039.9	1,207.4	5,850.1	5,784.5	65.62	89.149		
14,800.0	8,802.7	7,852.0	7,788.4	163.6	30.3	-26.22	1,039.9	1,207.4	5,948.8	5,883.1	65.70	90.545		
14,900.0	8,805.5	7,852.0	7,788.4	166.0	30.3	-26.22	1,039.9	1,207.4	6,047.6	5,981.8	65.78	91.940		
15,000.0	8,808.3	7,852.0	7,788.4	168.4	30.3	-26.22	1,039.9	1,207.4	6,146.3	6,080.5	65.86	93.331		
15,100.0	8,811.1	7,852.0	7,788.4	170.8	30.3	-26.22	1,039.9	1,207.4	6,245.2	6,179.2	65.93	94.720		
15,200.0	8,813.9	7,852.0	7,788.4	173.2	30.3	-26.22	1,039.9	1,207.4	6,344.0	6,278.0	66.01	96.107		
15,300.0	8,816.8	7,852.0	7,788.4	175.6	30.3	-26.22	1,039.9	1,207.4	6,442.9	6,376.8	66.09	97.490		
15,400.0	8,819.6	7,852.0	7,788.4	178.0	30.3	-26.22	1,039.9	1,207.4	6,541.9	6,475.7	66.17	98.871		
15,500.0	8,822.4	7,852.0	7,788.4	180.4	30.3	-26.22	1,039.9	1,207.4	6,640.8	6,574.6	66.24	100.249		
15,600.0	8,825.2	7,852.0	7,788.4	182.8	30.3	-26.22	1,039.9	1,207.4	6,739.8	6,673.5	66.32	101.624		
15,700.0	8,828.0	7,852.0	7,788.4	185.2	30.3	-26.22	1,039.9	1,207.4	6,838.8	6,772.4	66.40	102.995		
15,800.0	8,830.8	7,852.0	7,788.4	187.6	30.3	-26.22	1,039.9	1,207.4	6,937.9	6,871.4	66.48	104.364		
15,900.0	8,833.7	7,852.0	7,788.4	190.0	30.3	-26.22	1,039.9	1,207.4	7,037.0	6,970.4	66.56	105.730		
16,000.0	8,836.5	7,852.0	7,788.4	192.4	30.3	-26.22	1,039.9	1,207.4	7,136.1	7,069.4	66.64	107.092		
16,100.0	8,839.3	7,852.0	7,788.4	194.8	30.3	-26.22	1,039.9	1,207.4	7,235.2	7,168.5	66.71	108.451		
16,200.0	8,842.1	7,852.0	7,788.4	197.2	30.3	-26.22	1,039.9	1,207.4	7,334.3	7,267.5	66.79	109.806		
16,300.0	8,844.9	7,852.0	7,788.4	199.6	30.3	-26.22	1,039.9	1,207.4	7,433.5	7,366.6	66.87	111.158		
16,400.0	8,847.8	7,852.0	7,788.4	202.0	30.3	-26.22	1,039.9	1,207.4	7,532.7	7,465.7	66.95	112.507		
16,500.0	8,850.6	7,852.0	7,788.4	204.4	30.3	-26.22	1,039.9	1,207.4	7,631.9	7,564.9	67.03	113.852		
16,600.0	8,853.4	7,852.0	7,788.4	206.8	30.3	-26.22	1,039.9	1,207.4	7,731.2	7,664.0	67.11	115.194		
16,700.0	8,856.2	7,852.0	7,788.4	209.3	30.3	-26.22	1,039.9	1,207.4	7,830.4	7,763.2	67.20	116.531		
16,800.0	8,859.0	7,852.0	7,788.4	211.7	30.3	-26.22	1,039.9	1,207.4	7,929.7	7,862.4	67.28	117.866		
16,900.0	8,861.8	7,852.0	7,788.4	214.1	30.3	-26.22	1,039.9	1,207.4	8,029.0	7,961.6	67.36	119.196		
17,000.0	8,864.7	7,852.0	7,788.4	216.5	30.3	-26.22	1,039.9	1,207.4	8,128.3	8,060.8	67.44	120.523		
17,100.0	8,867.5	7,852.0	7,788.4	218.9	30.3	-26.22	1,039.9	1,207.4	8,227.6	8,160.1	67.52	121.846		
17,200.0	8,870.3	7,852.0	7,788.4	221.3	30.3	-26.22	1,039.9	1,207.4	8,327.0	8,259.3	67.61	123.166		
17,300.0	8,873.1	7,852.0	7,788.4	223.8	30.3	-26.22	1,039.9	1,207.4	8,426.3	8,358.6	67.69	124.481		
17,400.0	8,875.9	7,852.0	7,788.4	226.2	30.3	-26.22	1,039.9	1,207.4	8,525.7	8,457.9	67.78	125.793		
17,500.0	8,878.8	7,852.0	7,788.4	228.6	30.3	-26.22	1,039.9	1,207.4	8,625.1	8,557.2	67.86	127.100		
17,600.0	8,881.6	7,852.0	7,788.4	231.0	30.3	-26.22	1,039.9	1,207.4	8,724.5	8,656.5	67.95	128.404		
17,700.0	8,884.4	7,852.0	7,788.4	233.4	30.3	-26.22	1,039.9	1,207.4	8,823.9	8,755.9	68.03	129.704		
17,800.0	8,887.2	7,852.0	7,788.4	235.9	30.3	-26.22	1,039.9	1,207.4	8,923.3	8,855.2	68.12	130.999		
17,900.0	8,890.0	7,852.0	7,788.4	238.3	30.3	-26.22	1,039.9	1,207.4	9,022.8	8,954.6	68.20	132.291		
18,000.0	8,892.8	7,852.0	7,788.4	240.7	30.3	-26.22	1,039.9	1,207.4	9,122.2	9,053.9	68.29	133.579		
18,100.0	8,895.7	7,852.0	7,788.4	243.1	30.3	-26.22	1,039.9	1,207.4	9,221.7	9,153.3	68.38	134.862		
18,200.0	8,898.5	7,852.0	7,788.4	245.5	30.3	-26.22	1,039.9	1,207.4	9,321.2	9,252.7	68.47	136.141		
18,300.0	8,901.3	7,852.0	7,788.4	248.0	30.3	-26.22	1,039.9	1,207.4	9,420.6	9,352.1	68.56	137.417		
18,400.0	8,904.1	7,852.0	7,788.4	250.4	30.3	-26.22	1,039.9	1,207.4	9,520.1	9,451.5	68.64	138.688		
18,500.0	8,906.9	7,852.0	7,788.4	252.8	30.3	-26.22	1,039.9	1,207.4	9,619.6	9,550.9	68.73	139.954		
18,600.0	8,909.8	7,806.7	7,743.7	255.2	30.2	-25.07	1,040.0	1,215.0	9,716.9	9,648.2	68.66	141.526		
18,700.0	8,912.6	7,806.2	7,743.3	257.7	30.2	-25.06	1,040.0	1,215.0	9,816.4	9,747.6	68.75	142.788		
18,800.0	8,915.4	7,805.8	7,742.9	260.1	30.2	-25.05	1,040.0	1,215.1	9,915.9	9,847.0	68.84	144.046		

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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3001.5usft

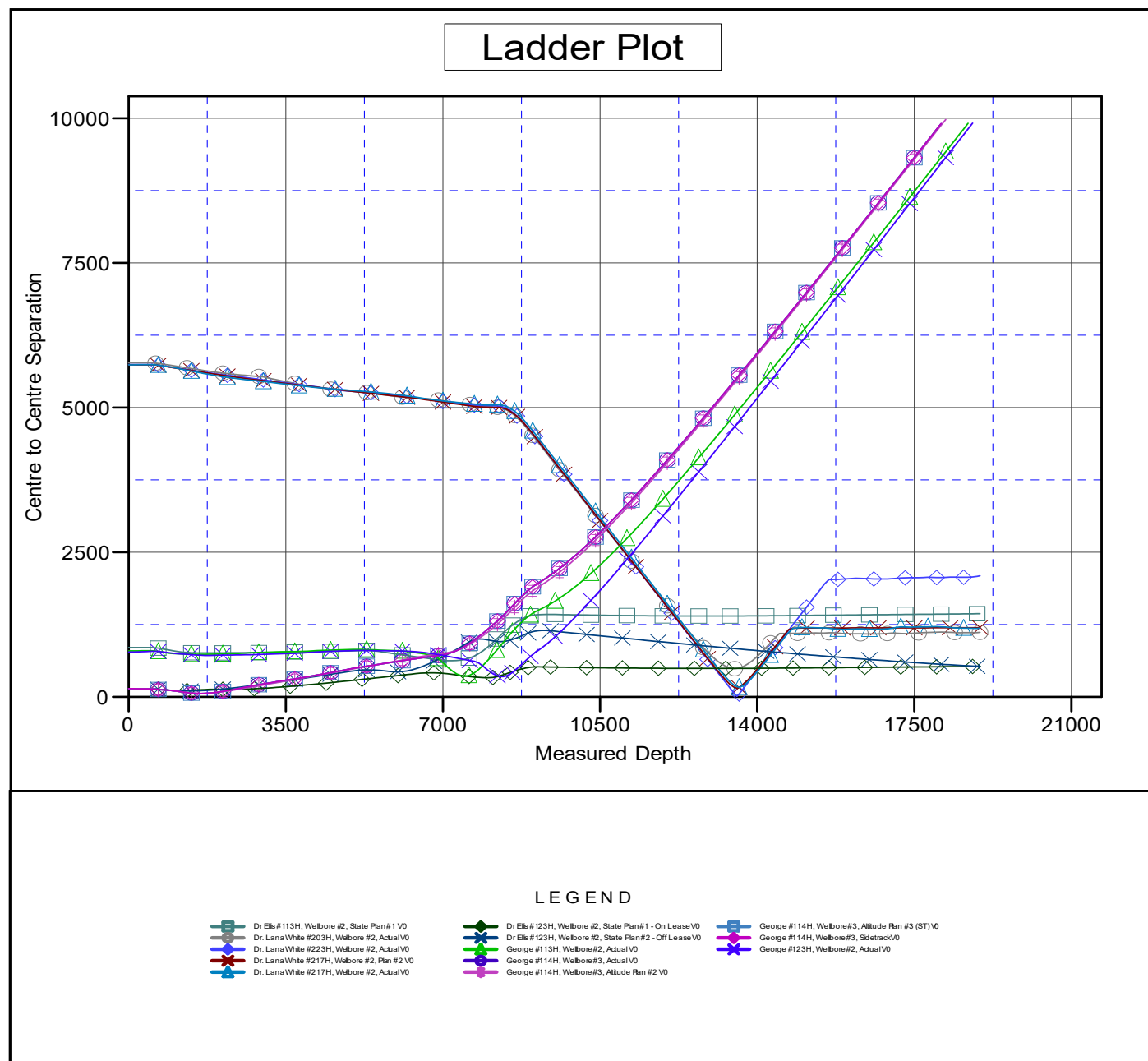
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Dr Ellis #133H

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

Grid Convergence at Surface is: 0.15°



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

Anticollision Report

Company:	Matador Production Company	Local Co-ordinate Reference:	Well Dr Ellis #133H
Project:	Rustler Breaks	TVD Reference:	KB @ 3001.5usft
Reference Site:	Dr Ellis	MD Reference:	KB @ 3001.5usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Server
Reference Design:	State Plan #1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3001.5usft

Offset Depths are relative to Offset Datum

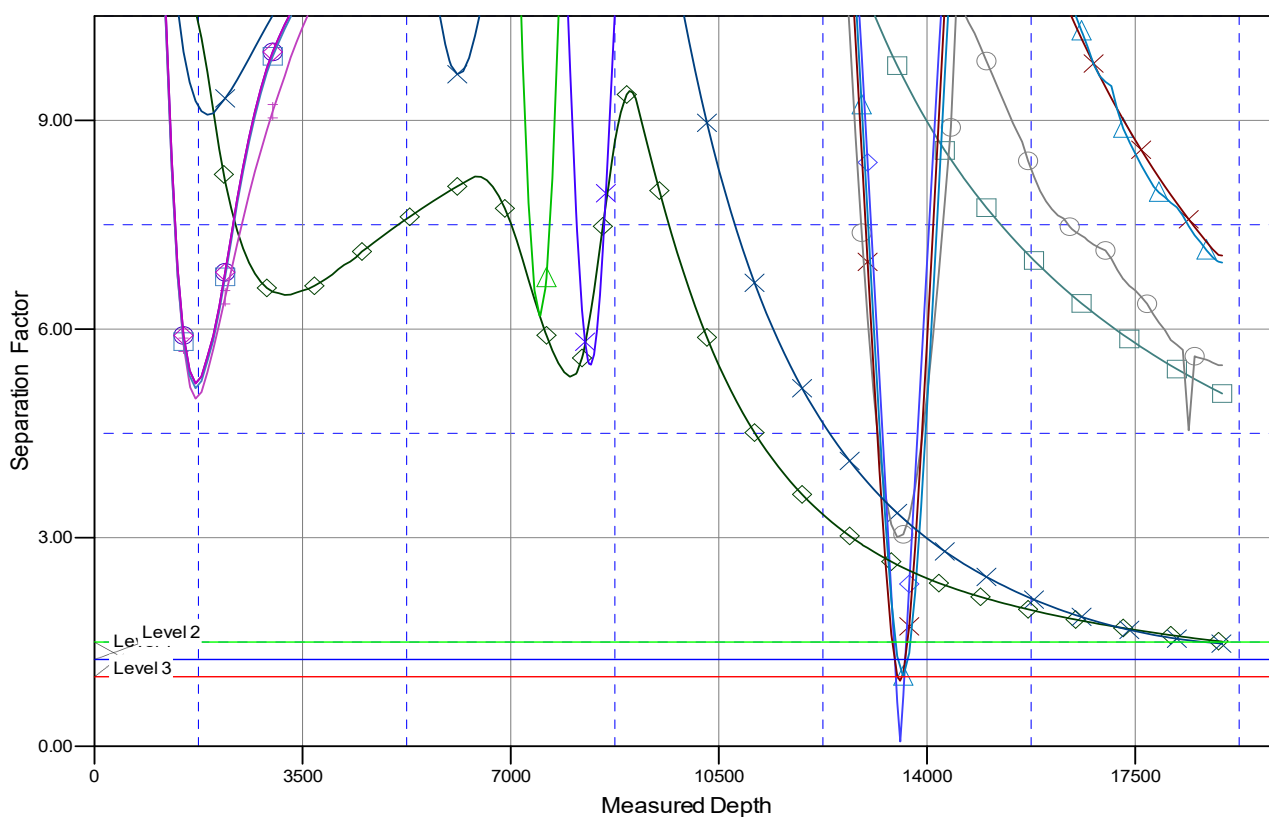
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: Dr Ellis #133H

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

Grid Convergence at Surface is: 0.15°

Separation Factor Plot



LEGEND

Dr Ellis #113H, Wellbore #2, State Plan #1 V0	Dr Ellis #123H, Wellbore #2, State Plan #1 - On Lease V0	George #114H, Wellbore #3, Altitude Rm #3 (ST) V0
Dr. Lana White #203H, Wellbore #2, Actual V0	Dr Ellis #123H, Wellbore #2, State Plan #2 - Off Lease V0	George #114H, Wellbore #3, Sidetrack V0
Dr. Lana White #223H, Wellbore #2, Actual V0	George #113H, Wellbore #2, Actual V0	George #114H, Wellbore #3, Actual V0
Dr. Lana White #217H, Wellbore #2, Plan #2 V0	George #114H, Wellbore #3, Actual V0	George #123H, Wellbore #2, Actual V0
Dr. Lana White #217H, Wellbore #2, Actual V0	George #114H, Wellbore #3, Altitude Rm #2 V0	

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

Matador Production Company

Rustler Breaks

Dr Ellis

Dr Ellis #133H

Wellbore #1

Plan: State Plan #1

Standard Planning Report

23 May, 2023

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

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

Site	Dr Ellis					
Site Position:		Northing:	442,046.44 usft	Latitude:	32° 12' 53.942 N	
From:	Lat/Long	Easting:	587,797.06 usft	Longitude:	104° 2' 58.014 W	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Dr Ellis #133H					
Well Position	+N/-S	-647.5 usft	Northing:	441,399.00 usft	Latitude:	32° 12' 47.550 N
	+E/-W	-557.1 usft	Easting:	587,240.00 usft	Longitude:	104° 3' 4.518 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	2,973.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	5/23/2023	6.53	59.90	47,276.75907818

Design	State Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	90.10

Plan Survey Tool Program	Date	5/23/2023		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,963.5	State Plan #1 (Wellbore #1)	MWD
				OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
660.0	8.00	52.07	659.5	6.9	8.8	5.00	5.00	0.00	52.07	
7,583.1	8.00	52.07	7,515.2	599.2	768.7	0.00	0.00	0.00	0.00	
8,116.4	0.00	0.00	8,046.8	622.0	798.0	1.50	-1.50	0.00	180.00	
8,216.6	0.00	0.00	8,147.0	622.0	798.0	0.00	0.00	0.00	0.00	VP - Dr Ellis #133H
9,116.6	90.00	90.06	8,720.0	621.4	1,371.0	10.00	10.00	0.00	90.06	
14,614.8	88.39	90.05	8,797.4	616.0	6,868.4	0.03	-0.03	0.00	-179.76	
18,963.5	88.39	90.05	8,920.0	612.0	11,215.4	0.00	0.00	0.00	0.00	BHL - Dr Ellis #133H

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
287.0	0.00	0.00	287.0	0.0	0.0	0.0	0.00	0.00	0.00
Z (Salado)									
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
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 5.00									
600.0	5.00	52.07	599.9	2.7	3.4	3.4	5.00	5.00	0.00
660.0	8.00	52.07	659.5	6.9	8.8	8.8	5.00	5.00	0.00
Start 6923.1 hold at 660.0 MD									
700.0	8.00	52.07	699.1	10.3	13.2	13.2	0.00	0.00	0.00
800.0	8.00	52.07	798.1	18.8	24.2	24.1	0.00	0.00	0.00
900.0	8.00	52.07	897.1	27.4	35.1	35.1	0.00	0.00	0.00
1,000.0	8.00	52.07	996.2	35.9	46.1	46.1	0.00	0.00	0.00
1,064.6	8.00	52.07	1,060.2	41.5	53.2	53.1	0.00	0.00	0.00
Z (Castile (T))									
1,100.0	8.00	52.07	1,095.2	44.5	57.1	57.0	0.00	0.00	0.00
1,200.0	8.00	52.07	1,194.2	53.1	68.1	68.0	0.00	0.00	0.00
1,300.0	8.00	52.07	1,293.3	61.6	79.0	78.9	0.00	0.00	0.00
1,400.0	8.00	52.07	1,392.3	70.2	90.0	89.9	0.00	0.00	0.00
1,500.0	8.00	52.07	1,491.3	78.7	101.0	100.9	0.00	0.00	0.00
1,600.0	8.00	52.07	1,590.3	87.3	112.0	111.8	0.00	0.00	0.00
1,700.0	8.00	52.07	1,689.4	95.8	123.0	122.8	0.00	0.00	0.00
1,800.0	8.00	52.07	1,788.4	104.4	133.9	133.7	0.00	0.00	0.00
1,900.0	8.00	52.07	1,887.4	112.9	144.9	144.7	0.00	0.00	0.00
2,000.0	8.00	52.07	1,986.4	121.5	155.9	155.7	0.00	0.00	0.00
2,100.0	8.00	52.07	2,085.5	130.1	166.9	166.6	0.00	0.00	0.00
2,200.0	8.00	52.07	2,184.5	138.6	177.8	177.6	0.00	0.00	0.00
2,300.0	8.00	52.07	2,283.5	147.2	188.8	188.6	0.00	0.00	0.00
2,400.0	8.00	52.07	2,382.5	155.7	199.8	199.5	0.00	0.00	0.00
2,500.0	8.00	52.07	2,481.6	164.3	210.8	210.5	0.00	0.00	0.00
2,600.0	8.00	52.07	2,580.6	172.8	221.7	221.4	0.00	0.00	0.00
2,644.7	8.00	52.07	2,624.9	176.7	226.7	226.3	0.00	0.00	0.00
Z (G30:CS14-CSB)									
2,691.3	8.00	52.07	2,671.0	180.7	231.8	231.5	0.00	0.00	0.00
Z (G26: Bell Cyn.)									
2,700.0	8.00	52.07	2,679.6	181.4	232.7	232.4	0.00	0.00	0.00
2,800.0	8.00	52.07	2,778.7	190.0	243.7	243.4	0.00	0.00	0.00
2,900.0	8.00	52.07	2,877.7	198.5	254.7	254.3	0.00	0.00	0.00
3,000.0	8.00	52.07	2,976.7	207.1	265.7	265.3	0.00	0.00	0.00
3,100.0	8.00	52.07	3,075.7	215.6	276.6	276.3	0.00	0.00	0.00
3,200.0	8.00	52.07	3,174.8	224.2	287.6	287.2	0.00	0.00	0.00
3,300.0	8.00	52.07	3,273.8	232.7	298.6	298.2	0.00	0.00	0.00
3,400.0	8.00	52.07	3,372.8	241.3	309.6	309.1	0.00	0.00	0.00
3,500.0	8.00	52.07	3,471.8	249.8	320.5	320.1	0.00	0.00	0.00
3,600.0	8.00	52.07	3,570.9	258.4	331.5	331.1	0.00	0.00	0.00
3,650.9	8.00	52.07	3,621.3	262.8	337.1	336.6	0.00	0.00	0.00
Z (G13: Cherry Cyn.)									
3,700.0	8.00	52.07	3,669.9	267.0	342.5	342.0	0.00	0.00	0.00
3,800.0	8.00	52.07	3,768.9	275.5	353.5	353.0	0.00	0.00	0.00
3,900.0	8.00	52.07	3,867.9	284.1	364.4	363.9	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,000.0	8.00	52.07	3,967.0	292.6	375.4	374.9	0.00	0.00	0.00
4,100.0	8.00	52.07	4,066.0	301.2	386.4	385.9	0.00	0.00	0.00
4,200.0	8.00	52.07	4,165.0	309.7	397.4	396.8	0.00	0.00	0.00
4,300.0	8.00	52.07	4,264.1	318.3	408.3	407.8	0.00	0.00	0.00
4,400.0	8.00	52.07	4,363.1	326.8	419.3	418.8	0.00	0.00	0.00
4,500.0	8.00	52.07	4,462.1	335.4	430.3	429.7	0.00	0.00	0.00
4,600.0	8.00	52.07	4,561.1	344.0	441.3	440.7	0.00	0.00	0.00
4,700.0	8.00	52.07	4,660.2	352.5	452.3	451.6	0.00	0.00	0.00
4,795.8	8.00	52.07	4,755.0	360.7	462.8	462.1	0.00	0.00	0.00
Z (G7: Brushy Cyn.)									
4,800.0	8.00	52.07	4,759.2	361.1	463.2	462.6	0.00	0.00	0.00
4,900.0	8.00	52.07	4,858.2	369.6	474.2	473.6	0.00	0.00	0.00
5,000.0	8.00	52.07	4,957.2	378.2	485.2	484.5	0.00	0.00	0.00
5,100.0	8.00	52.07	5,056.3	386.7	496.2	495.5	0.00	0.00	0.00
5,200.0	8.00	52.07	5,155.3	395.3	507.1	506.5	0.00	0.00	0.00
5,300.0	8.00	52.07	5,254.3	403.8	518.1	517.4	0.00	0.00	0.00
5,400.0	8.00	52.07	5,353.4	412.4	529.1	528.4	0.00	0.00	0.00
5,500.0	8.00	52.07	5,452.4	421.0	540.1	539.3	0.00	0.00	0.00
5,600.0	8.00	52.07	5,551.4	429.5	551.0	550.3	0.00	0.00	0.00
5,700.0	8.00	52.07	5,650.4	438.1	562.0	561.3	0.00	0.00	0.00
5,800.0	8.00	52.07	5,749.5	446.6	573.0	572.2	0.00	0.00	0.00
5,900.0	8.00	52.07	5,848.5	455.2	584.0	583.2	0.00	0.00	0.00
6,000.0	8.00	52.07	5,947.5	463.7	595.0	594.1	0.00	0.00	0.00
6,100.0	8.00	52.07	6,046.5	472.3	605.9	605.1	0.00	0.00	0.00
6,200.0	8.00	52.07	6,145.6	480.8	616.9	616.1	0.00	0.00	0.00
6,300.0	8.00	52.07	6,244.6	489.4	627.9	627.0	0.00	0.00	0.00
6,400.0	8.00	52.07	6,343.6	498.0	638.9	638.0	0.00	0.00	0.00
6,434.6	8.00	52.07	6,377.9	500.9	642.7	641.8	0.00	0.00	0.00
Z (G4: BSGL (CS9))									
6,500.0	8.00	52.07	6,442.6	506.5	649.8	649.0	0.00	0.00	0.00
6,600.0	8.00	52.07	6,541.7	515.1	660.8	659.9	0.00	0.00	0.00
6,700.0	8.00	52.07	6,640.7	523.6	671.8	670.9	0.00	0.00	0.00
6,800.0	8.00	52.07	6,739.7	532.2	682.8	681.8	0.00	0.00	0.00
6,900.0	8.00	52.07	6,838.8	540.7	693.7	692.8	0.00	0.00	0.00
7,000.0	8.00	52.07	6,937.8	549.3	704.7	703.8	0.00	0.00	0.00
7,100.0	8.00	52.07	7,036.8	557.9	715.7	714.7	0.00	0.00	0.00
7,177.6	8.00	52.07	7,113.7	564.5	724.2	723.2	0.00	0.00	0.00
Z (L5.3: FBSC)									
7,200.0	8.00	52.07	7,135.8	566.4	726.7	725.7	0.00	0.00	0.00
7,300.0	8.00	52.07	7,234.9	575.0	737.7	736.6	0.00	0.00	0.00
7,378.0	8.00	52.07	7,312.1	581.6	746.2	745.2	0.00	0.00	0.00
Z (L5.1: FBSC)									
7,400.0	8.00	52.07	7,333.9	583.5	748.6	747.6	0.00	0.00	0.00
7,500.0	8.00	52.07	7,432.9	592.1	759.6	758.6	0.00	0.00	0.00
7,583.1	8.00	52.07	7,515.2	599.2	768.7	767.7	0.00	0.00	0.00
Start Drop -1.50									
7,600.0	7.75	52.07	7,531.9	600.6	770.6	769.5	1.50	-1.50	0.00
7,662.3	6.81	52.07	7,593.8	605.5	776.8	775.7	1.50	-1.50	0.00
Z (L4.3: SBSC)									
7,700.0	6.25	52.07	7,631.2	608.1	780.2	779.1	1.50	-1.50	0.00
7,800.0	4.75	52.07	7,730.7	614.0	787.7	786.6	1.50	-1.50	0.00
7,900.0	3.25	52.07	7,830.5	618.3	793.2	792.1	1.50	-1.50	0.00
8,000.0	1.75	52.07	7,930.4	620.9	796.6	795.6	1.50	-1.50	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,100.0	0.25	52.07	8,030.4	622.0	798.0	796.9	1.50	-1.50	0.00
8,116.4	0.00	0.00	8,046.8	622.0	798.0	797.0	1.50	-1.50	0.00
Start 100.2 hold at 8116.4 MD									
8,196.9	0.00	0.00	8,127.3	622.0	798.0	797.0	0.00	0.00	0.00
Z (L4.1: SBSG)									
8,200.0	0.00	0.00	8,130.4	622.0	798.0	797.0	0.00	0.00	0.00
8,216.6	0.00	0.00	8,147.0	622.0	798.0	797.0	0.00	0.00	0.00
Start Build 10.00 - VP - Dr Ellis #133H									
8,250.0	3.34	90.06	8,180.4	622.0	799.0	797.9	10.00	10.00	0.00
8,300.0	8.34	90.06	8,230.1	622.0	804.1	803.0	10.00	10.00	0.00
8,350.0	13.34	90.06	8,279.2	622.0	813.5	812.4	10.00	10.00	0.00
8,400.0	18.34	90.06	8,327.3	622.0	827.1	826.1	10.00	10.00	0.00
8,450.0	23.34	90.06	8,374.0	622.0	844.9	843.8	10.00	10.00	0.00
8,500.0	28.34	90.06	8,419.0	622.0	866.7	865.6	10.00	10.00	0.00
8,550.0	33.34	90.06	8,461.9	621.9	892.3	891.2	10.00	10.00	0.00
8,600.0	38.34	90.06	8,502.4	621.9	921.6	920.5	10.00	10.00	0.00
8,609.8	39.32	90.06	8,510.1	621.9	927.8	926.7	10.00	10.00	0.00
Z (L3.3: TBSC)									
8,650.0	43.34	90.06	8,540.2	621.9	954.3	953.2	10.00	10.00	0.00
8,700.0	48.34	90.06	8,575.0	621.8	990.1	989.0	10.00	10.00	0.00
8,750.0	53.34	90.06	8,606.6	621.8	1,028.9	1,027.8	10.00	10.00	0.00
8,800.0	58.34	90.06	8,634.7	621.8	1,070.3	1,069.2	10.00	10.00	0.00
8,850.0	63.34	90.06	8,659.0	621.7	1,113.9	1,112.8	10.00	10.00	0.00
8,900.0	68.34	90.06	8,679.5	621.7	1,159.5	1,158.4	10.00	10.00	0.00
8,950.0	73.34	90.06	8,695.9	621.6	1,206.7	1,205.6	10.00	10.00	0.00
9,000.0	78.34	90.06	8,708.1	621.6	1,255.2	1,254.1	10.00	10.00	0.00
9,050.0	83.34	90.06	8,716.1	621.5	1,304.5	1,303.4	10.00	10.00	0.00
9,100.0	88.34	90.06	8,719.7	621.5	1,354.4	1,353.3	10.00	10.00	0.00
9,116.6	90.00	90.06	8,720.0	621.4	1,371.0	1,369.9	10.00	10.00	0.00
Start DLS 0.03 TFO -179.76									
9,200.0	89.98	90.06	8,720.0	621.3	1,454.4	1,453.3	0.03	-0.03	0.00
9,300.0	89.95	90.06	8,720.0	621.2	1,554.4	1,553.3	0.03	-0.03	0.00
9,400.0	89.92	90.06	8,720.2	621.1	1,654.4	1,653.3	0.03	-0.03	0.00
9,500.0	89.89	90.06	8,720.3	621.0	1,754.4	1,753.3	0.03	-0.03	0.00
9,600.0	89.86	90.06	8,720.6	620.9	1,854.4	1,853.3	0.03	-0.03	0.00
9,700.0	89.83	90.06	8,720.8	620.8	1,954.4	1,953.3	0.03	-0.03	0.00
9,800.0	89.80	90.06	8,721.2	620.7	2,054.4	2,053.3	0.03	-0.03	0.00
9,900.0	89.77	90.06	8,721.5	620.6	2,154.4	2,153.3	0.03	-0.03	0.00
10,000.0	89.74	90.06	8,722.0	620.5	2,254.4	2,253.3	0.03	-0.03	0.00
10,100.0	89.71	90.06	8,722.4	620.4	2,354.4	2,353.3	0.03	-0.03	0.00
10,200.0	89.68	90.06	8,723.0	620.3	2,454.4	2,453.3	0.03	-0.03	0.00
10,300.0	89.65	90.06	8,723.5	620.2	2,554.4	2,553.3	0.03	-0.03	0.00
10,400.0	89.62	90.06	8,724.2	620.1	2,654.4	2,653.3	0.03	-0.03	0.00
10,500.0	89.59	90.06	8,724.9	620.0	2,754.4	2,753.3	0.03	-0.03	0.00
10,600.0	89.56	90.06	8,725.6	619.9	2,854.4	2,853.3	0.03	-0.03	0.00
10,700.0	89.53	90.06	8,726.4	619.8	2,954.4	2,953.3	0.03	-0.03	0.00
10,800.0	89.51	90.06	8,727.2	619.7	3,054.4	3,053.3	0.03	-0.03	0.00
10,900.0	89.48	90.06	8,728.1	619.6	3,154.4	3,153.3	0.03	-0.03	0.00
11,000.0	89.45	90.06	8,729.0	619.5	3,254.3	3,253.3	0.03	-0.03	0.00
11,100.0	89.42	90.06	8,730.0	619.4	3,354.3	3,353.3	0.03	-0.03	0.00
11,200.0	89.39	90.06	8,731.1	619.3	3,454.3	3,453.3	0.03	-0.03	0.00
11,300.0	89.36	90.06	8,732.2	619.2	3,554.3	3,553.2	0.03	-0.03	0.00
11,400.0	89.33	90.06	8,733.3	619.1	3,654.3	3,653.2	0.03	-0.03	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,500.0	89.30	90.06	8,734.5	619.0	3,754.3	3,753.2	0.03	-0.03	0.00
11,600.0	89.27	90.06	8,735.8	618.9	3,854.3	3,853.2	0.03	-0.03	0.00
11,700.0	89.24	90.06	8,737.1	618.8	3,954.3	3,953.2	0.03	-0.03	0.00
11,800.0	89.21	90.06	8,738.4	618.7	4,054.3	4,053.2	0.03	-0.03	0.00
11,900.0	89.18	90.06	8,739.8	618.6	4,154.3	4,153.2	0.03	-0.03	0.00
12,000.0	89.15	90.06	8,741.3	618.5	4,254.3	4,253.2	0.03	-0.03	0.00
12,100.0	89.12	90.06	8,742.8	618.4	4,354.3	4,353.2	0.03	-0.03	0.00
12,200.0	89.09	90.06	8,744.3	618.3	4,454.2	4,453.2	0.03	-0.03	0.00
12,300.0	89.06	90.06	8,745.9	618.2	4,554.2	4,553.2	0.03	-0.03	0.00
12,400.0	89.04	90.06	8,747.6	618.1	4,654.2	4,653.1	0.03	-0.03	0.00
12,500.0	89.01	90.06	8,749.3	618.0	4,754.2	4,753.1	0.03	-0.03	0.00
12,600.0	88.98	90.06	8,751.1	617.9	4,854.2	4,853.1	0.03	-0.03	0.00
12,700.0	88.95	90.06	8,752.9	617.8	4,954.2	4,953.1	0.03	-0.03	0.00
12,800.0	88.92	90.06	8,754.7	617.7	5,054.2	5,053.1	0.03	-0.03	0.00
12,900.0	88.89	90.06	8,756.6	617.6	5,154.1	5,153.1	0.03	-0.03	0.00
13,000.0	88.86	90.06	8,758.6	617.5	5,254.1	5,253.0	0.03	-0.03	0.00
13,100.0	88.83	90.06	8,760.6	617.4	5,354.1	5,353.0	0.03	-0.03	0.00
13,200.0	88.80	90.05	8,762.7	617.3	5,454.1	5,453.0	0.03	-0.03	0.00
13,300.0	88.77	90.05	8,764.8	617.2	5,554.1	5,553.0	0.03	-0.03	0.00
13,400.0	88.74	90.05	8,767.0	617.1	5,654.0	5,652.9	0.03	-0.03	0.00
13,500.0	88.71	90.05	8,769.2	617.1	5,754.0	5,752.9	0.03	-0.03	0.00
13,600.0	88.68	90.05	8,771.5	617.0	5,854.0	5,852.9	0.03	-0.03	0.00
13,700.0	88.65	90.05	8,773.8	616.9	5,954.0	5,952.9	0.03	-0.03	0.00
13,800.0	88.62	90.05	8,776.2	616.8	6,053.9	6,052.8	0.03	-0.03	0.00
13,900.0	88.59	90.05	8,778.6	616.7	6,153.9	6,152.8	0.03	-0.03	0.00
14,000.0	88.57	90.05	8,781.1	616.6	6,253.9	6,252.8	0.03	-0.03	0.00
14,100.0	88.54	90.05	8,783.6	616.5	6,353.8	6,352.7	0.03	-0.03	0.00
14,200.0	88.51	90.05	8,786.2	616.4	6,453.8	6,452.7	0.03	-0.03	0.00
14,300.0	88.48	90.05	8,788.8	616.3	6,553.8	6,552.7	0.03	-0.03	0.00
14,400.0	88.45	90.05	8,791.5	616.2	6,653.7	6,652.6	0.03	-0.03	0.00
14,500.0	88.42	90.05	8,794.2	616.1	6,753.7	6,752.6	0.03	-0.03	0.00
14,600.0	88.39	90.05	8,797.0	616.0	6,853.7	6,852.6	0.03	-0.03	0.00
14,614.8	88.39	90.05	8,797.4	616.0	6,868.4	6,867.3	0.00	0.00	0.00
Start 4348.8 hold at 14614.8 MD									
14,700.0	88.39	90.05	8,799.8	615.9	6,953.6	6,952.5	0.01	-0.01	0.00
14,800.0	88.39	90.05	8,802.7	615.8	7,053.6	7,052.5	0.00	0.00	0.00
14,900.0	88.39	90.05	8,805.5	615.7	7,153.5	7,152.4	0.00	0.00	0.00
15,000.0	88.39	90.05	8,808.3	615.6	7,253.5	7,252.4	0.00	0.00	0.00
15,100.0	88.39	90.05	8,811.1	615.6	7,353.5	7,352.4	0.00	0.00	0.00
15,200.0	88.39	90.05	8,813.9	615.5	7,453.4	7,452.3	0.00	0.00	0.00
15,300.0	88.39	90.05	8,816.8	615.4	7,553.4	7,552.3	0.00	0.00	0.00
15,400.0	88.39	90.05	8,819.6	615.3	7,653.3	7,652.3	0.00	0.00	0.00
15,500.0	88.39	90.05	8,822.4	615.2	7,753.3	7,752.2	0.00	0.00	0.00
15,600.0	88.39	90.05	8,825.2	615.1	7,853.3	7,852.2	0.00	0.00	0.00
15,700.0	88.39	90.05	8,828.0	615.0	7,953.2	7,952.1	0.00	0.00	0.00
15,800.0	88.39	90.05	8,830.8	614.9	8,053.2	8,052.1	0.00	0.00	0.00
15,900.0	88.39	90.05	8,833.7	614.8	8,153.1	8,152.1	0.00	0.00	0.00
16,000.0	88.39	90.05	8,836.5	614.7	8,253.1	8,252.0	0.00	0.00	0.00
16,100.0	88.39	90.05	8,839.3	614.6	8,353.1	8,352.0	0.00	0.00	0.00
16,200.0	88.39	90.05	8,842.1	614.5	8,453.0	8,451.9	0.00	0.00	0.00
16,300.0	88.39	90.05	8,844.9	614.4	8,553.0	8,551.9	0.00	0.00	0.00
16,400.0	88.39	90.05	8,847.8	614.3	8,652.9	8,651.9	0.00	0.00	0.00
16,500.0	88.39	90.05	8,850.6	614.3	8,752.9	8,751.8	0.00	0.00	0.00
16,600.0	88.39	90.05	8,853.4	614.2	8,852.9	8,851.8	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
16,700.0	88.39	90.05	8,856.2	614.1	8,952.8	8,951.7	0.00	0.00	0.00	
16,800.0	88.39	90.05	8,859.0	614.0	9,052.8	9,051.7	0.00	0.00	0.00	
16,900.0	88.39	90.05	8,861.8	613.9	9,152.7	9,151.7	0.00	0.00	0.00	
17,000.0	88.39	90.05	8,864.7	613.8	9,252.7	9,251.6	0.00	0.00	0.00	
17,100.0	88.39	90.05	8,867.5	613.7	9,352.7	9,351.6	0.00	0.00	0.00	
17,200.0	88.39	90.05	8,870.3	613.6	9,452.6	9,451.5	0.00	0.00	0.00	
17,300.0	88.39	90.05	8,873.1	613.5	9,552.6	9,551.5	0.00	0.00	0.00	
17,400.0	88.39	90.05	8,875.9	613.4	9,652.5	9,651.5	0.00	0.00	0.00	
17,500.0	88.39	90.05	8,878.8	613.3	9,752.5	9,751.4	0.00	0.00	0.00	
17,600.0	88.39	90.05	8,881.6	613.2	9,852.5	9,851.4	0.00	0.00	0.00	
17,700.0	88.39	90.05	8,884.4	613.1	9,952.4	9,951.3	0.00	0.00	0.00	
17,800.0	88.39	90.05	8,887.2	613.0	10,052.4	10,051.3	0.00	0.00	0.00	
17,900.0	88.39	90.05	8,890.0	613.0	10,152.3	10,151.3	0.00	0.00	0.00	
18,000.0	88.39	90.05	8,892.8	612.9	10,252.3	10,251.2	0.00	0.00	0.00	
18,100.0	88.39	90.05	8,895.7	612.8	10,352.3	10,351.2	0.00	0.00	0.00	
18,200.0	88.39	90.05	8,898.5	612.7	10,452.2	10,451.1	0.00	0.00	0.00	
18,300.0	88.39	90.05	8,901.3	612.6	10,552.2	10,551.1	0.00	0.00	0.00	
18,400.0	88.39	90.05	8,904.1	612.5	10,652.1	10,651.1	0.00	0.00	0.00	
18,500.0	88.39	90.05	8,906.9	612.4	10,752.1	10,751.0	0.00	0.00	0.00	
18,600.0	88.39	90.05	8,909.8	612.3	10,852.1	10,851.0	0.00	0.00	0.00	
18,700.0	88.39	90.05	8,912.6	612.2	10,952.0	10,950.9	0.00	0.00	0.00	
18,800.0	88.39	90.05	8,915.4	612.1	11,052.0	11,050.9	0.00	0.00	0.00	
18,900.0	88.39	90.05	8,918.2	612.0	11,151.9	11,150.9	0.00	0.00	0.00	
18,963.5	88.39	90.05	8,920.0	612.0	11,215.4	11,214.3	0.00	0.00	0.00	
TD at 18963.5 - BHL - Dr Ellis #133H										

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 - Dr Ellis #133H - plan hits target center - Point	0.00	0.01	8,147.0	622.0	798.0	442,021.00	588,038.00	32° 12' 53.684 N		104° 2' 55.210 W
BHL - Dr Ellis #133H - plan hits target center - Point	0.00	0.00	8,920.0	612.0	11,215.4	442,011.00	598,456.00	32° 12' 53.296 N		104° 0' 53.943 W

Planning Report

Database:	EDM 5000.14 Server	Local Co-ordinate Reference:	Well Dr Ellis #133H
Company:	Matador Production Company	TVD Reference:	KB @ 3001.5usft
Project:	Rustler Breaks	MD Reference:	KB @ 3001.5usft
Site:	Dr Ellis	North Reference:	Grid
Well:	Dr Ellis #133H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	State Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
287.0	287.0	Z (Salado)		1.24	90.10	
1,064.6	1,060.2	Z (Castile (T))		1.24	90.10	
2,644.7	2,624.9	Z (G30:CS14-CSB)		1.24	90.10	
2,691.3	2,671.0	Z (G26: Bell Cyn.)		1.24	90.10	
3,650.9	3,621.3	Z (G13: Cherry Cyn.)		1.24	90.10	
4,795.8	4,755.0	Z (G7: Brushy Cyn.)		1.24	90.10	
6,434.6	6,377.9	Z (G4: BSG (CS9))		1.24	90.10	
7,177.6	7,113.7	Z (L5.3: FBSC)		1.24	90.10	
7,378.0	7,312.1	Z (L5.1: FBSC)		1.24	90.10	
7,662.3	7,593.8	Z (L4.3: SBSC)		1.24	90.10	
8,196.9	8,127.3	Z (L4.1: SBSC)		1.24	90.10	
8,609.8	8,510.1	Z (L3.3: TBSC)		1.24	90.10	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
500.0	500.0	0.0	0.0	Start Build 5.00	
660.0	659.5	6.9	8.8	Start 6923.1 hold at 660.0 MD	
7,583.1	7,515.2	599.2	768.7	Start Drop -1.50	
8,116.4	8,046.8	622.0	798.0	Start 100.2 hold at 8116.4 MD	
8,216.6	8,147.0	622.0	798.0	Start Build 10.00	
9,116.6	8,720.0	621.4	1,371.0	Start DLS 0.03 TFO -179.76	
14,614.8	8,797.4	616.0	6,868.4	Start 4348.8 hold at 14614.8 MD	
18,963.5	8,920.0	612.0	11,215.4	TD at 18963.5	